



Nothing but **HEAVY DUTY.**<sup>™</sup>

**2025 ASIA RANGE  
PRODUCT CATALOGUE**





# MILWAUKEE IN ASIA

Milwaukee Tool is an industry-leading manufacturer of heavy-duty power tools, accessories and hand tools for professional users worldwide.

Since the company began in 1924, Milwaukee Tool has led the industry in both durability and performance. With an unwavering commitment to the trades, Milwaukee continues to lead with a focus on providing innovative, trade-specific solutions.

In Asia, we have presence in over 11 regions, with the hub office in Hong Kong and High Performance Center in Thailand.

# PRODUCT SECTIONS

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# Milwaukee™

1924

1<sup>st</sup> Hole-Shooter  
Designed and  
Manufactured  
for Automotive  
Assembly



1951

World's 1<sup>st</sup>  
SAWZALL  
Reciprocating  
Saw



1991

SUPER SAWZALL  
Reciprocating Saw  
Low Vibration Design



2010

REDLITHIUM  
BATTERY  
Technology



1942  
Industry's 1<sup>st</sup>  
1/2" Right-Angle Drill



1977  
1<sup>st</sup> MAGNUM  
Professional  
Drill



2008  
M12 and M18  
Lithium Range of Tools

1977

2008

# 100 YEARS OF INNOVATION

2015

M18 FUEL  
SDS Plus  
Hammer



2017

M18 9.0Ah  
HIGH DEMAND  
Battery



2021

MX FUEL  
REDLITHIUM  
Range of Tools



2024

100 Years  
of Innovation



2012

M18 FUEL  
Drilling Range



M18 FORGE LOGIC  
M12 and M18  
High Output  
Lighting



2016

2019

M18 HIGH OUTPUT  
Battery



2023

M18 REDLITHIUM  
FORGE 6.0Ah Battery



# Milwaukee™



**REDLITHIUM™**

**2.0 Ah / 2.5 Ah / 3.0 Ah / 4.0 Ah / 5.0 Ah / 6.0 Ah / 8.0 Ah / 12.0 Ah**

# CORDLESS INNOVATION



[www.milwaukeetool.asia](http://www.milwaukeetool.asia)

# **REDLITHIUM™** **FORGE™**

**MOST POWER | FASTEST CHARGING | LONGEST LIFE**



**NEW ERA OF PERFORMANCE**

\*On M18 & MX Fuel Systems



**EQUIPMENT REDEFINED  
TRADE FOCUSED  
SYSTEM WIDE**



**M12 FUEL™**  
**M18 FUEL™**

**DRIVEN TO OUTPERFORM.™**

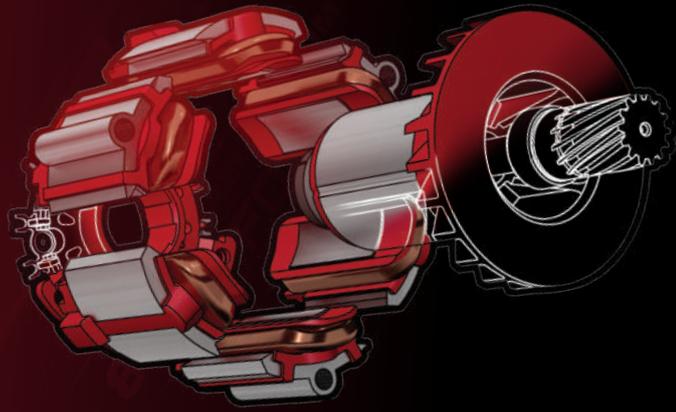


**PERFORMANCE DRIVEN  
TRADE FOCUSED  
SYSTEM WIDE**

# M12 M18 FUEL™

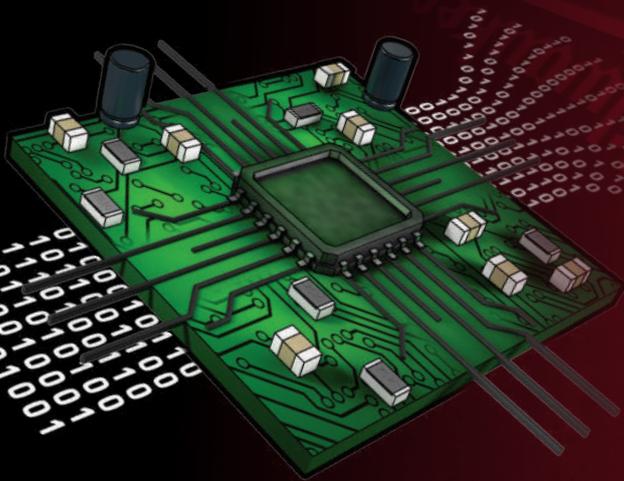
## 1 MORE SPEED, TORQUE AND DURABILITY

POWERSTATE™ brushless motors are designed and built by us, exclusively for our tools. Ideal for professional tradesmen because they deliver more application speed, torque and durability in a smaller size. Additionally, POWERSTATE™ brushless motors reduce noise and cool more rapidly to deliver years of maintenance free performance.



## 2 POWER MEETS CONTROL

Combining advanced hardware and software, REDLINK™ Intelligence enables advanced communication between your batteries and tools, allowing for unmatched levels of performance, protection, and productivity.



## 3 LAST LONGER, THINK FASTER AND WORK HARDER

REDLITHIUM™ batteries last longer, think faster, and work harder than all other professional LITHIUM-ION batteries. Built to withstand the harshest environments, REDLITHIUM™ batteries deliver more work over the course of your day and over the life of the battery.





**M18**<sup>TM</sup>

**NEW**

**REDLITHIUM**<sup>TM</sup>  
**FORGE**<sup>TM</sup>

**MOST POWER**  
**FASTEST CHARGING**  
**LONGEST LIFE**  
VS REDLITHIUM HIGH OUTPUT



**REDLITHIUM**<sup>TM</sup>  
**HIGH OUTPUT**<sup>TM</sup>  
**MORE POWER**  
VS REDLITHIUM



**REDLITHIUM**<sup>TM</sup>



**FITS M18 TOOLS**

# M18 REDLITHIUM™ FORGE™

## M18 REDLITHIUM™ FORGE™ 12.0Ah BATTERY

### REDLINK™ INTELLIGENCE

Provides optimum performance and prevents overheating

### BATTERY FUEL GAUGE

Displays remaining battery life with readability in direct sunlight

### RUBBER OVERMOLD

Protects pack for longest life

### WATER PROTECTION BARRIER

Patented ingress coating routes water away from electronics and out of battery

### IMPROVED THERMAL MANAGEMENT

Runs 35% cooler than High Output™ 12.0 in high demanding applications



### COOL-CYCLE™ CAPABLE

High-speed cooling feature works with COOL-CYCLE™ capable charger

### SIZE/WEIGHT

- Length: 147.3mm
- Height: 104.1mm
- Width: 86.4mm
- Weight: 1.5kg

### RESISTANT HOUSING

Protection against common oils, greases and solvents

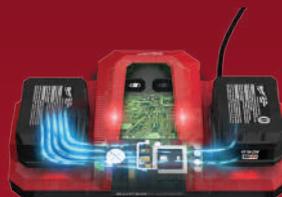


## MOST POWER



- ✓ RUNS 35% COOLER THAN HIGH OUTPUT™ 12.0

## FASTEST CHARGING



W/ M18™ DUAL BAY SUPER CHARGER

- ✓ 35 MIN FOR M18 FB12, 25% FASTER CHARGING THAN M18 HB12
- ✓ HIGH SPEED COOL-CYCLE™ CHARGING FOR M18 FB8 AND M18 FB12

## LONGEST LIFE



- ✓ ADVANCED THERMAL MANAGEMENT
- ✓ RESISTANT TO OILS, GREASES & SOLVENTS
- ✓ LONGER CYCLE LIFE

**REDLITHIUM™**

**HO REDLITHIUM™**  
HIGH OUTPUT BATTERY TECHNOLOGY

**NEW**

**REDLITHIUM™**  
**FORGE™**

**MOST POWER FASTEST CHARGING LONGEST LIFE**

**CELL TECHNOLOGY**

- ⊕ High Power Cell
- ⊕ Fade Free Performance
- ⊕ Lasts in Extreme Environments



**In Addition**

- ⊕ New Larger Cell
- ⊕ Higher Power Density
- ⊕ Runs Cooler
- ⊕ Lower Electrical Resistance



**In Addition**

- ⊕ M18™ FORGE™ utilizes both Pouch and Tabless cell technology for maximum power output and best energy flow
- ⊕ PWR Level 4 and 5 on the M18™ power scale
- ⊕ New Larger Cell



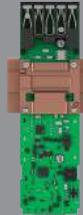
**REDLINK™ ELECTRONICS**

- ⊕ Individual Cell Monitoring
- ⊕ Digital Overload Protection System
- ⊕ Performance Optimisation



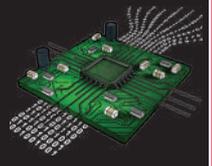
**In Addition**

- ⊕ New High Power Processor
- ⊕ Higher Current Handling
- ⊕ Maintains Existing M18™ System Compatibility



**In Addition**

- ⊕ REDLINK PLUS Intelligence: Provides Optimized Performance and Overload Protection
- ⊕ Total System Communication Between Tool, Battery & Charger
- ⊕ Fully Compatible with the M18™ System



**CONSTRUCTION**

- ⊕ Best-in-Class Pack Construction
- ⊕ Long-Lasting Reliability
- ⊕ Proven Durability on the Jobsite

**In Addition**

- ⊕ New Ground Up Construction
- ⊕ Improved Current Flow
- ⊕ Lower Temperature Rise

**In Addition**

- ⊕ Rubber Overmold for Pack Protection, Protect Pack for Longest Life
- ⊕ Best protection from jobsite, Weather, and environmental conditions
- ⊕ Increased protection against exposure to common oils, greases, and solvents

**BENEFITS**

- ⊕ More Power\*
- ⊕ Longer Battery Life\*
- ⊕ More Run-Time\*

\*vs. standard lithium-ion technologies



**WORKS HARDER, LAST LONGER, THINK FASTER**

- ⊕ Up to 50% More Power
- ⊕ Runs up to 50% Cooler
- ⊕ Up to 33% More Run-time

\*\* vs. Standard REDLITHIUM™ batteries in high current draw applications: 12.0Ah vs 9.0Ah  
\*\*\* 12.0 Ah vs. 9.0Ah



**MOST POWER, FASTEST CHARGING, LONGEST LIFE**

- ⊕ M18™ FORGE™ is the most powerful range of batteries in the M18 REDLITHIUM line-up
- ⊕ 50% More Power vs M18™ High Output
- ⊕ M18™ FORGE™ benefits from Cool-Cycle Capable with Cool-Cycle Capable chargers
- ⊕ M18 FORGE™ batteries have extreme weather performance, providing continuous power output from -20°C to 60°C.



**APPLICATION**

**All Professional Trade Applications**

**High Demand Applications Requiring High Output Current**

**Most Power-Demanding Applications**

**BATTERY RANGE**



**MX FUEL**

**BATTERIES**

**MX FUEL REDLITHIUM™ FORGE™ 12.0Ah BATTERY PACK**

MXF HD812



- 2x More Runtime vs MXF XC406
- Cool-Cycle Capable
- Longest Life vs Standard Redlithium



Capacity	12.0Ah
Battery Type	Lithium-ion
Length (mm)	274
Width (mm)	180
Height (mm)	117
Weight (kg)	6.0

**MX FUEL REDLITHIUM™ FORGE™ 8.0Ah BATTERY PACK**

MXF XC608



- Up To 33% More Runtime vs MXF XC406
- Cool-Cycle Capable
- Longest Life vs Standard Redlithium



Capacity	8.0Ah
Battery Type	Lithium-ion
Length (mm)	274
Width (mm)	180
Height (mm)	96
Weight (kg)	4.4

**MX FUEL REDLITHIUM™ 6.0Ah BATTERY PACK**

MXF XC406

- Light, Compact Size
- Charge in 45 Min
- MX FUEL Compatibility



Capacity	6.0 Ah
Battery Type	Lithium-ion
Length (mm)	269
Width (mm)	183
Height (mm)	107
Weight (kg)	4.8

**MX FUEL REDLITHIUM™ 3.0Ah BATTERY PACK**

MXF CP203

- Light, Compact Size
- Charge in 45 min
- MX FUEL Compatibility



Capacity	3.0 Ah
Battery Type	Lithium-ion
Length (mm)	262
Width (mm)	102
Height (mm)	107
Weight (kg)	2.7



**CHARGERS**

**MX FUEL SUPER CHARGER**

MXF SC

- 2x Faster Charging
- Cool-Cycle Capable
- Compatible with all MX FUEL™ Batteries



Charge Time (min):	
CP203 Battery	45
XC406 Battery	45
XC608 Battery	45
HD812 Battery	65
Cool Cycle Capable	Yes
Weight (kg)	9.0

**MX FUEL FAST CHARGER**

MXF FC

**NEW**

- Fast, Compact Charging
- High-Speed Cooling, Less Downtime
- Compatible with all MX FUEL™ Batteries



Charge Time (min):	
CP203 Battery	45
XC406 Battery	50
XC608 Battery	65
HD812 Battery	100
Cool Cycle Capable	Yes
Weight (kg)	2.3

**MX FUEL CHARGER**

MXF C

- Charge MXF XC406 In 90 Mins
- Integrated Carry Handle
- Compatible With All MX FUEL™ Batteries



Charge Time (min):	
CP203 Battery	45
XC406 Battery	90
XC608 Battery	110
HD812 Battery	160
Cool Cycle Capable	No
Weight (kg)	2.7

**MX FUEL 3600W/1800W PORTABLE POWER SUPPLY**

MXF PS

- Power More On Demand
- Portable Power Anywhere
- More Efficient Power



Starting Wattage (W)	3600
Running Wattage (W)	1800
Number of Outlets	2
Weight w/ 2 XC406 Battery Packs (kg)	28.2
Integrated Charger	Yes



## M18

## BATTERIES

**M18 REDLITHIUM™ FORGE™  
12.0Ah BATTERY PACK**

M18 FB12

NEW

**REDLITHIUM  
FORGE™**

- 50% More Power vs High Output 12.0
- High Speed Cooling, 35 Min Supercharge to 80% with M18 DBSC
- Longest Life vs REDLITHIUM

Voltage	18V
Capacity	12.0Ah
Battery Type	Lithium-Ion
Weight (kg)	1.5

**M18 REDLITHIUM™ FORGE™  
8.0Ah BATTERY PACK**

M18 FB8

NEW

**REDLITHIUM  
FORGE™**

- High Output 12.0 Power in a Smaller Size
- High Speed Cooling, 35 Min Supercharge to 80% with M18 DBSC
- Longest Life vs REDLITHIUM

Voltage	18V
Capacity	8.0Ah
Battery Type	Lithium-Ion
Weight (kg)	1.1

**M18 REDLITHIUM™ FORGE™  
6.0Ah BATTERY PACK**

M18 FB6

**REDLITHIUM  
FORGE™**

- Compact, High Output 12.0 Power
- 15 mins Supercharge to 80% with M18 DBSC
- Longest Life vs REDLITHIUM

Voltage	18V
Capacity	6.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.93

**M18 REDLITHIUM™ HIGH OUTPUT™  
6.0Ah BATTERY PACK**

M18 HB6

- Provides up to 50% More Power vs Standard Redlithium
- Runs up to 50% Cooler vs Standard Redlithium
- Longer Life vs Standard Redlithium



Voltage	18V
Capacity	6.0Ah
Battery Type	Lithium-Ion
Weight (kg)	1.1

**M18 REDLITHIUM™ HIGH OUTPUT™  
3.0Ah BATTERY PACK**

M18 HB3

- Provides up to 50% More Power vs Standard Redlithium
- Runs up to 50% Cooler vs Standard Redlithium
- Longer Life vs Standard Redlithium



Voltage	18V
Capacity	3.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.6

**M18 REDLITHIUM™ 5.0Ah  
BATTERY PACK**

M18 B5

- Delivers up to 2.5x more runtime vs other lithium-ion technologies
- Redlink Intelligence for digital overload protection
- Individual cell monitoring ensures optimal charge and discharge for maximum life



Voltage	18V
Capacity	5.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.7

**M18 REDLITHIUM™ 5.0Ah RESISTANT  
BATTERY PACK**

M18 B5-CR

- Resistant Housing Provide Increased Protection Against Common Oils, Greases and Solvents
- Redlink Intelligence



Voltage	18V
Capacity	5.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.7

**M18 REDLITHIUM™ 4.0Ah  
BATTERY PACK**

M18B4

- Up to 2X More Runtime vs M18B2 Battery
- Redlink Intelligence for digital overload protection
- Individual cell monitoring ensures optimal charge and discharge for maximum life



Voltage	18V
Capacity	4.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.7

**M18 REDLITHIUM™ 2.0Ah  
BATTERY PACK**

M18B2

- Redlink Intelligence for digital overload protection
- Individual cell monitoring ensures optimal charge and discharge for maximum life
- Temperature management system



Voltage	18V
Capacity	2.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.4





## CHARGERS



### **M18** DUAL BAY SUPER CHARGER

M18 DBSC

- up to 6x Faster Charging to 80% for Increased Productivity
- 15 Min Supercharge to 80% with M18 FB6 Battery
- Cool-Cycle Capable & Charge Adapt Distribution



System	M18
Charge Time (min)	
M18 B2	27
M18 B4	48
M18 B5	59
M18 HB3	35
M18 HB6	60
M18 FB6	25
M18 FB8	45
M18 FB12	45
Weight (kg)	2.5



### **M12 M18** RAPID CHARGE STATION

M12-18C3

- 6 Battery Charge Station
- Charge 3 Batteries Simultaneously
- Up to 40% Faster than Standard Charger
- M12 & M18 Compatibility



System	M12 / 18
Charge Time (min)	
M18 B2	26
M18 B5	59
M18 HB3	35
M18 FB8	87
M18 FB12	130
Weight (kg)	3.8



### **M18** 6-BAY PACKOUT FAST CHARGER

M18 PC6

- Rapid Charge 2 Batteries Simultaneously
- Fully Compatible with PACKOUT Modular Storage System
- Easier Transport and Storage



System	M18
Charge Time (min)	
M18 B2	26
M18 B4	47
M18 B5	59
M18 HB3	35
M18 FB6	62
M18 FB8	84
M18 FB12	123
Weight (kg)	4.1

### **M18** DUAL BAY FAST CHARGER

M18 DFC

- 2 Pack Simultaneous Charging
- Optimized Jobsite Utility
- Compatible With All M18 Batteries



System	M18
Charge Time (min)	
M18 B2	26
M18 B4	47
M18 B5	59
M18 HB3	35
M18 FB6	61
M18 FB8	83
M18 FB12	122
Weight (kg)	1.8

### **M12 M18** RAPID CHARGER

M12-18FC

- Charge up to 40% Faster than Standard Charger
- Rapid Charge Rate
- M12 & M18 Compatibility



System	M12 / M18
Charge Time (min)	
M18 B2	26
M18 B5	59
M18 HB3	35
M18 FB6	62
M18 FB8	83
M18 FB12	130
Weight (kg)	0.7

### **M12 M18** CHARGER

M12-18C

- Standard Charge Rate
- M12 & M18 Compatibility
- Sequential Charging First in, First to Charge



System	M12 / M18
Charge Time (min)	
M18 B2	40
M18 B5	100
M18 HB3	65
M18 FB6	115
M18 FB8	167
M18 FB12	250
Weight (kg)	0.7

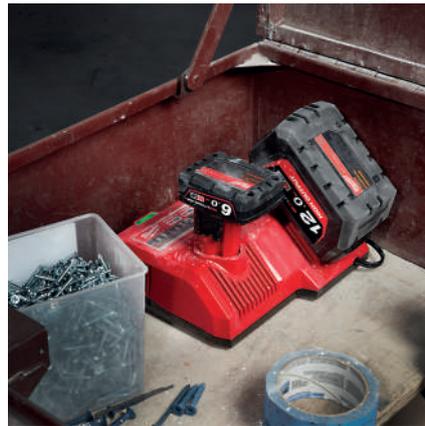
### **M12 M18** VEHICLE CHARGER

M12-18AC

- Recharge on-the-go
- M12 & M18 Compatibility
- Sequential Charging First In, First to Charge



System	M12 / M18
Charging Time	
M12 B3	90
M12 B6	165
M18 B2	70
M18 B5	140
M18 FB6	136
Weight (kg)	0.7



### **M18** POWER SUPPLY

M18 USB PS HJ2

- Charge on-the-go with M18
- Supplies Power to Devices
- Compatible with M12 Heated Jackets



System	M18
Length (mm)	83
USB Port	2.1 Amps
Weight w/ 2.0Ah Battery Pack (kg)	1.0

# M12

## BATTERIES

### M12 REDLITHIUM™ HIGH OUTPUT™ 5.0Ah BATTERY PACK

M12 HB5

- 25% More Power vs M12B4
- 25% Cooler than M12 Redlithium Batteries
- Redlink Intelligence



Voltage	12V
Capacity	5.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.4

### M12 REDLITHIUM™ HIGH OUTPUT™ 2.5Ah BATTERY PACK

M12 HB2.5

- 25% More Power vs M12B2
- 25% Cooler than M12 Redlithium Batteries
- Redlink Intelligence



Voltage	12V
Capacity	2.5Ah
Battery Type	Lithium-Ion
Weight (kg)	0.2

### M12 REDLITHIUM™ 6.0Ah BATTERY PACK

M12B6

- 2X More Runtime vs M12B3
- Redlink Intelligence
- Compatible with all M12 Tools



Voltage	12V
Capacity	5.0Ah
Battery Type	Lithium-Ion
Weight (kg)	0.7

### M12 REDLITHIUM™ 4.0Ah BATTERY PACK

M12B4

- 2X more runtime vs M12B2
- Individual cell monitoring ensures optimal charge and discharge for maximum life
- Compatible with all M12 Tools



Voltage	12V
Capacity	4.0 Ah
Battery Type	Lithium-Ion
Weight (kg)	0.4

### M12 REDLITHIUM™ 3.0Ah BATTERY PACK

M12B3

- Compact, Lightweight
- Redlink Intelligence
- Compatible with all M12 Tools



Voltage	12V
Capacity	3.0 Ah
Battery Type	Lithium-Ion
Weight (kg)	0.2

### M12 REDLITHIUM™ 2.0Ah BATTERY PACK

M12B2

- Compact, Lightweight
- Redlink Intelligence
- Compatible with all M12 Tools



Voltage	12V
Capacity	2.0 Ah
Battery Type	Lithium-Ion
Weight (kg)	0.2

## CHARGERS

### M12 CHARGER

C12C

- Compatible with M12 Batteries
- Standard Charge Rate
- Battery / Charger Communication for Battery Protection



System	M12
Charging Time	
M12 B2	40
M12 B3	100
M12 B4	65
M12 B6	167
Weight (kg)	0.5



### M12 TRAVEL CHARGER

M12 TC

- Compatible with M12 Heated Gear
- On / Off Button to Start or Stop Charging to Devices
- Bidirectional USB-C Port



System	M12
Charging Time	
M12 B2	174
M12 B4	347
M12 B6	525
Weight (kg)	0.2



# SUPER, RAPID & STANDARD CHARGING SOLUTIONS

CHARGE  
**FASTER**  
with **SUPERCHARGER**

**REDLITHIUM**  
**FORGE**



M18 FB12

**45 mins** **SUPER\***

**130 mins** **RAPID**

**231 mins** **STANDARD**

CHARGE TIME TO 100%

	SUPER		RAPID					STANDARD		
	M18 Dual Bay Super Charger	M12 and M18 Rapid Charger	M18 Dual Bay Fast Charger	M18 6-Bay PACKOUT Fast Charger	M12 and M18 Rapid Charge Station	M12 and M18 Charger	M12 and M18 Vehicle Charger	M12 Charger	M12 Travel Charger	
<b>FEATURES</b>	M18 DBSC	M12-18FC	M18 DFC	M18PC6	M12-18C3	M12-18C	M12-18AC	C12C	M12 TC	
M18 Ports	2	1	2	6	3	1	1	X	X	
M12 Ports	X	1	X	X	3	1	1	1	1	
USB Ports	X	X	X	1	X	X	X	X	1	
Charge Type	Simultaneous	Sequential	Simultaneous	2 Packs Simultaneous	3 Packs Simultaneous	Sequential	Sequential	Single	Single	
Power Source	AC	AC	AC	AC	AC	AC	DC	AC	AC or USB	
Carry Handle	X	X	X	✓	✓	X	X	X	X	
Wall Mountable	✓	✓	✓	✓	✓	✓	✓	✓	X	

Get up to <b>6X FASTER</b> Charging	M18 REDLITHIUM FORGE				REDLITHIUM™ HIGH OUTPUT™											
	M18 FB12	M18 FB8	M18 FB6	M18 HB12	M18 HB8	M18 HB6	M18 HB3	M18 B5	M18 B4	M18 B2	M12 HB5	M12 HB2.5	M12 B6	M12 B4	M12 B3	M12 B2
<b>DUAL BAY SUPER CHARGER</b> M18 DBSC	45 min	45 min	25 min	60 min	45 min	60 min	35 min	59 min	47 min	26 min	N/A	N/A	N/A	N/A	N/A	N/A
<b>RAPID CHARGER</b> M12-18FC	130 min	83 min	62 min	130 min	83 min	65 min	35 min	59 min	47 min	26 min	75 min	39 min	103 min	60 min	67 min	28 min
<b>STANDARD CHARGER</b> M12-18C	250 min	167 min	115 min	250 min	162 min	123 min	65 min	100 min	80 min	40 min	105 min	54 min	134 min	77 min	67 min	43 min

\*Estimated charge durations based on testing conducted by Milwaukee tool at room temperature. Actual results may vary.

# DRILLING

Percussion Drills, Drill Drivers



**M18**

**DRILL DRIVERS**

**M18 FUEL PERCUSSION DRILL**

M18 FPD3

- Most Powerful Percussion Drill, Fastest Speeds
- All New Chuck, Improved Bit Retention And Increased Durability
- Autostop Control Mode, Enhanced Safety



Voltage	18V
No Load Speed Gear 1 (rpm)	0-500
No Load Speed Gear 2 (rpm)	0-2100
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	16
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	89
Max. Percussion Rate (bpm)	33000
Max. Torque (Nm)	158
Weight w/ 5.0 Ah Battery Pack (kg)	2.5

**M18 FUEL DRILL DRIVER**

M18 FDD3

- Most Powerful Drill Driver, Fastest Speeds
- All New Chuck, Improved Bit Retention And Increased Durability
- Autostop Control Mode, Enhanced Safety



Voltage	18V
No Load Speed Gear 1 (rpm)	0-500
No Load Speed Gear 2 (rpm)	0-2100
Chuck Capacity (mm)	13
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	89
Max. Torque (Nm)	158
Weight w/ 5.0 Ah Battery Pack (kg)	2.5

**M18 COMPACT BRUSHLESS PERCUSSION DRILL**

M18 BLPDR

- More Compact, Shorter Length Vs M18 FPD3
- Faster Drilling
- Professional Durability



Voltage	18V
No Load Speed Gear 1 (rpm)	0-550
No Load Speed Gear 2 (rpm)	0-1700
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	10
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	52
Max. Percussion Rate (bpm)	25500
Max. Torque (Nm)	60.5
Weight w/ 5.0 Ah Battery Pack (kg)	1.5

**M18 COMPACT PERCUSSION DRILL**

M18 BPD

- Safety & End User Productivity
- Fully Featured Design
- Milwaukee Durability



Voltage	18V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1800
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	16
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	38
Max. Percussion Rate (bpm)	28800
Max. Torque (Nm)	60
Weight w/ 4.0Ah Battery Pack (kg)	2.1

**M18 COMPACT DRILL DRIVER**

M18 BDD

- Safety & End User Productivity
- Fully Featured Design
- Milwaukee Durability



Voltage	18V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1800
Chuck Capacity (mm)	13
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	38
Max. Torque (Nm)	60
Weight w/ 4.0Ah Battery Pack (kg)	2.0

**M18 COMPACT RIGHT ANGLE DRILL**

C18 RAD

- Optimized Performance, 1500 RPM At 20 Nm
- Perfect Speed To Power Ratio For Fast Application Completion
- Compact Head Designed For Tightest Work Areas



Voltage	18V
No Load Speed (rpm)	0-1500
Chuck Capacity (mm)	10
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	28
Max. Torque (Nm)	20
Weight w/ 4.0Ah Battery Pack (kg)	1.9



**M18 FUEL DRYWALL SCREW GUN**

M18 FSGC / FSG

- Standalone screwdriver or with collated scw gun (CA55)
- Enabled precise driving of screws at top speed
- Quick release 1/4" hex chuck



Voltage	18V
No Load Speed (rpm)	4500
Torque (Nm)	13
Tool Reception	1/4" HEX
Max. Screw size (mm)	6
Weight w/ 2.0Ah Battery Pack (kg)	1.6 (M18 FSG)
Weight w/ 2.0Ah Battery Pack (kg)	2.0 (M18 FSGC)

## M12

## DRILL DRIVERS

**M12 FUEL  
PERCUSSION DRILL**

M12 FPD2

- Most Powerful 12V Compact Percussion Drill
- 3mm All Metal Chuck For Maximum Durability, Grip And Bit Retention
- Faster Speed Under Load



Voltage	12V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1550
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	13
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	35
Max. Percussion Rate (bpm)	22500
Max. Torque (Nm)	45
Weight w/ 6.0Ah Battery Pack (kg)	1.4

**M12 FUEL  
DRILL DRIVER**

M12 FDD2

- Most Powerful 12V Compact Drill
- 13mm All Metal Chuck For Maximum Durability, Grip And Bit Retention
- Faster Speed Under Load



Voltage	12V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1550
Chuck Capacity (mm)	13
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	35
Max. Torque (Nm)	45
Weight w/ 6.0Ah Battery Pack (kg)	1.4

**M12 FUEL  
INSTALLATION DRILL DRIVER**

M12 FDDXKIT

- 4-In-1 Dedicated Solutions
- Unrivaled Access & Control
- Up To 34nm Max Torque



Voltage	12V
No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-1600
Chuck (mm)	10 (all metal ratcheting chuck)
Magnetic Bit Holder	Yes
Length (mm)	130
Max. Torque (Nm)	34
Weight w/ M12B2 battery (kg)	0.9

**M12 SUBCOMPACT  
BRUSHLESS DRILL DRIVER**

M12 BLDDRC

NEW

- Most Compact Drill Driver
- Lightest Tools In Class
- Performance For The Service Trades



Voltage	12V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1550
Chuck Capacity (mm)	10
Max Drilling Wood (mm)	51
Max Drilling Steel (mm)	10
Max Torque (Nm)	40
Weight w/ 2.0Ah Battery Pack (kg)	1.2

**M12  
COMPACT DRILL DRIVER**

M12 BDD

- Ergonomic Handle Design For Increased Comfort
- 10mm Metal Chuck For Quick Bit Changes And Bit Retention
- Works With All M12 Batteries



Voltage	12V
No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-1500
Chuck Capacity (mm)	10
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	22
Max. Torque (Nm)	38
Weight w/ 2.0Ah Battery Pack (kg)	1.2

**M12  
COMPACT PERCUSSION DRILL**

M12 BPD

- Ergonomic Handle Design For Increased Comfort
- 10mm Metal Chuck For Quick Bit Changes And Bit Retention
- Works With All M12 Batteries



Voltage	12V
No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-1500
Chuck Capacity (mm)	10
Max. Drilling Masonry (mm)	10
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	22
Max. Percussion Rate (bpm)	22500
Max. Torque (Nm)	38
Weight w/ 2.0Ah Battery Pack (kg)	1.2

**M12  
COMPACT RIGHT ANGLE DRILL**

C12 RAD

- Variable Speed Paddle Switch Trigger For Comfortable Work
- Perfect Speed To Power Ratio For Fast Application Completion
- Electronic Clutch: Delivers Up To 12nm Of Torque With 11 Settings



Voltage	12V
No Load Speed (rpm)	0-800
Chuck Capacity (mm)	10
Max. Drilling Steel (mm)	10
Max Drilling Wood (mm)	25
Max. Torque (Nm)	15
Weight w/ 2.0Ah Battery Pack (kg)	1.1

**M4 1/4" HEX SCREWDRIVER**

M4 D

- Compact 244mm Screwdriver
- Best In Class High Accuracy Electronic Clutch
- 2 Speed Gearbox For Screwdriving And Drilling



Voltage	4
No Load Speed Gear 1 (rpm)	0-200
No Load Speed Gear 2 (rpm)	0-600
Max Drilling Steel (mm)	3
Max Drilling Wood (mm)	6
Max. Torque (Nm)	5
Weight w/ 2.0Ah Battery Pack (kg)	0.5

# FASTENING

Impact Drivers, Wrenches, Ratchets & Rivet Tools



# M18

## IMPACT DRIVERS

### M18 FUEL 1/4" HEX IMPACT DRIVER

M18 FID3

- More Power vs M18 FID2
- Faster Driving Speed vs M18 FID2
- Ultimate Trigger Control



Voltage	18V
No Load Speed (rpm)	0-1700, 0-3000 0-3900, 0-3300
Impact Rate (ipm)	0-1400, 0-3600 0-4400
Max. Bolt Diameter	M16
Max. Torque (Nm)	226
Tool Reception	1/4" Double End Bit
Weight w/ 5.0Ah Battery Pack (kg)	1.75

### M18 FUEL SURGE 1/4" HEX HYDRAULIC DRIVER

M18 FQID

- 50% Quieter Than Standard Impact Driver
- Shorter And Lighter Than Standard Impact Driver



Voltage	18V
No Load Speed (rpm)	0-900, 0-2100 0-3000, 0-3000
Impact Rate (ipm)	0-1800, 0-2900 0-4000, 0-4000
Max. Bolt Diameter	M14
Max. Torque (Nm)	50
Tool Reception	1/4" Double End Bit
Weight w/ 5.0Ah Battery Pack (kg)	1.7

### M18 BRUSHED RIGHT ANGLE IMPACT DRIVER

M18 BRAID

- Compact Right Angle Impact Driver Ideal For Working In Confined Spaces
- 2 Speed Settings For Wider Range Of Applications
- Full Metal Gearbox For Superior Durability And Maximum Torque



Voltage	18V
No Load Speed Gear 1 (rpm)	0-1500
No Load Speed Gear 2 (rpm)	0-2250
Impact Rate Gear 1 (ipm)	0-2400
Impact Rate Gear 2 (ipm)	0-3400
Max. Bolt Diameter	M18
Max. Torque (Nm)	81
Tool Reception	1/4" Hex
Weight w/ 5.0Ah Battery Pack (kg)	1.8

### M18 1/4" HEX COMPACT BRUSHLESS IMPACT DRIVER

M18 BLIDR

- Measures Only 112mm In Length Making It Ideal For Confined Spaces
- 3-Mode Drive Control Allows Maximum Application Versatility
- One-Handed Bit Insert With Retention Lock For Easier Bit Swaps



Voltage	18V
No Load Speed (rpm)	0 - 1250, 0 - 2400, 0 - 3600
Impact Rate (ipm)	0 - 2500, 0 - 4700, 0 - 4900
Max. Bolt Diameter	M16
Max. Torque (Nm)	192
Tool Reception	1/4" Double End Bit
Weight w/ 5.0Ah Battery Pack (kg)	1.5



### M18 1/4" HEX COMPACT IMPACT DRIVER

M18 BID

- Compact Impact Driver, Ideal For Working In Confined Spaces
- Soft Contour Grip For Prolonged Use
- Redlink Overload Protection



Voltage	18V
No Load Speed Gear 1 (rpm)	0-2000
No Load Speed Gear 2 (rpm)	0-2750
Impact Rate Gear 1 (ipm)	0-2450
Impact Rate Gear 2 (ipm)	0-3450
Max. Bolt Diameter	M14
Max. Torque (Nm)	180
Tool Reception	1/4" Double End Bit
Weight w/ 4.0Ah Battery Pack (kg)	1.7



**IMPACT WRENCHES**

**M18 FUEL 3/8" COMPACT IMPACT WRENCH**

M18 FIW2F38

- Up to 339Nm Nut-Busting Torque
- More Access in Tight Spaces



Voltage	18V
No Load Speed (rpm)	0-900, 0-1650, 0-2400, 0-1200
Impact Rate (ipm)	0-1000, 0-2400, 0-3500, N/A
Max. Bolt Diameter	M18
Anvil Type (Friction Ring + Through Hole)	3/8" Square
Max. Torque (Nm)	339
Weight w/ 5.0Ah Battery Pack (kg)	1.8



**M18 FUEL 1/2" COMPACT IMPACT WRENCH**

M18 FIW212

- Up to 339Nm Nut-Busting Torque
- 1.8 kg w/5.0Ah Battery



Voltage	18V
No Load Speed (rpm)	0-900, 0-1650, 0-2400, 0-1200
Impact Rate (ipm)	0-1000, 0-2400, 0-3500, N/A
Max. Bolt Diameter	M18
Anvil Type (Friction Ring + Through Hole)	1/2" Square
Max. Torque (Nm)	339
Weight w/ 5.0Ah Battery Pack (kg)	1.8

**M18 FUEL 1/2" MID TORQUE IMPACT WRENCH**

M18 FMTIW2F12

- Up to 881Nm Nut-Busting Torque
- Speed to remove M22 bolt in 1.8 Seconds



Voltage	18V
No Load Speed (rpm)	0-1250, 0-1950, 0-2575, 0-1325
Impact Rate	0-900, 0-2100, 0-3100, N/A
Max. Bolt Diameter	M22
Anvil Type (Friction Ring)	1/2" Square
Max. Nut Busting Torque (Nm)	881
Weight w/ 5.0Ah Battery Pack (kg)	2.3

**M18 FUEL 1/2" HIGH TORQUE IMPACT WRENCH W/ FRICTION RING**

M18 FHIW2F12

- Up to 2,169 Nm Nut-Busting Torque
- Patented Battery Isolation System



Voltage	18V
No Load Speed (rpm)	0-700, 0-1300, 0-2000, 0-2000
Impact Rate (ipm)	0-1300, 0-2200, 0-2400, 0-2400
Max. Bolt Diameter	M36
Max. Nut Busting Torque (Nm)	2169
Max. Torque (Nm)	1627
Tool Reception	1/2" Square
Weight w/ 6.0Ah Battery Pack (kg)	3.63kg

**M18 FUEL 3/4" HIGH TORQUE IMPACT WRENCH**

M18 ONEFHIWF34

- Up to 2,032 Nm Nut-Busting Torque
- Friction Ring w/ Thru Hole Design



Voltage	18V
No Load Speed (rpm)	0-800, 0-1300, 0-1800, 0-1800
Impact Rate (ipm)	0-850, 0-1850, 0-2400, 0-2400
Max. Bolt Diameter	M33
Max. Nut Busting Torque (Nm)	2032
Max. Torque (Nm)	1627
Anvil Type (Friction Ring)	3/4" Square
Weight w/ 5.0Ah Battery Pack (kg)	3.5

**M18 FUEL 1" HIGH TORQUE IMPACT WRENCH**

M18 ONEFHIWF1

- Up to 2,440Nm Nut-Busting Torque
- Lighter weight VS Corded



Voltage	18V
No Load Speed (rpm)	0-950, 0-1080, 0-1370, 0-1670
Impact Rate (ipm)	0-1350, 0-1650, 0-2100, 0-2500
Max. Bolt Diameter	M42
Max. Nut Busting Torque (Nm)	2440
Max. Torque (Nm)	2033
Anvil Type (Friction Ring & Through Hole)	1" Square
Weight w/ 8.0Ah Battery Pack (kg)	5.9

**M18 FUEL 1" D-HANDLE EXTENDED ANVIL HIGH TORQUE IMPACT WRENCH**

M18 ONEFHIWF1D

- Up to 2,711Nm Nut-Busting Torque
- Remove & Install up to 120 Lug nuts



Voltage	18V
No Load Speed (rpm)	0-600, 0-700, 0-900, 0-1200
Impact Rate (ipm)	0-750, 0-930, 0-1200, 0-1440
Max. Bolt Diameter	M48
Max. Nut Busting Torque (Nm)	2711
Max. Torque (Nm)	2576
Anvil Type (Friction Ring)	1" Square
Weight w/ 12.0Ah Battery Pack (kg)	12.34



**M18 FUEL 1" D-HANDLE HIGH TORQUE IMPACT WRENCH**  
M18 ONEFHIWF1DS

- Up to 2,711 Nm of nut-busting Torque
- Up to 200 Bolts per Charge



Voltage	18V
No Load Speed (rpm)	0-600, 0-700, 0-900, 0-1200
Impact Rate (ipm)	0-750, 0-930, 0-1200, 0-1440
Max. Bolt Diameter	M48
Max. Nut Busting Torque (Nm)	2711
Max. Torque (Nm)	2576
Anvil Type (Friction Ring)	1" Square
Weight w/ 12.0Ah Battery Pack (kg)	11.34

**M18 1/2" COMPACT IMPACT WRENCH**  
M18 BIW12

- Up to 248Nm Nut-Busting Torque
- Compact Design



Voltage	18V
No Load Speed (rpm)	0-2450
Impact Rate (ipm)	0-3350
Max. Bolt Diameter	M16
Max. Torque (Nm)	240
Anvil Type (Multi-Fit)	1/2" Square
Weight w/ 4.0Ah Battery Pack (kg)	1.9

**M18 FUEL 1" RAILWAY IMPACT WRENCH**  
M18 FHIWF1R

- Up to 2,000 Nm Nut-busting Torque
- Ergonomic design for Track Bolts



Voltage	18V
No Load Speed (rpm)	0-1000, 0-1400, 0-1670, 0-1670
Impact Rate (ipm)	0-1750, 0-2150, 0-2500, 0-2500
Max. Bolt Diameter	M 30
Max. Nut Busting Torque (Nm)	2000
Max. Torque (Nm)	2000
Tool Reception	1" Square
Weight w/ 12.0Ah Battery Pack (kg)	7.8

**M18 1/2" HEAVY DUTY IMPACT WRENCH WITH PIN DETENT / FRICTION RING**  
HD18 HIW / HD18 HIWF

- Up to 610Nm of Nut-Busting Torque



Voltage	18V
No Load Speed (rpm)	0-1900
Impact Rate (ipm)	0-2200
Max. Bolt Diameter	M20
Max. Torque (Nm)	610
Anvil Type (Pin Detent / Friction Ring)	1/2" Square
Weight w/ 4.0Ah Battery Pack (kg)	3.0



**M18 COMPACT RIGHT ANGLE IMPACT WRENCH**  
M18 BRAIW

- Up to 76Nm of Nut-Busting Torque
- Compact 53 mm head design



Voltage	18V
No Load Speed Gear 1 (rpm)	0-1500
No Load Speed Gear 2 (rpm)	0-2250
Impact Rate Gear 1 (ipm)	0-2400
Impact Rate Gear 2 (ipm)	0-3400
Max. Bolt Diameter	M18
Max. Torque (Nm)	76
Anvil Type (Friction Ring)	3/8" Square
Weight w/ 4.0Ah Battery Pack (kg)	1.9

**RIVET TOOLS**

**M18 FUEL RIVET TOOL**  
M18 FRT



Voltage	18V
Max. Pulling Force (N)	20000
Rivet Diameter Range (mm)	4.8-7.0
Rivet Diameter (mm)	4.8, 6.0, 6.4, 7.0
Stroke Length (mm)	30
Weight w/ 2.0Ah Battery Pack (kg)	2.5





## MORE POWER DENSE

- Up to 2,169Nm of Nut-busting Torque & 1,627Nm of Fastening Torque W/ Forge 6.0 Ah
- Best Combination of Power and Size

**M18 FUEL**

**1/2" HIGH TORQUE  
IMPACT WRENCH**



## UP TO 51MM SHORTER LENGTH

- More Compact. Greater Access in Tight Spaces
- 193 mm in Overall Length



## FASTER REMOVAL SPEED

- Maximized Productivity on the Jobsite & in the Shop
- Best-in-class Application Speeds W/ Forge 6.0 Ah
- Tackle More Demanding Applications Without Sacrificing Time and Effort

## UNRIVALED ACCESS

- Lowest Profile With Socket
- Easily Accessible F/R Shuttle
- Longest Reach In Tight Spaces

**M12 FUEL**

## INSIDER PASS-THROUGH RATCHET

## UP TO 81NM MAX TORQUE

- Best Combination of Power & Speed
- Break Free Stubborn Fasteners

## ULTIMATE VERSATILITY

- Compatible With 1/4", 3/8", and 1/2" Drive Sockets, Plus 1/4" Hex Bits
- Pass-through Capable 8mm to 15mm
- Metric and Sae Sets Available

**M12**

**IMPACT DRIVERS**

**M12 FUEL 1/4" HEX IMPACT DRIVER**

M12 FID2

- Best Access In Tight Spaces
- Maximum Workspace Visibility With Tri-Led Light
- 4 Mode Drive Control Maximizes Application Versatility



Voltage	12V
No Load Speed (rpm)	0-1700, 0-2900 0-3600, 0-3600
Impact Rate (ipm)	0-4000
Max. Bolt Diameter	M14
Max. Torque (Nm)	170
Tool Reception	1/4" Double End Bit
Weight w/ 6.0Ah Battery Pack (kg)	1.15

**M12 SUBCOMPACT BRUSHLESS IMPACT DRIVER**

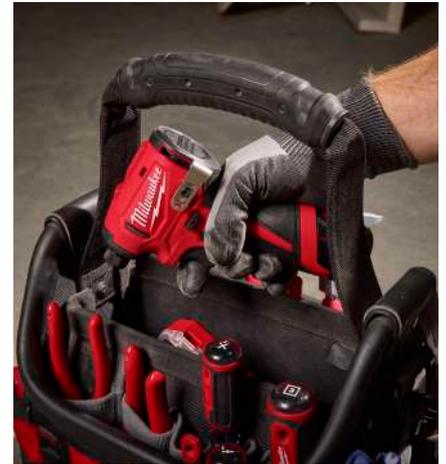
M12 BLIDRC

**NEW**

- Most Compact Impact Driver
- Lightest tool in class
- Performance For The Service Trades



Voltage	12V
No Load Speed Gear 1 (rpm)	0-3000
Impact Rate (IPM)	0-4100
Max Torque (Nm)	124
Tool Reception	1/4" Double End Bit
Max Bolt Diameter	M14
Weight w/ 2.0Ah Battery Pack (kg)	0.8



**M12 1/4" HEX COMPACT IMPACT DRIVER**

M12 BID

- Compact & Ergonomic Design
- Provides 112 Nm For Optimal Power
- Redlink Intelligence Protects Tool And Maximises Productivity



Voltage	12V
No Load Speed (rpm)	0-2500
Impact Rate (ipm)	0-3300
Tool Reception	1/4" Hex Double End Bit
Max. Torque (Nm)	112
Weight w/ 2.0Ah Battery Pack (kg)	1.0

**M12 1/4" HEX RIGHT ANGLE IMPACT DRIVER**

M12 BRAID

- Compact Head Design With Diameter Of 35.6mm
- Multiple Hand Position Design For Maximum Comfort
- 1/4" Hex Chuck For Quick Easy One Handed Bit Change



Voltage	12V
No Load Speed (rpm)	0-2425
Impact Rate (ipm)	0-3300
Tool Reception	1/4" Hex Single End Bit
Max. Torque (Nm)	68
Weight w/ 4.0Ah Battery Pack (kg)	1.1

**M12 FUEL SURGE 1/4" HEX HYDRAULIC DRIVER**

M12 FQID

- Quietest 12V Impact Driver
- Fluid-Drive Hydraulic Powertrain Provides Smoother Performance And Quieter Operation
- Powerstate Brushless Motor Delivers Up To 3200 RPM



Voltage	12V
No Load Speed (rpm)	0-1100, 0-2200 0-3200, 0-3200
Impact Rate (ipm)	0-950, 0-2200 0-3400, 0-3400
Length (mm)	140
LED Light	Yes
Fuel Gauge	Yes
Max. Torque (Nm)	50
Weight w/ 6.0Ah Battery Pack (kg)	1.3

**IMPACT WRENCHES**

**M12 FUEL 3/8" STUBBY IMPACT WRENCH WITH FRICTION RING**

M12 FIW2F38

**NEW**

- Up To 745 Nm Of Nut Busting Torque
- Lighter Weight & More Compact
- 50% Faster Speed Of Removal



Voltage	12V
RPM	1 - 930/ 1,300/ 2,100/ 3,000
IPM	1 - 1,500/ 3,000/ 3,300
Nut-busting torque (Nm)	745
Fastening Torque (Nm)	542
Torque (Nm)	217/ 406/ 542/ 20
Max. bolt diameter (mm)	M16
Anvil	3/8"
Length (mm)	122
Weight w/ 5.0Ah Battery Pack (kg)	1.3



**M12 FUEL 1/2" STUBBY IMPACT WRENCH WITH FRICTION RING**

M12 FIW2F12

**NEW**

- Up To 745 Nm Of Nut Busting Torque
- Lighter Weight & More Compact
- 50% Faster Speed Of Removal



Voltage	12V
RPM	0 - 930/ 1,300/ 2,100/ 3,000
IPM	0 - 1,500/ 3,000/ 3,300
Nut-busting torque (Nm)	745
Fastening Torque (Nm)	542
Torque (Nm)	217/ 406/ 542/ 20
Max. bolt diameter (mm)	M16
Anvil	1/2"
Length (mm)	124
Weight w/ 5.0Ah Battery Pack (kg)	1.3

**M12 FUEL 3/8" RIGHT ANGLE IMPACT WRENCH**  
M12 FRAIWF38

- Up to 300Nm Nut-Busting Torque
- 71mm head profile design for more access



Voltage	12V
No Load Speed (rpm)	0-1550, 0-2300, 0-3000
Impact Rate (ipm)	0-1350, 0-2700, 0-3600
Max Bolt Diameter	M16
Anvil Type (Friction Ring)	3/8" Square
Max Torque (Nm)	300
Weight w/ 3.0Ah Battery Pack (kg)	1.5

**M12 FUEL 1/2" RIGHT ANGLE IMPACT WRENCH**  
M12 FRAIWF12

- Up to 300Nm Nut-Busting Torque
- 71mm head profile design for more access



Voltage	12V
No Load Speed (rpm)	0-1550, 0-2300, 0-3000
Impact Rate (ipm)	0-1350, 0-2700, 0-3600
Max Bolt Diameter	M16
Anvil Type (Friction Ring)	1/2" Square
Max Torque (Nm)	300
Weight w/ 3.0Ah Battery Pack (kg)	1.5

**M12 FUEL 3/8" DIGITAL TORQUE WRENCH**  
M12 ONEFTR38

- ±2% For Torque Critical Fasteners
- 13.6 - 135.6 Nm Of Torque Range



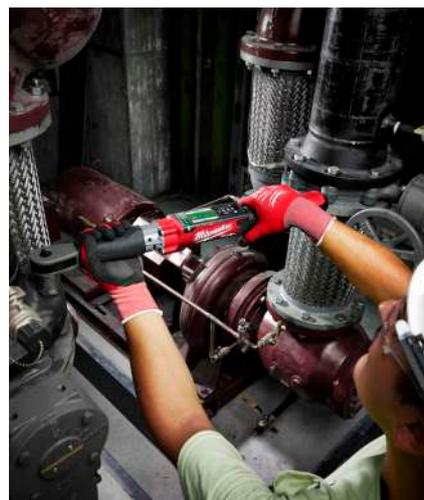
Voltage	12V
No Load Speed (rpm)	0-100
Anvil Type	3/8" Square
Accuracy	+/- 2% CW
Calibration	1 Year or 5000 Cycles
Length (mm)	587
Torque Range (Nm)	13.6 - 135.6
Weight w/ 6.0Ah Battery Pack (kg)	2.5

**M12 FUEL 1/2" DIGITAL TORQUE WRENCH**  
M12 ONEFTR12

- ±2% For Torque Critical Fasteners
- 17 - 203Nm of Torque Range



Voltage	12V
No Load Speed (rpm)	0-100
Anvil Type	1/2" Square
Accuracy	+/- 2% CW
Calibration	1 Year or 5000 Cycles
Length (mm)	587
Torque Range (Nm)	17-203
Weight w/ 6.0Ah Battery Pack (kg)	2.5



**M12 1/2" SQUARE COMPACT IMPACT WRENCH**  
M12 BIW12

- Up to 138Nm of Nut-Busting Torque



Voltage	12V
No Load Speed (rpm)	0-2500
Impact Rate (ipm)	0-3300
Max. Bolt Diameter	M12
Anvil Type (Pin Detent)	1/2" Square
Max. Torque (Nm)	138
Weight w/ 2.0 Ah Battery Pack (kg)	1.1

**RATCHETS**

**M12 FUEL 1/4" EXTENDED REACH HIGH SPEED RATCHET**  
M12 FHIR14LR

- Longer reach in tight spaces
- 450 RPM



Voltage	12V
No Load Speed (rpm)	0-450
Anvil Type	1/4" Square
Length (mm)	346
Max. Torque (Nm)	47
Weight w/ 2.0 Ah Battery Pack (kg)	1.06

**M12 FUEL 1/4" HIGH SPEED RATCHET**  
M12 FHIR14

- Compact head size for more access
- 450 RPM



Voltage	12V
No Load Speed (rpm)	0-450
Anvil Type	1/4" Square
Length (mm)	272
Max. Torque (Nm)	47
Weight w/ 2.0Ah Battery Pack (kg)	1

**M12 FUEL 1/2" RATCHET**  
M12 FIR12

- 81Nm max torque



Voltage	12V
No Load Speed (rpm)	0-175
Anvil Type	1/2" Square
Length (mm)	318
Max. Torque (Nm)	81
Weight w/ 2.0Ah Battery Pack (kg)	1.54



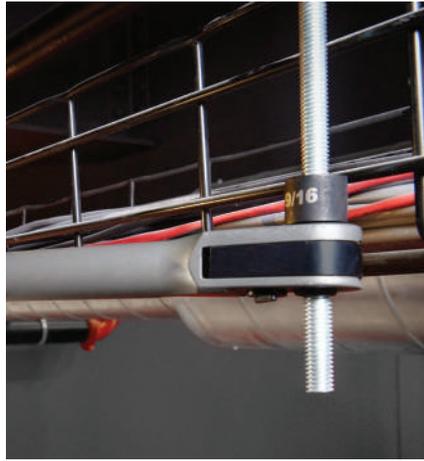


**M12 FUEL INSIDER  
PASS-THOUGH RATCHET**  
M12 FPTR

- Pass through up to 15mm
- Anvil less head design for more access



Voltage	12V
No Load Speed (rpm)	0-350
Tool Reception	1/2", 3/8", 1/4" Square, 1/4" Hex Bits
Length (mm)	404
Max. Torque (Nm)	81
Weight w/ 2.5 Ah Battery Pack (kg)	1.22



**M12 FUEL 3/8" EXTENDED  
REACH HIGH SPEED RATCHET**  
M12 FHIR38LR



Voltage	12V
No Load Speed (rpm)	0-450
Anvil Type	3/8" Square
Length (mm)	364
Max. Torque (Nm)	47
Weight w/ 2.0 Ah Battery Pack (kg)	1.1



**M12 FUEL 3/8" EXTENDED REACH RATCHET**  
M12 FIR38LR

- Longer reach in tight spaces
- 75Nm max torque



Voltage	12V
No Load Speed (rpm)	0-200
Anvil Type	3/8" Square
Length (mm)	384
Max. Torque (Nm)	75
Weight w/ 2.0Ah Battery Pack (kg)	1.4

**M12 FUEL 3/8" HIGH SPEED RATCHET**  
M12 FHIR38

- Compact head size for more access
- 450 RPM



Voltage	12V
No Load Speed (rpm)	0-450
Anvil Type	3/8" Square
Length (mm)	262
Max. Torque (Nm)	47
Weight w/ 2.0Ah Battery Pack (kg)	1

**M12 3/8" SUB COMPACT RATCHET**  
M12 IR

- Compact head size for more access



Voltage	12V
No Load Speed (rpm)	0-250
Anvil Type	3/8" Square
Length (mm)	254
Max. Torque (Nm)	47
Weight w/ 2.0Ah Battery Pack (kg)	0.9



**SCREW DRIVERS**

**M12 1/4" HEX COMPACT DRIVER**  
M12 BD

- Lightweight And Sub Compact
- Optimized Handle Fro Better Control And Improved Grip
- Redlink Intelligence Overload Protection



Voltage	12V
No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-1500
Tool Reception	1/4" Hex
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	20
Max. Torque (Nm)	38
Weight w/ 2.0Ah Battery Pack (kg)	1.0

**M12 1/4" HEX COMPACT 2 SPEED DRIVER**  
M12 CD

- 1/4" Hex Chuck For Quick Easy One Handed Bit Change
- On Board Fuel Gauge And Led Light
- Individual Battery Cell Monitoring Optimizes Run Time



Voltage	12V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1700
Max. Drilling Steel (mm)	6.35
Max. Drilling Wood (mm)	25
Max. Torque (Nm)	44
Weight w/ 2.0Ah Battery Pack (kg)	1.2



**RIVET TOOLS**

**M12 RIVET TOOL**  
M12 BPRT



Voltage	12V
Max. Pulling Force (N)	9000
Rivet Diameter Range (mm)	2.4-4.8
Rivet Diameter (mm)	2.4, 3.2, 4.0, 4.8
Stroke Length (mm)	20.32
Weight w/ 2.0Ah Battery Pack (kg)	2.1



# TRANSPORTATION

Polishers, Heat Guns, Grease Guns, Inflators, Caulk Guns, Sanders and Die Grinders



**M18**

**POLISHERS**

**M18 FUEL 15MM  
RANDOM ORBITAL POLISHER**

M18 FROP15

- Power To Correct Heavy Defects
- Eliminates Cords
- 125mm Pad Capacity



Voltage	18V
No Load Speed (rpm)	2650-5100
Backing Pad Diameter (mm)	125
Orbit (mm)	15
Dimensions (mm) (L x W x H)	420 x 117 x 132
Variable Speed	Yes
Weight w/ 8.0Ah Battery Pack (kg)	3.65

**M18 FUEL 21MM  
RANDOM ORBITAL POLISHER**

M18 FROP21

- Power to Correct Heavy Defects
- All-Day Comfort, More Control
- 150mm pad capacity



Voltage	18V
No Load Speed (rpm)	1400-4500
Backing Pad Diameter (mm)	150
Orbit (mm)	21
Dimensions (mm) (L x W x H)	437 x 150 x 138
Variable Speed	Yes
Weight w/ 8.0Ah Battery Pack (kg)	3.77

**M18 FUEL  
POLISHER**

M18 FAP180

- Cordless Detailing
- Total Control
- Full Size Car On 1 Charge



Voltage	18V
No Load Speed (rpm)	360-2200
Max. Backing Pad Diameter (mm)	125
Max. Polishing Pad Diameter (mm)	180
Spindle Size	M14
Variable Speed	Yes
Weight w/ 5.0Ah Battery Pack (kg)	3.1

**OTHER TRANSPORTATION SOLUTIONS**

**M18  
INFLATOR**

M18 BI

- Top Off 33" Light Truck Tires in Under 1 Minute
- Duty Cycle: 33% @ 80 PSI
- Top off up to 30 tires on an M18 5.0 battery



Voltage	18V
No Load Air Delivery (L/min)	40
Max. Pressure (bar/ PSI)	10.3 / 150
Hose Length (cm)	92
Gauge Accuracy	+ / -1 PSI
Duty Cycle	33% @80 PSI (20min On / 40 min Off)
Dimensions (mm) (L x W x H)	350 x 160 x 190
Weight w/ 2.0Ah Battery Pack (Kg)	3.25

**M18  
GREASE GUN**

M18 GG

- Industry leading 690 bar max operating pressure
- Industry leading max flow-rate of up to 74g / minute
- New to world precision through Pre-set grease counter dial



Voltage	18V
Max. Operating Pressure	690
Length (mm)	406
LED Light	Yes
FUEL Gauge	Yes
Weight w/ 4.0Ah Battery Pack (Kg)	3.3

**M18  
HEAT GUN**

M18 BHG

- High performance heat coil reaching 470 °C
- Reaches operational temperature in 7 seconds
- REDLINK overload protection electronics in tool and battery pack deliver best in class system durability



Voltage	18V
Temperature (°C)	470
Air Flow (l/min)	170
Length (mm)	163
Weight w/ 5.0Ah Battery Pack (Kg)	1.6

**M12**

**DIE GRINDERS**

**M12 FUEL  
STRAIGHT DIE GRINDER**

M12 FDGS

- More Power Than Pneumatic
- 3-Mode Speed Control
- More Access



Voltage	12V
No Load Speed (rpm)	0-10,000, 0-15,000 0-21,000
Collet Size (mm)	6.0 / 8.0
Length (mm)	283
Weight w/ 3.0Ah Battery Pack (kg)	0.8

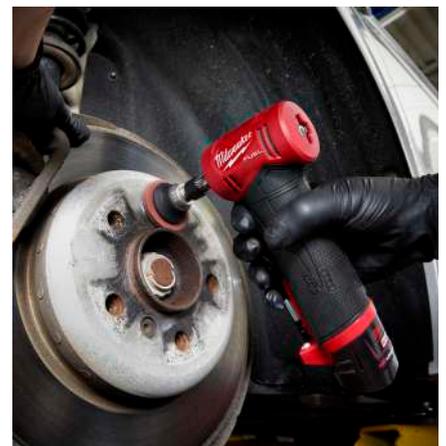
**M12 FUEL  
RIGHT ANGLE DIE GRINDER**

M12 FDGA

- More Power Than Pneumatic
- 4-Mode Speed Control
- More Access



Voltage	12V
No Load Speed (rpm)	0-10,000, 0-15,000 0-20,000, 0-24,500
Collet Size(s)	6.0 / 8.0
Length (mm)	119
Weight w/ 3.0Ah Battery Pack (kg)	0.8



## ORBITAL SANDERS

### M12 FUEL 2.5MM RANDOM ORBITAL SANDER

M12 FROS25

NEW

- Confidence to Sand Clear Coat
- Ultimate Control
- Up To 5 Doors Per HB2.5 Pack



Voltage	12V
Sander style	Palm style
Free speed (RPM)	12,000
Length (mm)	210
Height (mm)	115
Orbit diameter (mm)	2.5
Backing plate size (mm)	150
Sprindle size (mm)	5.3 - 7.9
Attachment method	Hook & Loop (Velcro)
Weight w/ 2.0Ah Battery Pack (Kg)	1.1

### M12 FUEL 5MM RANDOM ORBITAL SANDER

M12 FROS50

NEW

- Confident Body Filler Removal
- Ultimate Control
- Up To 3 Doors Per HB2.5 Pack



Voltage	12V
Sander style	Palm style
Free speed (RPM)	12,000
Length (mm)	210
Height (mm)	115
Orbit diameter (mm)	5
Backing plate size (mm)	150
Sprindle size (mm)	5.3 - 7.9
Attachment method	Hook & Loop (Velcro)
Weight w/ 2.0Ah Battery Pack (Kg)	1.1



## OTHER TRANSPORTATION SOLUTIONS

### M12 FUEL BANDFILE

M12 FBFL10

- Faster spot weld removal rate
- Forward & Reverse
- Variable Speed Trigger



Voltage	12V
Belt Speed (High) (m/min)	0-1,110
Belt Speed (Low) (m/min)	0-552
Belt Width (mm)	10
Belt Length (mm)	330
Weight w/ 4.0Ah Battery Pack (Kg)	1

### M12 GREASE GUN

M12 GG

- Powerful 12-volt motor, delivering more than 562 bar of max operating pressure
- REDLITHIUM-ION Battery Technology, superior pack construction, electronics and performance
- Best-in-class Runtime, dispensing up to 7 cartridges per charge



Voltage	12V
Max. Operating Pressure (Bar/psi)	562 / 8000
Flow System	Plunger Type with Air Bleeder Valve
Loading System	1.Cartridge (400ml) 2.Bulk (473ml) 3.Suction
Hose Type	High Pressure w/ Spring Guard and Grease Coupler
Hose Dimensions (mm)	914 X 14.4 (dia.)
Weight w/ 4.0Ah Battery Pack (Kg)	3.2

### M12 SUB COMPACT INFLATOR

M12 BI

- Top-off a car tire in under 1 minute (28 - 35 PSI)
- Inflates car, LT truck, and compact equipment tires
- REDLINK Intelligence, TrueFill Auto Shut-off technology increases accuracy, protects from over-temp and over-fill



Voltage	12V
No Load Air Delivery (l/min)	24.9
Max. Pressure (Bar/psi)	8.27 / 120
Hose Length (mm)	660
Gauge Accuracy (%)	+ / - 3%
Duty Cycle	50% at 10min On and 10 min Off
Dimensions (mm)	190.5 x 165.1
Weight w/ 2.0Ah Battery Pack (Kg)	1.8

### M12 COMPACT CAULK GUN W/ 310ML CARTRIDGE HOLDER

M12 PCG/310C

- Constant flow technology - Consistent beads resulting in cleaner, faster installations
- Top speed dial & variable speed trigger - Complete dispensing rate control
- Compact & lightweight



Voltage	12V
Max. Pushing Force (N)	1780
Speed Settings	6
Standard Equipment (ml)	310
Weight w/ 2.0Ah Battery Pack (Kg)	1.9

### M12 COMPACT CAULK GUN

M12 PCG

- Constant flow technology - Consistent beads resulting in cleaner, faster installations
- Top speed dial & variable speed trigger - Complete dispensing rate control
- Compact & lightweight



Voltage	12V
Max. Pushing Force (N)	1780
Speed Settings	6
Accessory	310ml Conversion Kit (48-08-0900) 400ml Conversion Kit (PCG12ACCY01) 600ml Conversion Kit (48-08-0905)

### M12 COMPACT POLISHER

M12 BPS

- 3" Backing pad for most precise detail work
- Variable speed trigger
- 5 PC Accessory pack



Voltage	12V
No Load Speed Gear 1 (rpm)	0-2800
No Load Speed Gear 2 (rpm)	0-8300
Disc Diameter (mm)	76
Spindle Size	M9 x 0.75
Weight w/4.0Ah Battery Pack (Kg)	1.2





M18

CIRCULAR SAWS

**M18 FUEL 190 MM GUIDERAIL CIRCULAR SAW**

M18 FCS66GR3

- Generates 15A Corded Power
- Faster Than 15A Corded Circ Saw



Voltage	18V
No Load Speed (rpm)	0-6000
Blade Diameter (mm)	190
Arbor Size (mm)	25.4/20
Max Cutting Depth 90°	68
Max Cutting Depth 45°	53
Max. Bavel Capacity (°)	50
Weight w/ FB12(kg)	5.08



**M18 FUEL 165MM CIRCULAR SAW**

M18 FCS552

- Maintain High Speed Under Load
- Ergonomic Design
- User-driven design



Voltage	18V
No Load Speed (rpm)	0-6000
Blade Diameter (mm)	165
Arbor Size (mm)	20
Max Cutting Depth 90°	57
Max Cutting Depth 45°	44
Max. Bavel Capacity (°)	50
Weight w/ 6.0Ah Battery Pack (kg)	3.9

**M18 FUEL 165MM CIRCULAR SAW**

M18 CCS55



Voltage	18V
No Load Speed (rpm)	0-5000
Blade Diameter (mm)	165
Bore Size (mm)	15.87
Max. Cutting Depth 90° (mm)	55
Max. Cutting Depth 45° (mm)	41
Weight w/ 5.0Ah Battery Pack (kg)	2.5

**M18 FUEL 190MM REAR HANDLE CIRCULAR SAW**

M18 FCSRH66



Voltage	18V
No Load Speed (rpm)	0-5800
Blade Diameter (mm)	190
Bore Size (mm)	30
Max. Cutting Depth 90° (mm)	66
Max. Cutting Depth 45° (mm)	48
Max. Bevel Capacity (°)	53
Weight w/ 12.0Ah Battery Pack (kg)	6.2



## TRACK SAWS

### M18 FUEL TRACK SAW M18 FPS55

- Power To Cut Solid Hardwood
- Portable Precision, Finish Quality Cuts
- 90% dust collection efficiency



Voltage	18V
No Load Speed (rpm)	2,500 - 5,600
Blade Diameter (mm)	165
Bore Size (mm)	20
Max Cutting Depth w/ Guiderail (0° / 45°) (mm)	54 / 44
Max. Cutting Depth (mm) w/o Guiderail (0° / 45°)	59 / 44
Weight w/ 8.0Ah Battery Pack (kg)	5.2

### ACCESSORIES

MODEL #	DESCRIPTION	IMAGE
GR800	800MM GUIDE RAIL	
GR1400	1400MM GUIDE RAIL	
GR2700	2700MM GUIDE RAIL	
PSA-1	RAIL CLAMPS	
PSA-2	GUIDERAIL CONNECTOR	
PSA-3	SPLINTER STRIP	
PSA-4	GUIDERAIL BAG	
PSA-5	LOW FRICTION STRIP	



## MITRE SAWS

### M18 FUEL 190MM MITRE SAW M18 FMS190

- Generates Corded Power
- Delivers Quick, Repeatable And Accurate Cuts
- Top And Side Carrying Handles For Maximum Portability



Voltage	18V
No Load Speed (rpm)	0-5000
Blade Diameter (mm)	190
Bore Size (mm)	19
Mitre Capacity Left/Right (°)	48/48
Bevel Capacity Left/Right (°)	48/48
Weight w/ 5.0Ah Battery Pack (kg)	12.7

### M18 FUEL 254MM MITRE SAW M18 FMS254

- Generates Corded Power
- Delivers quick, repeatable and accurate cuts
- Top and Side Carrying handles for maximum portability



Voltage	18V
No Load Speed (rpm)	0-4000
Blade Diameter (mm)	254
Bore Size (mm)	25.4
Mitre Capacity Left/Right (°)	50/60
Bevel Capacity Left/Right (°)	48/48
Weight w/ 5.0Ah Battery Pack (kg)	20

### M18 FUEL 305MM MITRE SAW M18 FMS305

- Generates 15A Corded Power
- Delivers Quick, Repeatable And Accurate Cuts
- Top And Side Carrying Handles For Maximum Portability



Voltage	18V
No Load Speed (rpm)	0-3600
Blade Diameter (mm)	305
Bore Size (mm)	25.4
Mitre Capacity Left/Right (°)	50/60
Bevel Capacity Left/Right (°)	48/48
Weight w/ 12.0Ah Battery Pack (kg)	23.0

## TABLE SAWS

### M18 FUEL 210MM TABLE SAW M18 FTS210

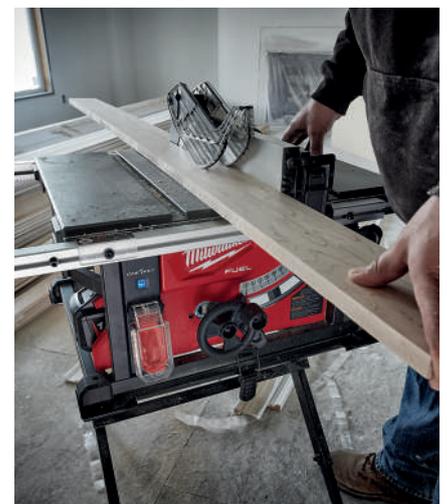
- Generates 15A Corded Power
- Capacity to rip full-sized sheet goods



Voltage	18V
Saw Blade Diameter (mm)	210
Bore Size (mm)	25.4
Max. Cutting Depth (mm) 0°/45°	63.5 / 44
Max. Bevel Angle (°)	47
Distance Between Rip Fence and Saw Blade	
Left (mm)	310
Right (mm)	525 / 622
Weight w/ 12.0Ah Battery Pack (kg)	18.9

### ACCESSORY FOR M18 FTS210

MODEL #	DESCRIPTION
TSS 1000	Table Saw Stand



**NAILERS**

**M18 FUEL 18GA FINISH NAILER**  
M18 FN18GS

- Zero Ramp-Up Time
- Consistent, Clean, Pin Nail Holes
- Fire 3 Nails Per Second



Voltage	18V
Collation angle (°)	0
Fastener Type	F Type
Fastener Diameter (18Ga)	1.02mm
Fastener Length (mm)	15-54
Magazine Capacity	110 Nails
Mode	Sequential / Bump
Weight w/ 2.0Ah Battery Pack (kg)	2.9

**M18 FUEL 16GA STRAIGHT FINISH NAILER**  
M18 FN16GS

- Zero Ramp-Up Time
- Consistent, Clean, Pin Nail Holes
- Fire 3 Nails Per Second



Voltage	18V
Collation angle (°)	0
Fastener Type	F Type
Fastener Diameter (16Ga)	1.6mm
Magazine Capacity	43 Nails
Mode	Sequential / Bump
Weight w/ 2.0Ah Battery Pack (kg)	3.2

**M18 FUEL 21 DEGREE FRAMING NAILER**  
M18 FFN21

- Power To Nail Engineered Lumber
- Fire 3 Nails Per Second
- No Gas Cartridge



Voltage	18V
Collation angle (°)	21
Fastener type	Full Round Head Nail
Fastener Diameter (mm)	2.9 - 3.8
Fastener Length min/max (mm)	50/90
Magazine Capacity (nails)	43
Mode	Sequential / Bump
LED Light	Yes
Weight w/ 5.0Ah Battery Pack (kg)	5.3

**ACCESSORY FOR M18 FFN21**

**Extended Capacity Magazine**

48-08-2744



**ROUTERS**

**M18 FUEL TRIM ROUTER**  
M18 FTR

- Generates 1.25 Peak HP
- Compact Design
- Cuts Up To 76m



Voltage	18V
No Load Speed (rpm)	10000-31000
Max. Bit Diameter (mm)	38
Collet Diameter (mm)	6 or 1/4" (6.35)
Bit Brake	Yes
LED	Yes
Dust Shroud	Yes
Weight w/ 5.0Ah Battery Pack (kg)	2.1

**M18 FUEL 1/2" MID-SIZE ROUTER**  
M18 FR12

- Generates 2.25 Peak HP
- Cuts Up To 70m Per Charge



Voltage	18V
No Load Speed (RPM)	12000
Max. Bit Diameter (mm)	63
Collet Diameter (mm)	6, 6.35, 8, 12, 12.7
Plunge Capacity (mm)	60
Speed Settings	Yes
Dust Shroud	Yes
Weight without Battery (kg)	2.8

**ACCESSORIES FOR M18 FR12**

RBA-1  
001998885



RBA-2  
001998888



**SANDERS**

**M18 FUEL 125MM  
RANDOM ORBITAL SANDER**  
M18 FROS125

- Improved Ergonomic & Grip design
- Low vibration with levels down to 6.63 ms<sup>2</sup>
- Up to 95% Dust Collection



Voltage	18V
No Load Speed (OPM)	6000-12000
Oscillation Diameter (mm)	2.4
Sanding Pad Size (mm)	125
Weight w/ 5.0Ah Battery Pack (kg)	1.45

**M18 FUEL  
BELT SANDER**  
M18 FBTS75

- Generates 8a Corded Power
- Less Bog Down Under Load For More Aggressive Material Removal
- Over 80% Dust Collection



Voltage	18V
No Load Belt Speed (m/min)	210 - 410
Belt Size (mm)	75 x 457
Variable Speed Settings	5
Dust Bag	Yes
Weight w/ 8.0Ah Battery Pack (kg)	3.4

**M18 1/4  
SHEET SANDER**  
M18 BQSS

- Low Vibration At Only 5.23 M/S<sup>2</sup>, Enhanced Comfort And User Control
- Easy Sanding Paper Change
- 95% Dust Collection



Voltage	18V
No Load Speed (OPM)	11000 - 13000
Orbit Travel Diameter (mm)	1.6
Grinding Plate Size (mm)	113 x 104
Weight w/ 5.0Ah Battery Pack (kg)	1.8

**SAWZALLS**

**M18 FUEL  
SAWZALL**  
M18 FSZ

- Fast Cutting For Increased Productivity
- Longer Component Life, Increased Durability
- Adjustable Shoe For Optimised Use Of Saw Blades



Voltage	18V
No Load Stroke Rate (rpm)	0-3000
Stroke Length (mm)	32
Adjustable Shoe	Yes
LED Light	Yes
Hang Hook	Yes
Weight w/ 5.0Ah Battery Pack (kg)	3.8

**M18 FUEL  
SUPER SAWZALL**  
M18 FSX

- Generates 15a Corded Power
- Fast Cutting For Increased Productivity
- Longer Component Life, Increased Durability



Voltage	18V
No Load Stroke Rate (spm)	0-3000
Stroke Length (mm)	32
On/Off Orbital	Yes
5-Speed Dial	Yes
Adjustable Shoe	Yes
Hang Hook	Yes
Weight w/ 12.0Ah Battery Pack (kg)	5.5



**JIGSAWS**

**M18 FUEL  
JIGSAW**  
M18 FJS

- Higher Blade Speed Than Corded
- Power To Cut Hard Material



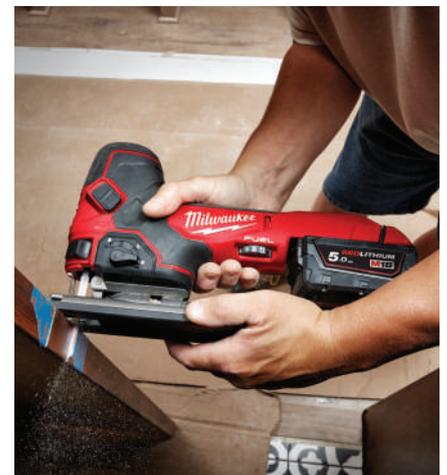
Voltage	18V
No Load Stroke Rate (spm)	0-3500
Stroke Length (mm)	25
Bevel Cut Angle (°)	45
Max. Cutting Depth (mm)	
Wood	100
Steel	10
Weight w/ 5.0Ah Battery Pack (kg)	2.9

**M18 FUEL  
BODY GRIP JIGSAW**  
M18 FBJS

- Higher Blade Speed Than Corded
- Power To Cut Hard Material



Voltage	18V
No Load Stroke Rate (spm)	800-3500
Stroke Length (mm)	25
Bevel Cut Angle (°)	45
Max. Cutting Depth (mm)	
Wood	100
Aluminum	19
Steel	10
Weight w/ 5.0Ah Battery Pack (kg)	2.8



**OTHER CARPENTRY SOLUTIONS**

**M18 FUEL MULTI TOOL**  
M18 FMT

- Lower Full Tool Vibration
- Tool-Free Blade Change



Voltage	18V
No Load Speed (OPM)	10000-20000
Oscillation Angle Left / Right (°)	2.1 / 2.1
Tool Free Blade Change	Yes
LED Light	Yes
Weight w/ 5.0Ah Battery Pack (kg)	1.9



**M18 FUEL HACKZALL**  
M18 FHZ

- Optimized For One-Handed Use
- Pivoting Shoe To Optimise Cutting Position



Voltage	18V
No Load Stroke Rate (spm)	10000-31000
Stroke Length (mm)	22
Weight w/ 5.0Ah Battery Pack (kg)	2.6

**M18 FUEL 7.6L COMPACT AIR COMPRESSOR**  
M18 FAC

- Quieter Than Corded
- Easy Transport
- Up 1,600 Nails Per Charge



Voltage	18V
Air Tank Capacity (L)	7.6
Max. Air Pressure	9.31 bar / 135 psi
Approx. Cut in Pressure	7.2 bar / 105 psi
Approx. Cut out Pressure	9.3 bar / 135 psi
Free Air Delivery	48 L/min at 2.8 bar
Quick Connect type	1/4" Nitto
Sound Level (dBA)	68
Pump Type	Oil Free
Regulator	Single Turn
Weight w/ 8.0Ah Battery Pack (kg)	14.7

**M18 CUT OUT TOOL**  
M18 BCT

- Adjustable Guard And Selectable Blade Rotatio
- Tool-Free Depth Adjustment



Voltage	18V
No Load Speed (rpm)	0-28000
Spiral Cutting bits	1/8" (3.1 mm) and 1/4" (6.3 mm) shanks
Adjustable Shoe	Yes
LED Light	Yes
Weight w/ 5.0Ah Battery Pack (kg)	1.5

**M18 PLANER**  
M18 BP

- Quick And Precise Material Removal On Soft Or Hard Woods
- Depth Setting To Make Precise And Accurate Cuts



Voltage	18V
No Load Speed (rpm)	0-14000
Planing Width (mm)	82
Adjustable Depth (mm)	0-2
Rabbet Depth (mm)	10.7
Weight w/ 4.0 Battery Pack (kg)	3.5

**ACCESSORY FOR M18 BP**

<b>Compact Router Plunge Base</b>	
48105601	
<b>Compact Router Offset Base</b>	
48105602	

**M12**

**NAILERS**

**M12 FUEL COMPACT 18GA FINISH NAILER**  
M12 FCN18GS

- Compact Size For Increased Access Tight Spaces
- Lightweight And Ergonomic To Reduce Fatigue
- Power To Nail Hardwoods



Voltage	12V
Collation Angle (°)	0
Fastener Type	F Type
Fastener Diameter (mm)	1.2
Fastener Length (mm)	15-38
Magazine Capacity	110
Weight w/ 2.0Ah Battery Pack (kg)	1.9



**M12 FUEL 23GA PIN NAILER**  
M12 PN23GS

- Full Pneumatic Replacement
- Consistent, Clean, Pin Nail Holes
- Power To Nail Hardwoods



Voltage	12V
Collation Angle (°)	0
Fastener Type	Headless Pin Nail
Fastener Diameter (mm)	0.58
Fastener Length (mm)	13-35
Magazine Capacity	118-136
Weight without Battery (kg)	1.72



**CIRCULAR SAWS**

**M12 FUEL  
140MM CIRC SAW**  
M12 FCS442



- Power To Cut Dimensional Lumber
- Compact & Lightweight Design, Extremely Portable

Voltage	12V
No Load Speed (rpm)	3850
Blade Diameter	140
Bore Size	20
Max. Cutting Depth @90°	46
Max. Cutting Depth @45°	32
Weight without battery (kg)	2.03

**ACCESSORY FOR M12 FCS442**

**Framing Circular Saw Blade**  
4932471310A



**M12 FUEL  
COMPACT CIRCULAR SAW**  
M12 CCS44



Voltage	12V
No Load Speed (rpm)	0-3600
Blade Diameter (mm)	140
Bore Size (mm)	20
Max. Cutting Depth 90° (mm)	44
Max. Cutting Depth 45° (mm)	33
Weight w/ 4.0Ah Battery Pack (kg)	2.7



## ROTARY TOOLS

### M12 BRUSHLESS ROTARY TOOL M12 BLROT

- Ergonomic Grip Provides Greater Comfort And Control
- Integrated Collet Wrench - Faster Accessory Change



Voltage	12V
Collet Capacity (mm)	0.8, 1.6, 2.4, 3.2
No Load Speed (rpm)	5000-27500
Weight w/ 2.0Ah Battery Pack (kg)	0.56

### M12 COMPACT ROTARY TOOL C12 RT



Voltage	12V
No Load Speed (rpm)	5000-32000
Collet Capacity (mm)	0.8, 1.6, 2.4, 3.2
Weight w/ 2.0Ah Battery Pack (kg)	0.8



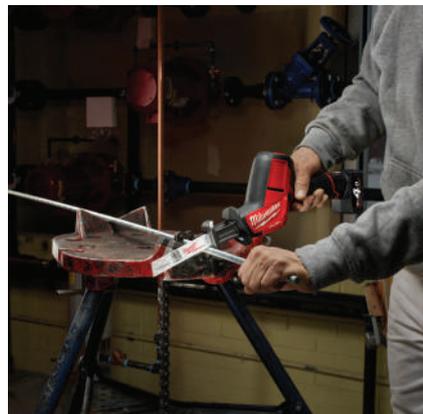
## OTHER CARPENTRY SOLUTIONS

### M12 FUEL COMPACT HACKZALL M12 GHZ

- Compact Design
- Optimized For One-Handed Use



Voltage	12V
No Load Stroke Rate (SPM)	0-3000
Stroke Length (mm)	15.9
Weight w/ 4.0Ah Battery Pack (kg)	1.6



### M12 FUEL MULTI TOOL M12 FMT

- Compact Design
- Too-Free Blade Change
- Provides Lowest Vibration Throughout The Tool



Voltage	12V
No Load Stroke Rate (OPM)	10000-20000
Oscillation Angle Left / Right (°)	1.95 / 1.95
Tool Free Blade Change	Yes
LED Light	Yes
Weight w/ 4.0Ah Battery Pack (kg)	1.54

### M12 FUEL JIGSAW M12 FJS

- Ergonomic Barrel-Grip Design
- Orbital Action With 5 Adjustment Levels
- More Control In More Orientations



Voltage	12V
No Load Stroke Rate (SPM)	600-3000
Stroke Length (mm)	22
Bevel Capacity Left/Right (°)	45
Max. Cutting Depth Wood (mm)	70
Max. Cutting Depth Aluminium (mm)	15
Weight w/ 2.5Ah Battery Pack (kg)	1.54

### M12 FUEL CUT OFF TOOL M12 FCOT

- Fast Accurate Cutting
- Optimized For One-Handed Use
- Multi-Material Cutting Capability



Voltage	12V
No Load Speed (rpm)	0-20000
Max. Disc Diameter (mm)	76
Max. Cutting Depth (mm)	16.3
Arbor Size (mm)	10
Weight w/ 6.0Ah Battery Pack (kg)	1.3

### M12 BRUSHLESS PLANER M12 BLP

- Power To Plane And Scribe In Soft And Hardwoods
- Compact And Light Weight, Comfortable To Use
- Depth Setting To Make Precise And Accurate Cuts



Voltage	12V
No Load Speed (rpm)	14,500
Blade Width (mm)	56
Planing Depth (mm)	0-2
Weight w/ 4.0Ah Battery Pack (kg)	2.0

#### ACCESSORY FOR M12 BLP

56mm Planer Blade  
48-38-2005



### M12 FUEL DELTA SPOT SANDER M12 FDSS

- Faster Than Traditional Hand Sanding Solutions
- Stain Grade Finish
- More Access In Corners & Contours



Voltage	12V
No Load Speed (rpm)	8,000 - 14,000
Sanding Pad Dimensions (mm)	88.8 x 63.5
Variable Speed Settings	4
Orbit Travel Diameter (mm)	1.5
Sandpaper Type	POWERGRID Hook and Loop
Weight w/ 2.0Ah Battery Pack (kg)	0.76

#### ACCESSORIES FOR M12 FDSS

**POWERGRID MESH SANDING ACCESSORIES**



**KEY FEATURES**

**POWERGRID** Reinforced Mesh Construction Delivers Maximum Durability

Up to **12X LIFE** VS. Standard Sandpaper  
Open Weave Design is Reusable and Easily Cleaned

**Shake, Vacuum, Blow or Rinse Away** Debris to Extend the Life



Model #	Description
48-80-5080	POWERGRID MESH SANDING SHEET GRIT 80 (12PK + 1Pad Saver)
48-80-5120	POWERGRID MESH SANDING SHEET GRIT 120 (12PK + 1Pad Saver)
48-80-5150	POWERGRID MESH SANDING SHEET GRIT 150 (12PK + 1Pad Saver)
48-80-5180	POWERGRID MESH SANDING SHEET GRIT 180 (12PK + 1Pad Saver)
48-80-5220	POWERGRID MESH SANDING SHEET GRIT 220 (12PK + 1Pad Saver)
48-80-5320	POWERGRID MESH SANDING SHEET GRIT 320 (12PK + 1Pad Saver)
48-80-5400	POWERGRID MESH SANDING SHEET GRIT 400 (12PK + 1Pad Saver)
48-80-5402	SPONGE INTERFACE PAD
48-80-5405	POWERGRID MESH SANDING ASSORTED KIT (GRIT 80 x 4PK, GRIT 120 x 4PK, GRIT 180 x 4PK, 1Pad Saver)

# CARPENTRY DUST MANAGEMENT SOLUTION GUIDE

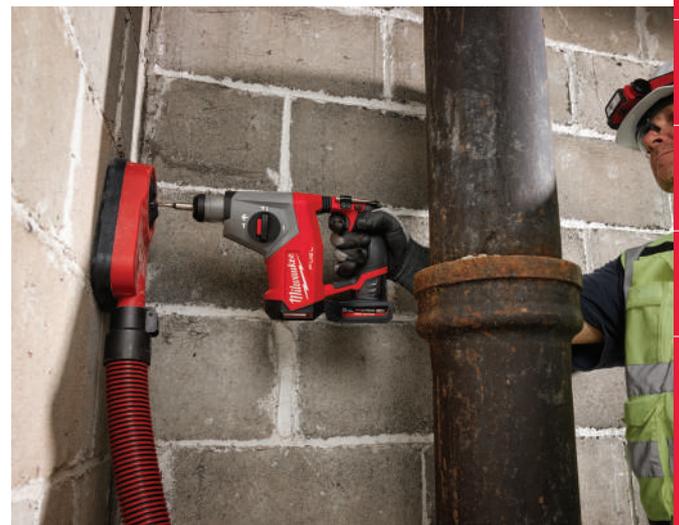
		Dust Canister Included	Dust Bag Included	M18 FBPV	M12 FVCL	M18 VC-2	M18 FP0VCL	M18 FVC23L	DUST EXT
									DEK26 32mm Vaccum Hose
				3.8L 1,557L/min Dry Clean-up Solution	6.1L 1,275L/min Wet/Dry Clean-up Solution	7.5L 1,246L/min Wet/Dry Clean-up Solution	9.5L 1,416L/min Wet/Dry Clean-up Solution	23L 2,463L/min Wet/Dry Clean-up Solution	
Cut Out tool	M18 BCT								
	M12 CHZ								
Recip Saws	M18 FHZ								
	M18 FSZ								
	M18 FSX								
	M18 FMT (Sanding)								DEK26
Multi Tools (Sanding)	M18 FMT (Sanding)								DEK26
	M12 FDSS								
Sanders	M18 BQSS								DEK26
	M18 B0S125								DEK26
	M18 FBTS75								DEK26
Planers	M12 BLP								DEK26
	M18 BP								
Jigsaws	M12 JS								
	M12 FJS								DEK26
	M18 FJS								DEK26
	M18 FBJS								DEK26
Cut Off Tool	M12 FC0T							DEK26	
Routers	M18 FTR								DEK26
	M18 FR12								DEK26
Circular Saws	M12 CCS44								DEK26
	M18 CCS55								DEK26
	M18 FCS66								DEK26
	M18 FPS55								DEK26
Benchtop	M18 FMS190								DEK26
	M18 FMS254								DEK26
	M18 FMS305								DEK26
	M18 FTS210								DEK26

Occasional Use Optimal Use



# CONCRETE

Concrete Drills, Plate Compactors, Breakers, Rotary Hammers, Concrete Vibrators, Dust Extraction



**MX FUEL**

**RAMMER**

**MX FUEL 70KG RAMMER**  
MXF R70

**NEW**

- Hits Harder, Travels Faster
- No Gas Headaches, Greater Control
- 25min, 500 Meters Per Charge



Rated Power Output (kW)	4.0
Number of strokes (min)	680
Max Travel Speed (m/min)	20
Impact Force (kN)	16.9
Oil Volume (L)	0.8
Shoe Jump Height (mm)	122
Weight with MXF 12.0 Battery (kg)	78



**CUT-OFF SAW**

**MX FUEL 350MM CUT-OFF SAW**  
MXF COS350G2

- 350mm Gas Performance, No Gas Headaches
- Push Button Activation
- Load Light Indicator



No Load Speed (rpm)	5370
Disc Diameter (mm)	350
Max. Cutting Depth (mm)	124
Arbor Size (mm)	20/25.4/27
Weight w/ XC608 Battery Pack (kg)	13.3

**MX FUEL 350MM CUT-OFF SAW CART**  
MXF COSCG2

- Height-Adjustable Drive Handle
- Tool-Free Machine And Compatible With The M18 Switch Tank
- Full Mobility With On-Board Spare Battery Storage



Water Tank Capacity (L)	15
Maximum Loading Weight (kg)	85



**ACCESSORIES FOR MX FUEL 350MM CUT-OFF SAW**

Type	Disc Diameter (mm)	Thickness (mm)	Bore Size (mm)	Part No.	Image
Premium Diamond Blade for Concrete	350	2.7	25.4	4932471985	
Diamond Blade for Concrete	350	3.3	25.4	4932471986	
Diamond Blade for Soft Concrete	350	3.3	25.4	4932471987	
SteelHead	350	3	25.4	4932471988	

## CORE DRILLS

### MX FUEL 350MM CORE DRILL WITH STAND

MXF DCD350DD  
MXF DCD350DR

- Height-Adjustable Drive Handle
- Can Be Used With Vacuum Pump On Smooth And Even Surfaces



Bit Capacity (mm)	356
Spindle Size	1-1/4"-7 UNC
No Load Speed (rpm)	389/847/1,652/2,233
Adaptor Size (mm)	A-Rod (32.0 mm)
Weight w/ HD812 Battery Pack (kg)	26.4

### MX FUEL 152MM HANDHELD CORE DRILL

MXF DCD150

- AUTOSTOP™ & Patented Clutch
- Pressure Gauge & LED Level
- Onboard Water Connection



Bit Capacity	152mm / 6"
Spindle Size	1-1/4"-7 UNC & 1/2" G
Speed (rpm)	
Low	800
High	1600
Adaptor Size (mm)	A-Rod (32.0 mm)
Weight w/ CP203 Battery Pack (kg)	10.3

### MX FUEL CORE DRILL STAND

MXF DR255TV

- Faster Setup, Most Versatile Coring
- Drill Angle Indication On Base Plate, Can Be Variably Tilted From 0° To 45°



Length (mm)	467
Width (mm)	276
Height (mm)	892
Weight (kg)	13.2

## HEX BREAKER

### MX FUEL 28MM HEX BREAKER

MXF DH2528H

- Front Handle - For Easier Transportation
- AC-Equivalent Tool Life
- Floating Body Anti-Vibration Technologies



Chuck Size	28mm HEX
Impact Energy (J)	64
Full Load Hammer Action (bpm)	1300
Vibration (m/s²)	5.17
Weight w/ XC406 Battery Pack (kg)	29.6

### MX FUEL BREAKER TROLLEY

MXF DHT

- Lightweight Demolition Hammer Cart With Large Rubber Wheels For Easy Transport Across Uneven Terrain



Length (mm)	492
Width (mm)	550
Height (mm)	1078
Weight (kg)	15.7



## PLATE COMPACTOR

### MX FUEL PLATE COMPACTOR

MXF PC50

- No Gas Headaches, Greater Control
- Instant Power with Push Button Start
- 35 min of Runtime, 465m² per Charge with MXF HD812



Centrifugal Force (kN)	16
Max Travel Speed (m/min)	26
Gradeability	25°
Plate Dimensions (mm)	574 x 500
Weight w/ HD812 Battery Pack (kg)	79

## ACCESSORIES

Model #	Description	Image
49-49-2010	MX Fuel Plate Compactor Water Tank	
49-49-2020	MX Fuel Plate Compactor Paver Pad	
49-49-2030	MX Fuel Plate Compactor Wheel Kit	



**M18**

**ROTARY HAMMERS**

**M18 FUEL 8 KG SDS-MAX DRILLING AND BREAKING HAMMER**

M18 FHM

- Service Light Indicator
- Large Anti-Vibration Back Handle
- Trigger Lock On Prevents Users From Having To Hold Trigger During Long Periods Of Chipping Applications



Voltage	18V
Impact Energy (J)	11
Max. Hammer Rate (bpm)	0-2900
No Load Speed (rpm)	0-380
Max. Drilling Concrete (mm)	45
Max. Drilling Core Bit (mm)	150
Max. Drilling Tunnel Bit (mm)	65
Vibration Drilling (m/s <sup>2</sup> )	9.4
Vibration Chiseling (m/s <sup>2</sup> )	9.4
Weight w/ 12.0Ah Battery Pack (kg)	10.2

**M18 FUEL 16MM COMPACT SDS PLUS ROTARY HAMMER**

M18 FHAC16

**NEW**

- 3-Mode Operation
- AVS for Reduced Fatigue & Maximized Comfort
- AUTOSTOP™ Kickback Control



Voltage	18V
Impact Energy (J)	1.7
Rate of Percussion under load (min)	5080
No Load Speed (RPM)	1400
Chuck Neck Diameter (mm)	38
Drilling Capacity - Steel (mm)	13
Max Drilling Concrete (mm)	16
Max Drilling wood (mm)	25
Weight w/ 3.0 Ah Battery Pack (kg)	2.6

**M18 26MM BRUSHLESS SDS-PLUS D-HANDLE ROTARY HAMMER**

M18 BLHACD26

- D-Handle With Lightweight And Ergonomic Design
- 4-Mode Operation
- Individual Battery Cell Monitoring



Voltage	18V
Impact Energy (J)	2.6
Max. Hammer Rate (bpm)	4600
No Load Speed (rpm)	1270
Max. Drilling Concrete (mm)	26
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	28
Vibration Drilling (m/s <sup>2</sup> )	17.39
Vibration Chiseling (m/s <sup>2</sup> )	13.15
Weight w/ 5.0Ah Battery Pack (kg)	3.1

**M18 FUEL 32MM SDS-PLUS ROTARY HAMMER (3 MODE)**

M18 FHP / M18 FHPX

- AUTOSTOP™ Kick-Back Control
- POWERSTATE™ Brushless Motor
- REDLINK PLUS™ Intelligence
- Hits Harder And Increases Productivity



Voltage	18V
Impact Energy (J)	5
Max. Hammer Rate (bpm)	0-4600
No Load Speed (rpm)	0-800
Max. Drilling Concrete (mm)	32
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	30
Weight w/ 5.0Ah Battery Pack (kg)	4.7/4.9 (FIXTEC)

**M18 FUEL OVERHEAD 16MM SDS-PLUS ROTARY HAMMER AND INTEGRATED DUST EXTRACTOR**

M18 FHAF0H16

- AUTOSTOP™ Kickback Control
- Balanced Center of Gravity
- HEPA Filter



Voltage	18V
Impact Energy (J)	2.3
Max. Hammer Rate (bpm)	4740
No Load Speed (rpm)	1310
Max. Drilling Concrete (mm)	16
Max. Drilling Bit Length (mm)	165
Max. Drilling Depth (mm)	100
Weight w/ 3.0Ah Battery Pack (kg)	3.2

**M18 26MM BRUSHLESS SDS-PLUS HAMMER**

M18 BLH

- Brushless Motor Design Provides 2.3J Impact Force
- Exquisite, Ergonomic Design Can Increase User Comfort
- All-Metal Gearbox - For Longer Tool Life



Voltage	18V
No Load Speed (RPM)	1400
Percussion Rate (min)	4900
Impact Energy (J)	2.3
Max Drilling Concrete (mm)	26
Max Drilling Steel (mm)	13
Max Drilling wood (mm)	28
Weight w/ 5.0 Battery pack (kg)	3.3

**M18 FUEL 26MM SDS-PLUS ROTARY HAMMER (4-MODE)**

M18 FH / M18 FHX

- Drills Up to 125 Ø10 x 50mm Holes on a M18™ HIGH OUTPUT™ 5.5 Ah Battery Charge
- 4-Mode Operation: Rotary Hammer, Hammer Only, Rotation Only and Selectable Work Position of the Chisel (Variolock) for Maximum Versatility



Voltage	18V
Impact Energy (J)	2.7
Max. Hammer Rate (bpm)	0-4800
No Load Speed (rpm)	0-1330
Max. Drilling Concrete (mm)	26
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	28
Vibration Drilling (m/s <sup>2</sup> )	12.87
Vibration Chiseling (m/s <sup>2</sup> )	13.41
Weight w/ 5.0Ah Battery pack (kg)	4.1/4.3 (FIXTEC)

**M18 FUEL 32MM SDS-PLUS D-HANDLE ROTARY HAMMER**

M18 FHAC0D32

- 3 Modes Of Operation – Rotary Hammer, Hammer Only And Rotary Only
- AUTOSTOP™ Kickback Control
- AVS Anti-Vibration System



Voltage	18V
Impact Energy (J)	4.9
Max. Hammer Rate (bpm)	4600
No Load Speed (rpm)	800
Max. Drilling Concrete (mm)	32
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	30
Vibration Drilling (m/s <sup>2</sup> )	10.5
Vibration Chiseling (m/s <sup>2</sup> )	9.4
Weight w/ 5.0Ah Battery Pack (kg)	5.3

**M18 COMPACT SDS-PLUS ROTARY HAMMER (2-MODE)**

M18 BH

- High Performance 4-Pole Motor
- 2-Mode Operation: Rotary Hammer Or Rotation Only
- Forward & Reverse Switch



Voltage	18V
Impact Energy (J)	1.2
Max. Hammer Rate (bpm)	0-7000
No Load Speed (rpm)	0-1300
Max. Drilling Concrete (mm)	16
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	16
Vibration Drilling (m/s <sup>2</sup> )	10.3
Weight w/ 4.0Ah Battery Pack (kg)	2.5

**DUST EXTRACTORS**

**M18 FUEL HAMMERCAC 32MM DUST EXTRACTOR**  
M18 FDDEL32

- AUTOPULSE™ Filter Cleaning Mechanism
- Dust Extractor Capacity: 32mm in Diameter, 203mm in Depth
- Includes Large and Small Dust Nozzles



Voltage	18V
Max. Drill Bit Diameter (mm)	32
Max. Drill Bit Length (mm)	260
Max. Drilling Depth (mm)	203
Stroke Length (mm)	203
Weight (kg)	1.9

**M18 FUEL HAMMERCAC 26MM COMPACT DEDICATED DUST EXTRACTOR**  
M18 FCDDEXL

- Designed To Collect Dust Efficiently
- HEPA Filter Collects 99.97% Of Airborne Particles Down To 0.3 Microns



Voltage	18V
Max. Drill Bit Diameter (mm)	16 / 26
Max. Drill Bit Length (mm)	160
Max. Drilling Depth (mm)	96
Stroke Length (mm)	96
Weight (kg)	1.3

**M18 FUEL HAMMERCAC 26MM DEDICATED DUST EXTRACTOR**  
M18 FDDEXL

- HEPA Filter Keeps Users Below the 25 ug/m3 Action Level
- AUTOPULSE™ Filter Cleaning Mechanism



Voltage	18V
Max. Drill Bit Diameter (mm)	26
Max. Drill Bit Length (mm)	210
Max. Drilling Depth (mm)	152
Stroke Length (mm)	152
Weight (kg)	1.9

**M18 FUEL HAMMERCAC 32MM DEDICATED DUST EXTRACTOR**  
M18 FPDDEXL

- Engineered To Connect Directly To And Be Powered By The M18 FHP & M18 FHPX
- AUTOPULSE™ Filter Cleaning Mechanism



Voltage	18V
Max. Drill Bit Diameter (mm)	32
Max. Drill Bit Length (mm)	260
Max. Drilling Depth (mm)	203
Stroke Length (mm)	203
Weight (kg)	2.0

**M18 FUEL HAMMER VAC 16MM COMPACT DEDICATED DUST EXTRACTOR**  
M18 FDDEC

- Engineered To Connect Directly To And Be Powered by M18 FHAC16
- AUTOPULSE™ Filter Cleaning Mechanism



**NEW**

Voltage	18V
Max. Drill Bit Diameter (mm)	16
Max. Drill Bit Length (mm)	170
Max. Drilling Depth (mm)	76mm
Stroke Length (mm)	76mm
Weight (kg)	0.9



**CONCRETE VIBRATORS**

**M18 FUEL 1.2 M NEEDLE CONCRETE VIBRATOR**  
M18 FCVN12

- No Setup Solution
- The POWERSTATE™ Brushless Motor Generates 1.8 Peak HP and 12,500 CPM for Optimal Consolidation with a Variable Speed Trigger



Voltage	18V
Vibrations Per Minute (VPM)	0-12500
Vibrator Diameter (mm)	25
Flexible Shaft Length (m)	1.2
Weight w/ 5.0Ah Battery Pack (kg)	4.7

**M18 FUEL 2.4 M NEEDLE CONCRETE VIBRATOR**  
M18 FCVN24

- No Setup Solution
- The POWERSTATE™ Brushless Motor Generates 1.8 Peak HP and 12,500 CPM for Optimal Consolidation with a Variable Speed Trigger



Voltage	18V
Vibrations Per Minute (VPM)	0-12500
Vibrator Diameter (mm)	25
Flexible Shaft Length (m)	2.4
Weight w/ 5.0Ah Battery Pack (kg)	6.2



**OTHER CONCRETE SOLUTIONS**

**M18 FUEL  
230MM CUT OFF SAW**  
M18 FCOS230

- 3-Mode Operation
- AVS for Reduced Fatigue & Maximized Comfort
- AUTOSTOP™ Kickback Control



Voltage	18V
No Load Speed (rpm)	0-6600
Disc Diameter (mm)	230
Max. Cutting Depth (mm)	85
Arbor Size (mm)	22.2
Weight w/ 12.0Ah Battery Pack (kg)	6.2



**M12**

**ROTARY HAMMERS**

**M12 FUEL 16MM COMPACT  
SDS PLUS ROTARY HAMMER**  
M12 FHAC16

**NEW**

- 3-Mode Operation
- Compact & Lightweight Design
- AVS for Reduced Fatigue & Maximized Comfort



Voltage	12V
No Load Speed (RPM)	1200
Max Hammer Rate (BPM)	4400
Impact Energy (J)	1.15
Max Drilling Concrete (mm)	16
Max Drilling Steel (mm)	10
Max Drilling wood (mm)	13
Weight w/5.0 Battery pack (kg)	2.1



**M12 SDS-PLUS  
ROTARY HAMMER (2-MODE)**  
M12 CH

- Electropneumatic Mechanism
- Compact, Lightweight Design
- 2-Mode Operation: Choose Rotary Hammer Or Rotation Only For Maximum Versatility



Voltage	12V
Impact Energy (J)	1.1
Max. Hammer Rate (bpm)	0-6575
No Load Speed (rpm)	0-900
Max. Drilling Concrete (mm)	13
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	13
Vibration Drilling (m/s <sup>2</sup> )	4.4
Weight w/ 6.0Ah Battery Pack (kg)	1.9

**DUST EXTRACTORS**

**M12 HAMMERVAC  
UNIVERSAL DUST EXTRACTOR**  
M12 UDEL

- Auto-On Mode Allows Extractor to Turn It On and Off
- Universal Handle System
- Lightweight, Minimizes Fatigue

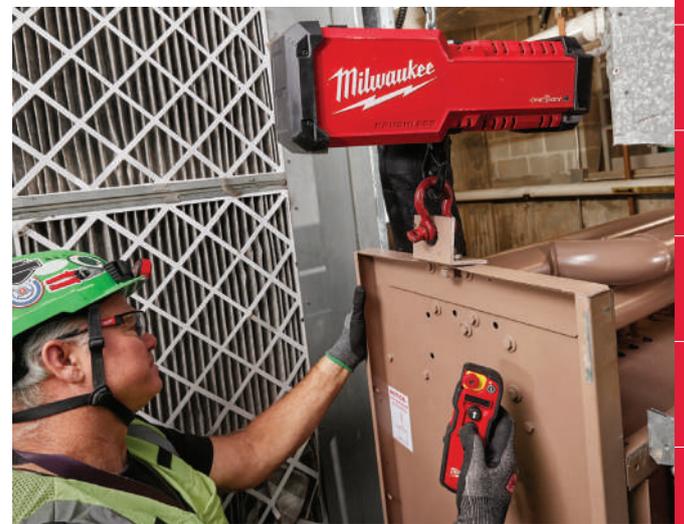


Voltage	18V
Max. Drill Bit Diameter (mm)	30
Max. Drill Bit Length (mm)	210
Max. Drilling Depth (mm)	203
Stroke Length (mm)	203
Weight w/ 2.0Ah Battery Pack (kg)	2.2



# METALWORKING

Grinders, Band Saws, Metal Saws, Metal Shears, Nibbler



**M18**

**GRINDERS**

**M18 FUEL 100MM BRAKING GRINDER**

M18 FSAGV100XB  
M18 FSAGV100XPDB

- Delivering corded performance
- 5-step speed dial - Enhanced Control
- RAPIDSTOP™ Brake, Enhanced safety



M18 FSAGV100XB



M18 FSAGV100XPDB

Voltage	18V
No Load Speed (rpm)	3,500 -8,500
Disc Diameter (mm)	100
Max. Cutting Depth (mm)	21
Spindle Size	M10
Switch Type	
M18 FSAGV100XB	Slide
M18 FSAGV100XPDB	Paddle
Weight w/ 5.0Ah Battery Pack (kg)	2.6

**M18 FUEL 125MM VARIABLE SPEED BRAKING GRINDER**

M18 FSAGV125XB  
M18 FSAGV125XPDB

- Delivering corded performance
- 5-step speed dial - Enhanced Control
- RAPIDSTOP™ Brake, Enhanced safety



M18 FSAGV125XB



M18 FSAGV125XPDB

Voltage	18V
No Load Speed (rpm)	3,500 -8,500
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Spindle Size	M14
Switch Type	
M18 FSAGV125XB	Slide
M18 FSAGV125XPDB	Paddle
Weight w/ 5.0Ah Battery Pack (kg)	2.7

**M18 FUEL HIGH PERFORMANCE 150MM BRAKING GRINDER**

M18 FHSAG150XPDB2

- Generates 13A Corded Power



Voltage	18V
No Load Speed (rpm)	9000
Disc Diameter (mm)	150
Max. Cutting Depth (mm)	45
Spindle Size	M14
Switch Type	Paddle
Weight w/ 8.0Ah Battery (kg)	1.96

**M18 FUEL 100MM BRAKING GRINDER**

M18 FSAG100XB

- Generates 11A Corded Power
- RAPIDSTOP™ Brake, Enhanced safety



Voltage	18V
No Load Speed (rpm)	8,500
Disc Diameter (mm)	100
Max. Cutting Depth (mm)	21
Spindle Size	M10
Switch Type	Slide
Weight w/ 5.0Ah Battery Pack (kg)	2.6

**M18 FUEL 125MM BRAKING GRINDER**

M18 FSAG125XB  
M18 FSAG125XPDB

- Generates 11A Corded Power
- RAPIDSTOP™ Brake, Enhanced safety



M18 FSAG125XB



M18 FSAG125XPDB

Voltage	18V
No Load Speed (rpm)	8,500
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Spindle Size	M14
Switch Type	
M18 FSAG125XB	Slide
M18 FSAG125XPDB	Paddle
Weight w/ 5.0Ah Battery Pack (kg)	2.7

**M18 FUEL 125MM FLATHEAD BRAKING ANGLE GRINDER**

M18 FSAGF125XB  
M18 FSAGF125XPDB

- Generates 11A Corded Power
- Lower Profile, More Access
- RAPIDSTOP Brake, Enhanced safety



M18 FSAGF125XB



M18 FSAGF125XPDB

Voltage	18V
No Load Speed (rpm)	8,500
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Spindle Size	M14
Switch Type	
M18 FSAGF125XB	Slide
M18 FSAGF125XPDB	Paddle
Weight w/ 5.0Ah Battery Pack (kg)	2.6

**M18 FUEL 180-230MM LARGE ANGLE GRINDER**

M18 FLAG230XPDB

- Generates 15A Corded Power
- More Material Removal In A Single Pass



Voltage	18V
No Load Speed (rpm)	6,600
Disc Diameter (mm)	180-230
Max. Cutting Depth (mm)	65
Spindle Size	M14
Switch Type	Paddle Switch
Line Lock Out Function	Yes
Weight w/ 12.0Ah Battery Pack (kg)	5.3

**M18 100MM BRUSHLESS GRINDER**

M18 BLSAG100X

- Delivering Corded Performance



Voltage	18V
No Load Speed (rpm)	11,000
Disc Diameter (mm)	100
Max. Cutting Depth (mm)	21
Spindle Size	M10
Switch Type	Slide
Weight w/ 5.0Ah Battery Pack (kg)	2.3

**M18 125MM BRUSHLESS GRINDER**

M18 BLSAG125X

- Delivering Corded Performance



Voltage	18V
No Load Speed (rpm)	11,000
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Spindle Size	M10 (KR)
Switch Type	Slide
Weight w/ 5.0Ah Battery Pack (kg)	2.3

**M18 FUEL BRAKING DIE GRINDER**

M18 FDGRB

- Generates 11A Corded Power
- RAPIDSTOP™ Brake, Enhanced Safety



Voltage	18V
No Load Speed (rpm)	27,000
Collet Diameter (mm)	6/8
Max. Grinding Accessories Dia. (mm)	Sanding Wheel : 55 Cutting Wheel : 55
Spindle Lock	Yes
Switch Type	Slide
Weight w/ 5.0Ah Battery Pack (kg)	2.03

**M18 FUEL BRAKING VARIABLE SPEED DIE GRINDER**

M18 FDGROVB  
M18 FDGROVPDB

- generates 11A corded power
- 5 Speeds Increased Control
- RAPIDSTOP™ Brake, Enhanced Safety



M18 FDGROVB



M18 FDGROVPDB

Voltage	18V
No Load Speed (rpm)	9,000 - 20,000
Collet Diameter (mm)	6/8
Max. Grinding Accessories Dia. (mm)	Sanding Wheel : 76 Cutting Wheel : 55
Spindle Lock	Yes
Switch Type	M18 FDGROVB : Slide M18 FDGROVPDB : Paddle
LED Light	Yes
Weight w/ 5.0Ah Battery Pack (kg)	2.13



**BAND SAWS**

**M18 FUEL 125MM DEEP CUT BAND SAW**

M18 FBS125

**NEW**

- Large Cutting Capacity Up To A Diameter Of 125 mm
- 5 Steps Variable Speed Selection



Voltage	18V
No Load Speed (m/min)	0-168
Max. Cutting Capacity (mm)	125 x 125
Blade Length (mm)	1139.8
Weight w/ 5.0Ah Battery Pack (kg)	6.2

**M18 FUEL COMPACT BANDSAW**

M18 FBS85

- Cutting Capacity Up To 85mm Diameter
- Variable Speed Trigger, Quick & Easy Speed Adjustments
- Tool-Free Blade Locking Mechanism, Quick And Easy Blade Changes



Voltage	18V
No Load Speed (m/min)	0-164
Blade Length (mm)	899
Cutting Capacity Rectangular Stock (mm)	85 x 85
Cutting Capacity Pipe (mm)	Ø 85
Weight w/ 2.0Ah Battery Pack (kg)	3.9

**ACCESSORY**

**Compact Bandsaw Blade Cover**

49-90-2829 Designed for M18 FBS85



**METAL SAWS**

**M18 FUEL METAL SAW**

M18 FMCS

- Compact & Light Weight Design For More Comfortable Use
- Cold Cuts With Less Sparks Than Abrasive Wheel



Voltage	18V
No Load Speed (rpm)	0-3,900
Blade Diameter (mm)	150
Arbor Size (mm)	20
Max. Cutting Capacity (mm)	Steel Plate : Ø 6.5 Metal Pipe : Ø 57
Weight w/ 5.0Ah Battery Pack (kg)	2.13

**M18 FUEL 203MM METAL CUTTING SAW**

M18 FMCS66

- Generates 15A Corded Power
- Tool-Free Removable Chip Collector
- Overload Indicator Light For Optimal Cutting Speed



Voltage	18V
No Load Speed (rpm)	0-4,000
Blade Diameter (mm)	203
Arbor Size (mm)	15.87
Max. Cutting Depth (mm)	66
Max. Cutting Capacity (mm)	Steel Plate : 25 Angle Iron : 63.5 X 63.5 X 6.35 Metal Pipe : Ø 50 Sections : 66
Weight w/ 5.0Ah Battery Pack (kg)	2.13

**M18 FUEL 355MM ABRASIVE CHOP SAW**

M18 CHS355

- Generates 15A Corded Power
- RAPIDSTOP Brake, Enhanced Safety
- Overload Indicator Light For Optimal Cutting Speed



Voltage	18V
No Load Speed (rpm)	0-4,000
Blade Diameter (mm)	355
Arbor Size (mm)	25.44
Max. Cutting Capacity (mm)	Round Material (O.D) : 125 Square Material (O.D) : 100
Weight w/ 5.0Ah Battery Pack (kg)	20.8

**METAL SHEARS**

**M18 METAL SHEAR**  
M18 BMS20

- 360° Tool-Free Rotating Head
- Ergonomic Body Design, Maximize Control During Use
- Optimized For Making Straight Cuts



Voltage	18V
No Load Speed (rpm)	0-2,500
Max. Cutting Capacity (mm)	
Steel Plate	2.0
Aluminium	3.2
Min. Cutting Radius (mm)	180
Weight w/ 4.0Ah Battery Pack (kg)	2.9

**M18 METAL SHEAR**  
M18 BMS

- 360° Tool-Free Rotating Head
- Ergonomic Body Design, Maximize Control During Use
- Optimized For Making Straight Cuts



Voltage	18V
No Load Speed (rpm)	0-2,500
Max. Cutting Capacity (mm)	
Steel Plate	1.2
Aluminium	2.0
Min. Cutting Radius (mm)	76
Weight w/ 4.0Ah Battery Pack (kg)	2.6



**OTHER METALWORKING SOLUTIONS**

**M18 FUEL REBAR CUTTER**  
M18 FRBC032

**NEW**

- 2 Second Cut In 16mm Rebar
- Cold Cuts With Less Sparks Than Abrasive Wheel
- Cut-Brake: Automatic Blade Brake To Reduce The Risk Of Damage To Sensitive Materials Near The Cut



Voltage	18V
No Load Speed (rpm)	2,000
Arbor Size (mm)	28
Blade Diameter (mm)	137
Max. Cutting Capacity (mm)	32
LED Light	Yes
Weight w/ 6.0Ah Battery Pack (kg)	4.3

**M18 FUEL 10GA NIBBLER**  
M18 FNB35

**NEW**

- Fast, Clean Cuts In 3.5mm Mild Steel
- Tight Turns, Enhanced Control
- Tool-Free 360 Degree Die Holder Rotation



Voltage	18V
No Load Speed (spm)	0-1,200
Cutting Width (mm)	6.35
Smallest curve radius (mm)	64
Starting hole diameter (mm)	35
Weight w/ 6.0Ahn Battery Pack (kg)	4.2

**M18 COMPACT 1 TON CHAIN HOIST**  
M18 BLCHTO

- Effortless Installs
- Less Downtime
- Improved Mobility



Voltage	18V
Max Load (kg)	1,000
Max Height (m)	6
Max Lifting Speed (m/min)	2.4
Variable Speed	Yes
Remote Control	Yes
Max Lift (M)	18.3
Chain Grade	Type T
IP Rating	66

**M12**

**OTHER METALWORKING SOLUTIONS**



**M12 FUEL 16-GAUGE NIBBLER**  
M12 FNB16

- Fast, Clean Cuts In 1.5mm Mild Steel
- Power To Cut 0.7mm Spiral Duct Seams
- Compact Light Weight Design



Voltage	12V
No Load Stroke Rate	1,400 - 2,200
Cutting Width (mm)	5
Smallest Curve Radius (mm)	40.7
Starting Hole Diameter (mm)	21
Max. Cutting Steel < 400 N/mm2 (mm)	1.6
Max. Cutting Steel < 600 N/mm2 (mm)	1.2
Max. Cutting Steel < 800 N/mm2 (mm)	0.7
Max. Cutting Aluminum <250 N/mm2 (mm)	2.1
Max. Cutting Stainless Steel <600 N/mm2 (mm)	1.2

**M12 FUEL COMPACT BANDSAW**  
M12 FBS64

- COMPACT light weight design, suitable for one-hand use
- Variable Speed Trigger, quick & easy Speed Adjustments
- Tool-free blade locking mechanism, quick and easy blade changes



Voltage	12V
No Load Speed (m/min)	0 - 174
Max. Cutting Depth (mm)	64x64
Blade Length (mm)	776.3
LED Light	Yes
Weight w/ 6.0Ah Battery Pack (kg)	3.2

# OUTDOOR POWER EQUIPMENT

Power Head & Attachments, Blowers, Chainsaws, Grass & Hedge Trimmers



# QUIK-LOK™ ATTACHMENT SYSTEM

Multiple Attachments Powered  
By a Single Power Head



## AVAILABLE ATTACHMENTS



Designed to meet the needs of landscape maintenance professionals, the QUIK-LOK™ Attachment System is a versatile outdoor power equipment system featuring multiple attachments powered by a single M18 FUEL™ Power Head. With the QUIK-LOK™ Attachment System, you have the capability to switch between multiple attachments.

The QUIK-LOK™ Attachment System utilizes the most advanced cordless technology to deliver best-in-class power and run-time for landscaping and trade professionals, achieving instantaneous throttle response and outperforming higher voltage platforms.



M18

TRIMMERS



**M18 FUEL HEDGE TRIMMER GEN 2 600MM (24")**

M18 FHET60G2

**NEW**

- Power to Cut 32mm Branches



Voltage	18V
Stroke Per Minute (spm)	0-3200
Cutting Length	630
Cutting Capacity (mm)	32mm
Sharpening Angle to Horizontal (°)	<45°±2°
Blade Tip Guard	Yes
Weight w/ M18 FB8 Battery (kg)	5.35

**M18 FUEL HEDGE TRIMMER 457MM (18")**

M18 FHET45

- Runtime up to 2 hours



Voltage	18V
No-Load Stroke Rate (spm)	0-3400
Cutting Length (mm)	457
Tooth Spacing (mm)	19
Cut Capacity (mm)	20
Dual-Sharpen Blade	Yes
Blade Tip Guard	Yes
Weight w/ M18 HB8 Battery (kg)	5.4



**M18 FUEL GRASS TRIMMER 406MM (16")**

M18 FGTR40

**NEW**

- More Power than 31CC GAS



Voltage	18V
No-Load Speed Low	0-4600
No-Load Speed High	0-6200
Trigger	Variable Speed
Max. Cutting Line ø (mm)	2 / 2.4 / 2.7
Max. Cutting Capacity (mm)	356-406
Feed System	Bump Feed
Weight w/ M18 FB12 Battery (kg)	6.0

**M18 FUEL DUAL BATTERY GRASS TRIMMER 432MM (17")**

M18 F2GTR

- Full Throttle Under 1 Second



Voltage	18V
No-Load Speed Low	0-4900
No-Load Speed High	0-6200
Trigger	Variable Speed
Max. Cutting Line ø (mm)	2 / 2.4 / 2.7
Max. Cutting Capacity (mm)	381-432
Feed System	Bump Feed
Weight w/ 2 x M18 HB8 Battery (kg)	7.5

**M18 FUEL BRUSH CUTTER & STRING TRIMMER**

M18 FBCU

- Power to Clear Thick Brush



Voltage	18V
No-Load Speed Low	0-4900
No-Load Speed High	0-6200
Max. Cutting Line ø (mm)	2.4
Max. Cutting Capacity (mm)	400
Blade Diameter (mm)	230
Interchangeable of Blade and Line Trimmer	Yes
Weight w/ 8.0Ah Battery Pack (kg)	6.3



**M18 BRUSHLESS LINE TRIMMER**

M18 BLLT

- Ease of use



Voltage	18V
Max RPM	6200
No Load Speed-Low (rpm)	4600
No Load Speed-High (rpm)	6200
Cutting Line Max. Diameter (mm)	2.4
Cutting Swath Diameter (mm)	350-400
Cutting Capacity Max	400 mm
Length (mm)	1800
Weight w/ M18 HB8 Battery (kg)	5.4

**CHAINSAWS**

**M18 FUEL DUAL BATTERY 508MM (20") CHAINSAW**

M18 F2CHS50

**NEW**

- Generates 70cc Gas Power



Voltage	18V
No Load Chain Speed (m/s)	14.3
Max. Bar Length (mm)	508
Usable Cutting Length (mm)	482
Chain Oil Tank Capacity (mL)	169
Bar Groove Width (Gauge)	1.3
Chain Pitch (Low Profile)	8.3
Variable Speed Trigger	Yes
Weight w/ (2) M18 FB8 Battery (kg)	9



**M18 FUEL CHAINSAW**

M18 FCHS

- Up to 150 Cuts



Voltage	18V
No Load Chain Speed (m/s)	12.4
Max Bar Length (mm)	406.4
Usable Cutting Length (mm)	380
Chain Oil Tank Capacity (mL)	200
Bar Groove Width (Gauge)	1.1
Chain Pitch (Low Profile)	9.5
Variable Speed Trigger	Yes
Weight w/ 12.0Ah Battery Pack (kg)	6.4

**M18 FUEL CHAINSAW WITH 30CM BAR**

M18 FCHSC

- Cut to 150Pcs
- Outperform up to 40cc



Voltage	18V
No Load Chain Speed (m/s)	12.4
Max. Bar Length (mm)	304.8
Usable Cutting Length (mm)	280
Chain Oil Tank Capacity (mL)	200
Bar Groove Width (Gauge)	1.1
Chain Pitch (Low Profile)	9.5
Variable Speed Trigger	Yes
Weight w/ 12.0Ah Battery Pack (kg)	6.3

**M18 FUEL TOP HANDLE CHAINSAW 356 MM (14")**

M18 FTHCHS35

- Faster than 35cc Gas



Voltage	18V
No Load Chain Speed (m/s)	15
Max. Bar Length (mm)	356
Usable Cutting Length (mm)	343
Chain Oil Tank Capacity (mL)	150
Bar Groove Width (Gauge)	1.1
Chain Pitch (Low Profile)	8.3
Variable Speed Trigger	Yes
Weight w/ 8.0Ah Battery Pack (kg)	4.9

**M18 FUEL HATCHET PRUNING SAW 200MM (8")**

M18 FHS20

- Power to Cut Hardwoods



Voltage	18V
No Load Chain Speed (m/s)	5
Max. Bar Length (mm)	200
Usable Cutting Length (mm)	190
Chain Oil Tank Capacity (mL)	77
Bar Groove Width (Gauge)	1.1
Chain Pitch (Low Profile)	9.5
Variable Speed Trigger	Yes
Weight w/ 2.0Ah Battery Pack (kg)	2.74

**BLOWERS**

**M18 FUEL BLOWER GEN 3**

M18 FBLG3

- Full Throttle Under 1 Second



Voltage	18V
Max. Air Volume (m <sup>3</sup> /min)	14.2
Max. Air Flow Speed (km/h)	193
Blowing Force (N)	12.2
Noise rating (dB)	92.6
Lock On Button	Yes
Weight w/ M18 HB12 Battery (kg)	4.3

**M18 FUEL DUAL BATTERY BLOWER**

M18 F2BL

- Full Throttle Under 1 Second



Voltage	18V x 2
Max. Air Volume (m <sup>3</sup> /min)	17
Max. Air Flow Speed (km/h)	233
Blowing Force (N)	17.7N
Noise rating (dB)	83
Lock On Button	Yes
Weight w/ (2) M18 HB8 Battery (kg)	4.8

**M18 FUEL DUAL-BATTERY BACKPACK BLOWER**

M18 F2BPB

- Higher Blowing Force than up to 60cc Gas
- Full Throttle Under 1 Second



Voltage	18V x 2
Max. Air Volume (m <sup>3</sup> /min)	18.5
Max. Air Flow Speed (km/h)	250
Blowing Force (N)	20.5
Noise rating (dB)	With tapered nozzle 98.8 dB With flat nozzle 97.6 dB
Lock On Button	Yes
Weight w/ 4 x M18 HB8 Battery (kg)	12.9

**OTHER OUTDOOR POWER EQUIPMENT SOLUTIONS**

**M18 FUEL TELESCOPING POLE SAW 305 MM (12")**

M18 FTSP30

- No Gas Headaches



Voltage	18V
No Load Speed - Low (rpm)	0-13500
No-load chain speed (m/s)	25.4
Bar length (mm)	305
Usable cutting length (mm)	287
Chain oil tank capacity (ml)	130
Fully collapsed length (mm)	2720
Fully extended tool length (mm)	3980
Variable speed trigger	Yes
Weight w/ M18 HB12 Battery (kg)	8.4

**M18 BRUSHLESS TELESCOPING POLE PRUNING SHEARS**

M18 BLTS

- No Manual Pulling



Voltage	18V
Max. Cutting Capacity (mm)	44.5
Length Extended (m)	3
Length Collapsed (m)	2.1
Blade Material	DC53 Steel
Weight w/ M18 HB6 Battery (kg)	6.4

**POWER HEAD & ATTACHMENTS**

**M18 FUEL QUIK LOK™ POWER HEAD**

M18 FOPH2

- Full Throttle Under 1 Second
- QUIK-LOK™ Boasts an Extensive Breadth of 12 Attachments, Offering Users Productivity Across All Job Types



Voltage	18V
Speed Settings	3
No Load Speed - Low (rpm)	0-6400
No Load Speed - High (rpm)	0-8680
Weight: Bare Tool (kg)	2.9

**M18 FUEL POWER HEAD GEN 2 WITH LINE TRIMMER KIT**

M18 FOPHLTKIT2

- More Power than 31cc Gas
- Full Throttle Under 1 Second



Voltage	18V
No Load Speed - Low (rpm)	0-4600
No Load Speed - Medium (rpm)	0-5400
No Load Speed - High (rpm)	0-6200
Max. Cutting Capacity (mm)	400
Cutting Line Max. Diameter (mm)	2.4
Length (mm)	1829
Weight w/ 8.0Ah Battery Pack (kg)	5.8

**M18 FUEL QUIK LOK™ LINE TRIMMER ATTACHMENT**

M18 FOPH-LTA



Voltage	18V
Max. Cutting Capacity (mm)	400
Cutting Line Max. Diameter (mm)	2.4
Length (mm)	1020
Weight (kg)	1.7

**M18 FUEL QUIK LOK™ BRUSHED CUTTER ATTACHMENT**

M18 FOPH-BCA



Voltage	18V
No Load Speed - Low (rpm)	0-4600
No Load Speed - Medium (rpm)	0-5400
No Load Speed - High (rpm)	0-6200
Blade Size (mm)	230
Max Cutting Capacity (mm)	32
Weight (kg)	1.6

**M18 FUEL QUIK LOK™ EDGER ATTACHMENT**

M18 FOPH-EA



Voltage	18V
No Load Speed - Low (rpm)	0-2862
No Load Speed - Medium (rpm)	0-3360
No Load Speed - High (rpm)	0-3858
Blade Diameter (mm)	203
Max. Cutting Capacity (mm)	50
Length (mm)	965
Weight (kg)	2.4

**M18 FUEL QUIK LOK™ RUBBER BROOM ATTACHMENT**

M18 FOPH-RBA



Voltage	18V
No Load Speed - Low (rpm)	0-150
No Load Speed - Medium (rpm)	0-177
No Load Speed - High (rpm)	0-205
Cleaning Capacity (mm)	584
Weight (kg)	7.3





**M18 FUEL QUIK LOK™  
BRISTLE BROOM ATTACHMENT**  
M18 FOPH-BBA



Voltage	18V
No Load Speed - Low (rpm)	0-150
No Load Speed - Medium (rpm)	0-177
No Load Speed - High (rpm)	0-205
Cleaning Capacity (mm)	584
Weight (kg)	6.5



**M18 FUEL QUIK LOK™ SHORT  
HEDGE TRIMMER ATTACHMENT**  
M18 FOPH-SHTA



Voltage	18V
No Load Speed - Low (rpm)	0-2620
No Load Speed - Medium (rpm)	0-3080
No Load Speed - High (rpm)	0-3500
Blade Length (mm)	508
Tooth Spacing (mm)	25
Cutting Spacing (mm)	19
Weight (kg)	2

**M18 FUEL QUIK LOK™  
HEDGE TRIMMER ATTACHMENT**  
M18 FOPH-HTA



Voltage	18V
No Load Speed - Low (rpm)	0-2620
No Load Speed - Medium (rpm)	0-3080
No Load Speed - High (rpm)	0-3500
Blade Length (mm)	508
Max. Cutting Capacity (mm)	25
Tooth Spacing (mm)	25
Length (mm)	1524
Weight (kg)	2.6

**M18 FUEL QUIK LOK™  
CHAIN SAW ATTACHMENT**  
M18 FOPH-CSA



Voltage	18V
No Load Speed - Low (rpm)	0-3330
No Load Speed - Medium (rpm)	0-3920
No Load Speed - High (rpm)	0-4500
No Load Chain Speed (m/s)	8.6
Bar Length (mm)	254
Usable Cutting Length (mm)	230
Chain Pitch(Low Profile)	9.5
Chain Oil Tank Capacity (ml)	140
Length (mm)	1245
Weight (kg)	1.9

**M18 FUEL QUIK LOK™  
CULTIVATOR ATTACHMENT**  
M18 FOPH-CA



Voltage	18V
No Load Speed SPM - High	0-2480
No Load Speed CPM - High	0-4960
Cutting Blade Diameter (mm)	230
Weight (kg)	2.5

**M18 FUEL QUIK LOK™  
RECIPROCATOR ATTACHMENT**  
M18 FOPH-RA



Voltage	18V
No Load Speed SPM - High	0-2480
No Load Speed CPM - High	0-4960
Cutting Blade Diameter (mm)	230
Weight (kg)	2.5

**M18 FUEL QUIK LOK™  
BLOWER ATTACHMENT**  
M18 FOPH-BA



Voltage	18V
Air speed (km/h)	193
Air flow rate (m³/min)	14.2
Weight (kg)	2

**M18 FUEL QUIK LOK™  
EXTENSION ATTACHMENT**  
M18 FOPH-EXA



Voltage	18V
Length (mm)	1029
Weight (kg)	0.9



M12

OUTDOOR POWER EQUIPMENT SOLUTIONS

**M12 FUEL HATCHET PRUNING SAW**  
M12 FHS

- Power to Cut 3" Hardwoods
- Up to 120 Cuts Per Charge



Voltage	12V
No Load Chain Speed (m/s)	5
Max Bar Length (mm)	152
Usable Cutting Length (mm)	140
Chain Oil Tank Capacity (mL)	50
Weight w/ 6.0Ah Battery Pack (kg)	2.3

**M12 FUEL 203MM (8") HEDGE TRIMMER**  
M12 FHT20

- Compact design increased control & access
- Power to cut 12.5mm(1/2") branches



Voltage	12V
Stroke Per Minute (spm)	2700
Blade Length (mm)	203
Cutting Capacity (mm)	12.5
Sharpening Angle to Horizontal (°)	<30
Blade Gap (mm)	8
Weight w/ M12 B4 Battery (kg)	1.67

**M12 BRUSHLESS PRUNING SHEARS**  
M12 BLPRS

- Reduced fatigue



Voltage	12V
Max Cutting Capacity - Full Cut Mode (mm)	32
Max Cutting Capacity - Half Cut Mode (mm)	16
Overall Length (mm)	370
Weight w/ 2.0Ah Battery Pack (kg)	1.5

**M12 HANDHELD SPRAYER 7L**  
M12 BHCS7L

- Up to 5.52 Bar and 5.2 meters vertical spray



Voltage	12V
Tank Capacity (Litres)	7.6
Flow Rate (Litres/min)	0.4 - 1.2
Spray Distance (m)	5.2
Max Working Pressure (kPA)	551
Weight w/ 2.0Ah Battery Pack (kg)	3.5



# 533MM (21") MOWER

## SELF-PROPELLED DUAL-BATTERY

**GREAT CUT**  
QUALITY: MULCH,  
BAG, SIDE DISCHARGE

**MORE MAX  
TORQUE**  
THAN 200cc GAS

**FULL THROTTLE  
UNDER  
1 SECOND**

### VARIABLE SPEED SELF-PROPELLED

Active Speed Management for  
More Control During Use

### SINGLE POINT HEIGHT ADJUST

Easier Changes Between Cutting Heights



**2 BATTERIES  
REQUIRED  
& INCLUDED**  
**M18 REDLITHIUM  
HIGH OUTPUT HD12.0Ah  
BATTERY PACKS**

Two Batteries  
Required for Operation

### HIGH LIFT MODE

Increases Blade  
Speed for Superior  
Air Flow and  
Better Lift

### BATTERY FUEL GAUGE

Operator Facing to See  
Charge Level During Use

### 3-IN-1 GRASS MANAGEMENT

Mulch, Bag,  
Rear Side Discharge

### FRONT LED LIGHTS

180° Visibility in Low Light Situations

### OPTIMIZED STEEL DECK

Enhances Air Flow for Better Lift



### NO GAS HEADACHES



NO  
PULL START



NO ENGINE  
MAINTENANCE



LOW  
NOISE



NO  
EMISSIONS



NO MIXING  
GAS AND OIL

### RECOMMENDED ACCESSORIES

Replacement Blade



21" Mower Blade  
49-16-2734

High Performance Blade



21" High Lift Mower Blade  
49-16-2735

Mower Cover



21" Mower Cover  
49-16-2736

Voltage	18V x 2
Cutting Area per Charge	Up to 2023m <sup>2</sup>
No Load Speed (rpm)	2800
Max Load Speed (rpm)	3300
Cutting Capacity (mm)	533mm (21")
Cutting Height (mm)	25-100, 7 positions
Speed	0-6.5km/h (0 - 4MPH)
3-in-1 Grass Management	Bag, Mulch, Side Discharge
LEDs Light	Yes
Grass Bag Capacity	70 L
Protection Class	IPX4
Deck Material	Steel
Handle Height Positions	3
Runtime in Application	60min*

\*on (2) HB12.0 Batteries / Removing 2.54cm of Grass @ 3 MPH

## ACCESSORIES



**Double Shoulder Harness for Brush Cutter**  
49392492849  
Designed for M18 FBCU



**Blower Tapered and Flat Nozzle Attachment Kit**  
49-16-2797

Designed for M18 F2BPPB, M18 F2BL, M18 FBLG3, M18 FOPH-BA



**Blower Gutter Attachment**  
4932498512

Designed for M18 F2BL, M18 FBLG3



**Angled Flare Attachment**  
4932498513

Designed for M18 F2BPPB, M18 F2BL, M18 FBLG3



**M18 Telescoping Pole Pruning Shears Replacement Blade Kit**  
4932493557

Designed for M18 BLTS



**M12 Sprayer 7 Litres Tank APJ version**  
49-16-2762 APJ



**M12 Sprayer Shoulder Strap**  
49-16-2764

Designed for M12 BHCS7L



**M12 Pruning Shears Holster**  
49-17-2765



**M12 Pruning Shears Replacement Blade Kit**  
48-44-2769



**M12 Pruning Shears Replacement Blade Kit**  
48-44-2769 APJ

Designed for M12 BLPRS

### 6" Saw Chain

49-16-2732 Designed for M12 FHS

### 8" Pruning Saw Chain

4932480176  
49-16-2750 Designed for M12 FHS

### 12" Chainsaw Chain

4932480177 APJ Designed for M18 FTHCHS30, M18 FTSP30

### 12" Chainsaw Chain

FCHSC18ACCY01 Designed for M18 FCHSC

### 14" Top Handle Chainsaw Chain

49-16-2744 APJ Designed for M18 FTHCHS35

### 16" Chainsaw Saw Chain

49-16-2715 ASIA Designed for M18 FCHS

### 6" Guide Bar

49-16-2732 ASIA Designed for M12 FHS

### 8" Pruning Saw Guide Bar

4932480169  
49-16-2751 APJ Designed for M12 FHS

### 12" Chainsaw Guide Bar

4932480171 APJ Designed for M18 FTHCHS30, M18 FTSP30

### Rear Handle Chainsaw Bag

M18 FCHS-BAG Designed for M18 FCHS, M18 FCHSC

### 14" Top Handle Chainsaw Guide Bar

49-16-2745 APJ Designed for M18 FTHCHS35

### 16" Chainsaw Guide Bar

4932480174 Designed for M18 FCHS



## QUIK-LOK ATTACHMENT SYSTEM ACCESSORY



**9" Reciprocator Blade**  
49-16-2799

Designed for M18 FOPH-RA



**Trimmer Line 2mm x 45m**  
49-16-2712



**Trimmer Line 2.4mm x 76m**  
49-16-2713



**Gen 2 Easy Loading Head of Line Trimmer**  
4932480180 APJ

Designed for M18 FBCU / M18 FOPH-LTA / M18 BLTT



**254mm Saw Chain**  
4932471329

Designed for M18 FOPH-CSA



**Edger Blade**  
4932471330

Designed for M18 FOPH-EA



**Shoulder Strap**  
49-16-2722

Designed for M18 FOPH2



**Brush Cutter Attachment Blade**  
4932481041

Designed for M18 FBCU / M18 FOPH-BCA

## SPRAYER SYSTEM ACCESSORY

### Replacement Sprayer Hose, Handle, Wand Assembly

49-16-2727 Designed for M18 BFPF-CST

### Replacement Sprayer Nozzles

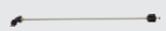
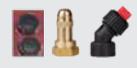
49-16-2806 Designed for M18 BFPF-CST / M12 BHCS7L

### 18" Short Sprayer Wand

49-16-2729 Designed for M18 BFPF-CST / M12 BHCS7L

### Replacement Water Supply Hose

49-16-2730 Designed for M18 BFPF-WST



# RUN TIME DATA

APPLICATION		PRODUCT NAME	BATTERY					
M18			M18 HB3	M18 B4	M18 B5	M18 HB6	M18 HB8	M18 HB12
<b>CHAINSAWS</b>								
<b>LOG CUTTING</b> CUTS IN 10CM PINE		M18 FCHS	38 cuts	40 cuts	50 cuts	75 cuts	100 cuts	150 cuts
		M18 FCHSC	38 cuts	40 cuts	50 cuts	75 cuts	100 cuts	150 cuts
		M18 FCHS35	38 cuts	40 cuts	50 cuts	75 cuts	100 cuts	150 cuts
<b>LOG CUTTING</b> CUTS IN 10CM CEDAR		M18 FHS20	90 cuts	120 cuts	150 cuts	180 cuts	240 cuts	360 cuts
		M18 FTHCHS35	38 cuts	40 cuts	50 cuts	112 cuts	100 cuts	225 cuts
<b>POLE SAWS</b>								
<b>PRUNING</b> CUTS IN 7.5CM OAK		M18 FOPH-CSA	62 cuts	65 cuts	82 cuts	123 cuts	166 cuts	247 cuts
<b>GRASS TRIMMERS</b>								
<b>GRASS CUTTING</b> HIGH MODE		M18 BLLT	13 min	14 min	17 min	26 min	35 min	53 min
		M18 FOPH-LTA	12 min	13 min	16 min	24 min	33 min	49 min
		M18 FGTR40			12 min	15 min	20 min	30 min
<b>GRASS CUTTING</b> LOW MODE *measured under no load speed, simulates light grass trimming application		M18 BLLT	26 min	28 min	35 min	54 min	70 min	105 min
		M18 FOPH-LTA	22 min	23 min	29 min	44 min	58 min	88 min
		M18 FGTR40			25 min	30 min	40 min	60 min
<b>HEDGE TRIMMERS</b>								
<b>LIGHT TRIMMING</b> *measured under no load speed, simulates light grass trimming application		M18 FHET45	52 min	56 min	70 min	105 min	140 min	211 min
		M18 FHET60	52 min	56 min	70 min	105 min	140 min	211 min
		M18 FOPH-HTA	26 min	28 min	35 min	52 min	70 min	105 min
<b>BRUSH CUTTERS</b>								
<b>TRIMMING</b> HIGH MODE *measured under no load speed, simulates light grass trimming application		M18 FOPH-BCA	23 min	30 min	38 min	46 min	61 min	91 min
		M18 FBCU	12 min	13 min	16 min	24 min	33 min	49 min
<b>TRIMMING</b> LOW MODE *measured under no load speed, simulates light grass trimming application		M18 FBCU	22 min	23 min	29 min	44 min	58 min	88 min
<b>BLOWERS</b>								
<b>TOUGH BLOWING</b> HIGH MODE		M18 FBLG3	6 min	6 min	8 min		12 min	18 min
<b>TOUGH BLOWING</b> MEDIUM MODE		M18 FBLG3	18 min	19 min	24 min		32 min	37 min

■ Run time data based on MILWAUKEE™ testing conducted using the recommended battery

\*Charge times are based on a fully-charged battery. These given guidelines are indicative only and may not be replicated due to the varying usage conditions. Results can vary depending on the user and the application. Test results conducted by MILWAUKEE™ for recommended batteries are marked in white, all other battery capacities are calculated.

**SCAN TO VIEW OUR OPE RANGE**



APPLICATION	PRODUCT NAME	BATTERY					
<b>M18</b>		M18 HB3	M18 B4	M18 B5	M18 HB6	M18 HB8	M18 HB12

### SPRAYERS

#### CHEMICAL SPRAYER

\*Number of tanks on speed one which is equivalent to light spraying



M18 BPPF-CST

9 tanks

12 tanks

15 tanks

18 tanks

24 tanks

36 tanks

### EDGERS

#### LIGHT EDGING

HIGH MODE



M18 FOPH-EA

40 min

42 min

53 min

80 min

106 min

160 min

### BRUSHES

#### CLEANING

HIGH MODE

\*measured under load moving wood chips and dirt at full throttle



M18 FOPH-BBA

11 min

14 min

18 min

22 min

29 min

43 min

#### CLEANING

HIGH MODE

\*measured under load moving wood chips and dirt at full throttle



M18 FOPH-RBA

9 min

12 min

15 min

18 min

25 min

37 min

## M18 DUAL BATTERY

M18 HB3

M18 B4

M18 B5

M18 HB6

M18 HB8

M18 HB12

### LAWN MOWER

#### GRASS CUTTING

\*removing 2.5 cm of grass at 4.8 km/h



M18 F2LM53

**HO RED LITHIUM™**  
HIGH OUTPUT BATTERY TECHNOLOGY  
MILWAUKEE® RECOMMENDS  
HIGH OUTPUT™ BATTERIES

1000 m²

1300 m²

2000 m²

### BLOWER

#### TOUGH BLOWING

HIGH MODE



M18 F2BL

**HO RED LITHIUM™**  
HIGH OUTPUT BATTERY TECHNOLOGY  
MILWAUKEE® RECOMMENDS  
HIGH OUTPUT™ BATTERIES

13 min

17 min

26 min

\*Dual-battery run time based on two of the same battery, using batteries with different amp hour (Ah) capacities will provide the run time of the smaller battery.

## M12

M12 B2

M12 HB2.5

M12 B3

M12 B4

M12 B6

M12 HB5

### HATCHET SAW

#### LOG CUTTING

CUTS IN 5CM OAK



M12 FHS

60 cuts

86 cuts

90 cuts

120 cuts

180 cuts

172 cuts

### HEDGE TRIMMER

#### LIGHT TRIMMING

\*No load run time at full throttle (simulates light trimming application)



M12 FHT

25 min

36 min

37 min

50 min

75 min

72 min

### SPRAYER

#### CHEMICAL SPRAYER

\*first mode - spot spraying



M12 BHCS3L

303 Liters

431 Liters

450 Liters

600 Liters

900 Liters

862 Liters



M18

VACUUMS & BLOWERS

**M18 FUEL AC/DC 34L M CLASS DUST EXTRACTOR**

M18 ONEF2VC34M-0 JP

**NEW**

- Highest Sustained Air Flow
- Versatile Power for All Day Productivity
- VACLINK™ Wireless Dust Control



Voltage	18V
Air Volume (m³/min)	DC: 3.5; AC: 4.9
Suction (kPa)	24.9
Capacity (L)	34
Weight w/ 2 pcs of 12.0Ah Battery Pack (kg)	22.4

**M18 FUEL PACKOUT WET/DRY VACUUM**

M18 FPOVCL

- Up to 60% More Suction
- Unmatched Mobility, Less Down Time
- Up to 2x Quieter



Voltage	18V
Air Volume (L/m)	1416
Max. Vacuum (mbar)	117
Capacity (L)	9.5
Weight w/ 5.0Ah Battery Pack (kg)	5.9

**M18 FUEL 23L MODULAR WET/DRY VACUUM**

M18 FVC23L

- Outperforms 3.5 - 4.25 Peak HP Wet/Dry Vacuums
- Most Durable Wheels and Hose
- Most Versatile Wet/Dry Vacuum System



Voltage	18V
Air Volume (L/m)	2463
Max. Vacuum (mbar)	149
Capacity (L)	23
Weight w/ 12.0Ah Battery Pack (kg)	15

**M18 WET/DRY VACUUM**

M18 VC-2

- Powerful Suction for Wet & Dry Applications
- Organized and Enclosed On-board Storage
- Extended Runtime



Voltage	18V
Air Volume (L/m)	1300
Max. Vacuum (mbar)	80
Capacity (L)	7.5
Weight w/ 5.0Ah Battery Pack (kg)	5.3

**M18 COMPACT VACUUM**

M18 CV

- Excellent Suction for Cleanup of Drywall Dust, Wood/Metal Shavings and common Jobsite Debris
- Unique Design and Attachment Combination
- Extended Run Time



Voltage	18V
Air Volume (L/m)	1019
Max. Vacuum (mbar)	94
Capacity (L)	1
Weight w/ 5.0Ah Battery Pack (kg)	1.9

**M18 FUEL BACKPACK VACUUM**

M18 FBPV

- Up to 2X More suction
- Up to 3X Quieter
- 3-IN-1 Backpack Vacuum



Voltage	18V
Air Volume (L/m)	1557
Max. Vacuum (mbar)	189
Capacity (L)	3.8
Weight w/ 2.0Ah Battery Pack (kg)	8.4

**M18 COMPACT BLOWER**

M18 BBL

- Fast clean pruning
- No manual pulling
- Reduces peak muscle activation up to 80%



Voltage	18V
Max. Air Volume (m³/min)	2.9
Max. Airflow Speed (km/h)	257
Noise Rating (db)	77.7
Length without Nozzle (mm)	375
Weight w/4.0Ah Battery Pack (kg)	1.9



**M12**

**VACUUMS & BLOWERS**

**M12 FUEL  
WET/DRY VACUUM**  
M12 FVCL

- Up to 40% More Suction than 18V Competitors
- Highest performing 12V cordless vacuum



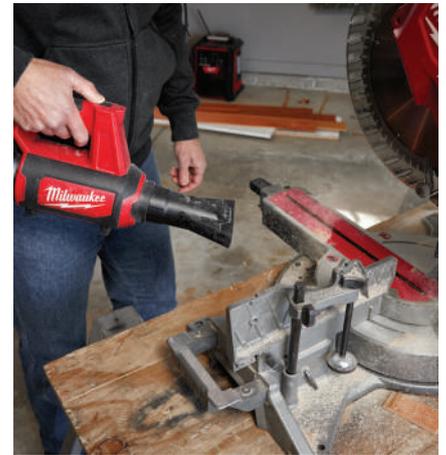
Voltage	12V
Air Volume (L/m)	1275
Max. Vacuum (mbar)	105
Capacity (L)	6.1
Weight w/ 6.0Ah Battery Pack (kg)	5

**M12  
COMPACT SPOT BLOWER**  
M12 BBL

- 2-speed electronic switch
- Variable speed trigger
- Cruise control lock reduces user fatigue



Voltage	12V
Max. Air Volume (m <sup>3</sup> /min)	4.9
Max. Airflow Speed (km/h)	177
Noise Rating (db)	78
Length without Nozzle (mm)	380
Weight w/2.0Ah Battery Pack (kg)	1.9



**AIR-TIP ACCESSORIES**

**M12  
AIR-TIP UTILITY NOZZLE**  
0980-20

- Easy Access On/Off Button
- LED Lights for Low Lighting Environment
- Powered Brush Roll Agitates Debris for Deep Cleaning



**AIR-TIP  
SWIVELING PALM BRUSH**  
49-90-2020

- Swivels 360°
- Rubber Bristle Head
- Short and Stiff Brush Head



**AIR-TIP ROTATING CORNER  
BRUSH TOOL**  
49-90-2021

- Corner Shaped Tip for Deep Corner Cleaning
- 360° Rotating Brush Head
- Agitating Brushes for Easy Debris Removal



**AIR-TIP DUST COLLECTOR**  
49-90-2022

- Funnel Design to Capture More Debris
- Sucks to Wall for Hands-Free Use
- Rubber Seal Maintains Suction to Wall for Less Cleanup



**AIR-TIP 3-IN-1 CREVICE AND  
BRUSH TOOL**  
49-90-2023

- Short and Stiff Brushes
- Long and Soft Brushes



**AIR-TIP  
CONDUIT LINE PULLER KIT**  
49-90-2024

- Rubber Cone Seal
- Flexible Design to Fit into Small Conduit Boxes
- Multiple Sized Tools for Difference Conduit



**AIR-TIP 4-IN-1 RIGHT ANGLE  
CLEANING TOOL**  
49-90-2026

- Right Angle Design Reaches Around Obstacles



**AIR-TIP LOW-PROFILE PIVOTING  
BRUSH TOOL**  
49-90-2027

- 360° Flat Swiveling Brush Head
- Pivoting Joint for Use In Multiple Orientations
- Brushes to Agitate Debris and Protect Surfaces



**AIR-TIP 2-IN-1 UTILITY BRUSH  
TOOL**  
49-90-2028

- Brush Tool Slides and Locks into Place
- Agitating Brushes for Easy Debris Removal



**AIR-TIP FLEXIBLE LONG REACH  
CREVICE TOOL**  
49-90-2030

- Flexible Tool Shaft
- Flexible Rubber Shaft Bends into Hard to Reach Places



**AIR-TIP PIVOTING EXTENSION  
WAND**  
49-90-2031

- Pivoting 90° Joint for Greater Access



**AIR-TIP MAGNETIC UTILITY  
NOZZLE**  
49-90-2032

- Black Zinc Coating Prevents Rust
- Magnetic Strips on Front and Back Catch Metal Hardware



**AIR-TIP 63.5MM (2-1/2")  
MAGNETIC UTILITY NOZZLE**  
49-90-2033

- Black Zinc Coating Prevents Rust
- Magnetic Strips on Front and Back Catch Metal Hardware



**AIR-TIP NON-MARRING UTILITY  
NOZZLE KIT**  
49-90-2034

- Crevice and Utility Nozzle
- Non-Marring Edges Protect Surfaces from Scratches and Marks



**AIR-TIP CROSS BRUSH TOOL**  
49-90-2035

- Cross Design Prevents Brushes from Pushing Debris Away
- Agitating Brushes for Easy Debris Removal



**AIR-TIP LONG REACH FLEXIBLE  
MICRO HOSE SET**  
49-90-2037

- Twist and Lock Hoses Into Place
- Five Interchangeable Hose Lengths and Diameters



**AIR-TIP ROCKING UTILITY  
NOZZLE WITH BRUSHES**  
49-90-2038

- Easier to Push and Pull Across Surfaces
- Agitating Brushes for Easy Debris Removal



**AIR-TIP 63.5MM (2-1/2") ROCKING  
UTILITY NOZZLE WITH BRUSHES**  
49-90-2039

- Easier to Push and Pull Across Surfaces
- Agitating Brushes for Easy Debris Removal
- Rocking Design Prevents Tool from Sucking to Surface



**AIR-TIP CLAW UTILITY NOZZLE  
WITH BRUSHES**  
49-90-2040

- Agitating Brushes for Easy Debris Removal



**COMPATIBLE WITH OTHER WET/DRY  
VAC BRANDS**





M18

PLUMBING & MECHANICAL SOLUTIONS

**M18 BRUSHLESS STICK WATER PUMP**

M18 BLSWP

**NEW**



- Up to 94.5 Liters per minute
- HYDROPASS™ filter maximizes flow in heavy debris
- 1,219mm submersible reach for easier inlet control

Voltage	18V
Max Head Height (m)	5.1
Max Flow Rate (l/min)	94.5
Fitting	32 mm (1-1/4") BSPP Female Thread w/ provided adaptors
Max Water Temperature	60 °C
Submersible Depth (mm)	1,219
Tool Length (mm)	1,600
Protection class (IP rating)	Pump head: IPX8   Battery pack compartment: IPX4
Weight w/ 12.0Ah Battery Pack (kg)	7.0

**M18 FUEL 5CFM VACUUM PUMP**

M18 FVP5



- Evacuate without generators or temporary power
- Manifold mode maximizes runtime in manifold setups
- Instant power, no hassle

Voltage	18V
Flow Rate	5 CFM (142 L/min)
Ultimate Vacuum	25 Microns
Port Compatibility	1/4", 3/8", 1/2" & 5/16" Adaptor
Pump Type	Two-Stage Rotary Vane
Oil Capacity	550 ml
Manifold Mode	Yes
Gas Ballast Valve	Yes
Isolating Ball Valve	Yes
Internal Check Valve	Yes
Weight w/ 8.0Ah Battery Pack (kg)	9.6

**M18 FORCE LOGIC 2"-3" PEX EXPANSION TOOL**

M18 ONEBLPXPL



- Powerful hydraulic system expands up to DN75 pipe
- Auto-rotating head expands PEX pipe quickly and evenly
- All-metal gears and integrated magnesium frame for maximum jobsite durability

Voltage	18V
Head Type	Auto-Rotating
Stroke Length (mm)	55.5
Weight w/ 5.0Ah Battery Pack (kg)	10.1



**M18 TRANSFER PUMP**

M18 BTP



- Self-priming, connect and go
- Pumps up to 1817 liters per hour
- Powerful motor generate a lift height up to 5.5m and a head height up to 23m

Voltage	18V
Flow Rate (l/m)	30
IP Protection Class	IPX4
Max. Head Height (m)	23
Max Suction Height (m)	5.5
Max Water Temperature (°C)	60
Thread Size (mm)	¾"(19 mm) Male BSPT
Weight w/ 5.0Ah Battery Pack (kg)	4.1

**M18 FUEL 1 1/4" COMPACT PIPE THREADER WITH 1/2"-1 1/4" COMPACT BSPT HIGH SPEED DIE HEADS**

M18 FPT114

- Lightest cordless threading solution optimized for service and repair work
- AUTOSTOP™ kickback control prevents severe kickback
- Side grip thread starts eliminate engagement with spinning die head



Voltage	18V
Rated Speed	0 – 35/min
Die Head Range	½", ¾", 1" & 1¼"
Die Thread Type	NPT / BSPT
Die Type	Alloy / High Speed
AUTOSTOP™	Yes
Variable Speed	Yes
Weight w/ 8.0Ah Battery Pack (kg)	5.8

ACCESSORIES FOR M18 FPT114

PIPE THREADER DIES

4932480227	BSPT Alloy Die 1/2"	48-36-1101	NPT Alloy Die 1/2"
4932480228	BSPT Alloy Die 3/4"	48-36-1102	NPT Alloy Die 3/4"
4932480229	BSPT Alloy Die 1"	48-36-1103	NPT Alloy Die 1"
4932480230	BSPT Alloy Die 1-1/4"	48-36-1104	NPT Alloy Die 1-1/4"
4932480233	BSPT HS Die 1/2"	48-36-1107	NPT HS Die 1/2"
4932480234	BSPT HS Die 3/4"	48-36-1108	NPT HS Die 3/4"
4932480235	BSPT HS Die 1"	48-36-1109	NPT HS Die 1"
4932480236	BSPT HS Die 1-1/4"	48-36-1110	NPT HS Die 1-1/4"

PIPE THREADER DIE HEADS

4932480245	BSPT Alloy Die Head 1/2"	48-36-1307	NPT Alloy Die Head 1/2"
4932480246	BSPT Alloy Die Head 3/4"	48-36-1308	NPT Alloy Die Head 3/4"
4932480247	BSPT Alloy Die Head 1"	48-36-1309	NPT Alloy Die Head 1"
4932480248	BSPT Alloy Die Head 1-1/4"	48-36-1310	NPT Alloy Die Head 1-1/4"



**M12**

**PLUMBING & MECHANICAL SOLUTIONS**

**M12 2" COPPER TUBING CUTTER**

M12 CTC2

- Fast clean cuts
- Automatically adjust to cut 34.92 mm, 41.28 mm, 53.98 mm outer diameter copper
- Superior access with as little as 53mm clearance



Voltage	12V
Motor Type	Brushless
Tool Dimensions (mm)	321.8 x 97.8 x 139.7
Material Application	Copper Pipe
Pipe capacity (mm)	34.92, 41.28, 53.98 (Outer Diameter)
Cut Clearance (mm)	53
Auto-Adjust to Pipe Size	Yes
LED Light	Yes
View Window	Yes
Weight w/ 4.0Ah Battery Pack (kg)	3.1



**M12 COMPACT COPPER PIPE CUTTER**

C12 PC

- Automatically adjusts from 12mm to 28mm tubing and rotates to cut in confined spaces
- Inline design reduces wrist drain in confined space
- Corrosion & rust resistant metal cutting head



Voltage	12V
No Load Speed (rpm)	0-500
Minimum Space for Tube Cutting (mm)	40
Pipe Capacity (mm)	12/15/18/22/25/28
Weight w/ 2.0Ah Battery Pack (kg)	1.7

**M12 SUB COMPACT PEX CUTTER**

C12 PPC

- Powerful mechanism cuts up to 50 mm PVC pipe in 3 seconds
- Super sharp blade for blur free cuts
- Variable speed trigger for complete cut out control



Voltage	12V
Max. Cutting Capacity (mm)	50
On Board LED	Yes
Weight w/ 2.0Ah Battery Pack (kg)	1.9

**M12 COMPACT PEX EXPANSION TOOL**

C12 PCP

- Auto-rotating head 12 mm to 32 mm provides accurate, one-handed expansion
- Compact, right angle design for use in tight locations
- All-metal gears and integrated metal frame for maximum jobsite durability



Voltage	12V
Stroke Length (mm)	14
Speed (spm)	60
Max. Pipe dia. 6 Bar (mm)	32 x 2.9
Included Heads (mm)	16, 20, 25
Weight w/ 2.0Ah Battery Pack (kg)	1.9

**M12 AIRSNAKE DRAIN CLEANING AIR GUN**

M12 DCAG

- Up to 50 PSI for tough clogs down the line
- Instantly reach clogs 10.6m out
- Optimized attachments for sinks, toilets, and floor drains



Voltage	12V
Drain Line Capacity (mm)	25-100
Air Pressure (PSI)	0-50
Variable Pressure Dial	Yes
Clearing Distance (m)	10.6
Automatic Pressure Loading	Yes
LED Work Light	Yes
Weight w/ 2.0Ah Battery Pack (kg)	3.4

**M12 COMPACT DRAIN CLEANER WITH SPIRAL DIAMETER 6 MM**

M12 BDC6

- Hybrid design: provides benefits of both handheld and floor based drain cleaners in 1 machine
- Drum shield: protects user and fixture during use
- Professional drain cleaner on the market with lighter weight



Voltage	12V
No Load Speed (rpm)	0-500
Max. Drain Diameter (mm)	50
Spiral Diameter (mm)	6
Spiral Length (m)	7.6
Weight w/ 2.0Ah Battery Pack (kg)	4.2

**M12 STICK WATER PUMP**

M12 BSWP

- HYDROPASS™ filter shields against clogs
- Submersible up to 85 cm
- Push water farther with 4.5m max head height



Voltage	12V
Head Height	4.5m
Max Flow Rate	34 liters/ minute
Fitting	19 mm (3/4") BSPT Male
Max Water Temperature	60°C
Submersible	85cm
Fuel Indicator	Yes
Protection class (IP Rating)	IPX4
Weight w/ 6.0Ah Battery Pack (kg)	2

**6" LEVELING TRIPOD CHAIN VISE**

48-22-8690

- STABLE LOK™ provides lifetime sturdiness
- Two-step deployment eliminates setup hassles
- Adjustable leg for level alignments



Pipe Capacity	1/8" - 6"
Stability Adjustment	STABLE LOK
Leveling Adjustment	+/- 3 Degrees
Storage & Transport Profile	Flat, Briefcase-Style
Storage Height (cm)	125.8
Storage Depth (cm)	13.4

**ACCESSORY**

**Drain Cables**

48-53-2573 Designed for M12 BDC6



# ELECTRICAL & POWER UTILITY

Hydraulic Pumps, Cable Cutters, Crimpers



**M18**

**CRIMPERS**

**M18 FORCE LOGIC 6T LINEAR UTILITY CRIMPER**

M18 ONEHUCT

**NEW**

- Easiest Set-Up with 7 interchangeable Crimping & Cutting jaws
- Instant Pressure Verification with PFM™ System
- Fastest Connections in All Elements with High Speed Hydraulic Pump



Voltage	18V
Output Force (kN)	53
Max Crimping Capacity (mm <sup>2</sup> )	300
Max Cutting Capacity (mm)	ACSR : 22.5 EHS Guy Wire: 15
Weight w/ 2.0Ah Battery Pack (kg)	3.3
Head rotation(°)	340

**M18 FORCE LOGIC HYDRAULIC DIELESS CRIMPER**

M18 HDCT

**NEW**

- Easiest Alignment with In-Line Design and 180° Rotating Head for Tight Space access
- Best-in-class Crimp Confidence with Auto Distance control
- UL Classified crimps from 10-300 mm<sup>2</sup> with UL lugs and Splices



Voltage	18V
Output Force (kN)	60
Max Crimping Capacity (mm <sup>2</sup> )	300
Weight w/ 2.0Ah Battery Pack (kg)	4.5
Head rotation(°)	180

**M18 FORCE LOGIC 120KN HYDRAULIC CRIMPER**

M18 HCCT120 / M18 HCCT120ST

**NEW**

- Fastest Connections in All Elements, Crimping Up to 400mm<sup>2</sup>
- Easiest Alignment with Enlarged Trigger and Balanced Design
- Quality Connections with PFM™ System



Voltage	18V
Output Force (kN)	120
Max Crimping Capacity (mm <sup>2</sup> )	Copper: 400 Aluminum: 300
Weight w/ 5.0Ah Battery Pack (kg)	7.58
Head rotation(°)	340

**ACCESSORIES FOR M18 ONEHUCT**

**Replacement Jaws**

49-16-2773	ACSR Cutting Jaw
49-16-2778	Fine Strand Cutting Jaw
49-16-BGD3	6T Fixed BG Crimp Jaw
49-16-11D3	6T Snub Nose Crimp Jaw
49-16-2772	Cu/Al Cutting Jaw
49-16-2777	EHS Guy Wire Cutting Jaw
49-16-10D3	6T Fixed O Crimp Jaw



**M18 FORCE LOGIC 60KN GUILLOTINE CRIMPER**

M18 ONEHCCT60

- Great Crimp Result With Guillotine Style Head
- One-Handed Grip For Easy Alignment
- Best crimp result with fully closed dies up to 300mm<sup>2</sup>



Voltage	18V
Nominal Force (kN)	60
Max. Crimping Capacity(mm <sup>2</sup> )	300
Head rotation(°)	340
Weight/ 2.0Ah Battery Pack (kg)	3.8
Jaw Style	Guillotine

**M18 FORCE LOGIC 15T CRIMPER**

M18 HCCT15

- Inline design and centered grip for one-handed use helps reduce muscle effort
- Fully compatible with all industry-standard P-Dies and P-to-U Die Adapters
- PFM ensures full pressure is reached



Voltage	18V
Nominal Force(kN)	133
Max Crimping Capacity(mm <sup>2</sup> )	Copper:800 Aluminum:625
Weight w/ 2.0 Battery Pack(kg)	7.9

**M18 FORCE LOGIC 6T COMMERCIAL CRIMPER**

M18 HCCT

- Proprietary Jaw Alignment System
- Predictive Force Monitoring (PFM™)
- Best Protection Against The Elements



Voltage	18V
Nominal Force (tons)	53
Max Crimping Capacity (mm <sup>2</sup> )	Copper: 300 Aluminum:150
PFM Adaptive Pressure Control System	Yes
Head Rotation (°)	350
Weight w/ 2.0Ah Battery Pack (kg)	3.7

**ACCESSORIES FOR M18 HCCT15**

**15T P-Dies ( 400mm<sup>2</sup>)**

4915P750C	Conductor Type - Copper
4915P750	Conductor Type - Aluminum

**15T P-Dies ( 420mm<sup>2</sup>)**

4915P800C	Conductor Type - Copper
4915P800	Conductor Type - Aluminum

**15T P-Dies ( 500mm<sup>2</sup>)**

4915P000C	Conductor Type - Copper
4915P000	Conductor Type - Aluminum

**15T P to U-Die Adapter**

49-15-PUAD	15T P to U-Die Adapter
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**ACCESSORY FOR M18 HCCT**

Replacement CU/AL Standard Copper and Aluminium Cable Cutting Jaw  
019600625



**M18 FORCE LOGIC 60KN GUILLOTINE CRIMPER**

M18 HCCT109/42

- Easiest Alignment with Up to 1.5kg Lighter than Competitive units
- Instant pressure verification with PFM™ system
- Best protection against the elements with sealed electronics keep dirt & moisture out



Voltage	18V
Nominal Force(kN)	109
Max Crimping Capacity(mm <sup>2</sup> )	Copper:400 Aluminum:300
Weight w/ 2.0 Battery Pack(kg)	5.6

**CABLE CUTTERS**

**M18 FORCE LOGIC 125MM UNDERGROUND CABLE CUTTER**  
M18 HCC125R

- More Balanced, Maximum Control with 360° Articulating D-handle and 180° Rotation
- Larger Cut Capacity that cutting up to 125MM diameter
- Remote Indicates Completion enables cable splicers to move away up to 30M line of sight



Voltage	18V
Max Cutting Capacity (CU/AL/SWA) (mm)	125
Cut Speed (s)	38
No. of Cuts/Blade	1,000+
No. of Cuts per 8.0Ah Battery Pack	30+
Auto Retraction	Yes
Head Rotation(°)	180
Nominal Force (kN)	120
Weight w/ 8.0Ah Battery Pack(kg)	17.5

**UNDERGROUND CUTTER ACCESSORIES**

Replacement Underground Cutter Blade

4932492423 Latch Replacement Blade

4932492424 Moving Ram Replacement Blade



**M18 FORCE LOGIC OVERHEAD CABLE CUTTER**  
M18 HCC45

- One-Handed Jaw Opening
- Hands-Free Jawclosure, Easiest Mid-Span Cuts
- Faster Transmission Cutter



Voltage	18V
Cutting Range (1590 Falcon ACSR) (mm)	45
Cutting Range (EHS Guy Wire) (mm)	12.7
Cut Speed (s)	7.7
No. of Cuts per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Auto Retraction	No
Output Force (kN)	77.8
Weight w/ 5.0Ah Battery Pack (kg)	6

**OVERHEAD CUTTER ACCESSORIES**

Replacement Overhead Cutter

49162775



**M18 FORCE LOGIC 6 TON CU/AL CABLE CUTTER**  
M18 HCC

- Compact Open-Jaw
- Centered Grip
- More Durable



Voltage	18V
Max Cutting Capacity (CU/AL Cutting Jaw) (mm)	35
Max Cutting Capacity (ACSR Cutting Jaw 49-16-2773) (mm)	22.5
Cutting Range (Fine Stranded Cutting Jaw 49-16-2778) (mm)	35
Nominal Force(kN)	53
Cut Speed (s)	3
No. of Cuts/Blade	3,000+
No. of Cuts 2.0 Ah Battery Pack	150+
Head Rotation (°)	350
Auto Retraction	Yes
Weight w/ 5.0Ah Battery Pack (kg)	3.7

**ACCESSORIES FOR M18 HCC**

**Replacement Jaws**

49-16-2772	CU/AL Cutting Jaw
49-16-2773	ACSR Cutting Jaw
49-16-2777	EHS Guy Wire Cutting Jaw
49-16-2778	Fine Stranded Wire Jaw



**M18 FORCE LOGIC UNDERGROUND CABLE CUTTER**  
M18 HCC75R

- Easiest Set-Up In Vaults And Trenches
- Safer Cutting, Wireless Remote
- Remote Indicates Completion



Voltage	18V
Cutting Range (CU/AL Cutting Jaw) (mm)	75
Cut Speed (s)	9.5
No. of Cuts Per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Auto Retraction	No
Output Force (kN)	77.8
Weight w/ 5.0Ah Battery Pack (kg)	7.9

**UNDERGROUND CUTTER ACCESSORIES**

Replacement Underground Cutter Blade

49162774



**HYDRAULIC PUMPS**

**M18 FORCE LOGIC  
700 BAR HYDRAULIC PUMP**  
M18 HUP700

- No Gas No Generators
- Significantly faster work cycles with 1.6 litre total oil reservoir
- All Day Runtime



Voltage	18V
Force Output (bar)	700 (10,000 psi)
Oil Delivery Low Pressure (l/min)	2.0
Oil Delivery High Pressure (l/min)	0.4
Oil Capacity (L)	1.3
Remote Controller	Wired & Wireless
Adaptive Pressure Control	PFM
Weight w/ 12.0Ah Battery Pack (kg)	16.5

**ACCESSORY FOR  
M18 HUP700**

1 Liter Can Of Hydraulic Oil  
129227516



**M18 BRUSHLESS SINGLE ACTION  
MINI HYDRAULIC PUMP**  
M18 HMP700

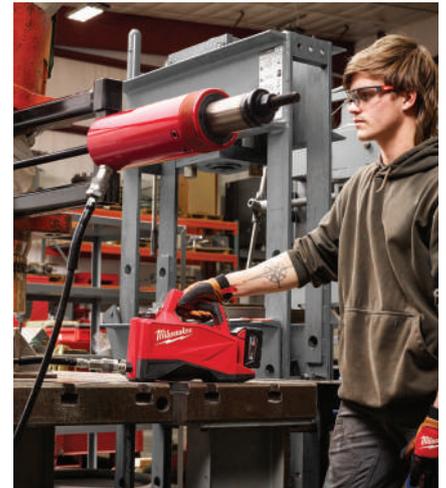
- Up To 2.5x Faster Vs. Handpumps, Increased Productivity
- Up To 95% Less Muscle Effort vs. Handpumps, Reduced Fatigue
- Compact, lightweight and portable



Voltage	18V
Force Output (bar)	700(10,000 psi)
Oil Delivery Low Pressure(l/min)	0.3
Oil Delivery High Pressure(l/min)	0.2
Oil Capacity (L)	1.0
Weight w/12.0Ah Battery Pack(kg)	6.6

**ACCESSORY FOR  
M18 HMP700**

1 Liter Can Of Hydraulic Oil  
129227516



**OTHER ELECTRICAL SOLUTIONS**

**M18 FORCE LOGIC  
6 TON KNOCKOUT TOOLS**  
M18 HKP

- Punches 100mm Holes In Mild Steel
- Quick Connect System Speeds Up Alignment
- Ideal For Service: Best Clearance, Lighter



Voltage	18V
Hole Diameter (mm)	Max. 100
Thickness (mm)	Mild Steel: 3.0 Stainless Steel: 2.5
No. of Holes per 2.0Ah Battery Pack	120
Output Force (tons)	6
Capacity (Basic Set) (mm)	12 - 50
Capacity (Additional Accessories) (mm)	63 - 100
Weight w/ 2.0Ah Battery Pack (kg)	2.0

Included:

- (49-16-2680) 7/16" (11 mm) Draw Stud
- (49-16-2681) 3/4" (19 mm) Draw Stud
- Quick Connect Alignment System
- EXACT 1/2" (12 mm) to 2" (50 mm) Conduit Punches and Dies
- (2) M18 REDLITHIUM 2.0 Batteries
- M18 and M12 Multi-voltage Charger
- Carrying Case

**M18 BRUSHLESS  
THREADED ROD CUTTER**  
M18 BLTRC

- One-Handed Center Grip Design
- Burr-Free Cuts. No Chips, No Sparks
- Clearest Line Of Sight For The Most Accurate Cuts



Voltage	18V
Cutting Capacity Mild Steel	1/4", 3/8", 1/2"
Cutting Capacity Stainless Steel	1/4", 3/8"
Style	Shear
LED	Yes
Blades	Replacable Cutting Dies
Length	1-1/2"
Weight w/ 2.0Ah Battery Pack (kg)	3.2

**ACCESSORY FOR M18 BLTRC**

1/4", 3/8", 1/2" Replacement Cutting Die Set  
48-44-2872



**M18 FUEL  
POWERED FISH TAPE**  
M18 FPFT

- Power To Pull 60m Through 360° Bends
- Auto-Run Power Feed & Retract
- No Mess Less Binding



Voltage	18V
No Load Speed (rpm)	0-37
Non-Conductive Drum Tape Length (m)	30
Non-Conductive Drum Tape Material	Polyester
Weight w/ 2.0Ah Battery Pack (kg)	6.4

**ACCESSORY FOR M18 FPFT**

Non-Conductive Fish Tape 30m  
FPFT18ACCY01



**M18 FORCELOGIC STRUT SHEAR**

M18 STSO

- Precise Measurement, Consistent Accuracy
- No Exposed Blades
- Installation Ready Cuts, Eliminate Filing



Battery System	M18
Strut material	Mild steel, Galvanized steel
Max material thickness (mm)	3
Force (kN)	176.4
Cutting Cycle	5 seconds
Dual LEDs	YES
Tri-Stand Chain Vice Mount	YES
Die Retention Arm	YES
Tool dimension (mm)	444.5 x 193.8 x 243.6
Weight (Tool only) (kg)	10.7

**ACCESSORIES FOR M18 STSO**

49-16-0158	Strut Shearing Dies 41mm X 41mm
49-16-1316	Strut Shearing Dies 21mm X 41mm
49-16-0078	Strut Shearing Dies 22mm X 41mm
49-16-1513	Strut Shearing Dies 21mm X 41mm Combo
49-16-1578	Strut Shearing Dies 22mm X 41mm Combo



**M12**

**ELECTRICAL & POWER UTILITY SOLUTIONS**

**M12 COMPACT CABLE CUTTER**

M12 CC

- Professional capacity 32mm: Powerful jaws cut effortlessly through large cable
- Superior blade geometry: Delivers a round and installation-ready cut
- Breakthrough ratcheting mechanism: Fits into tight panels for more effective cutting



Voltage	12V
Cutting Range (mm)	32
Cutting Force (kN)	32
Speed Settings	2
Weight w/ 4.0Ah Battery Pack (kg)	3.0

**ACCESSORY FOR M12 CC**

M12 600 MCM Cable Cutter Blade  
129226504



**M12 SOLDERING IRON**

M12 SI

- Fast, Smart, Portable Soldering
- Heats Quickly, Maintains Optimized Temperature
- Ready-To-Use & Safe-To-Store Indicator



Voltage	12V
Heat Up Time (s)	20 – 30
Interchangeable Tips	Chisel & Pointed
LED	Yes
Run-Time (min)	60
Length (mm)	294
Weight w/ 2.0Ah Battery Pack (kg)	0.5

**TRUE RMS MULTIMETER**

2217-20

- Up to 600 volts AC/DC
- High Contrast Resolution
- Contact temperature measurement from -40 to 400 °C

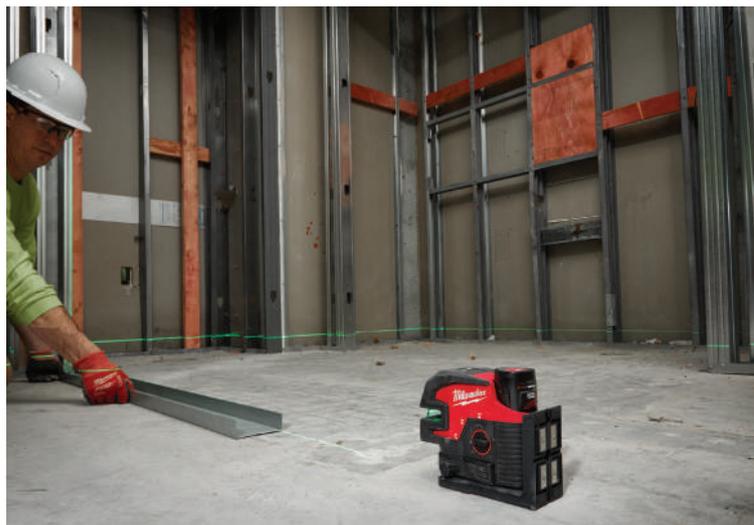
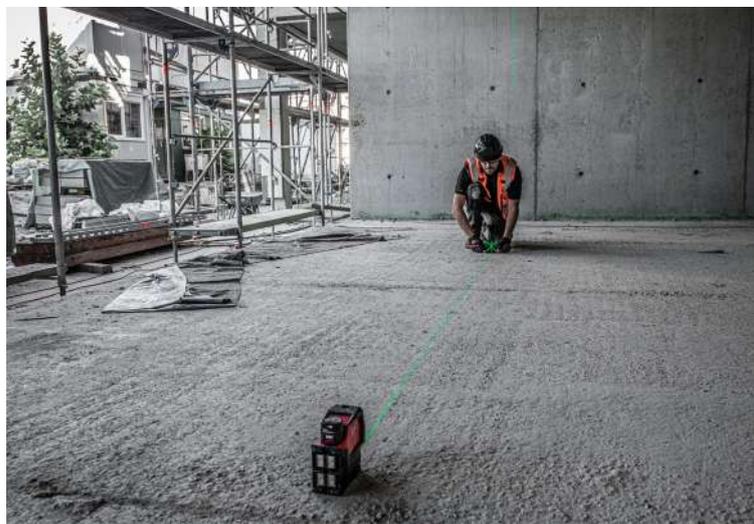


Battery	Alkaline (AA)
Display Type	White on Black LCD
Switch Type	Dial
TRMS	Yes
Current AC DC	10.00A
Voltage AC DC	600V
Frequency	10 Hz - 50 kHz
Resistance	40MΩ
Continuity	Audible
Capacitance	1,000µF
Contact Temperature (°C)	-40 to 400
Backlight	Yes
Bargraph	Yes

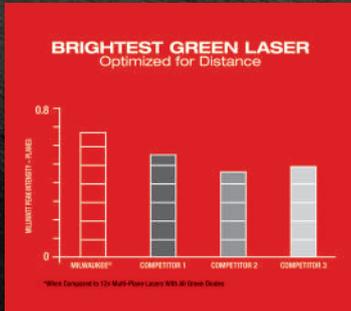


# LASER

## Laser Measuring Tools



# GREAT VISIBILITY



**HIGH-INTENSITY GREEN LASER  
UP TO 38M WORKING RANGE(RADIUS)**

# ALL DAY RUN TIME

**ONE M12 B3 BATTERY PACK = 15+ HOURS OF RUN-TIME**

# FAST, VERSATILE SETUP

**MICRO CONTROL: PROVIDES FASTER ALIGNMENT & SET UP  
PIVOTS ON POINT: IMPROVED ACCURACY & EASY ALIGNMENT**



M12

LASER MEASURING TOOLS

**M12 CROSS LINE AND PLUMB POINT LASER LEVEL**

M12 CLLP



Voltage (VDC)	12V
Working Range (m)	38
Levelling Accuracy (mm/m)	0.3
Self-Levelling Range	±4°
Laser Class	2
Ingress Protection	IP54
Weight w/ 2Ah Battery Pack (kg)	1.2

**M12 3-PLANE LASER LEVEL**

M12 3PL



Voltage (VDC)	12V
Working Range (m)	38
Levelling Accuracy (mm/m)	0.3
Self-Levelling Range	±4°
Laser Class	2
Ingress Protection	IP54
Weight w/ 4Ah Battery Pack (kg)	1.66

**M12 CROSS LINE W/ 4-POINT LASER LEVEL**

M12 CLL4P



Voltage (VDC)	12V
Working Range (m)	38
Levelling Accuracy (mm/m)	0.3
Self-Levelling Range	±4°
Laser Class	2
Ingress Protection	IP54
Weight w/ 2Ah Battery Pack (kg)	1.26

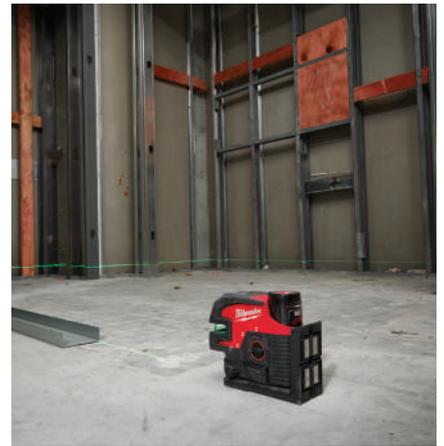
**LASER DETECTOR**

LLD50

- 50m Range
- 1.5mm Accuracy
- LED & Audio Indication



Working Range (m)	50
Measuring Accuracy Fine (mm/m)	+/- 0.08
Measuring Accuracy Coarse (mm/m)	+/- 0.1
Battery Type	LR6 x 2
Weight w/ Battery (kg)	0.28



**360° LASER BRACKET**

48-35-1311

- Multi-Plane Rotational Adjustment
- Micro Control: Precise Vertical Alignment
- Adjustment Lock



**LASER TRACK CLIP**

48-35-1313

- Easy Laser Alignment, Centering Groove
- Strong, Secure Grip
- Integrated Screw and Nail Hang Hole



**LASER TARGET BOARD**

48-35-1111

- High Visibility Illumination
- Responsive Centering
- Alignment Wide Magnetic Base



**TRIPOD**

48-35-1411

- Bottom Mounting Point - Lowest Applications
- Adjustable Pan Tilt Head
- Lightweight & Durable Aluminium Body



**3.6M TELESCOPING LASER POLE**

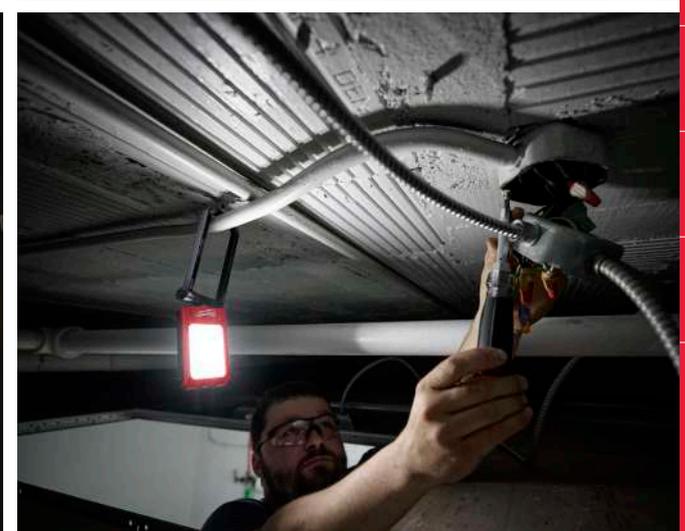
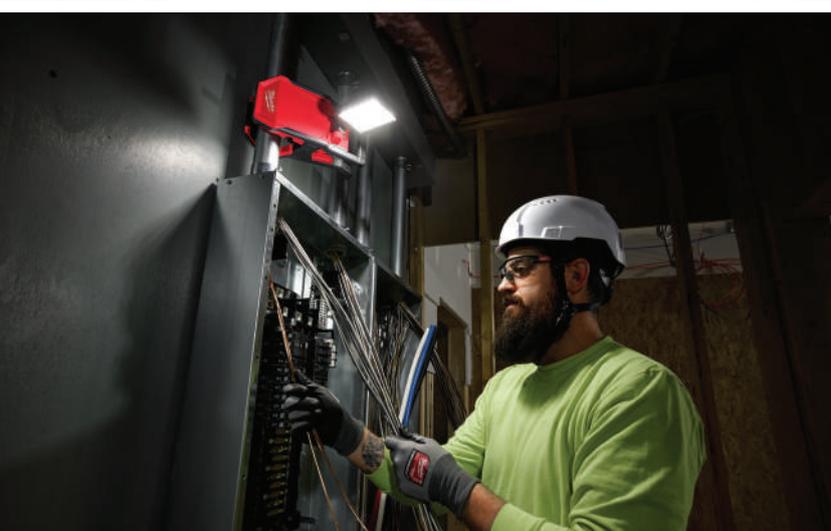
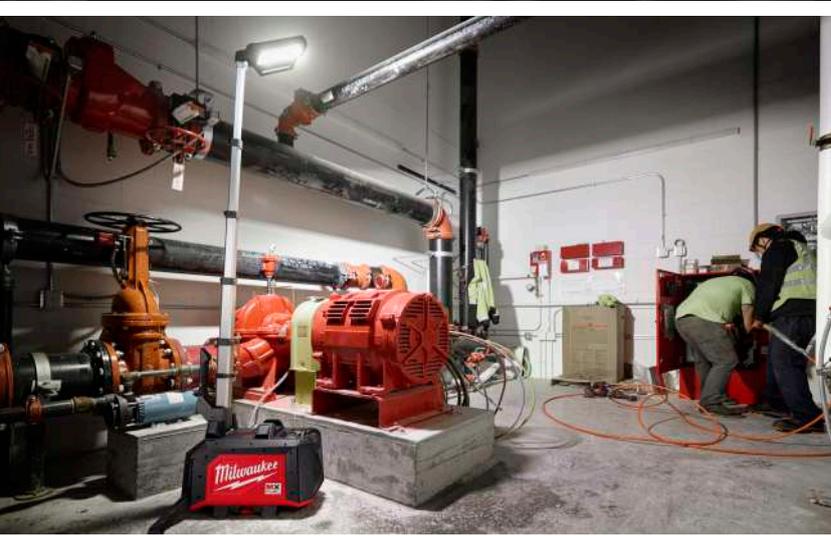
48-35-1511

- Quick Release Clamp: Setup Anywhere
- 3.6m extension Floor to Ceiling Set-Up



# LIGHTING

Personal Lighting, Task Lighting, Area Lighting



# LIGHTING APPLICATION TYPES

## PERSONAL LIGHTING



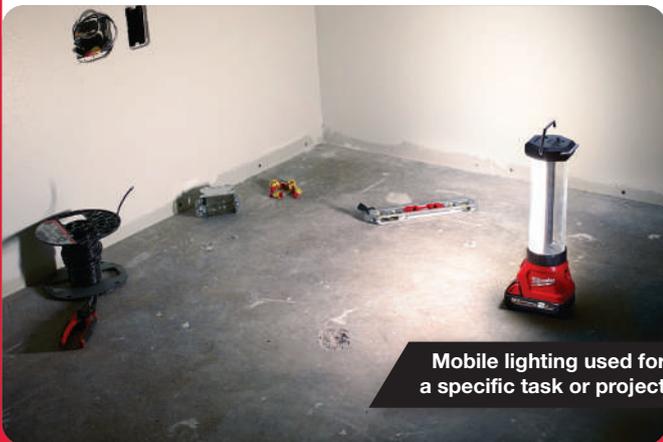
Extremely compact lights meant to be held or worn on your person

## HANDHELD LIGHTING



Handheld lights used for scanning and inspecting

## TASK LIGHTING



Mobile lighting used for a specific task or project

## AREA LIGHTING



Stationary lighting used to light a full workspace

## SPECIALITY LIGHTING



Innovative lights optimized for specific applications

## HIGH OUTPUT LIGHTING

ADAPTS. PERFORMS. SURVIVES.



Nothing but **HEAVY DUTY**™

# TRUEVIEW™

## HIGH OUTPUT LIGHTING

### All of Milwaukee's Lighting Solutions Include TRUEVIEW™ Technology

Milwaukee™ uses the high quality LEDs and Optics to provide TRUEVIEW™ Lighting that gives users the brightness and clarity without distorting colors. The lights keep a neutral color temperature to provide the accurate and clear lighting environment for any application.



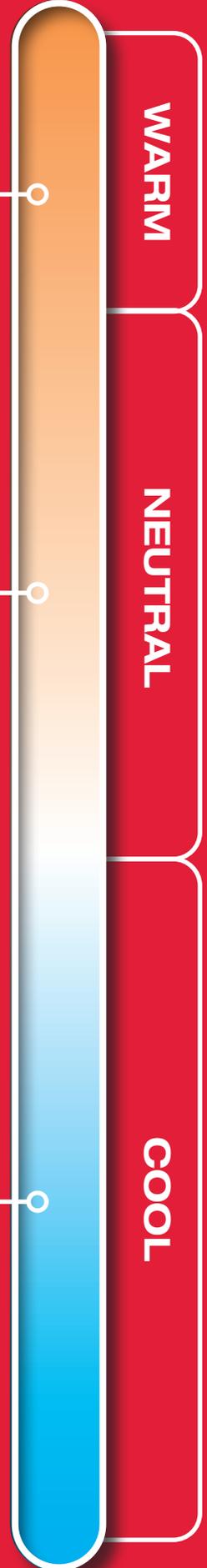
- Halogen Light
- Yellow Color



- Natural Color
- True Representation of Color & Detail



- Blue Tint
- Distorts Color & Detail

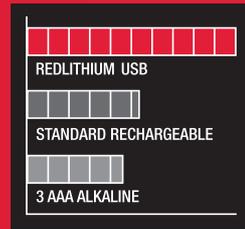


MILWAUKEE™ delivers the industry's first line of trade focused, high performance personal lights designed to **ADAPT, PERFORM AND SURVIVE**. Built to withstand the toughest conditions on and off the jobsite, Milwaukee™ lights combine the cordless battery and LED technology delivering convenient, portable solutions that increase productivity and safety.



5/29/2025

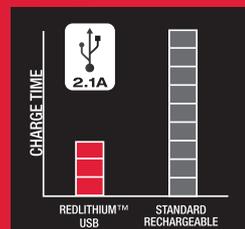
**POWERED BY**



**ALL DAY  
RUN-TIME\***



**OVER  
2,000  
RECHARGES**



**FASTER\*\*  
CHARGE TIME**

\*Dependent on mode selection and based on 10 hour work day  
\*\*Compared to 0.5a charge rate



**REDLITHIUM USB RECHARGEABLE ACCESSORIES**

**CHARGE BATTERY VIA MICRO USB CORD**

In Product



**-OR-**

With Charger



**REDLITHIUM USB BATTERY**

L4B2



**REDLITHIUM USB CHARGER**

L4C

- External Charger for REDLITHIUM USB Battery
- Stores Battery When Not in Use



**REDLITHIUM USB CHARGER AND BATTERY STARTER KIT**

L4 NRG

# MX FUEL

## TOWER LIGHTS

### MX FUEL COMPACT TOWER LIGHT

MXF TLIC

**NEW**

- 15,000 Lumens of TRUEVIEW™ High-Definition Output
- Faster Set-up, Maximum Portability
- 3 Hours on High, Plug in for All Day Use



Voltage	72V
Modes	High / Medium / Low
Output (lumen)	15000 / 8000 / 5000
Runtime (6.0 Ah)	3 hrs / 6 hrs / 10 hrs
Head Rotation	270° x 180°
AC (V)	100 - 240
PACKOUT™ Compatibility	Yes
Max. Height (cm)	229
IP Rating	IP56



### MX FUEL TOWER LIGHT

MXF TL

- Four Multi-directional LED light heads enable users to direct light where needed for task or area lighting
- 27,000 Lumens of High Definition Output in AC Mode and 20,000 Lumens in DC Mode



Voltage	72V
Modes	High / Medium / Low
Output (lumen)	AC: 27000 / 14000 / 7000 DC: 20000 / 10000 / 5000
Runtime	3hrs / 6hrs / 10hrs
Max. Height (cm)	310
AC (V)	100 - 240
Intergrated Charging	Yes
IP Rating	IP55

# M18

## STAND LIGHTS

### M18 HIGH OUTPUT STAND AREA LIGHT / CHARGER

M18 HOSALC

- 6,000 Lumens of TRUEVIEW™ High Definition Output
- Up to 10 hours of runtime on M18 8.0Ah battery
- AC Plug-in for Integrated M18 Charger



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	6000 / 4000 / 1700
Runtime (8.0 Ah)	3.5 hrs / 5 hrs / 10 hrs
Max. Height (cm)	213
Collapsed Height (cm)	122
AC (V)	100-240
Intergrated Charging	Yes
Weight without Battery Pack (kg)	9.6

### M18 LED REMOTE STAND LIGHT

M18 ONERSAL

- 5,400 Lumens of TRUEVIEW™ High definition lighting
- Up to 26 hours of Runtime (w/ 2 x 9.0Ah)
- IP67 Rated: Waterproof



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	5400 / 3100 / 1600
Runtime (2x9.0 Ah)	7 hrs / 12.5 hrs / 26 hrs
Head Rotation	220° Vertical 220° Horizontal
Max. Height (cm)	165
Collapsed Height (cm)	50
IP Rating	IP67
Weight without Battery Pack (kg)	8.7

### M18 LED STAND LIGHT

M18 SAL2

- 2,800 Lumens of TRUEVIEW™ High definition lighting
- Over 13 Hours of Run-Time
- Impact resistant adjustable head



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	2800 / 1300 / 680
Runtime (5.0 Ah)	4.5 hrs / 8.5 hrs / 13.5 hrs
Max. Height (cm)	220
Head Rotation	230° Vertical, 240° Horizontal
IP Rating	IP54



**AREA LIGHTS**

**M18 SERVICE AREA LIGHT**  
M18 ALIS

**NEW**

- 1,000 Lumens of TRUEVIEW™ High-Definition Output
- USB-A (12W) & USB-C (27W) Charging Ports for Small Devices
- Most Compact M18 Flood Light Solution



Voltage	18V
Modes	High / Medium / Low / Extra Low
Output (lumen)	1000 / 500 / 250 / 85
Runtime (5.0 Ah)	12 hrs / 22 hrs / 42 hrs / 110 hrs
Power Out	USB-A (12W) USB-C (27W)
Head Rotation	300° x 180°
Drop Rating	2.7M

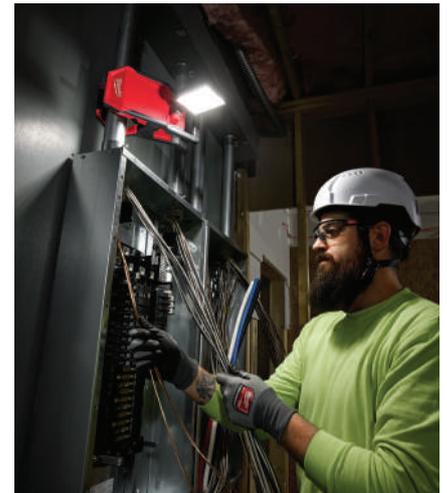
**M18 PIVOTING AREA LIGHT G2**  
M18 PAL2

**NEW**

- 2,000 Lumens of TRUEVIEW™ High-Definition Output
- Up to 3-inch Multi Material Clamp Opening
- Up to 6 Hours of Run-Time on High and 24 Hours on Low Mode with M18 5.0 Battery



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	2000 / 1000 / 500
Runtime (5.0 Ah)	6 hrs / 12 hrs / 24 hrs
Head Rotation	355° x 170°
3 Inches Jaw Opening	1" Outer Diameter Pipes 3" Outer Diameter Pipes 2" Thickness Lumber Steel Stud



**M18 MULTI-DIRECTIONAL TASK LIGHT**  
M18 MDTL

**NEW**

- 4,500 Lumens of TRUEVIEW™ High-Definition Output
- 3 Individual Light Heads for Optimal Lighting Coverage
- Up to 9 Output Modes to Manage Output or Run-Time



Voltage	18V
Modes	All Lights: High, Medium, Low Outer Lights: High, Medium, Low Middle Light: High, Medium, Low
Output (lumen)	4500 / 2000 / 1,200 3000 / 1300 / 800 1500 / 650 / 400
Runtime (5.0 Ah)	3 hrs / 6 hrs / 11 hrs 4 hrs / 9 hrs / 16 hrs 8 hrs / 18 hrs / 30 hrs
Head Rotation	270° x 270°
AC (V)	100 - 240
Drop Rating	2.7M

**M18 HIGH PERFORMANCE AREA LIGHT**  
M18 HOAL

- 4,000 Lumens of Area and Overhead Lighting
- Up to 12 hours of runtime
- 120° light head for upwards and downwards lighting



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	4000 / 2000 / 1200
Runtime (5.0 Ah)	3 hrs / 6 hrs / 12 hrs
Head Rotation	120°
AC (V)	100-240
Weight without Battery Pack (kg)	2.6

**M18 PACKOUT™ LIGHT / CHARGER**  
M18 POALC

- 3000 Lumens of TRUEVIEW™ High-Definition Output
- Three Individual Light Heads for Task or Area Lighting
- Nine Total Output Modes to Manage Output or Run-Time



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	3000 / 1500 / 1000
Runtime (5.0 Ah)	4 hrs / 8 hrs / 12 hrs
AC (V)	110-240
Integrated Charging	Yes
Weight without Battery Pack (kg)	5.5

**M18 LED LANTERN LIGHT**  
M18 LL

- 700 Lumens of High Definition Output
- 180° - 360° Adjustable Beam
- 2.1A USB Charger for Cell Phones and Other Electronic Device



Voltage	18V
Modes	High / Medium / Low Strobe
Output (lumen)	700 / 350 / 70 / 700
Runtime (5.0 Ah)	10 hrs / 20 hrs / 100 hrs / 16 hrs
Head Rotation	180° x 360°
USB Charger	2.1A
Hands-free	2 Stainless Steel Hooks
IP Rating	IP54
Weight without Battery Pack (kg)	0.5

**M18 LED AREA LIGHT**  
M18 AL

- 1,500 Lumens of Area and Overhead Lighting
- Up To 10 hours of run-time
- Multiple Hanging Features



Voltage	18V
Modes	High / Low
Output (lumen)	1500 / 780
Runtime (5.0 Ah)	5 hrs / 10 hrs
Hands-free	Keyhole Hanger, EMT Hanger
Weight without Battery Pack (kg)	1.5

**M18 LED TASK / AREA LIGHT**  
M18 TAL

- 2,200 Lumens of Area and Overhead Lighting
- Dual Function: 360° Area Lighting, 90° Flood Lighting
- High Impact Polycarbonate Lens



Voltage	18V
Modes	High / Medium / Low
Output Area Mode (lumen)	2200 / 1100 / 550
Output Flood Mode (lumen)	100 / 500 / 250
Runtime (5.0 Ah)	4 hrs / 8 hrs / 16 hrs
Weight without Battery Pack (kg)	2.5

**HANDHELD LIGHTS**

**M18 LED SEARCH LIGHT**  
M18 SLED

- 1250 Lumens of High Definition Output
- Over 650m Beam Distance
- 198° Rotating Head



Voltage	18V
Modes	Spot-Flood / Flood / Spot / Strobe
Output (lumen)	1250 / 1200 / 600 / 1200
Runtime (5.0 Ah)	4 hrs / 4 hrs / 7 hrs / 5 hrs
Head Rotation	198°
Beam Distance (m)	650
IP Rating	IP54
Weight without Battery Pack (kg)	0.4



**M18 LED TORCH**  
M18 TLED

- Runs Longer
- 135° Rotating Head for Flexible, Focused Illumination
- Integrated Hook for Hanging



Voltage	18V
Modes	High
Output (lumen)	100
Runtime (5.0Ah)	29 hrs
Head Rotation	135°
Hands-free	Integrated Hook
IP Rating	IP54
Weight without Battery Pack (kg)	0.7

**OTHER LIGHTING SOLUTIONS**

**M18 LED UTILITY LIGHT**  
M18 UBL

- 2,500 Lumens of High Definition Output
- Over 450m Beam Distance
- IP56 Rated: Waterproof and Dustproof



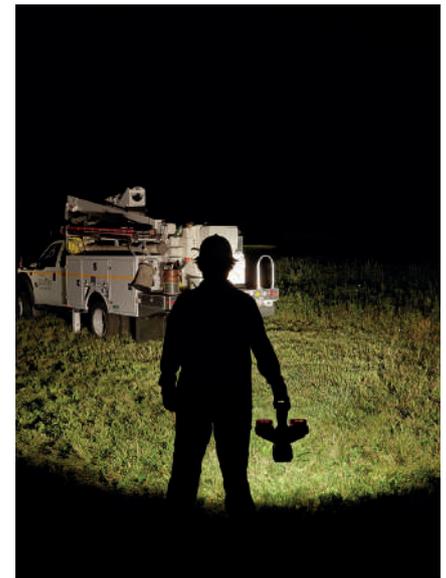
Voltage	18V
Modes	Flood / Spot-Flood / Spot
Output (lumen)	2500 / 2200 / 800
Runtime (5.0 Ah)	4 hrs / 4 hrs / 6 hrs
Head Rotation	180° Vertical 180° Horizontal
Hands-free	Spring-loaded Clamp
Beam Distance (m)	450
IP Rating	IP56
Weight without Battery Pack (kg)	4.8

**M18 BOOM LIGHT**  
M18 ABL

- 2,500 Lumens of TRUEVIEW™ High definition lighting
- 3 Output modes to manage Brightness and Runtime
- Up to 4.5 hours of Run-Time on HIGH with (1) M18™ 5.0 Battery



Voltage	18V
Modes	High / Medium / Low
Output (lumen)	2500 / 1500 / 1000
Runtime (5.0 Ah)	4.5 hrs / 8.5 hrs / 12 hrs
Head Rotation	300°
Hands-free	Intergrated Magnets



**M12**

**AREA LIGHTS**

**M12 PIVOTING AREA LIGHT**

M12 PAL

- 700 Lumens of TRUEVIEW™ High Definition Output
- 2.1 AMP USB Output for Device Charging
- High Strength Magnetic Mounting in Service Environments



Voltage	12V
Modes	High / Low
Output (lumen)	700 / 250
Runtime (4.0 Ah)	8 hrs / 24 hrs
USB Charging Output (V/A)	5 / 2.1
IP Rating	IP54
Weight without Battery Pack (kg)	0.3

**M12 PACKOUT AREA LIGHT**

M12 POAL

- 1400 Lumens of TRUEVIEW™ High-Definition Output
- PACKOUT™ Compatible
- Up to 4 hours of Run-Time on HIGH



Voltage	12V
Modes	High / Medium / Low
Lumens	1400 / 700 / 350
Runtime (6.0Ah)	6 hrs / 9 hrs / 17 hrs
Runtime (4.0Ah)	4 hrs / 7 hrs / 12 hrs



**M12 LED LANTERN LIGHT**

M12 LL

- 400 / 700 Lumens of High Definition Output
- 180° - 360° Adjustable Beam
- 2.1A USB Charger for Cell Phones and Other Electronic Device



Voltage	12V
Modes	High / Medium / Low / Strobe
Output (lumen)	400 / 200 / 40 / 400
Runtime (4.0 Ah)	8 hrs / 15 hrs / 67 hrs / 16 hrs
Head Rotation (°)	180° x 360°
USB Charger	2.1A
Hands-free	2 Stainless Steel Hooks
IP Rating	IP54
Weight without Battery Pack (kg)	0.4

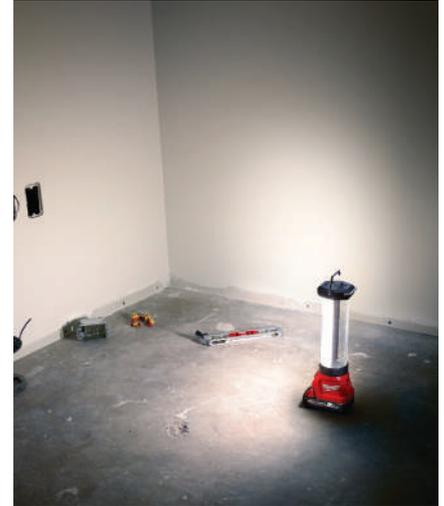
**M12 LED AREA LIGHT**

M12 AL

- 1000 Lumens of TRUEVIEW™ High Definition Output
- Multiple Hanging Features
- 3 Light Output Modes



Voltage	12V
Modes	High / Medium / Low
Output (lumen)	1000 / 400 / 200
Runtime (4.0 Ah)	3.5 hrs / 7.5 hrs / 15 hrs
Hands-free	Integrated Magnets, Spring Loaded Clamp, Key Hole Hanger, Wire Hanger
IP Rating	IP54
Weight without Battery Pack (kg)	1.0



**AUTOMOTIVE LIGHTING**

**M12 LED UNDERHOOD LIGHT**

M12 UHL

- 1350 Lumens of High Definition Output
- MILWAUKEE's FINISHGUARD hooks provide lasting protection against scratches to a vehicle's
- 2X more gripping surface for maximum hold finish



Voltage	12V
Modes	High / Low
Output (lumen)	1350 / 600
Runtime (4.0 Ah)	4 hrs / 8 hrs
Hands-free	FINISHGUARD Hooks, Stainless Steel Hook
IP Rating	IP54
Weight without Battery Pack (kg)	1.1

**M12 UNDERCARRIAGE LIGHT**

M12 UCL

- 1200 Lumens of TRUEVIEW™ High-Definition Output
- 3 Modes to Manage Output and Run-time



Voltage	12V
Mode	High / Medium / Low
Lumens	1200 / 800 / 600
Runtime (4.0 Ah)	5 hrs / 8 hrs / 15 hrs
Rotation	Vertical 180° Horizontal 300°
Weight without Battery Pack (kg)	1.27

**M12 PAINT AND DETAILING COLOR MATCH LIGHT**

M12 CML

- 1000 Lumens to Illuminate Metallics in Paint and Identify Scratches
- 5 Color Temperatures for the Full Spectrum of Sunlight



Voltage	12V
Output (lumen)	1000 / 600 / 300
Runtime (4.0Ah)	6 hrs / 8 hrs / 14 hrs
Color Temp.	5
IP Rating	IP54

## HANDHELD LIGHTS

### M12 LED SPOT LIGHT M12 SLED

- 750 Lumens of High Definition Output
- 640m Beam Distance
- Dual Function Trigger for Momentary or Lock-On Use



Voltage	12V
Modes	High / Low / Strobe
Output (lumen)	750 / 400 / 750
Runtime (4.0 Ah)	4 hrs / 8 hrs / 8 hrs
Beam Distance (m)	640
IP Rating	IP54
Weight without Battery Pack (kg)	0.6

### M12 LED TORCH M12 TLED

- Runs Longer on a Single Charge
- Designed for impact- and weather-resistant durability



Voltage	12V
Modes	High
Output (lumen)	100
Runtime (4.0 Ah)	15 hrs
Head Rotation	90°
Hands-free	Integrated Magnet
IP Rating	IP54
Weight without Battery Pack (kg)	0.4

### M12 LED STICK LIGHT M12 SL

- 220 Lumens with Even Modes
- Multi-Position Hook
- Impact and Chemical Resistant Lens



Voltage	12V
Modes	High
Output (lumen)	220
Runtime (4.0 Ah)	11 hrs
Hands-free	Multi-position
Stainless Steel Hook	5
Weight without Battery Pack (kg)	0.2

## REDLITHIUM USB RECHARGEABLE

### FLOOD LIGHTS

#### REDLITHIUM USB RECHARGEABLE PERSONAL FLOOD LIGHT L4 FL

- 445 Lumens of TRUEVIEW™ High Definition Output
- Dual Magnet Clip for Hanging in any Orientation
- Impact and Chemical Resistant Lens



Voltage	4V
Modes	High / Low
Output (lumen)	445 / 100
Runtime (3.0Ah)	2.5 hrs / 12.5 hrs
IP Rating	IP52

#### REDLITHIUM USB RECHARGEABLE FOLDING FLOOD LIGHT L4 FFL

- 550 Lumens of TRUEVIEW™ High Definition Output
- More versatility
- Folds up compact for easy storage in a pocket



Voltage	4V
Modes	Flood High / Med / Low
Output (lumen)	550 / 250 / 100
Runtime (3.0Ah)	2.5 hrs / 6 hrs / 13.25 hrs
IP Rating	IP54

#### INTERNAL RECHARGEABLE FOLDING FLOOD LIGHT IR FFL

- 500 Lumens of TRUEVIEW™ High Definition Output
- Adaptive Mounting
- Infinite Light Head Mobility



Voltage	3.8V
Modes	High / Medium / Low
Output (lumen)	500 / 250 / 100
Runtime	4 hrs / 8 hrs / 12 hrs
Head Rotation	360°
Charging Time	4.25 hrs
USB Input	5 V DC, 3 A
IP Rating	IP54

## PERSONAL LIGHTING

#### REDLITHIUM USB RECHARGEABLE STICK LIGHT W/ MAGNET L4 SL550

- 550 Lumens of TRUEVIEW™ High-Definition Output
- 2 Hours of Run-Time on High on (1) RLUSB 3.0 Battery



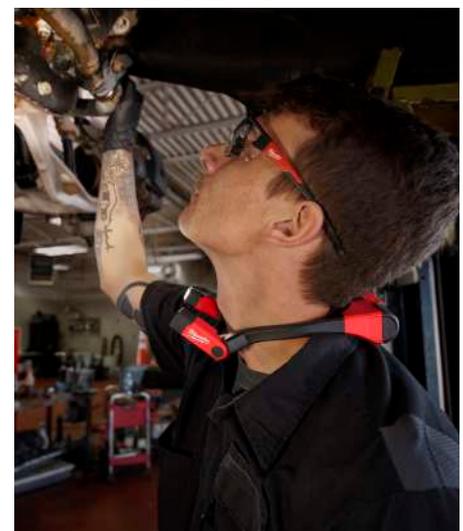
Voltage	4V
Modes	High / Low / Spot Mode High / Spot Mode Low
Output (lumen)	550 / 250 / 250 / 100
Runtime (3.0Ah)	2 hrs / 4.5 hrs / 2 hrs / 5 hrs
Charger Type	USB-C
Charger Time	120 min
USB-C Input	5V DC, 0.1A- 2.1A
IP Rating	IP52

#### REDLITHIUM USB RECHARGEABLE NECK LIGHT L4 NL400

- 400 Lumens of TRUEVIEW™ High-Definition Output
- Up to 8 hours of Run-Time on (1) RLUSB 3.0 Battery



Voltage	4V
Modes	High / Low
Output (lumen)	400 / 250
Runtime (3.0Ah)	2.5 / 8 hrs
Charger Type	USB-C
Charger Time	120 min
USB-C Input	5V DC, 0.1A- 2.1A
IP Rating	IP50



## STAND LIGHT

### M12 LED STAND LIGHT M12 SAL

- 1000 Lumens of TRUEVIEW High Definition Output
- Multiple Hanging Features
- 3 Light Output Modes



Voltage	12V
Modes	High / Low
Output (lumen)	1400 / 700
Runtime (6.0Ah)	4 hrs / 10 hrs
Head Rotation (°)	210 Vertically, 270 Horizontally
Max. Height (cm)	170
Collapsed Height (cm)	80
Weight without Battery Pack (kg)	3.1



## FLASHLIGHTS

### REDLITHIUM USB RECHARGEABLE PIVOTING WORK LIGHT L4 PWL

- 500 Lumens Spot & Flood beam of TRUEVIEW High-Definition Output
- Spot & Flood Beam Options in Different Output Modes for Optimal Brightness



Voltage	4V
Modes	Spot Beam / Flood High / Flood Low
Output (lumen)	500 / 400 / 100
Runtime (3.0Ah)	3.5 hrs / 3.5 hrs / 11.75 hrs
Beam Distance (m)	155

### REDLITHIUM USB RECHARGEABLE 1100L TWIST FOCUS FLASHLIGHT L4 TMLD

- 1100 Lumens of High Definition Output
- 175M Beam Distance for Seeing at a Distance
- Multiple Modes To Optimize Brightness and Runtime



Voltage	4V
Modes	High / Medium / Low
Output (lumen)	1100 / 600 / 100
Runtime (3.0Ah)	1.5 hrs / 4 hrs / 12 hrs
IP Rating	IP67
Beam Distance (m)	175

### REDLITHIUM USB RECHARGEABLE 800L COMPACT FLASHLIGHT L4 FMLD

- 800 Lumens of TRUEVIEW™ High Definition Flood Output
- 150M Beam Distance for Seeing at a Distance
- Multiple Modes To Optimize Brightness and Runtime



Voltage	4V
Modes	High / Low
Output (lumen)	800 / 100
Runtime (3.0Ah)	2.5 hrs / 10 hrs
IP Rating	IP67
Beam Distance (m)	150

### REDLITHIUM USB RECHARGEABLE COMPACT FLASHLIGHT L4 MLED

- 700 Lumens of TRUEVIEW™ High Definition Output
- IP67 Rated: Waterproof and Dust Proof
- Spot-Flood Sliding Beam Adjustment



Voltage	4V
Modes	High / Low / Strobe
Output (lumen)	700 / 100 / 700
Runtime (3.0Ah)	4.5 hrs / 16 hrs / 9 hrs
IP Rating	IP67
Beam Distance (m)	155

### REDLITHIUM USB RECHARGEABLE SLIDE FOCUS FLASHLIGHT L4 FL2000

- Up to 2,000 Lumen at Boost Mode
- 200M Beam Distance for Seeing at a Distance
- 4 Output Modes To Optimize Brightness and Runtime



Voltage	4V
Modes	Boost / High / Medium / Low
Output (lumen)	2000 / 1300 / 800 / 100
Runtime (3.0Ah)	- / 4 hrs / 8 hrs / 24 hrs
Charger Type	USB-C
Charge Time	120 min
USB-C Input	5V DC, 0.1A-2.1A
IP Rating	IP66



## HEADLAMPS

REDLITHIUM USB RECHARGEABLE  
LOW-PROFILE HEADLAMP

L4 HLRP

- 600 Lumens of High Definition Flood Output
- Low Profile Light Head for All Day Comfort
- Wire Protection



Voltage	4V
Modes	Flood High / Medium / Low / Eco
Output (lumen)	600 / 350 / 125 / 25
Runtime (3.0Ah)	3 hrs / 7.5 hrs / 13 hrs / 28 hrs
IP Rating	IP54
Beam Distance (m)	100

REDLITHIUM USB RECHARGEABLE  
HI-VIS HARD HAT LAMP

L4 HLVIS

- 600 Lumens of TRUEVIEW™ High Definition Output
- 125M Beam Distance in Spot and Wide Flood Mode
- Visible up to 400M



Voltage	4V
Modes	Hybrid / Flood High / Flood Medium / Flood Low / Spot High
Output (lumen)	600 / 400 / 150 / 25 / 400
Runtime (3.0Ah)	2.5 hrs / 4.5 hrs / 8.5 hrs / 22 hrs / 4.5 hrs
Beam Distance (m)	125

REDLITHIUM USB RECHARGEABLE  
HARD HAT HEADLAMP

L4 HL2

- 600 Lumens Of TRUEVIEW™ High-definition Output
- Up to 20 Hours of Run-Time
- 180° of Light Head Mobility for Precision Light Positioning



Voltage	4V
Modes	Hybrid / Spot Low / Spot High / Flood Low / Flood High
Output (lumen)	600 / 100 / 400 / 100 / 400
Runtime (3.0Ah)	2 hrs / 4 hrs / 8 hrs / 20 hrs / 4 hrs
Beam Distance (m)	125

## INTERNAL RECHARGEABLES

INTERNAL RECHARGEABLE  
HEADLAMP 450 LUMENS

IR HL450

- 450 Lumens of TRUEVIEW High Definition Output
- Detachable, Magnetic Task Light
- Multiple Modes to Manage Output and Runtime



Voltage	3.7V
Modes	Hybrid / Spot Low / Spot High / Flood Low / Flood High
Output (lumen)	450 / 100 / 250 / 50 / 250
Runtime	2.5 hrs / 8 hrs / 4 hrs / 14 hrs / 4 hrs
Charging Time (h)	2
IP Rating	IP54
Weight (g)	120

INTERNAL RECHARGEABLE  
PENLIGHT 250 LUMENS

IR PL250

- 250 Lumens of TRUEVIEW High Definition Output
- Faster and More Accurate Inspections
- IP67 Rated - Dustproof and Water Resistant



Voltage	3.7V
Modes	High / Low
Output (lumen)	250 / 50
Runtime	1.5 hrs / 8 hrs
Charging Time (h)	2
IP Rating	IP67
Weight (g)	60

INTERNAL RECHARGEABLE  
FLASHLIGHT 500 LUMENS

IR FL500

- 500 Lumens of TRUEVIEW High Definition Output
- Magnetic Attachment for Hands-Free Use and Storage
- IP67 Rated - Dustproof and Water Resistant



Voltage	3.7V
Modes	High / Med / Low
Output (lumen)	500 / 100 / 10
Runtime	3.5 hrs / 16 hrs / 40 hrs
Charging Time (h)	4
IP Rating	IP67
Weight (g)	100

## NON RECHARGEABLE

ALKALINE  
SPOT / FLOOD HEADLAMP

HL-SF

- 450 Lumens of TRUEVIEW High Definition Output
- 100m Beam Distance in Spot Mode
- Multiple Modes To Optimize Brightness and Runtime



Modes	Spot / Flood High / Medium / Low / Spot High
Output (lumen)	450 / 350 / 150 / 25 / 350
Runtime (3.0Ah)	2 hrs / 4 hrs / 10 hrs / 26 hrs / 4 hrs
Beam Distance (m)	100

INTRINSICALLY SAFE  
HEADLAMP

ISHL-LED

- 310 Lumens of TRUEVIEW High Definition Output
- Dual Lock Adhesive Rubber and Nylon Strap
- IP64 Rated - Dustproof and Water Resistant



Voltage	4.5V
Mode	Flood / Spot / Hybrid
Output (lumen)	235 / 155 / 310
Runtime	6 hrs / 8 hrs / 4 hrs
IP Rating	IP64
Weight (g)	150

ALKALINE  
INSPECTION PEN LIGHT

IPL-LED

- 100 Lumens of High Definition Output
- 43m Beam Distance
- IP67 Rated: Waterproof and Dustproof



Modes	High
Output (lumen)	100
Runtime	3 hrs
IP Rating	IP67
Beam Distance (m)	43



## AUDIO

### M18 JOBSITE SPEAKER

M18 JSSP

**NEW**

- Full Range Sound
- Jobsite Versatility
- Feature Set



Voltage	18V
Wattage	44 W
Bluetooth® Version	5.3
Maximum Transmission Range	60 m
Run Time ( 5.0 Ah)	18 hrs
USB Output	5.0 V / 3 A



### M12 BLUETOOTH JOBSITE SPEAKER W/ PACKOUT COMPATIBILITY

M12 SPEJSG2

**NEW**

- Clear Portable Sound
- Jobsite Versatility
- Updated Technology



Voltage	12V
Wattage	30 W
Bluetooth® Version	5.3
Maximum Transmission Range	60 m
Run Time ( 4.0 Ah)	10 hrs
USB Output	5.0 V / 3 A
PACKOUT Compatibility	YES

### M18 PACKOUT RADIO + CHARGER

M18 PRC

- Ultimate Jobsite Sound System
- PACKOUT Modularity
- Built for Jobsite



Voltage	18V
Run Time (5.0Ah)	3 hrs
Wattage	90 W
M18 Battery Charge Current (A)	3.5
USB Charging Output (V/A)	2.1
Weight (kg)	10.5

### M12 RADIO + CHARGER

M12 RC

- 2X Louder than M12 Cordless Radio
- Fully Feature M12 Speaker
- Most Portable Solution



Voltage	12V
Run Time (2.0Ah)	10 hrs
Wattage	9.6 W
IP Rating	54
USB Charging Output (V/A)	2.1
Weight (kg)	1.7



## AIR FANS

### M18 PACKOUT AIR FAN

M18 AFG2

**NEW**

- Faster 18V Fan
- Brushless motor For Increased Life
- Easy Transportation & Connect With PACKOUT



Voltage	18V
Blade Diameter	177 mm
Max Air Flow (m³/h)	1444
Max. Velocity (m/min)	549
Run Time (5.0 Ah)	19%: 80 hrs 50%: 13.5 hrs 75%: 6.5 hrs 100%: 3 hrs
Rotation	300°
PACKOUT Compatibility	YES
AC	100-240 V

### M18 HIGH VELOCITY AIR FAN

M18 ARFHP

**NEW**

- Corded Performance
- Durable and Lightweight
- Total Mobility and Storage



Voltage	18V
Blade Diameter	457 mm
Air Flow I (m³/h)	3058
Air Flow II (m³/min)	4075
Air Flow III (m³/h)	5775
Max. Velocity (m/min)	362
Run Time (5.0Ah)	2 hrs / 5 hrs / 9 hrs
Rotation	360°
AC	100 - 240 V

### M12 MOUNTING FAN

M12 AF

- Air Speed up to 22.5 KPH
- Adapt to Various Jobsite Environment
- Ergonomic and Durable Cooling Solution



Voltage	12V
Blade Diameter	152 mm
Air Flow I (m³/h)	300
Air Flow II (m³/h)	450
Air Flow III (m³/h)	680
Max. Velocity (m/min)	375
Run Time (3.0Ah)	2 hrs / 5 hrs / 17 hrs
Rotation	360°



**M12**

**M12 BLACK HEATED JACKET**  
M12 HPJBL2

- Advanced Heat Technology
- Improved Durability & Construction
- Up to 12 Hours of Run-Time



Voltage	12V
Color	Black
Size	X - M - L - XL
Heat Zones	Chest - Back - Shoulder
Heat Settings	High, Medium, Low
Body Material	Polyester
Inner Material	Polyester
Runtime (h)	3 / 6 / 12

**M12 BLACK HEATED VEST**  
M12 HPVBL2

- Advanced Heat Technology
- Improved Durability & Construction
- Up to 8 Hours of Run-Time



Voltage	12V
Color	Black
Size	X - M - L - XL
Heat Zones	Chest - Back
Heat Settings	High, Medium, Low
Body Material	Polyester
Inner Material	Polyester
Runtime (h)	2 / 4 / 8

**M12 BLACK HEATED HOODIE**  
M12 HHBL4

- Advanced Heat Technology
- Optimized Construction
- Up to 8 Hours of Run-Time



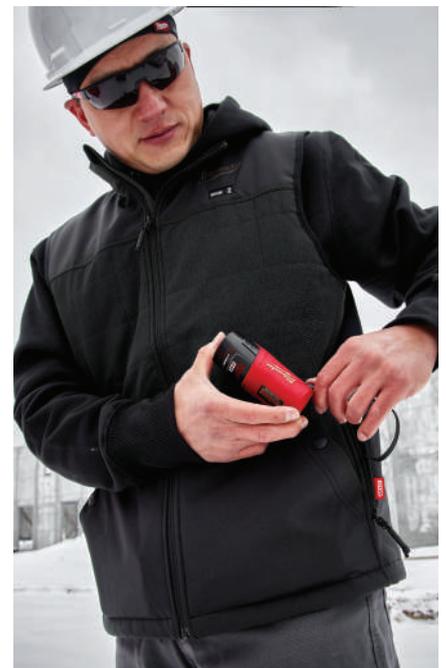
Voltage	12V
Color	Black
Size	X - M - L - XL
Heat Zones	Chest - Back
Heat Settings	High, Medium, Low
Body Material	Cotton / Polyester
Inner Material	Cotton / Polyester
Runtime (h)	2 / 4 / 8

**M12 RED HEATED HOODIE**  
M12 HHRED4

- Advanced Heat Technology
- Optimized Construction
- Up to 8 Hours of Run-Time



Voltage	12V
Color	Red
Size	X - M - L - XL
Heat Zones	Chest - Back
Heat Settings	High, Medium, Low
Body Material	Cotton / Polyester
Inner Material	Cotton / Polyester
Runtime (h)	2 / 4 / 8





## TAPE MEASURES

### STUD TAPE MEASURES

- High density Nylon Coating wraps 360° around the blade
- Blade resists tearing from repetitive bending and fast blade retraction
- Fully Reinforced Body survives 24m drop



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
4932498763	5m STUD Tape Measure	33	4
4932498765	8m STUD Tape Measure	33	4
4932498764	5m/16ft STUD Tape Measure	33	4
4932498766	8m/26ft STUD Tape Measure	33	4
48-22-1436	10m/35ft STUD Tape Measure	33	4

### COMPACT MAGNETIC TAPE MEASURES

- 2-Sided printing for easy reading
- Impact-Resistant 5-Point Reinforced Frame
- Nylon Blade Protection Reduces Tape Tear



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
4932498768	5m Compact Magnetic Tape Measure	30	3.4
4932498770	8m Compact Magnetic Tape Measure	30	3.4
4932498769	5m/16' Compact Magnetic Tape Measure	30	3.4
4932498771	8m/26' Compact Magnetic Tape Measure	30	3.4

### COMPACT AUTOLOCK TAPE MEASURES

- Impact-Resistant 5-Point Reinforced Frame
- Auto-Lock Easily Locks Blade In Place
- Nylon Blade Protection



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
4932498772	5m Compact Autolock Tape Measure	25	2.8
4932498774	8m Compact Autolock Tape Measure	25	2.8
48-22-1817	5m/16ft Compact Autolock Tape Measure	25	2.8
48-22-1826	8m/26ft Compact Autolock Tape Measure	25	2.8

### COMPACT TAPE MEASURES

- Impact Resistant 5-Point Reinforced Frame
- Finger Stop for comfortable hold and finger protection when blade retracts



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
4932498778	5m Compact Tape Measure	25	2.8
4932498780	8m Compact Tape Measure	25	2.8

### SLIMLINE TAPE MEASURES

- Very Compact And Improved Ergonomic Design
- Nylon Coated Blade Protection Against Debris, Dirt And Water.
- ABS Housing With Softgrip Rubber Gripping Area For Extra Comfort And Jobsite Durability



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
48227703	3m Slimline Tape Measure	16	2
48227705	5m Slimline Tape Measure	25	2
48227708	8m Slimline Tape Measure	25	2

### MAGNETIC TAPE MEASURE WITH LED LIGHT

- 100 Lumens LED Light, To Illuminate Up To 3 M Work Area
- Strong Magnet At Start Of The Tape Allows Easy Hooking Onto Flat Surfaces And Round Pipe
- Finger Stop For Comfortable Hold And Finger Protection When The Blades Retracts



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)	STANDOUT (m)
4932492469	7.5m Magnetic Tape Measure with LED Light	30	4.5

### TAPE MEASURE WITH LED LIGHT

- 19 Lux Led Light: Helps Finding Measured Spot.
- Nylon Lacquer Blade Protection Against Debris, Dirt And Water
- Magnet On The Rear Side Of The Tape For Attaching To Metal Tool Boxes And Other Metal Surfaces



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)
48226602	3m/10ft Tape Measure with LED Light	21

### PREMIUM KEYCHAIN TAPE MEASURE

- 5-point reinforced frame for jobsite durability
- Nylon Blade protection for extreme tape durability against dust, dirt and water
- Compact design and over mold gripping area for extra comfort and durability



NEW

PART #	DESCRIPTION	BLADE WIDTH (mm)
48-22-1706	2m / 6ft Keychain Tape Measure	13
48-22-5507	2m Keychain Tape Measure	13

### FIBERGLASS OPEN REEL LONG TAPES

- GRIME GUARD Blade Wiper for Smoothest Retraction and to wick away jobsite contamination
- Reinforced 3:1 Planetary Metal Gears won't strip, increasing the life of the tool
- Dual Side Printing



PART #	DESCRIPTION
48-22-5330	30m/100' Fiberglass Open Reel Long Tape
48-22-5360	60m/200' Fiberglass Open Reel Long Tape
48-22-5310	100m/300' Fiberglass Open Reel Long Tape

## OTHER MEASURING TOOLS

### COMPOSITE FOLDING RULE

**NEW**

- Locks at 90°/180°
- Angle reference, rust free
- Wear resistant markings



### DIGITAL MEASURING WHEEL

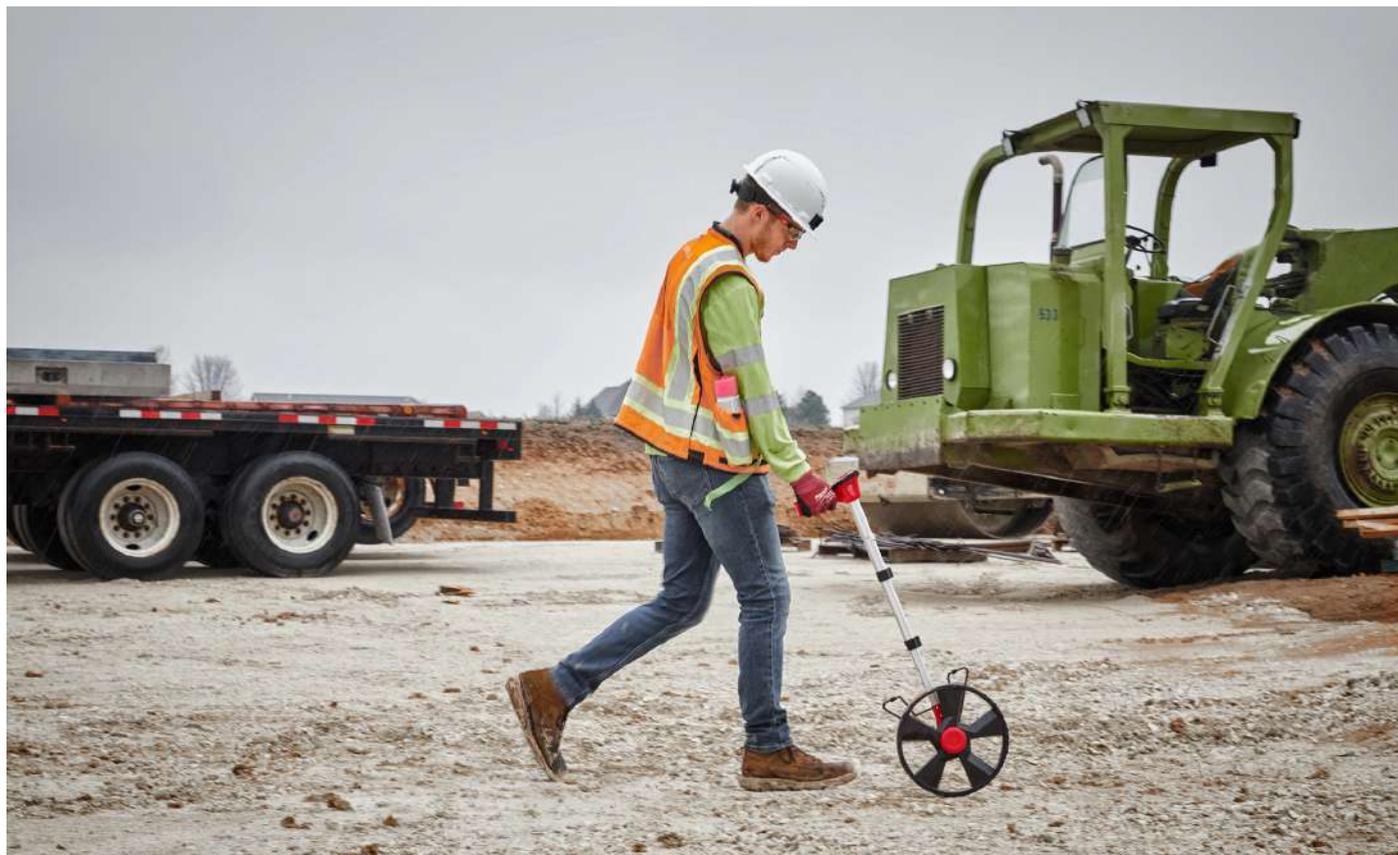
**NEW**

- IP54 Backlit LCD Screen
- Easy-to-Use Handle Mounted Controls
- Save & Store up to 4 Measurements with Memory Function



PART #	DESCRIPTION
4932459301	2m Composite Folding Ruler

PART #	DESCRIPTION
48-22-5112	12" Digital Measuring Wheel



## CHALK REELS AND ACCESSORIES

### CHALK AND REELS

- StripGuard Clutch
- Planetary Gear System
- Flush Handle Storage



PART #	DESCRIPTION	LINE THICKNESS (mm)
48-22-3980	30m (100ft) Bold Line Chalk Reel (Bare-Tool)	
48-22-3982	30m (100ft) Bold Line Kit w/ Blue Chalk	1.5
48-22-3986	30m (100ft) Bold Line Kit w/ Red Chalk	1.5
48-22-3989	30m (100ft) Bold Replacement Line	1.5
48-22-3990	30m (100ft) Precision Line Chalk Reel	
48-22-3992	30m (100ft) Precision Line Kit w/ Blue Chalk	0.9
48-22-3999	30m (100ft) Precision Replacement Line	0.9



## LEVELS

### REDSTICK BOX LEVELS

- Reinforced, strong and durable frame
- Sharpsite vial technology: best readability. Impact protected
- Overmolded, non-slip grips



PART #	DESCRIPTION
4932459061	REDSTICK Box Level 40cm Magnetic
4932459063	REDSTICK Box Level 60cm Magnetic
4932459065	REDSTICK Box Level 80cm Magnetic
4932459067	REDSTICK Box Level 100cm Magnetic
4932459069	REDSTICK Box Level 120cm Magnetic
4932459071	REDSTICK Box Level 180cm Magnetic
4932459073	REDSTICK Box Level 200cm Magnetic
4932459075	REDSTICK Box Level 240cm Magnetic
4932459060	REDSTICK Box Level 40cm Non-Magnetic
4932459062	REDSTICK Box Level 60cm Non-Magnetic
4932459064	REDSTICK Box Level 80cm Non-Magnetic
4932459066	REDSTICK Box Level 100cm Non-Magnetic
4932459068	REDSTICK Box Level 120cm Non-Magnetic
4932459070	REDSTICK Box Level 180cm Non-Magnetic
4932459072	REDSTICK Box Level 200cm Non-Magnetic
4932459074	REDSTICK Box Level 240cm Non-Magnetic
4932459680	End-caps for REDSTICK Box Level

### REDSTICK COMPACT BOX LEVELS

- SHARPSITE Vial Technology: Best readability. Impact protected
- Compact and durable frame
- Precision milled measuring surface guarantees accuracy in all working positions



PART #	DESCRIPTION
4932459078	REDSTICK Compact Box Level 40cm Non-Magnetic
4932459079	REDSTICK Compact Box Level 40cm Magnetic
4932459080	REDSTICK Compact Box Level 60cm Non-Magnetic
4932459081	REDSTICK Compact Box Level 60cm Magnetic
4932459082	REDSTICK Compact Box Level 80cm Non-Magnetic
4932459083	REDSTICK Compact Box Level 80cm Magnetic
4932459084	REDSTICK Compact Box Level 100cm Non-Magnetic
4932459085	REDSTICK Compact Box Level 100cm Magnetic
4932459086	REDSTICK Compact Box Level 120cm Non-Magnetic
4932459087	REDSTICK Compact Box Level 120cm Magnetic
4932459088	REDSTICK Compact Box Level 180cm Non-Magnetic
4932459089	REDSTICK Compact Box Level 180cm Magnetic
4932459681	End-caps for REDSTICK Compact Box level

### SLIM BOX LEVELS

NEW

- 2 solid acrylic vials. Shockproof and UV resistant.
- Precision milled measuring surface up to 120 cm provides maximum accuracy.
- Accurate to 0.029° (0.0005°/in, 0.5mm/m) in standard position.



PART #	DESCRIPTION
4932478897	20cm Magnetic Slim Box Levels
4932464854	40cm Magnetic Slim Box Levels
4932464855	60cm Magnetic Slim Box Levels
4932464856	100 cm Magnetic Slim Box Levels
4932464857	180 cm Magnetic Slim Box Levels
4932472091	20 cm Non-Magnetic Slim Box Levels
4932459090	40 cm Non-Magnetic Slim Box Levels
4932459091	60 cm Non-Magnetic Slim Box Levels
4932459092	80 cm Non-Magnetic Slim Box Levels
4932459093	100 cm Non-Magnetic Slim Box Levels
4932459094	120 cm Non-Magnetic Slim Box Levels
4932459095	180 cm Non-Magnetic Slim Box Levels
4932459590	200 cm Non-Magnetic Slim Box Levels

### I-BEAM LEVELS

NEW

- Lightweight reinforced aluminium frame.
- Pitch vial for easy reading of 1 and 2 degree pitch.
- Accurate to 0.029° (0.0005°/in, 0.5mm/m) in normal and reverse position.



PART #	DESCRIPTION
MLIBM24	60cm Magnetic I-Beam Level
MLIBM48	120cm Magnetic I-Beam Level
MLIBM78	200cm Magnetic I-Beam Level

### REDCAST DIE-CAST LEVELS

NEW

- 2 solid acrylic vials. Shockproof and UV resistant.
- 2 heavy duty cast aluminium anvil strike pads for trowel blows during tile work.
- Accurate to 0.029° (0.0005°/in, 0.5mm/m).



PART #	DESCRIPTION
4932459098	60cm Redcast Die-Cast Levels
4932459099	80cm Redcast Die-Cast Levels





### 360° POCKET LEVEL

- Amplified rare earth magnets for maximum holding power
- 360° adjustable vial for reading angles
- V-groove for leveling on pipes



PART #	DESCRIPTION
4932459597	360° Pocket Level



### POCKET LEVEL

- SHARPSITE™ pitch vial for easy reading of 1 and 2 degree pitch
- Amplified rare earth magnets for maximum holding power
- Optimized V-groove design for stability of rounded surfaces



PART #	DESCRIPTION
4932472122	Pocket Level



### PIPE LOCK LEVEL

- 270 degrees of vial visibility
- Non-removable thumb screw
- Compact Size



PART #	DESCRIPTION
48-22-5001	Pipe Lock Level



### MINI BOX LEVEL



PART #	DESCRIPTION
4932459100	Minibox level



### DIGITAL ANGLE GAUGE

- Amplified rare earth magnets for maximum holding power
- IP42 Rating protects against water and dust
- 0 to 90° and 0 to 180° Measurement Ranges



PART #	DESCRIPTION
4932493656	Digital Angle Gauge



### TORPEDO LEVEL

**NEW**

- 3 Rare earth magnetic for addition holding power
- High contrast vial surrounds increase visibility
- V-groove working edge fits on pipe and conduit



PART #	DESCRIPTION
48-22-5106	254mm (10") Torpedo Level

### BILLET TORPEDO LEVELS

- Maximized viewing area. Easy read slope in 1/8" or 1/4" per foot in either direction. Ensures that the user can make a fast and accurate readings of 1/8" and 1/4" per foot in any position
- Amplified rare earth magnets for maximum holding power
- Laser etched ruled edge for quick measurements on material



PART #	DESCRIPTION
48-22-5107	7" Billet Torpedo Level
48-22-5207	177mm Metric Billet Torpedo Level

### BLOCK TORPEDO LEVEL

- SHARPSITE™ vial technology improves the readability of the vial
- Amplified rare earth magnets for maximum holding power
- Locking 360° adjustable vial. Identify and repeat any angle needed on the jobsite. Lock vial in place to keep accuracy in and out of pocket/ pouch



PART #	DESCRIPTION
48-22-5210	254mm (10") Block Torpedo Level

### PIPE LOCK BILLET TORPEDO LEVEL

- Impact-resistant vials that display angles of 0°, 30°, 45°, and 90°
- Non-removable thumb screw prevents screw from getting lost
- Amplified rare earth magnets for maximum holding power



PART #	DESCRIPTION
48-22-5110	165mm (6.5") Pipe Lock Billet Torpedo Level

## INKZALL MARKERS

### INKZALL JOBSITE MARKERS

- Stays sharp, doesn't mushroom or push back under pressure
- Marker continues to write after 72+ hours of cap off time
- Can be used on wet, oily, dusty, rusty, with debris surfaces



PART #	DESCRIPTION
48-22-3100	36pc INKZALL Fine Point Black Jobsite Markers
48-22-3102	2pc INKZALL Medium Point Black Jobsite Markers
48-22-3103	1pc INKZALL Chisel Tip Black Jobsite Markers
48-22-3104	4pc INKZALL Fine Point Black Jobsite Markers
48-22-3105	2pc INKZALL Fine Point Black Jobsite Markers
48-22-3106	4pc INKZALL Fine Point Colored Jobsite Markers
48-22-3107	8pc INKZALL Fine Point Colored Jobsite Markers
48-22-3109	4pc INKZALL Chisel Tip Colored Jobsite Markers
48-22-3121	2pc INKZALL Fine Point Silver Jobsite Markers
48-22-3130	36pc INKZALL Chisel Tip Black Jobsite Markers
48-22-3150	12pc INKZALL Ultra Fine Point Black Jobsite Markers
48-22-3154	4pc INKZALL Ultra Fine Point Black Jobsite Markers
48-22-3170	36pc INKZALL Fine Point Red Jobsite Markers
48-22-3180	36pc INKZALL Fine Point Blue Jobsite Markers
48-22-3190	36pc INKZALL Fine Point Green Jobsite Markers

### INKZALL JOBSITE HIGHLIGHTERS

- Quick dry time
- Bleed and Smear Resistant
- Long cap off life



PART #	DESCRIPTION
48-22-3201	5pc INKZALL Chisel Tip Yellow Jobsite Highlighters
48-22-3206	5pc INKZALL Chisel Tip Colored Jobsite Highlighters

### INKZALL LIQUID PAINT MARKERS

- Durable acrylic nib for the most demanding environmental conditions: surface temperature from -10° up to + 145°
- 10 seconds dry time
- Water and UV resistant markings



PART #	DESCRIPTION
48-22-3711	12pc INKZALL Medium Point White Liquid Paint Markers
48-22-3712	1pc INKZALL Medium Point White Liquid Paint Markers
48-22-3721	12pc INKZALL Medium Point Yellow Liquid Paint Markers
48-22-3722	1pc INKZALL Medium Point Yellow Liquid Paint Markers
48-22-3731	12pc INKZALL Medium Point Black Liquid Paint Markers
48-22-3741	12pc INKZALL Medium Point Red Liquid Paint Markers
48-22-3751	12pc INKZALL Medium Point Green Liquid Paint Markers
48-22-3761	12pc INKZALL Medium Point Blue Liquid Paint Markers
48-22-3771	12pc INKZALL Medium Point Orange Liquid Paint Markers

### INKZALL ULTRA FINE POINT JOBSITE PENS

- Quick dry time
- Precise Lines
- Long cap off life



PART #	DESCRIPTION
48-22-3160	12pc INKZALL Ultra Fine Point Black Jobsite Pens
48-22-3161	12pc INKZALL Ultra Fine Point Red Jobsite Pens
48-22-3162	12pc INKZALL Ultra Fine Point Blue Jobsite Pens
48-22-3164	4pc INKZALL Ultra Fine Point Black Jobsite Pens
48-22-3165	4pc INKZALL Ultra Fine Point Colored Jobsite Pens

## SQUARES

### RAFTER SQUARES

- Precision scribe notches for easy marking
- High visibility laser etched markings
- Increased heel width for improved grip



PART #	DESCRIPTION	
4932472124	18cm Rafter Square	
4932472123	7" Rafter Square	
MLSQ1120	30cm Rafter Square	<b>NEW</b>
MLSQ0120	12" Rafter Square	<b>NEW</b>

### FRAMING SQUARES

- Reinforced frame
- Precision scribe notches for easy marking
- High visibility laser etched markings



PART #	DESCRIPTION	
4932472126	40 x 60cm Framing Square	
4932472125	16" x 24" Framing Square	
MLSQ1812	20 x 30cm Framing Square	<b>NEW</b>
MLSQ812	8" x 12" Framing Square	<b>NEW</b>



## PLIERS

### DIPPED GRIP PLIERS

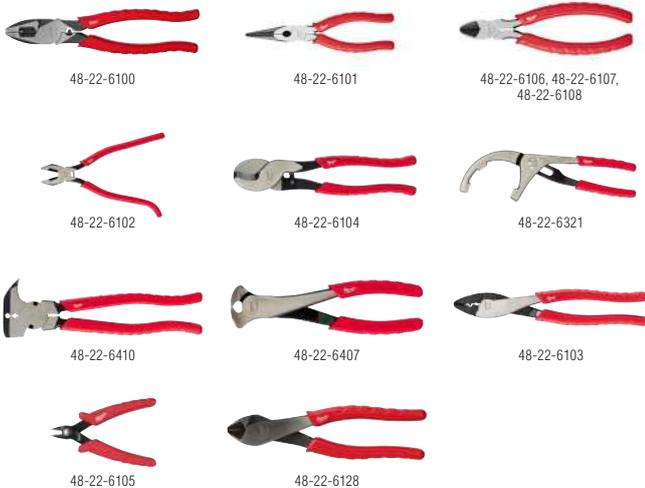
- Ergonomic Handles with Dipped Grips
- Forged for strength
- Rust protection



PART #	DESCRIPTION
48-22-6501	Long Nose Pliers 203mm - Dipped Grip (8")
48-22-6508	Diagonal Cutting Pliers 203mm - Dipped Grip (8")
48-22-6528	Angled Head Diagonal Cutting Pliers 203mm (8")
48-22-6502	High Leverage Linesman's Pliers 228mm (9")
48-22-6500	High Leverage Linesman's Pliers with Crimper 228mm (9")
48-22-6503	High Leverage Linesman's Pliers with Thread Cleaner 228mm (9")

### COMFORT GRIP PLIERS

- Comfort grips will not peel or dig into hands during extended use
- Forged for strength
- Rust protection



PART #	DESCRIPTION
48-22-6100	Linesman Pliers 228mm (9")
48-22-6101	Long Nose Pliers 203mm (8")
48-22-6106	Diagonal Cutting Pliers 152mm (6")
48-22-6107	Diagonal Cutting Pliers 177mm (7")
48-22-6108	Diagonal Cutting Pliers 203mm (8")
48-22-6128	Angled Head Diagonal - Comfort Grip 203mm (8")
48-22-6102	Ironworker's Pliers 228mm (9")
48-22-6104	Cable Cutting Pliers 228mm (9")
48-22-6321	VC/Oil Filter Pliers 228mm (9")
48-22-6410	Fencing Pliers 228mm (9")
48-22-6407	Nipping Pliers 177mm (7")
48-22-6103	Crimping Pliers 228mm (9")
48-22-6105	Mini Flush Cutters 127mm (5")

### CUSHION GRIP PLIERS

- Better Leverage: For tough cuts
- Laser hardened edge: Longer Life
- Smoother open and close



PART #	DESCRIPTION
MT550	Lineman's Comfort Grip Pliers 228mm (9")
MT550C	Lineman's Comfort Grip Pliers w/ Crimper 228mm (9")
MT550T	Lineman's Comfort Grip Pliers w/ Thread Cleaner 228mm (9")
MT555	Long Nose Comfort Grip Pliers 203mm (8")
MT556	Diagonal Comfort Grip Cutting Pliers 152mm (6")
MT557	Diagonal Comfort Grip Cutting Pliers 177mm (7")
MT558	Diagonal Comfort Grip Cutting Pliers 203mm (8")

### ERGONOMIC GRIP PLIERS



- Precision machined joint for maximum power transmission with optimum leverage
- Grey titanium finish ensures maximum corrosion resistance
- Induction hardened cutting edges for easy cut



PART #	DESCRIPTION
4932492461	165mm (6.5") Combination Plier
4932492462	180mm (7") Combination Plier
4932492463	160mm (6") Diagonal Cutting Plier
4932492464	200mm (8") Heavy Duty Diagonal Cutting Plier
4932492465	205mm (8") Long Nose Plier
4932492466	205mm (8") 45° Long Nose Plier
4932492773	3pc Plier Set (180mm Combination Plier, 205mm Long Nose Plier, 160mm Diagonal Plier)

### LONG REACH/ HOSE GRIP PLIERS

- Multi-Function Gripping Zones
- Deep Reach Cross Handles
- Single-Joint Grip Force



PART #	DESCRIPTION	LENGTH (mm)	TIP ANGLE (°)	HOSE DIAMETER (mm)
48-22-6540	Long Reach Plier - Straight	332	0°	-
48-22-6541	Long Reach Plier - 45	326	45°	-
48-22-6542	2pc Long Reach Pliers Set			
48-22-6560	Small Diameter Hose Grip Pliers	327	-	8
48-22-6561	Medium Diameter Hose Grip Pliers	324	-	12.7
48-22-6562	Large Diameter Hose Grip Pliers	321	-	19
48-22-6563	3pc Hose Grip Pliers Set			

### INSULATED COMFORT GRIP PLIERS

- 1000V: Certified to IEC 60900 and ASTM F1505 standards
- Blades are fully forged and hardened for easy cuts
- Ergonomic grip for comfortable handling



PART #	DESCRIPTION
48-22-2208	1000V Insulated Diagonal Cutting Pliers 203mm (8")
48-22-2209	1000V Insulated Lineman's Pliers 228mm (9")
48-22-2214	1000V Insulated 10-20 AWG Wire Stripper & Cutter 203mm (8")
48-22-2215	5pc 1000V Insulated Hand Tools (48-22-2208, 48-22-2209, 48-22-2214, 48-22-2207 (PH2 x 4" and SL1/4" x 4"))

### INSULATED ERGONOMIC GRIP PLIERS



- 1000V: Certified to DIN EN/IEC 60900
- Precision machined joint for maximum power transmission with optimum leverage
- Grey titanium finish ensures maximum corrosion resistance



PART #	DESCRIPTION
4932464571	165mm (6.5") VDE Combination Plier
4932464572	180mm (7") VDE Combination Plier
4932464562	160mm (6") VDE Cable Cutter
4932464563	210mm (8") VDE Cable Cutter
4932464564	205mm (8") VDE Long Round Nose Plier
4932464565	205mm (8") VDE Long 45 deg. Round Nose Pliers
4932464566	145mm (5.5") VDE Diagonal Cutter
4932464567	160mm (6") VDE Diagonal Cutter
4932464568	180mm (7") VDE Diagonal Cutter
4932464569	180mm (7") VDE Heavy Duty Diagonal Cutter
4932464570	200mm (7.5") VDE Heavy Duty Diagonal Cutter
4932464573	160mm (6") VDE Wire Stripping Plier
4932464574	240mm (9.5") VDE Water Pump Plier
4932464575	3pc VDE Plier Set (180mm Combination Plier, 205mm Long Nose Plier, 160mm Diagonal Plier)

### SNAP RING PLIERS

- All-Metal Convertible Dial
- Slip-Resistant Grips
- Easy Size ID



PART #	DESCRIPTION	LENGTH TIP		TIP ANGLE
		(mm)	(mm)	
48-22-6530	Small Snap Ring Pliers - 18°	154	0.9	18°
48-22-6531	Small Snap Ring Pliers - 45°	152	0.9	45°
48-22-6532	Small Snap Ring Pliers - 90°	147	0.9	90°
48-22-6533	Medium Snap Ring Pliers - 18°	154	1.2	18°
48-22-6534	Medium Snap Ring Pliers - 45°	152	1.2	45°
48-22-6535	Medium Snap Ring Pliers - 90°	147	1.2	90°
48-22-6536	Large Snap Ring Pliers - 18°	188	1.8	18°
48-22-6537	Large Snap Ring Pliers - 45°	186	1.8	45°
48-22-6538	Large Snap Ring Pliers - 90°	179	1.8	90°
48-22-6539	9pc Snap Ring Pliers Set			

### WIRE STRIPPERS/ COMBINATION PLIERS

- Reinforced Head: Accurate Stripping
- High Contrast Marking
- Smooth Cuts



PART #	DESCRIPTION	WIRE STRIPPER	GRIP
48-22-3079	6-in-1 Combination Pliers	8-18 AWG Solid, 10-20 AWG Stranded	Comfort
4932478554	7-in-1 High Leverage Combination Pliers	10-20 AWG Solid, 12-22 AWG Stranded	Comfort
48-22-3043	Compact Dipped Grip Wire Stripper	10-22 AWG Solid, 12-24 AWG Stranded	Dipped
48-22-3044	Compact Comfort Grip Wire Stripper	10-12 AWG Solid, 12-24 AWG Stranded	Comfort
48-22-6109	Wire Stripper/Cutter For Solid & Stranded Wire	10-18 AWG Solid, 12-20 AWG Stranded	Dipped
48-22-3050	General Purpose Wire Stripper & Cutter	10-18 AWG Solid, 12-20 AWG Stranded	Comfort
48-22-3052	Multi-Purpose Wire Stripper & Crimper w/ Reinforced Head	10-26 AWG Solid, 12-28 AWG Stranded	Dipped
48-22-6579	Multi Purpose Wire Stripper w/ Crimper	10-20 AWG Solid, 12-22 AWG Stranded	Dipped
48-22-3080	Low Voltage Wire Stripper & Cutter	20-30 AWG Solid, 22-32 AWG Stranded	Dipped



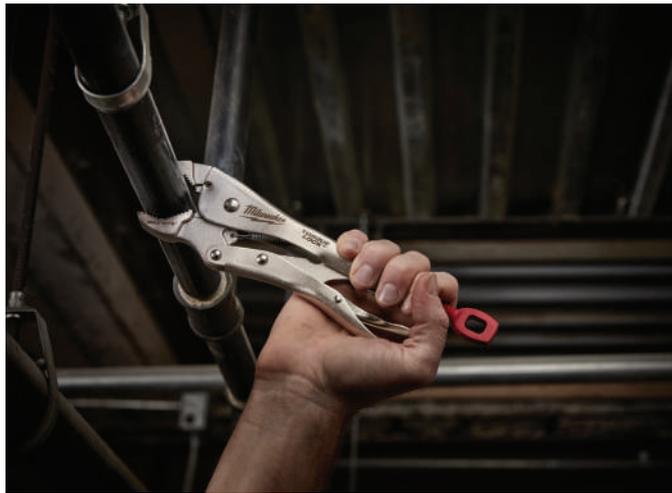
## PLIERS

### PLUMBING PLIERS

- Slim Head Design
- Reaming Handles
- All-Metal Adjustment Mechanism



PART #	DESCRIPTION
48-22-6208	Hex Jaw Pliers 203mm (8")
48-22-6210	Hex Jaw Pliers 254mm (10")
48-22-6550	Hex Jaw Pliers - Dipped Grip 254mm (10")
48-22-6212	Hex Jaw Pliers 304mm (12")
48-22-6552	Hex Jaw Pliers - Dipped Grip 304mm (12")
48-22-6306	Straight Jaw Pliers 152mm (6")
48-22-6310	Straight Jaw Pliers 254mm (10")
48-22-6510	Straight Jaw Pliers - Dipped Grip 254mm (10")
48-22-6312	Straight Jaw Pliers 304mm (12")
48-22-6512	Straight Jaw Pliers - Dipped Grip (12")
48-22-6316	Straight Jaw Pliers 406mm (16")
48-22-6320	Straight Jaw Pliers 508mm (20")
48-22-6330	Straight Jaw Pliers Set 152mm (6") 254mm (10")



### TORQUE LOCK LOCKING CLAMPS

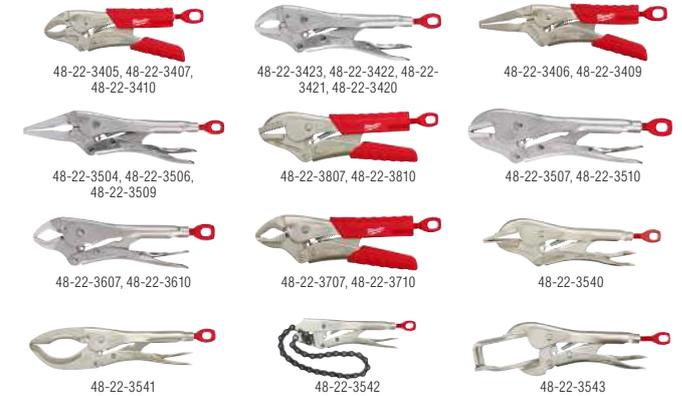
- Faster set up and easy release when clamping flat and round materials for welding
- TORQUE LOCK screw for better and more secure grip
- Chrome plated tool reduce corrosion



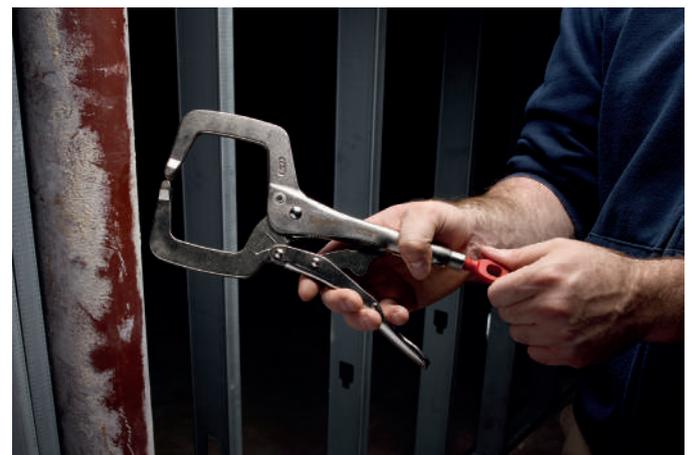
PART #	DESCRIPTION
48-22-3521	TORQUE LOCK Locking C-Clamp Swivel Jaws 280mm (11")
48-22-3522	TORQUE LOCK Locking C-Clamp Swivel Jaws 152mm (6")
48-22-3531	TORQUE LOCK Locking C-Clamp Regular Jaws 280mm (11")
48-22-3532	TORQUE LOCK Locking C-Clamp Regular Jaws 152mm (6")

### TORQUE LOCK LOCKING PLIERS

- Faster set up and easy release when clamping flat and round materials for welding
- TORQUE LOCK screw for better and more secure grip
- Chrome plated tool reduce corrosion



PART #	DESCRIPTION
48-22-3405	TORQUE LOCK Curved Jaw Locking Pliers with Durable Grip 127mm (5")
48-22-3407	TORQUE LOCK Curved Jaw Locking Pliers with Durable Grip 177mm (7")
48-22-3410	TORQUE LOCK Curved Jaw Locking Pliers with Durable Grip 254mm (10")
48-22-3423	TORQUE LOCK Curved Jaw Locking Pliers 101mm (4")
48-22-3422	TORQUE LOCK Curved Jaw Locking Pliers 127mm (5")
48-22-3421	TORQUE LOCK Curved Jaw Locking Pliers 177mm (7")
48-22-3420	TORQUE LOCK Curved Jaw Locking Pliers 254mm (10")
48-22-3406	TORQUE LOCK Long Nose Locking Pliers with Durable Grip 152mm (6")
48-22-3409	TORQUE LOCK Long Nose Locking Pliers with Durable Grip 228mm (9")
48-22-3504	TORQUE LOCK Long Nose Locking Pliers 101mm (4")
48-22-3506	TORQUE LOCK Long Nose Locking Pliers 152mm (6")
48-22-3509	TORQUE LOCK Long Nose Locking Pliers 128mm (9")
48-22-3807	TORQUE LOCK Straight Jaw Locking Pliers with Durable Grip 177mm (7")
48-22-3810	TORQUE LOCK Straight Jaw Locking Pliers with Durable Grip 254mm (10")
48-22-3507	TORQUE LOCK Straight Jaw Locking Pliers 177mm (7")
48-22-3510	TORQUE LOCK Straight Jaw Locking Pliers 254mm (10")
48-22-3607	TORQUE LOCK MAXBITE Curved Jaw Locking Pliers 177mm (7")
48-22-3610	TORQUE LOCK MAXBITE Curved Jaw Locking Pliers 254mm (10")
48-22-3707	TORQUE LOCK MAXBITE Curved Jaw Locking Pliers with Durable Grip 177mm (7")
48-22-3710	TORQUE LOCK MAXBITE Curved Jaw Locking Pliers with Durable Grip 254mm (10")
48-22-3540	TORQUE LOCK Locking Seamer 203mm (8")
48-22-3541	TORQUE LOCK Large Jaw Locking Pliers 304mm (12")
48-22-3542	TORQUE LOCK Chain Wrench 270mm (9")
48-22-3543	TORQUE LOCK Locking Welder's Clamp 270mm (9")



## WRENCHES

### PIPE WRENCHES

- Overbite jaw for secure grip on pipes and fittings
- Dual coil springs for maximum durability and tool life
- Hardened jaws for increased durability and better grip



STEEL PIPE WRENCH



ALUMINUM PIPE WRENCH

PART #	DESCRIPTION	TOTAL LENGTH (mm)	JAW CAPACITY (mm)	MATERIALS
48-22-7106	Steel Pipe Wrench (6")	152	19	Steel
48-22-7110	Steel Pipe Wrench (10")	250	38	Steel
48-22-7112	Steel Pipe Wrench (12")	300	51	Steel
48-22-7114	Steel Pipe Wrench (14")	350	51	Steel
48-22-7118	Steel Pipe Wrench (18")	450	63	Steel
48-22-7210	Aluminum Pipe Wrench (10")	250	38	Aluminum
48-22-7212	Aluminum Pipe Wrench (12")	300	51	Aluminum
48-22-7214	Aluminum Pipe Wrench (14")	350	51	Aluminum
48-22-7218	Aluminum Pipe Wrench (18")	450	63	Aluminum
48-22-7224	Aluminum Pipe Wrench (24")	600	76	Aluminum

### CHEATER PIPE WRENCHES

- All in one adjustable sliding handle design
- Removable handle for access to tight spaces
- Overbite jaw for secure grip on pipes and fittings



PART #	DESCRIPTION	TOTAL LENGTH (mm)	JAW CAPACITY (mm)	MATERIALS
48-22-7314	CHEATER Pipe Wrench	250/450/600	63	Steel
48-22-7318	CHEATER Aluminum Adaptable Pipe Wrench	280-600	63	Aluminum
48-22-7322	CHEATER Aluminum Offset Adaptable Pipe Wrench	330-600	63	Aluminum



### POWERLENGTH PIPE WRENCHES

- POWERLENGTH handle provide maximum leverage
- Dual coil springs for maximum durability and tool life
- Hardened jaws for increased durability and better grip



PART #	DESCRIPTION	TOTAL LENGTH (mm)	JAW CAPACITY (mm)	MATERIALS
48-22-7213	10L Aluminum Pipe w/ Powerlength Handle	450	38	Aluminum
48-22-7215	14L Aluminum Pipe w/ Powerlength Handle	500	51	Aluminum

### SELF-ADJUSTING PIPE WRENCHES

- Quick Self-Setting Adjustment
- Slim Head: Fits in Tight Spaces
- Easy One-Handed Use



PART #	DESCRIPTION	TOTAL LENGTH (mm)	JAW CAPACITY (mm)	MATERIALS
48-22-7414	14" Aluminum Self-Adjusting Pipe Wrench	51	9.5-50	Aluminum
48-22-7418	18" Aluminum Self-Adjusting Pipe Wrench	63	19-63.5	Aluminum

### ADJUSTABLE WRENCHES

- Precision adjustment screw with accurate threads and tight tolerances. The jaws won't back off during use
- Chrome plating for rust protection and increased durability
- Slim head design for reaching into tight spaces



PART #	DESCRIPTION	TOTAL LENGTH (mm)	JAW CAPACITY (mm)
48-22-7406	Adjustable Wrench (6")	150	24.5
48-22-7408	Adjustable Wrench (8")	200	30
48-22-7508	Wide Jaw Adjustable Wrench (8")	200	40
48-22-7410	Adjustable Wrench (10")	250	36.5
48-22-7412	Adjustable Wrench (12")	300	42.5
48-22-7415	Adjustable Wrench (15")	380	46
48-22-7400	2pc. Adjustable Wrench Set (6") (10")	150,250	24.5, 36.5

### FAUCET WRENCH

- Slim Design
- Reinforced Body
- Secure Fitment



PART #	DESCRIPTION
48-22-7100	Faucet Wrench



## COMBINATION WRENCHES

### MAX BITE™ COMBINATION WRENCHES

- Slim head dimensions for access in tight areas.
- Chrome finish for corrosion and rust resistance.
- Sets come in a durable pouch



**NEW**

PART #	DESCRIPTION
45-96-9506	MAX BITE™ Combination Wrench - 6mm
45-96-9507	MAX BITE™ Combination Wrench - 7mm
45-96-9508	MAX BITE™ Combination Wrench - 8mm
45-96-9509	MAX BITE™ Combination Wrench - 9mm
45-96-9510	MAX BITE™ Combination Wrench - 10mm
45-96-9511	MAX BITE™ Combination Wrench - 11mm
45-96-9512	MAX BITE™ Combination Wrench - 12mm
45-96-9513	MAX BITE™ Combination Wrench - 13mm
45-96-9514	MAX BITE™ Combination Wrench - 14mm
45-96-9515	MAX BITE™ Combination Wrench - 15mm
45-96-9516	MAX BITE™ Combination Wrench - 16mm
45-96-9517	MAX BITE™ Combination Wrench - 17mm
45-96-9518	MAX BITE™ Combination Wrench - 18mm
45-96-9519	MAX BITE™ Combination Wrench - 19mm
45-96-9520	MAX BITE™ Combination Wrench - 20mm
45-96-9521	MAX BITE™ Combination Wrench - 21mm
45-96-9522	MAX BITE™ Combination Wrench - 22mm
45-96-9523	MAX BITE™ Combination Wrench - 23mm
45-96-9524	MAX BITE™ Combination Wrench - 24mm
45-96-9525	MAX BITE™ Combination Wrench - 25mm
45-96-9526	MAX BITE™ Combination Wrench - 26mm
45-96-9527	MAX BITE™ Combination Wrench - 27mm
45-96-9528	MAX BITE™ Combination Wrench - 28mm
45-96-9529	MAX BITE™ Combination Wrench - 29mm
45-96-9530	MAX BITE™ Combination Wrench - 30mm
45-96-9532	MAX BITE™ Combination Wrench - 32mm
45-96-9536	MAX BITE™ Combination Wrench - 36mm

### COMBINATION WRENCH SETS

- Rounded I-Beam handle for comfortable handling grip
- Ink-filled labels for better visibility
- 15° offset box for better accessibility



PART #	DESCRIPTION
48-22-9407	7pc SAE Combination Wrench Set (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
48-22-9507	7pc Metric Combination Wrench Set (8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm)
48-22-9411	11pc SAE Combination Wrench Set (1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 7/8")
48-22-9511	11pc Metric Combination Wrench Set (8mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm)
48-22-9415	15pc SAE Combination Wrench Set (1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1")
48-22-9515	15pc Metric Combination Wrench Set (8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm)

### MAX BITE™ RATCHETING COMBINATION WRENCHES

- Slim head dimensions for access in tight areas.
- Chrome finish for corrosion and rust resistance.
- Sets come in a durable pouch



**NEW**

PART #	DESCRIPTION
45-96-9306	MAX BITE™ Ratcheting Combination Wrench - 6mm
45-96-9307	MAX BITE™ Ratcheting Combination Wrench - 7mm
45-96-9308	MAX BITE™ Ratcheting Combination Wrench - 8mm
45-96-9309	MAX BITE™ Ratcheting Combination Wrench - 9mm
45-96-9310	MAX BITE™ Ratcheting Combination Wrench - 10mm
45-96-9311	MAX BITE™ Ratcheting Combination Wrench - 11mm
45-96-9312	MAX BITE™ Ratcheting Combination Wrench - 12mm
45-96-9313	MAX BITE™ Ratcheting Combination Wrench - 13mm
45-96-9314	MAX BITE™ Ratcheting Combination Wrench - 14mm
45-96-9315	MAX BITE™ Ratcheting Combination Wrench - 15mm
45-96-9316	MAX BITE™ Ratcheting Combination Wrench - 16mm
45-96-9317	MAX BITE™ Ratcheting Combination Wrench - 17mm
45-96-9318	MAX BITE™ Ratcheting Combination Wrench - 18mm
45-96-9319	MAX BITE™ Ratcheting Combination Wrench - 19mm
45-96-9320	MAX BITE™ Ratcheting Combination Wrench - 20mm
45-96-9321	MAX BITE™ Ratcheting Combination Wrench - 21mm
45-96-9322	MAX BITE™ Ratcheting Combination Wrench - 22mm
45-96-9324	MAX BITE™ Ratcheting Combination Wrench - 24mm
45-96-9325	MAX BITE™ Ratcheting Combination Wrench - 25mm
45-96-9327	MAX BITE™ Ratcheting Combination Wrench - 27mm
45-96-9330	MAX BITE™ Ratcheting Combination Wrench - 30mm
45-96-9332	MAX BITE™ Ratcheting Combination Wrench - 32mm

### RATCHETING COMBINATION WRENCH SETS

- 144 Ratcheting teeth positions giving 2.5° arc swing allowing access in tighter spaces
- Rounded I-Beam handle for comfortable handling grip
- Ink-filled labels for better visibility



PART #	DESCRIPTION
48-22-9406	7pc SAE Ratcheting Combination Wrench Set (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
48-22-9506	7pc Metric Ratcheting Combination Wrench Set (8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm)
48-22-9416	15pc SAE Ratcheting Combination Wrench Set (1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1")
48-22-9516	15pc Metric Ratcheting Combination Wrench Set (8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm)

## FLEX HEAD RATCHETING COMBINATION WRENCHES

- 144 Ratcheting teeth positions giving 2.5° arc swing
- 180 ° pivoting head for greater access to tight spaces
- Ink-filled labels for better visibility.



PART #	DESCRIPTION
45-96-9608	MAX BITE™ Flex Head Ratcheting Combination Wrench - 8mm
45-96-9609	MAX BITE™ Flex Head Ratcheting Combination Wrench - 9mm
45-96-9610	MAX BITE™ Flex Head Ratcheting Combination Wrench - 10mm
45-96-9611	MAX BITE™ Flex Head Ratcheting Combination Wrench - 11mm
45-96-9612	MAX BITE™ Flex Head Ratcheting Combination Wrench - 12mm
45-96-9613	MAX BITE™ Flex Head Ratcheting Combination Wrench - 13mm
45-96-9614	MAX BITE™ Flex Head Ratcheting Combination Wrench - 14mm
45-96-9615	MAX BITE™ Flex Head Ratcheting Combination Wrench - 15mm
45-96-9616	MAX BITE™ Flex Head Ratcheting Combination Wrench - 16mm
45-96-9617	MAX BITE™ Flex Head Ratcheting Combination Wrench - 17mm
45-96-9618	MAX BITE™ Flex Head Ratcheting Combination Wrench - 18mm
45-96-9619	MAX BITE™ Flex Head Ratcheting Combination Wrench - 19mm
45-96-9620	MAX BITE™ Flex Head Ratcheting Combination Wrench - 20mm
45-96-9621	MAX BITE™ Flex Head Ratcheting Combination Wrench - 21mm
45-96-9622	MAX BITE™ Flex Head Ratcheting Combination Wrench - 22mm
45-96-9624	MAX BITE™ Flex Head Ratcheting Combination Wrench - 24mm

## FLEX HEAD RATCHETING COMBINATION WRENCH SETS

- 180° pivoting head for greater access to tight spaces
- 144 Ratcheting teeth positions giving 2.5° arc swing allowing access in tighter spaces
- Chrome alloy steel, chrome plated



PART #	DESCRIPTION
48-22-9429	7pc SAE Flex Head Ratcheting Combination Wrench Set (3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4")
48-22-9529	7pc Metric Flex Head Ratcheting Combination Wrench Set (8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm)
48-22-9413	15pc SAE Flex Head Ratcheting Combination Wrench Set (1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1")
48-22-9513	15pc Metric Flex Head Ratcheting Combination Wrench Set (8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm)



## DOUBLE OPEN END WRENCHES

NEW

- Slim head dimensions for access in tight areas.
- Ink-filled size labels for easy and quick size identification.
- Chrome finish for corrosion and rust resistance.



PART #	DESCRIPTION
4932492715	Double Open End Wrench - 4x5mm
4932492716	Double Open End Wrench - 6x7mm
4932492717	Double Open End Wrench - 8x9mm
4932492718	Double Open End Wrench - 8x10mm
4932492719	Double Open End Wrench - 10x11mm
4932492720	Double Open End Wrench - 10x13mm
4932492722	Double Open End Wrench - 12x14mm
4932492723	Double Open End Wrench - 13x17mm
4932492724	Double Open End Wrench - 14x15mm
4932492725	Double Open End Wrench - 16x17mm
4932492726	Double Open End Wrench - 17x19mm
4932492727	Double Open End Wrench - 18x19mm
4932492729	Double Open End Wrench - 21x23mm
4932492730	Double Open End Wrench - 22x24mm
4932493258	Double Open End Wrench - 24x26mm
4932492731	Double Open End Wrench - 24x27mm
4932492732	Double Open End Wrench - 25x28mm
4932492733	Double Open End Wrench - 27x29mm
4932492734	Double Open End Wrench - 30x32mm
4932492735	Double Open End Wrench - 34x36mm
4932492736	Double Open End Wrench - 36x41mm

## DOUBLE OPEN END WRENCH SETS

NEW

- Slim head dimensions for access in tight areas.
- Chrome finish for corrosion and rust resistance.
- Sets come in a durable pouch



PART #	DESCRIPTION
4932492713	7 pc Double Open End Wrench Set (6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm)
4932492714	12 pc Double Open End Wrench Set (6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm, 20x22mm, 21x23mm, 25x28mm, 27x29mm, 30x32mm)



## DOUBLE RING OFFSET WRENCHES

**NEW**

- 75° offset handle for better access in tight spaces
- Rounded I-Beam handle for comfortably applying torque
- Ink-filled size labels for easy and quick size identification



PART #	DESCRIPTION
4932492739	Double Ring Offset Wrench - 6x7mm
4932492740	Double Ring Offset Wrench - 8x9mm
4932492741	Double Ring Offset Wrench - 8x10mm
4932492742	Double Ring Offset Wrench - 10x11mm
4932492743	Double Ring Offset Wrench - 12x13mm
4932492744	Double Ring Offset Wrench - 14x15mm
4932492745	Double Ring Offset Wrench - 16x17mm
4932492746	Double Ring Offset Wrench - 17x19mm
4932492747	Double Ring Offset Wrench - 18x19mm
4932492748	Double Ring Offset Wrench - 19x22mm
4932492749	Double Ring Offset Wrench - 20x22mm
4932492750	Double Ring Offset Wrench - 21x23mm
4932492751	Double Ring Offset Wrench - 22x24mm
4932492752	Double Ring Offset Wrench - 24x26mm
4932492753	Double Ring Offset Wrench - 24x27mm
4932493275	Double Ring Offset Wrench - 25x28mm
4932492754	Double Ring Offset Wrench - 27x30mm
4932492755	Double Ring Offset Wrench - 27x32mm
4932492756	Double Ring Offset Wrench - 30x32mm

## DOUBLE RING OFFSET WRENCH SETS

**NEW**

- 75° offset handle for better access in tight spaces
- Rounded I-Beam handle for comfortably applying torque
- Ink-filled size labels for easy and quick size identification



PART #	DESCRIPTION
4932492737	7pc Double Ring Offset Wrench Set (6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm)
4932492738	12pc Double Ring Offset Wrench Set (6x7mm, 8x9mm, 10x11mm, 12x13mm, 14x15mm, 16x17mm, 18x19mm, 20x22mm, 21x23mm, 24x27mm, 25x28mm, 27x29mm, 30x32mm)

## COMBINATION WRENCH SETS IN PACKOUT ORGANIZERS

**NEW**

- MAX BITE Open-End Grip Reduces Rounding & Stripping
- Comfortable I-Beam Handle Design
- PACKOUT™ Organizers are IP65 rated and built from impact-resistant materials



PART #	DESCRIPTION
48-22-9483	15pc Metric Combination Wrench Set with PACKOUT™ Compact Organizer (Metric Combination Wrenches: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, Removable Tray, PACKOUT Compact Organizer)
48-22-9484	15pc SAE Combination Wrench Set with PACKOUT™ Compact Organizer (SAE Combination Wrenches: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", Removable Tray, PACKOUT Compact Organizer)
48-22-9485	30pc Metric & SAE Combination Wrench Set with PACKOUT™ Organizer (Metric Combination Wrenches: 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm SAE Combination Wrenches: 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1" Removable Trays, PACKOUT Organizer)

## HEX KEYS

### FOLDING HEX KEYS

- Foldable keys enable easy access & storage solution
- High contrast size callouts for quick and easy identification
- Metal housing for increased durability



PART #	DESCRIPTION
48-22-2181	9pc SAE Folding Hex Key Set (5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4")
48-22-2182	8pc Metric Folding Hex Key Set (1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm)
48-22-2184	8pc Torx Folding Hex Key Set (T9, T10, T15, T20, T25, T27, T30, T40)
48-22-2183	17pc SAE/Metric Folding Hex Key Set (SAE: 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4") (Metric: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm)

### L-STYLE HEX KEYS

- Pivoting key holder for easy access to keys
- Ball end for up to 30° access to screw
- High contrast size markings to easily identify the key



PART #	DESCRIPTION
4932478621	9pc Hex Key Set (1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm)
48-22-2185	13pc SAE L-Style with Ball End Hex Key Set (.050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8")
48-22-2186	9pc Metric L-Style with Ball End Hex Key Set (1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm)
48-22-2187	22pc SAE/Metric L-Style with Ball End Hex Key (SAE: .050", 1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8" Metric: 1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm)
4932492693	9pc Torx Key Set (T8, T9, T10, T15, T20, T25, T27, T30, T40) <b>NEW</b>
4932492703	9pc Compact Torx Key Set (T8, T9, T10, T15, T20, T25, T27, T30, T40) <b>NEW</b>
4932492399	9pc Compact Hex Key Set (1.5mm, 2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm, 8mm, 10mm) <b>NEW</b>

## RATCHET & SOCKET

### RATCHET & SOCKET SETS

- 90 tooth design with 4 ° of arc swing for tight work spaces
- FOUR FLAT™ sides on socket deter rolling
- 90 Tooth Design With 4 ° Of Arc Swing For Tight Work Spaces
- Sockets are stamped with measurements on the flat side for easy-to-read visibility



48-22-9008

PART #	INCLUDES
48-22-9504	28pc 1/4" Drive Metric Ratchet & Socket Set Standard Sockets: 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm Deep Well Socket: 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm 1/4" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removable Long-Term Storage Tray
48-22-9044	25pc 1/4" Drive Metric & SAE Ratchet & Socket Set Standard Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm 1/4" Ratchet, 3" Extension and Removable Long-Term Storage Tray
48-22-9004	50pc 1/4" Drive Metric & SAE Ratchet & Socket Set Standard Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm Deep Well Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm 1/4" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removable Long-Term Storage Tray
48-22-9508	32pc 3/8" Drive Metric Ratchet & Socket Set Standard Sockets: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm Deep Well Sockets: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 3/8" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removable Long-Term Storage Tray
48-22-9088	29pc 3/8" Drive Metric & SAE Ratchet & Socket Set Standard Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 3/8" Ratchet, 3" Extension and Removable Long-Term Storage Tray

PART #	INCLUDES
48-22-9008	56pc 3/8" Drive Metric & SAE Ratchet & Socket Set Standard Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm Deep Well Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 3/8" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removable Long-Term Storage Tray
48-22-9510	28pc 1/2" Drive Metric Ratchet & Socket Set Standard Sockets: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm Deep Well Sockets: 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 1/2" Ratchet, 3" Extension, 6" Extension, Removable Long-Term Storage Tray
48-22-9010	47pc 1/2" Drive Metric & SAE Ratchet & Socket Set Standard Sockets: 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 1-1/16", 1-1/8", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm Deep Well Sockets: 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 1/2" Ratchet, 3" Extension, 6" Extension, Removable Long-Term Storage Tray



## RATCHET & SOCKET SET IN PACKOUT™ ORGANIZERS

- 90-tooth ratchet tool provides 4° of arc swing and a slim profile for work in tighter spaces.
- PACKOUT™ Organizers equipped with a clear top for easy identification
- PACKOUT™ Organizers are IP65 rated and built from impact-resistant materials



48-22-9846

PART #	INCLUDES
48-22-9481	28pc 3/8" Drive SAE Ratchet and Socket Set w/ PACKOUT™ Low-Profile Compact Organizer Standard Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1" Deep Well Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8" 3/8" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removeable-Long Term Storage Tray, PACKOUT™ Low-Profile Compact Organizer
48-22-9482	32pc 3/8" Drive Metric Ratchet and Socket Set w/ PACKOUT™ Low-Profile Compact Organizer Drive Standard Sockets: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm Deep Well Sockets: 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 3/8" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removeable-Long Term Storage Tray, PACKOUT™ Low-Profile Compact Organizer
48-22-9486	106pc 1/4" & 3/8" Drive Metric & SAE Ratchet and Socket Set w/ PACKOUT™ Low-Profile Organizer 1/4" Drive Standard Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm 1/4" Drive Deep Well Sockets: 5/32", 3/16", 7/32", 1/4", 9/32", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16", 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm 3/8" Drive Standard Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 15/16", 1", 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 3/8" Drive Deep Well Sockets: 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 11/16", 3/4", 13/16", 7/8", 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 1/4" Ratchet, 3" Extension, 6" Extension, Universal Joint, 3/8" Ratchet, 3" Extension, 6" Extension, Universal Joint, Removeable Long-Term Storage Tray, PACKOUT™ Low-Profile Organizer
48-22-9487	47pc 1/2" Drive Metric & SAE Ratchet and Socket Set w/ PACKOUT™ Low-Profile Organizer Standard Sockets: 1/2", 1", 9/16", 1-1/16", 5/8", 1-1/8", 11/16", 3/4", 13/16", 7/8", 15/16", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm Deep Well Sockets: 1/2", 13/16", 9/16", 7/8", 5/8", 15/16", 11/16", 3/4", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 1/2" Ratchet, 3" Extension, 5" Extension, Removeable-Long Term Storage Tray, PACKOUT™ Low-Profile Organizer
48-22-9487	47pc 1/2" Drive Metric & SAE Ratchet and Socket Set w/ PACKOUT™ Low-Profile Organizer Standard Sockets: 1/2", 1", 9/16", 1-1/16", 5/8", 1-1/8", 11/16", 3/4", 13/16", 7/8", 15/16", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm, 22mm, 23mm, 24mm Deep Well Sockets: 1/2", 13/16", 9/16", 7/8", 5/8", 15/16", 11/16", 3/4", 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm 1/2" Ratchet, 3" Extension, 5" Extension, Removeable-Long Term Storage Tray, PACKOUT™ Low-Profile Organizer

## TRADESMAN 3/8" RATCHET SET

- Pivoting ratchet head.
- Square shaped sockets compatible with combination spanners.
- Organised and portable storage solution.



PART #	DESCRIPTION
48-22-9001	12pc Tradesman 3/8" Ratchet Set Deep Well Sockets: 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 18mm, 19mm 3/8" Drive Roto Ratchet, 6" Extension, 3/8" to 1/4" Drive Adaptor, 3/8" to Hex Adapter, Carry Case

## 1/4" COMPACT RATCHET SET

**NEW**

- Ratchet with 90 Ratcheting teeth for only 4° of arc swing and stubby handle design for better access
- FOUR FLAT SIDES™ sockets providing a wrench ready and anti-roll design.
- High quality textile pouch and removable foam insert.



PART #	DESCRIPTION
4932492672	39pc 1/4" Compact Ratchet Set Standard Sockets: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm SHOCKWAVE Impact Duty Bits: PH1, PH2, PZ1, PZ2, SLO.8x5.5, H3, H4, H5, H6, T10, T15, T20, T25, T30, T40, TS8, TS10, TS15, TS20, TS25, TS30, TS40 1/4" Compact Ratchet, 3" Extension, Universal Joint, 1/4"SQ to 1/4" Socket

## 1/4" DRIVE RATCHETS

- 90 tooth design with 4° of arc swing for tight work spaces.
- Slim profile head with flush direction lever offers better accessibility.
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
48-22-9003	1/4" Drive 76mm Compact Ratchet (3")
48-22-9014	1/4" Drive 152mm Ratchet (6")
48-22-9005	1/4" Drive 229mm Long Ratchet (9")
48-22-9007	1/4" Drive 152mm Flex Head Ratchet (6")
48-22-9009	1/4" Drive 229mm Flex Head Ratchet (9")

## 1/4" DRIVE CHROME SOCKETS WITH FOUR FLAT™ SIDES

- FOUR FLAT™ sides on socket deter rolling.
- Stamped sizes for easy visibility.
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
45-34-4000	1/4" Drive - 4mm
45-34-4001	1/4" Drive - 4.5mm
45-34-9030	1/4" Drive - 5mm
45-34-9031	1/4" Drive - 5.5mm
45-34-9032	1/4" Drive - 6mm
45-34-9033	1/4" Drive - 7mm
45-34-9034	1/4" Drive - 8mm
45-34-9035	1/4" Drive - 9mm
45-34-9036	1/4" Drive - 10mm
45-34-9037	1/4" Drive - 11mm
45-34-9038	1/4" Drive - 12mm
45-34-9039	1/4" Drive - 13mm
45-34-9040	1/4" Drive - 14mm
45-34-9041	1/4" Drive - 15mm
45-34-4010	1/4" Drive Deep - 4mm
45-34-4011	1/4" Drive Deep - 4.5mm
45-34-9042	1/4" Drive Deep - 5mm
45-34-9043	1/4" Drive Deep - 5.5mm
45-34-9044	1/4" Drive Deep - 6mm
45-34-9045	1/4" Drive Deep - 7mm
45-34-9046	1/4" Drive Deep - 8mm
45-34-9047	1/4" Drive Deep - 9mm
45-34-9048	1/4" Drive Deep - 10mm
45-34-9049	1/4" Drive Deep - 11mm
45-34-9050	1/4" Drive Deep - 12mm
45-34-9051	1/4" Drive Deep - 13mm
45-34-9052	1/4" Drive Deep - 14mm
45-34-9053	1/4" Drive Deep - 15mm

## 1/4" DRIVE UNIVERSAL JOINT ADAPTER

NEW

- Universal Joint provides easier access in hard to reach spaces to get every job done
- Ball detent securely holds the socket to the adapter.
- Chrome finish for optimal resistance to corrosion and rust.



PART #	DESCRIPTION
42-04-9106	1/4" Drive Universal Joint Adapter

## 1/4" DRIVE BIT HOLDER

NEW

- Spring collar to securely hold bits.
- Chrome finish for improved rust protection.
- 1/4" Hex bit reception to work with the most common bit sizes.



PART #	DESCRIPTION
4932493961	1/4" Drive Bit Holder for 1/4" Hex Bits

## 1/4" DRIVE ADAPTER

NEW

- Drive size conversion for increasing the drive size of ratchet allowing usage on a wider variety of sockets
- FOUR FLAT™ sides on socket deter rolling
- Laser engraved size ID for quick and easy identification.



PART #	DESCRIPTION
4932480646	1/4" Drive 1/4" F x 3/8" M Adapter

## 1/4" DRIVE EXTENSIONS

- Precision knurling located on the shaft and female Drive end for better control when hand threading.
- Laser engraved size ID for quick and easy identification
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
4932480907	1/4" Drive 38mm Extension (1.5")
4932480908	1/4" Drive 76mm Extension (3")
4932480909	1/4" Drive 152mm Extension (6")
4932480910	1/4" Drive 356mm Extension (14")
4932480637	1/4" Drive Extension Set - 4 Pc
4932480919	1/4" Drive 51mm Wobble Extension (2")
4932480920	1/4" Drive 102mm Wobble Extension (4")
4932480921	1/4" Drive 152mm Wobble Extension (6")
4932480922	1/4" Drive 305mm Wobble Extension (12")
4932480640	1/4" Drive Wobble Extension Set - 4 Pc

## 3/8" DRIVE RATCHETS

- 90 tooth design with 4 °of arc swing for tight work spaces.
- Slim profile head with flush direction lever offers better accessibility.
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
48-22-9036	3/8" Drive 127mm Compact Ratchet (5")
48-22-9038	3/8" Drive 216mm Ratchet (8.5")
48-22-9037	3/8" Drive 305mm Long Ratchet (12")
48-22-9039	3/8" Drive 216mm Flex Head Ratchet (8.5")
48-22-9041	3/8" Drive 305mm Flex Head Ratchet (12")

NEW

NEW

## 3/8" DRIVE CHROME SOCKETS WITH FOUR FLAT™ SIDES

- FOUR FLAT™ sides on socket deter rolling.
- Stamped sizes for easy visibility.
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
45-34-9076	3/8" Drive - 6mm
45-34-9077	3/8" Drive - 7mm
45-34-9078	3/8" Drive - 8mm
45-34-9079	3/8" Drive - 9mm
45-34-9080	3/8" Drive - 10mm
45-34-9081	3/8" Drive - 11mm
45-34-9082	3/8" Drive - 12mm
45-34-9083	3/8" Drive - 13mm
45-34-9084	3/8" Drive - 14mm
45-34-9085	3/8" Drive - 15mm
45-34-9086	3/8" Drive - 16mm
45-34-9087	3/8" Drive - 17mm
45-34-9088	3/8" Drive - 18mm
45-34-9089	3/8" Drive - 19mm
45-34-8020	3/8" Drive - 20mm
45-34-8021	3/8" Drive - 21mm
45-34-8022	3/8" Drive - 22mm
45-34-8023	3/8" Drive - 23mm
45-34-8024	3/8" Drive - 24mm
45-34-9090	3/8" Drive Deep - 6mm
45-34-9091	3/8" Drive Deep - 7mm
45-34-9092	3/8" Drive Deep - 8mm
45-34-9093	3/8" Drive Deep - 9mm
45-34-0010	3/8" Drive Deep - 10mm
45-34-9094	3/8" Drive Deep - 11mm
45-34-0012	3/8" Drive Deep - 12mm
45-34-0013	3/8" Drive Deep - 13mm
45-34-0014	3/8" Drive Deep - 14mm
45-34-0015	3/8" Drive Deep - 15mm
45-34-9095	3/8" Drive Deep - 16mm
45-34-0017	3/8" Drive Deep - 17mm
45-34-0018	3/8" Drive Deep - 18mm
45-34-0019	3/8" Drive Deep - 19mm
45-34-8040	3/8" Drive Deep - 20mm
45-34-8041	3/8" Drive Deep - 21mm
45-34-8042	3/8" Drive Deep - 22mm
45-34-8043	3/8" Drive Deep - 23mm
45-34-8044	3/8" Drive Deep - 24mm

## 3/8" DRIVE UNIVERSAL JOINT ADAPTER

- Universal Joint provides easier access in hard to reach spaces to get every job done
- Ball detent securely holds the socket to the adapter.
- Chrome finish for optimal resistance to corrosion and rust.



PART #	DESCRIPTION
42-04-9107	3/8" Drive Universal Joint Adapter



### 3/8" DRIVE BIT HOLDER

**NEW**

- Ball detent for a secure hold onto bits.
- Chrome finish for improved rust protection.
- 1/4" Hex bit reception to work with the most common bit sizes.



PART #	DESCRIPTION
4932493962	3/8" Drive Bit Holder for 1/4" Hex Bits

### 3/8" DRIVE ADAPTER

**NEW**

- Drive size conversion for increasing the drive size of ratchet allowing usage on a wider variety of sockets
- FOUR FLAT™ sides on socket deter rolling
- Laser engraved size ID for quick and easy identification.



PART #	DESCRIPTION
4932480648	3/8" Drive 3/8"F x 1/4" M Adapter
4932480647	3/8" Drive 3/8"F x 1/2" M Adapter

### 3/8" DRIVE EXTENSIONS

- Precision knurling located on the shaft and female Drive end for better control when hand threading.
- Laser engraved size ID for quick and easy identification
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
4932480911	3/8" Drive 38mm Extension (1.5")
4932480912	3/8" Drive 76mm Extension (3")
4932480913	3/8" Drive 152mm Extension (6")
4932480914	3/8" Drive 356mm Extension (14")
4932480638	3/8" Drive Extension Set - 4 pc
4932480923	3/8" Drive 76mm Wobble Extension (3")
4932480924	3/8" Drive 152mm Wobble Extension (6")
4932480925	3/8" Drive 254mm Wobble Extension (10")
4932480926	3/8" Drive 305mm Wobble Extension (12")
4932480641	3/8" Drive Wobble Extension Set - 4 pc

### 1/2" DRIVE RATCHETS

- 90 tooth design with 4 °of arc swing for tight work spaces.
- Slim profile head with flush direction lever offers better accessibility.
- Chrome finish for corrosion and rust protection



Compact Ratchet, Ratchet, Long Ratchet Flex Head Ratchet

PART #	DESCRIPTION
48-22-9012	1/2" Drive 286mm Ratchet (11")
48-22-9050	1/2" Drive 457mm Long Ratchet (18")
48-22-9051	1/2" Drive 286mm Flex Head Ratchet (11")
48-22-9052	1/2" Drive 457mm Flex Head Ratchet (18")

### 1/2" BREAKER BARS

- Provides extra leverage for tougher bolts
- 180 ° Swiveling Head



PART #	DESCRIPTION
48-22-9011	1/2" Drive 380mm Breaker Bar (15")
48-22-9013	1/2" Drive 610mm Breaker Bar (24")

### 1/2" DRIVE CHROME SOCKETS WITH FOUR FLAT™ SIDES

**NEW**

- FOUR FLAT™ sides on socket deter rolling.
- Stamped sizes for easy visibility.
- Chrome finish.



PART #	DESCRIPTION
45-34-2008	1/2" Drive - 8mm
45-34-2009	1/2" Drive - 9mm
45-34-9111	1/2" Drive - 10mm
45-34-9112	1/2" Drive - 11mm
45-34-9113	1/2" Drive - 12mm
45-34-9114	1/2" Drive - 13mm
45-34-9115	1/2" Drive - 14mm
45-34-9116	1/2" Drive - 15mm
45-34-9117	1/2" Drive - 16mm
45-34-9118	1/2" Drive - 17mm
45-34-9119	1/2" Drive - 18mm
45-34-9120	1/2" Drive - 19mm
45-34-9121	1/2" Drive - 20mm
45-34-9122	1/2" Drive - 21mm
45-34-9123	1/2" Drive - 22mm
45-34-9124	1/2" Drive - 23mm
45-34-9125	1/2" Drive - 24mm
45-34-2025	1/2" Drive - 25mm
45-34-2026	1/2" Drive - 26mm
45-34-2027	1/2" Drive - 27mm
45-34-2028	1/2" Drive - 28mm
45-34-2030	1/2" Drive - 30mm
45-34-2032	1/2" Drive - 32mm
45-34-2036	1/2" Drive - 36mm
45-34-9134	1/2" Drive Deep - 10mm
45-34-9135	1/2" Drive Deep - 11mm
45-34-9136	1/2" Drive Deep - 12mm
45-34-9137	1/2" Drive Deep - 13mm
45-34-9138	1/2" Drive Deep - 14mm
45-34-9139	1/2" Drive Deep - 15mm
45-34-9140	1/2" Drive Deep - 16mm
45-34-9141	1/2" Drive Deep - 17mm
45-34-9142	1/2" Drive Deep - 18mm
45-34-9143	1/2" Drive Deep - 19mm
45-34-2120	1/2" Drive Deep - 20mm
45-34-2121	1/2" Drive Deep - 21mm
45-34-2122	1/2" Drive Deep - 22mm
45-34-2123	1/2" Drive Deep - 23mm
45-34-2124	1/2" Drive Deep - 24mm
45-34-2127	1/2" Drive Deep - 27mm
45-34-2130	1/2" Drive Deep - 30mm
45-34-2132	1/2" Drive Deep - 32mm
45-34-2136	1/2" Drive Deep - 36mm

### 1/2" DRIVE UNIVERSAL JOINT ADAPTER

**NEW**

- Universal Joint provides easier access in hard to reach spaces to get every job done
- Ball detent securely holds the socket to the adapter.
- Chrome finish for optimal resistance to corrosion and rust.



PART #	DESCRIPTION
42-04-9104	1/2" Drive Universal Joint Adapter

### 1/2" DRIVE ADAPTER

**NEW**

- Drive size conversion for increasing the drive size of ratchet allowing usage on a wider variety of sockets
- FOUR FLAT™ sides on socket deter rolling
- Laser engraved size ID for quick and easy identification.



PART #	DESCRIPTION
4932480649	1/2" Drive 1/2" F X 3/8" M Adapter

### 1/2" DRIVE EXTENSIONS

- Precision knurling located on the shaft and female drive end for better control when hand threading.
- Laser engraved size ID for quick and easy identification.
- Chrome finish for corrosion and rust protection



PART #	DESCRIPTION
4932480915	1/2" Drive 76mm Extension (3")
4932480916	1/2" Drive 127mm Extension (5")
4932480917	1/2" Drive 254mm Extension (10")
4932480918	1/2" Drive 381mm Extension (15")
4932480639	1/2" Drive Extension Set - 4 pc
4932480927	1/2" Drive 76mm Wobble Extension (3")
4932480928	1/2" Drive 127mm Wobble Extension (5")
4932480929	1/2" Drive 254mm Wobble Extension (10")
4932480642	1/2" Drive Wobble Extension Set - 3 pc

### SPARK PLUG SOCKETS

**NEW**

- Dual material rubber retainer prevent wear down and enable secure hold
- Stamped sizes for quick and easy identification
- Knurling area for better finger grip



PART #	DESCRIPTION
48-22-9550	3/8" Drive 9/16" Spark Plug Socket
48-22-9551	3/8" Drive 5/16" Spark Plug Socket
48-22-9553	3/8" Drive 13/16" Spark Plug Socket
48-22-9555	3/8" Drive 14mm Spark Plug Socket
48-22-9556	3/8" Drive 18mm Spark Plug Socket
48-22-9552	3/8" Drive 5/16" Magnetic Spark Plug Socket
48-22-9554	3/8" Drive 13/16" Magnetic Spark Plug Socket

### BIT SOCKET SETS

- Slim Profile
- Four Flat Sides
- Easy Size ID



PART #	DESCRIPTION
48-22-9530	6pc 1/4" Drive TORX Bit Socket Set (T8, T10, T15, T20, T25, T27)
48-22-9531	10pc 3/8" Drive TORX Bit Socket Set (T20, T25, T27, T30, T40, T45, T47, T50, T55, T60)
48-22-9532	13pc 1/4" and 3/8" Drive TORX Bit Socket Set (1/4" Drive: T8, T10, T15, T20, T25, T27; 3/8" Drive: T30, T40, T45, T47, T50, T55, T60)
48-22-9540	10pc 1/4" Drive Hex Bit Socket Set SAE (1/16", 5/64", 3/32", 7/64", 1/8", 9/64", 5/32", 3/16", 7/32", 1/4")
48-22-9541	6pc 1/4" Drive Hex Bit Socket Set Metric (2mm, 2.5mm, 3mm, 4mm, 5mm, 6mm)
48-22-9542	8pc 3/8" Drive Hex Bit Socket Set SAE (1/8", 9/64", 5/32", 3/16", 7/32", 1/4", 5/16", 3/8")
48-22-9543	11pc 3/8" Drive Hex Bit Socket Set Metric (4mm, 5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm)

### 3/8" DRIVE CHROME SOCKET SETS

**NEW**

- Chrome finish FOUR FLAT™ sides on socket deter rolling
- Wrench ready FOUR FLAT™ sides
- Stamped sizes for easy visibility



PART #	DESCRIPTION
4932492507	10 Pc 3/8" Drive Metric Chrome Socket (10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm)
4932492509	10 Pc 3/8" Drive Metric Deep Chrome Sockets (10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm)

### MINI RATCHET

**NEW**

- 4° of Arc Swing For Better Access in Tight Spaces
- Thumb wheel allows for tightening and loosening fasteners when space is limited
- The attachable bit holder offers easy bit access and better organization



PART #	DESCRIPTION
48-22-2950	7in1 Multi-Bit Mini Ratchet (PH1, PH2, SL3/16", SL1/4", 1/4" Nut Driver, 5/16" Nut Driver and 1/4" Socket Adapter)



## STRIKING & STRUCK TOOLS

### FRAMING HAMMERS

- Better vibration reduction
- Precision balanced
- More durable grip



PART #	DESCRIPTION
48-22-9018	16oz Smooth Face Hybrid Claw Framing Hammer
4932478655	16oz Smooth Face Curved Claw Framing Hammer
48-22-9016	17oz Milled Face Rip Claw Framing Hammer
48-22-9017	17oz Smooth Face Rip Claw Framing Hammer
48-22-9020	20oz Smooth Face Rip Claw Framing Hammer
48-22-9080	20oz Smooth Face Curved Claw Framing Hammer
48-22-9022	22oz Milled Face Rip Claw Framing Hammer
48-22-9023	22oz Smooth Face Rip Claw Framing Hammer
48-22-9029	28oz Milled Face Rip Claw Framing Hammer

### FINISH HAMMER

- Precision Balanced
- D-Shaped Head
- I-Beam Handle



PART #	DESCRIPTION
48-22-9019	12oz Smooth Face Hybrid Claw Finish Hammer

### POLY FIBERGLASS HAMMERS

- Reinforced handle
- Precision balanced
- Magnetic nail set



PART #	DESCRIPTION
48-22-9316	19oz Smooth Face Poly Fiberglass Hammer
48-22-9320	21oz Milled Face Poly Fiberglass Hammer

### DRILLING HAMMERS

- Dual Face Versatility
- Reinforced Overstrike Protection
- High Strength Fiberglass Core



PART #	DESCRIPTION
48-22-9310	3lb Fiberglass Drilling Hammer
48-22-9311	2lb Fiberglass Drilling Hammer

**NEW**

### ENGINEER HAMMERS

**NEW**

- High Strength Fiberglass Core for the ultimate power and durability
- Reinforced overstrike protection for ultimate hammer durability
- Anti-Slip Grip to reduce slipping



PART #	DESCRIPTION
48-22-9312	2.5lb Fiberglass Engineer Hammer
48-22-9314	4lb Fiberglass Engineer Hammer

### CROSS PEEN HAMMERS

**NEW**

- High Strength Fiberglass Core for the ultimate power and durability
- Reinforced overstrike protection for ultimate hammer durability
- Anti-Slip Grip to reduce slipping



PART #	DESCRIPTION
48-22-9313	2.5lb Fiberglass Cross Peen Hammer
48-22-9315	4lb Fiberglass Cross Peen Hammer

### DRYWALL HAMMER

- Precision Balanced Design
- SHOCKSHEILD Grip
- I-Beam Handle



PART #	DESCRIPTION
48-22-9060	15oz Drywall Hammer

### BALL PEEN / DEAD BLOW HAMMERS

- Precision Balanced Design For Optimized Control
- Durable Steel Reinforced Handle
- Overmold Handle For Greater Comfort And Grip
- Handle Grip Resistant To Peeling When Exposed To Solvents



PART #	DESCRIPTION
48-22-9130	16oz Steel Ball Peen Hammer
48-22-9131	24oz Steel Ball Peen Hammer
48-22-9140	16oz Dead Blow Ball Peen Hammer
48-22-9141	32oz Dead Blow Ball Peen Hammer
48-22-9150	28oz Dead Blow Hammer
48-22-9151	48oz Dead Blow Hammer

### LINEMAN'S HAMMER

**NEW**

- Reinforced overstrike protection for ultimate hammer durability
- Durable Fiberglass Handle
- Tether Ready Lanyard Hole



PART #	DESCRIPTION
48-22-9040	4in1 Lineman's Hammer

### SPLITTING AXES

- Precision-Beveled Blade
- Steel Reinforced Handle
- Overmold Handle For Better Control
- Wear Resistant Grip



PART #	DESCRIPTION
48-22-9061	40cm Splitting Axe (16")
48-22-9062	66cm Splitting Axe (26")

### NAIL PULLERS

- SMOOTHPULL™ high leverage head for quick nail removal
- Beveled edge nail slots for better access
- Low profile claw that reduces damage to surrounding materials
- Reduced vibration with SHOCKSHIELD™ grip



PART #	DESCRIPTION
48-22-9030	228mm Finish Nail Puller (9")
48-22-9031	254mm Nail Puller (10")
48-22-9032	304mm Nail Puller (12")
48-22-9033	254mm Molding Puller (10")

### WRECKING BARS

- Claws stay sharp for better access to tight spaces
- Easier prying with high leverage Shepard's hook head shape
- Optimized beveled slots for pulling nails
- Reduced vibration with SHOCKSHIELD™ grip

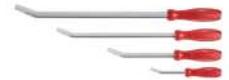


PART #	DESCRIPTION
48-22-9034	304mm Wrecking Bar (12")
48-22-9035	381mm Wrecking Bar (15")
48-22-9042	533mm Wrecking Bar (21")

### PRY BARS

**NEW**

- All-metal core for improved durability
- I-Beam design for added durability
- Hammer-ready strike cap



PART #	DESCRIPTION
4932480595	200mm Pry Bar (8")
4932480596	300mm Pry Bar (12")
4932480597	450mm Pry Bar (18")
4932480598	600mm Pry Bar (24")
4932480599	900mm Pry Bar (35")
4932480600	1000mm Pry Bar (39")
48-22-9214	4 Pc Pry Bar Set (200mm, 300mm, 450mm, 600mm)

### BEVELED EDGE CHISELS

**NEW**

- All metal core for maximum durability
- Metal striking cap for a longer handle life
- Permanent size marking on the blade and handle for quick identification



PART #	DESCRIPTION
4932479892	Beveled Edge Chisel 6mm (0.25")
4932479893	Beveled Edge Chisel 12mm (0.50")
4932479894	Beveled Edge Chisel 19mm (0.75")
4932479895	Beveled Edge Chisel 25mm (1")
4932479896	Beveled Edge Chisel 32mm (1.25")
4932479897	4 Pc Beveled Edge Chisel Set (6mm, 12mm, 19mm, 25mm)

## SCREWDRIVERS & NUTDRIVERS

### TRI-LOBE SCREWDRIVERS

**NEW**

- Comfortable Tri-Lobe handle optimized for maximum user comfort and high torque applications
- Hardened magnetic tips for maximum durability and fastener retention
- Permanent visible ID markings allows for quick tool identification



PART #	DESCRIPTION
4932471773	SL 0.4 x 2 x 65 Tri-Lobe Screwdriver
4932471774	SL 0.4 x 2.5 x 75 Tri-Lobe Screwdriver
4932471775	SL 0.5 x 3 x 75 Tri-Lobe Screwdriver
4932471776	SL 0.5 x 3 x 150 Tri-Lobe Screwdriver
4932471777	SL 0.6 x 3.5 x 100 Tri-Lobe Screwdriver
4932471778	SL 0.8 x 4 x 100 Tri-Lobe Screwdriver
4932471779	SL 1.0 x 5.5 x 125 Tri-Lobe Screwdriver
4932471780	SL 1.2 x 6.5 x 45 Tri-Lobe Screwdriver
4932471781	SL 1.2 x 6.5 x 125 Tri-Lobe Screwdriver
4932471782	SL 1.2 x 8 x 150 Tri-Lobe Screwdriver
4932471783	SL 1.6 x 8 x 175 Tri-Lobe Screwdriver
4932471784	SL 1.2 x 10 x 200 Tri-Lobe Screwdriver
4932471785	PH0 x 75 Tri-Lobe Screwdriver
4932471786	PH1 x 100 Tri-Lobe Screwdriver
4932471787	PH2 x 45 Tri-Lobe Screwdriver

4932471788	PH2 x 125 Tri-Lobe Screwdriver
4932471789	PH3 x 150 Tri-Lobe Screwdriver
4932471790	PZ0 x 75 Tri-Lobe Screwdriver
4932471791	PZ1 x 100 Tri-Lobe Screwdriver
4932471792	PZ2 x 45 Tri-Lobe Screwdriver
4932471793	PZ2 x 125 Tri-Lobe Screwdriver
4932471794	PZ3 x 150 Tri-Lobe Screwdriver
4932471795	T6 x 65 Tri-Lobe Screwdriver
4932471796	T7 x 65 Tri-Lobe Screwdriver
4932471797	T8 x 65 Tri-Lobe Screwdriver
4932471798	T9 x 75 Tri-Lobe Screwdriver
4932471799	T10 x 75 Tri-Lobe Screwdriver
4932471800	T15 x 75 Tri-Lobe Screwdriver
4932471801	T20 x 100 Tri-Lobe Screwdriver
4932471802	T25 x 100 Tri-Lobe Screwdriver
4932471803	T30 x 125 Tri-Lobe Screwdriver
4932471804	T40 x 125 Tri-Lobe Screwdriver

### TRI-LOBE SCREWDRIVER SETS

- Comfortable Tri-Lobe handle optimized for maximum user comfort and high torque applications
- Hardened magnetic tips for maximum durability and fastener retention
- Permanent visible ID markings allows for quick tool identification



PART #	DESCRIPTION	TIP SIZES
48-22-2706	6pc Screwdriver Set	PH1 x 3", PH2 x 4", PH2 x 6", SL3/16" x 6", SL1/4" x 4", SL5/16" x 6"
48-22-2708	8pc Screwdriver Set with ECX	PH1 x 3", PH2 x 4", PH2 x 6", SL5/16" x 6", SL3/16" x 6", SL1/4" x 4", ECX1 x 4", ECX2 x 4"
48-22-2710	10pc Screwdriver Set	PH1 x 3", PH2 x 1-1/2", PH2 x 4", PH2 x 6", SL 3/16" x 6", SL1/4" x 1-1/2", SL 1/4" x 4", SL5/16" x 6", SQ1 x 4", SQ2 x 4"

PH Phillips	SL Slotted	T Torx	TS Torx Security	H Hex
HS Hex Security	ECX ECX	SQ Square	Y Y-Type	TA Triangle
P Pentalobe	S Standoff	SP Spanner	TQ Torq-Set	PZ Pozidriv

### CUSHION GRIP SCREWDRIVERS



- Precise Fit – Reduces Stripping
- Anti-Slip Tip – Laser Etched
- Long Lasting – High Strength Boron-Infused Steel
- Comfortable, Cushion Grip Handle
- Visible Id Markings



PART #	DESCRIPTION	TIP SIZES
MT200-4	4PC Cushion Grip Screwdriver Set	PH2 x 4", SL1/4" x 4", SL3/16" x 6", SL5/16" x 6"
MT200-6	6PC Cushion Grip Screwdriver Set	PH1 x 3", PH2 x 4", PH3 x 6", SL5/16" x 6", SL1/4" x 4", SL3/16" x 6"
MT201	#1 Phillips 3" Cushion Grip Screwdriver	
MT202	#2 Phillips 4" Cushion Grip Screwdriver	
MT203	#3 Phillips 6" Cushion Grip Screwdriver	
MT204	#2 Phillips 10" Cushion Grip Screwdriver	
MT205	#2 Phillips 6" Cushion Grip Demolition Screwdriver	
MT206	1/4" Slotted 4" Cushion Grip Screwdriver	
MT207	5/16" Slotted 6" Cushion Grip Screwdriver	
MT208	5/16" Slotted 6" Cushion Grip Demolition Screwdriver	
MT209	3/8" Slotted 8" Cushion Grip Screwdriver	
MT210	3/8" Slotted 8" Cushion Grip Demolition Screwdriver	
MT211	3/16" Cabinet 3" Cushion Grip Screwdriver	
MT212	3/16" Cabinet 6" Cushion Grip Screwdriver	
MT213	3/16" Cabinet 8" Cushion Grip Screwdriver	
MT214	1/4" Cabinet 10" Cushion Grip Screwdriver	
MT215	#1 ECX 4" Cushion Grip Screwdriver	
MT216	#2 ECX 4" Cushion Grip Screwdriver	
MT217	#1 Square 3" Cushion Grip Screwdriver	
MT218	#2 Square 4" Cushion Grip Screwdriver	
MT219	#3 Square 6" Cushion Grip Screwdriver	

### MULTI-BIT SCREWDRIVERS

- Most Versatile Multi-Bit Driver
- Easy Access Bits: In-Handle Bit Storage
- Durable, All-Metal Ratchet: Higher Torque And Faster Driving
- Removable Bit Holder: Power-Tool Ready With 1/4" Hex Shank
- Ergonomic Handle With Durable Overmold



PART #	DESCRIPTION	BIT TYPES	NEW
48-22-2762	6-in-1 Stubby Multi-Bit Screwdriver	PH1, PH2, SL3/16", SL1/4", 1/4" nut driver and 5/16" nut driver	NEW
48-22-2763	2pc 11-in-1 Multi-Bit Screwdriver and 6-IN-1 Stubby Multi-Bit Screwdriver Set	Stubby: PH1, PH2, SL3/16", SL1/4", 1/4" nut driver and 5/16" nut driver Regular: PH1, PH2, SL1/4", SL3/16", SQ1, SQ2, T10, T15, 1/4" nut driver, 5/16" nut driver and 3/8" nut driver	NEW
48-22-2900	14-in-1 Multi-Bit Screwdriver	PH1, PH2, SL 1/4", SL 3/16", SQ1, SQ2, SQ3, ECX1, ECX2, T10, T15, T20, T25 and 1/4" nut driver	
48-22-2903	14-in-1 Ratcheting Multi-Bit Screwdriver	PH1, PH2, SL 1/4", SL 3/16", SQ1, SQ2, SQ3, ECX1, ECX2, T10, T15, T20, T25 and 1/4" nut driver	
48-22-2901	27-in-1 Multi-Bit Screwdriver	PH0, PH1, PH2, PH3, SL 1/4", SL 3/16", SL 7/32", SL 9/32", SQ1, SQ2, SQ3, ECX1, ECX2, T10, T15, T20, T25, T30, H2, H2.5, H3, H4, H1/8", H5/32", H3/16", H1/4", and 1/4" nut driver	
48-22-2904	27-in-1 Ratcheting Multi-Bit Screwdriver	PH0, PH1, PH2, PH3, SL 1/4", SL 3/16", SL 7/32", SL 9/32", SQ1, SQ2, SQ3, ECX1, ECX2, T10, T15, T20, T25, T30, H2, H2.5, H3, H4, H1/8", H5/32", H3/16", H1/4", and 1/4" nut driver	
48-22-2907	14-in-1 TORX Multi-Bit Screwdriver	PH1, PH2, SL 3/16", SL 1/4", T7, T8, T9, T10, T15, T20, T25, T27, T30, and 1/4" nut driver	
48-22-2908	14-in-1 Hex Multi-Bit Screwdriver	H2, H2.5, H3, H4, H5, H6, H7/64", H1/8", H9/64", H5/32", H3/16", H7/32", H1/4", and 1/4" nut driver	
48-22-2910	8-in-1 Compact Multi-Bit Screwdriver	PH1, PH2, SL 3/16", SL 1/4", SQ1, SQ2, T15, and 1/4" nut driver	
48-22-2913	8-in-1 Ratcheting Compact Multi-Bit Screwdriver	PH1, PH2, SL 3/16", SL 1/4", SQ1, SQ2, T15, and 1/4" nut driver	
48-22-2905	2pc 14-in-1 Ratcheting Multi-Bit and 8-in-1 Ratcheting Compact Multi-bit Screwdriver Set	Regular handle: PH1, PH2, SL 1/4", SL 3/16", SQ1, SQ2, SQ3, ECX1, ECX2, T10, T15, T20, T25 and 1/4" nut driver Compact handle: PH1, PH2, SL 3/16", SL 1/4", SQ1, SQ2, T15, and 1/4" nut driver	
48-22-2930	4-in-1 Precision Multi-Bit Screwdriver	PH00, PH0, SL 1/8", SL 3/32"	
48-22-2911	27-in-1 Security Multi-Bit Screwdriver	TS7, TS8, TS10, TS15, TS20, TS25, TS27, TS30, TS40, SP4, SP6, SP8, SP10, HS3/32", HS7/64", HS1/8", H9/64", HS5/32", HS3/16", HS2, HS2.5, HS3, HS5, TQ6, TQ8, TQ10 and 1/4" nut driver	
48-22-2912	27-in-1 Ratcheting Security Multi-Bit Screwdriver	TS7, TS8, TS10, TS15, TS20, TS25, TS27, TS30, TS40, SP4, SP6, SP8, SP10, HS3/32", HS7/64", HS1/8", H9/64", HS5/32", HS3/16", HS2, HS2.5, HS3, HS5, TQ6, TQ8, TQ10 and 1/4" nut driver	
48-22-2931	4-in-1 TORX Security Precision Multi-Bit Screwdriver	TS7, TS8, TS10, TS15	
48-22-2932	4-in-1 Pocket Precision Multi-Bit Screwdriver	PH00, PH0, SL1/8", SL3/32"	
48-22-2933	14-in-1 Precision Multi-Bit Screwdriver	PH00, PH0, SL1/8", SL3/32", TS7, TS8, TS10, TS15, 9/64" nut driver, 5/32" nut driver, 3/16" nut driver, 7/32" nut driver, 1/4" nut driver, 5/64" nut driver	
48-22-2934	27-in-1 Precision Multi-Bit Screwdriver	PH000, PH00, PH0, PH1, PH2, SL1, SL2, SL2.5, SL3, T3, T4, TS5, TS6, TS7, TS8, TS10, H0.9, H1.3, H1.5, HS2, HS2.5, P2, P5, Y000, Y0, S0, 3.5mm nut driver	
48-22-2935	39-in-1 Precision Multi-Bit Screwdriver W/ Case	PH000, PH00, PH0, PH1, PH2, SL1, SL1.5, SL2, SL2.5, SL3, SL3.5, T3, T4, T5, T6, T7, T8, T9, TS9, TS10, TS15, H0.9, H1.3, H1.5, HS2, HS2.5, HS3, HS3.5, SQ1, SQ2, P2, P5, Y000, Y0, Y1, TA2, TA3, S0, SP4, SP6	

### INSULATED SCREWDRIVERS

- 1000V: Certified to IEC 60900 and ASTM F1505 standards
- Comfortable Tri-Lobe handle optimized for maximum user comfort and high torque applications
- Permanent visible ID markings allows for quick tool identification



PART #	DESCRIPTION	TIP SIZES
48-22-2211	#1 Phillips - 76mm (3") 1000V Insulated Screwdriver	
48-22-2212	#2 Phillips - 101mm (4") 1000V Insulated Screwdriver	
48-22-2213	#3 Phillips - 152mm (6") 1000V Insulated Screwdriver	
48-22-2221	1/4" Slotted - 152mm (6") 1000V Insulated Screwdriver	
48-22-2222	5/16" Slotted - 177mm (7") 1000V Insulated Screwdriver	
48-22-2223	3/8" Slotted - 203mm (8") 1000V Insulated Screwdriver	
48-22-2224	3/8" Slotted - 254mm (10") 1000V Insulated Screwdriver	
48-22-2231	3/16" Cabinet - 101mm (4") 1000V Insulated Screwdriver	
48-22-2232	3/16" Cabinet - 152mm (6") 1000V Insulated Screwdriver	
48-22-2233	3/16" Cabinet - 203mm (8") 1000V Insulated Screwdriver	
48-22-2210	10pc 1000V Insulated Screwdriver Set w/ EVA Foam Case	PH1 x 3", PH2 x 4", PH3 X 6", SL1/4" X 6", SL 5/16" X 7", SL3/8" X 8", SQ1 x 3", SQ2 x 4", SQ3 x 6", ECX1 x 4"
48-22-2204	4pc 1000V Insulated Screwdriver Set w/ Roll Pouch	PH1 x 3", PH2 x 4", SL1/4" x 6", SL3/8" x 8"
48-22-2207	2pc 1000V Insulated Slim Tip Screwdriver Set	SL1/4"x 4", PH2 x 4"
48-22-2219	4pc 1000V Insulated Slim Tip Screwdriver Set	PH2 x 4", SL3/16" x 6", SL1/4" x 4", SQ2 x 6"
48-22-2206	6pc 1000V Insulated Slim Tip Screwdriver Set	PH1 x 6", PH2 x 4", PH2 x 6", SL3/16" x 6", SL1/4" x 4", SQ2 x 6"

### INSULATED MULTI BIT SCREWDRIVERS

- 1000V: Certified to IEC 60900 and ASTM F1505 standards
- Size ID on every bit for quick identification
- Most versatile - easily change bits



PART #	DESCRIPTION	TIP SIZES
48-22-2216	4-in-1 1000V Insulated Slim Tip Multi-Bit Screwdriver	PH2, SL1/4", SL3/16", SQ2
48-22-2218	8-in-1 1000V Insulated Slim Tip Multi-Bit Screwdriver	PH1, PH2, SL1/4", SL3/16", SQ1, SQ2, ECX1, ECX2
48-22-2217	8-in-1 1000V Insulated Precision Multi-Bit Screwdriver	PH00, PH0, SL1/8", SL3/32", TS7, TS8, TS10, TS15

### HOLLOWCORE NUTDRIVERS

- HollowCore Unlimited Depth
- 6 Point Head
- Color Coded ID



PART #	DESCRIPTION	INCLUDES
48-22-2542	2pc SAE HOLLOWCORE Magnetic Nut Driver Set	1/4", 5/16"
48-22-2544	4pc SAE HOLLOWCORE Magnetic Nut Driver Set	1/4", 5/16", 7/16", 9/16"
48-22-2547	7pc SAE HOLLOWCORE Magnetic Nut Driver Set	1/4", 5/16", 11/32", 3/8", 7/16", 1/2", 9/16"
48-22-2548	7pc Metric HOLLOWCORE Magnetic Nut Driver Set	5mm, 5.5mm, 6mm, 7mm, 8mm, 10mm, 13mm

### PRECISION SCREWDRIVERS

- Extended reach
- All-metal core
- Color coded markings



PART #	DESCRIPTION	TIP SIZES
48-22-2604	4pc Precision Screwdriver Set	PH1, SL1/16", SL3/32", SL1/8"
48-22-2606	6pc Precision Screwdriver Set	PH00, PH0, SL1/16", SL3/32", SL1/8", SL5/32"
48-22-2610	6pc Precision Screwdriver Set	T6, T7, T8, T9, T10, T15
48-22-2612	10pc Precision Screwdriver Set	PH00, PH0, SL3/32", SL1/8", T6, T7, T8, T9, T10, T15
48-22-2614	8pc Precision Screwdriver Set	PH000, PH00, PH0, PH1, SL1/16", SL3/32", SL1/8", SL5/32"

### DEMO SCREWDRIVER SET

- Hammer ready strike caps
- All-metal core
- Comfortable Tri-Lobe handle



PART #	DESCRIPTION	TIP SIZES
48-22-2702	2pc Demo Screwdriver Set	PH6 x 6", SL5/16" x 6"



## CUTTING TOOLS

### SELF-RETRACTING UTILITY KNIFE

- Self-retract mechanism: Retracts blade when the button is released
- Blade storage holds up to 5 blades conveniently inside the handle
- Quick tool-free blade change



PART #	DESCRIPTION
48-22-1512	Self Retracting Utility Knife

### FIXED BLADE UTILITY KNIFE

- Durable full metal body
- Blade storage holds up to 5 blades conveniently inside the handle
- Quick tool-free blade change



PART #	DESCRIPTION
48-22-1513	Fixed Blade Utility Knife

### FASTBACK FOLDING UTILITY KNIVES

- Press and Flip Opening
- Quick tool-free blade changes
- Metal Extension to Prevent Accidental Blade Removal



PART #	DESCRIPTION
48-22-1500	FASTBACK Compact Folding Utility Knife
48-22-1501	FASTBACK Folding Utility Knife
48-22-1502	FASTBACK Folding Utility Knife w/ Blade Storage
48-22-1503	FASTBACK™ w/ Storage & FASTBACK™ Compact Knife Set
48-22-1504	FASTBACK™ w/ Storage & 50pc General Utility Blades Set

### FASTBACK 6-IN-1 FOLDING UTILITY KNIFE

- Including 1 /4" Hex bit holder with double ended PH2 and SL1/4" bit
- Easy tool free blade change
- Bottle Opener



PART #	DESCRIPTION
48-22-1505	FASTBACK 6-in-1 Folding Utility Knife

### FASTBACK HAWKBILL FOLDING KNIVES

- Press and flip Opening
- stainless steel blade: stay sharp
- Liner lock secures the blade in the open position



PART #	DESCRIPTION
48-22-1525	FASTBACK Hawkbill Folding Knife
48-22-1526	FASTBACK Blunt Tip Hawkbill Folding Knife

### COMPACT FOLDING KNIFE

- Compact size for carrying in the pocket
- Resharpenable stainless steel blade
- Liner lock secures the blade in the open position



PART #	DESCRIPTION
48-22-1521	Compact Folding Knife

### FASTBACK FOLDING KNIVES

- Resharpenable stainless steel blade
- Piercing tip allows controlled piercing and smooth cutting
- Liner lock secures the blade in the open position



48-22-1520



48-22-1524

PART #	DESCRIPTION
48-22-1520	FASTBACK Folding Knife
48-22-1524	FASTBACK Camo Folding Knife

### SIDE SLIDE UTILITY KNIVES

- Side slide mechanism to reduce the risk of exposing the blade accidentally
- Full metal body with rubber overmold for increased durability, comfort and reduced hand slippage
- Quick tool free blade change



48-22-1515



48-22-1516

PART #	DESCRIPTION
48-22-1515	Side Slide Utility Knife
48-22-1516	Compact Side Slide Utility Knife

### FASTBACK SPRING ASSISTED FOLDING KNIVES

- Press and Flip Opening
- Stainless Steel Blade: Stays Sharp
- Slide Lock Secures Blade



48-22-1530



48-22-1535

PART #	DESCRIPTION
48-22-1530	FASTBACK Spring Assisted Folding Knife
48-22-1535	FASTBACK Camo Spring Assisted Folding Knife

### FASTBACK 5-IN-1 FOLDING KNIFE

- Press and flip opening
- Includes a fold-out 1 /4" bit holder along with a reversible PH2 and SL1/4" bit
- Liner lock secures the blade in the open position



PART #	DESCRIPTION
48-22-1540	FASTBACK 5-in-1 Folding Knife

## HARDLINE KNIVES

- D2 Steel Blade
- Drop Point Smooth Blade
- Flipper With Bearing System



PART #	DESCRIPTION
48-22-1997	2.5" HARDLINE Smooth Blade Pocket Knife
48-22-1998	3" HARDLINE Serrated Blade Pocket Knife
48-22-1999	3.5" HARDLINE Smooth Blade Pocket Knife
48-22-1994	3" HARDLINE Smooth Blade Pocket Knife

## KNIFE SHARPENER

- Secure Grip
- 3 Sharpening Styles
- Magnetic Base



PART #	DESCRIPTION
48-22-1590	Compact Jobsite Knife Sharpener

## UTILITY BLADES

- Iron carbide deposited metal for longer lifetime
- Optimised cutting angle geometry for sharpness
- Extra ground cutting edge for cleaner cuts



PART #	DESCRIPTION
48-22-1905	5pc General Purpose Utility Blades
48-22-1950	50pc General Purpose Utility Blades w/ Dispenser
48-22-1932	5pc Hook Utility Knife Blades

## SNAP-OFF KNIVES

- Overmolded Handle
- Metal Lock
- Detail Cut Blade



PART #	DESCRIPTION
48-22-1960	9mm Snap Off Knife with Precision Cut Blade
48-22-1961	18mm Snap Off Knife with Precision Cut Blade
48-22-1962	25mm Snap Off Knife with Precision Cut Blade

## LINEMAN'S KNIVES

- Stickwork 3in1 Ring
- Hawkbill Blade



PART #	DESCRIPTION
48-22-1923	Lineman's Blunt Tip Hawkbill Knife w/ STICKWORK 3-in-1 Ring
48-22-1924	Lineman's Hawkbill Knife w/ STICKWORK 3-in-1 Ring
48-22-1929	Lineman's Underground Knife

## ELECTRICIAN SCISSOR

- Reinforced overstrike protection for ultimate hammer durability
- Durable Fiberglass Handle
- Tether Ready Lanyard Hole



PART #	DESCRIPTION
4932478620	Electrician Scissor

## JOBSITE SCISSORS

- Large Handle Loops
- Ruler Markings On Blade
- Bolt Lock Technology



PART #	DESCRIPTION
48-22-4043	Jobsite Offset Scissors (Metric)
48-22-4044	Jobsite Straight Scissors (Metric)
4932479410	Jobsite Offset Scissors (Imperial)
4932479409	Jobsite Straight Scissors (Imperial)

## AVIATION SNIPS

- Chrome plated rust protected forged blades for increased lifetime
- Serrated cutting edges prevent slippage when cutting
- One hand locking mechanism



PART #	DESCRIPTION	COLD ROLLED STEEL	STAINLESS STEEL
4932499011	Left Cutting Aviation Snip	18ga	22ga
4932499014	Right Cutting Aviation Snip	18ga	22ga
4932499018	Straight Cutting Aviation Snip	18ga	22ga
4932499013	Left Cutting Offset Aviation Snip	18ga	22ga
4932499016	Right Cutting Offset Aviation Snip	18ga	22ga
4932499019	Straight Cutting Offset Aviation Snip	18ga	22ga
4932499021	Long Cutting Aviation Snip	20ga	22ga
4932499022	Long Cutting Offset Aviation Snip	20ga	22ga
4932499010	Bulldog Aviation Snip	16ga	18ga
4932499020	3pc Aviation Snips Set	24ga	28ga
4932499017	2pc Offset Aviation Snips Set	24ga	28ga

## TINNER SNIPS

- 40% Larger Handles
- Bolt Lock Technology
- Forged Strength Design



PART #	DESCRIPTION	COLD ROLLED STEEL	STAINLESS STEEL
48-22-4001	406mm (16") Bulldog Tinner	16ga	18ga
48-22-4002	304mm (12") Classic Tinner	20ga	22ga
48-22-4003	254mm (10") Classic Tinner	22ga	24ga
48-22-4004	254mm (10") Duckbill Tinner	22ga	24ga
48-22-4005	280mm (11") Offset Compound Tinner	18ga	20ga
48-22-4006	330mm (13") Lightweight Tinner	24ga	26ga
48-22-4007	Lightweight Tinner Replacement Blades		

## CONSTANT SWING COPPER TUBING CUTTERS

- 4 roller design delivers accurate cuts and prevents walking
- Chrome rollers for added durability and extended performance provide best in class rust protection
- On-board reamer enables fast, easy deburring



PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4259	28mm (1") Constant Swing Copper Tubing Cutter	3 - 28.5
48-22-4252	42mm (1.5") Constant Swing Copper Tubing Cutter	3 - 41
48-22-4253	67mm (2.5") Constant Swing Copper Tubing Cutter	16-67
48-22-4256	2pc Replacement Cutter Wheels for Copper	-
48-22-4257	3pc Replacement Reaming Blades	-

### MINI COPPER TUBING CUTTERS

- Chrome rollers for added durability and extended performance provide best in class rust protection
- Easy grip knob allows faster adjustment and easier one handed use
- Compact design to cut pipes in restricted areas



PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4250	15mm (1/2") Mini Copper Tubing Cutter	3 - 15
48-22-4258	22mm (3/4") Mini Copper Tubing Cutter	3 - 22
48-22-4251	28mm (1") Mini Copper Tubing Cutter	3 - 28.5

### CLOSE QUARTERS COPPER TUBING CUTTERS

- Compact Size: optimized for tough cuts in tight spaces
- Chrome rollers for added durability and extended performance provide best in class rust protection
- Directional grip allows better handling and quick identification of swing direction for easy use



PART #	DESCRIPTION
48-22-4260	13mm (1/2") Close Quarters Copper Tubing Cutter
48-22-4261	19mm (3/4") Close Quarters Tubing Cutter
48-22-4262	25mm (1") Close Quarters Tubing Cutter

### REAMING PEN

- Easy deburring of copper tubing and PVC
- All-metal design for high durability
- Heat treated and black oxide coated blade for extended life



PART #	DESCRIPTION
48-22-4255	Reaming Pen

### HIGH-TENSION HACKSAW

- Internal Blade Storage
- High-Leverage Tension Knob
- Overmolded Handle



PART #	DESCRIPTION
48-22-0050	305mm (12") High Tension Hacksaw

### COMPACT HACKSAW

- Tool free blade change for changing blades up
- Compact design, ideal for versatile cutting in tight spaces
- Adjustable blade length for easier flush cutting



PART #	DESCRIPTION
48-22-0012	Compact Hacksaw

### PROPEX TUBING CUTTERS

- V-shaped blade allows quick and straight cuts; prevents crushing of material
- All Metal Core
- One Handed Locking Mechanism



PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4204	Tubing Cutter	25
48-22-4203	Blade Replacement for Pex Cutter	

### FOLDING JAB SAW

- Fits All 6" SAWZALL Blades
- Quick Blade Change
- Fast Plunge Cuts



PART #	DESCRIPTION
48-22-0307	Folding Jab Saw
48-00-5053	6" 8TPI Drywall SAWZALL™ Blades (3 PK)

### RASPING JAB SAW

- Ribbed indents to reduce hand slippage
- Compact design for use in confined spaces
- Flat knife pommel for plunge cuts



PART #	DESCRIPTION
48-22-0104	Rasping Jab Saw

### RATCHETING PVC CUTTERS

**NEW**

- Durable stainless steel rust proof blade for more cuts
- Quick blade release adds working speed
- Suitable for PVC, CPVC, PEX, PP, PB, PVDF, PE



PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4210	42mm (1.6") Ratcheting PVC Cutter	42
48-22-4215	60mm (2.3") Ratcheting PVC Cutter	60
48-22-4211	42mm (1.6") Ratcheting PVC Cutter Replacement Blade	
48-22-4216	60mm (2.3") Ratcheting PVC Cutter Replacement Blade	

## ELECTRICIAN TOOLS

### LINEMAN'S RATCHETING WRENCHES

- Large Directional Switches for easy pressing
- Built-in hammer for hammering
- Durable Forged Steel for longer life



**NEW**

48-22-9213, 48-22-9213M

48-22-9216, 48-22-9216M

PART #	DESCRIPTION
48-22-9213	Lineman's High-Leverage Ratcheting Wrench W/ Smooth Strike Face
48-22-9213M	Lineman's High-Leverage Ratcheting Wrench W/ Milled Strike Face
48-22-9216	Lineman's 5in1 Ratcheting Wrench W/ Smooth Strike Face
48-22-9216M	Lineman's 5in1 Ratcheting Wrench W/ Milled Strike Face

### INSULATED RATCHETING WRENCHES

- 1000V: Certified to IEC 60900 AND ASTM F1505 Standards
- High contrast size markings
- Durable forged steel for longer life



**NEW**

PART #	DESCRIPTION
48-22-9212	Lineman's 4in1 Insulated Ratcheting Box Wrench
48-22-9211	Lineman's 2in1 Insulated Ratcheting Box Wrench

### CONDUIT BENDERS

- High contrast markings for the best visibility
- Reinforced hook and pedal for added durability
- Bending references and wear-resistant reference chart are included



**NEW**

Aluminum Conduit Bender

Steel Conduit Bender

PART #	DESCRIPTION
48-22-4070	1/2" Aluminum Conduit Bender
48-22-4071	3/4" Aluminum Conduit Bender
48-22-4072	1" Aluminum Conduit Bender
48-22-4080	1/2" Iron Conduit Bender
48-22-4081	3/4" Iron Conduit Bender
48-22-4082	1" Iron Conduit Bender



### FIBERGLASS BOLT CUTTER WITH PIVOTMOVE™ ROTATING HANDLES

- Adaptable rotating handles allow to make more cuts around obstacles common in utility environments
- 1000V UL classified to provide you with added security
- Forged steel bolt cutter blades are custom heat treated for maximum durability



**NEW**

PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4218	457mm (18") Fiberglass Bolt Cutter with PIVOTMOVE™ Rotating Handles	9.5
48-22-4224	610mm (24") Fiberglass Bolt Cutters with PIVOTMOVE™ Rotating Handles	11

### BOLT CUTTERS WITH POWERMOVE™ EXTENDABLE ARMS

- POWERMOVE handles extend for easier cuts in tough application
- Forged steel blades for strong and durable cutting edge
- Pivoting head for angle adjustment



**NEW**

PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4114	355mm (14") Bolt Cutters with POWERMOVE™ Extendable Arms	8
48-22-4124	610mm (24") Bolt Cutters with POWERMOVE™ Extendable Arms	11

### BOLT CUTTERS

- Forged steel blades for strong and durable cutting edge
- Blade adjustment screw ensures high performance and longer life
- Comfort grip handles will not peel or slide off



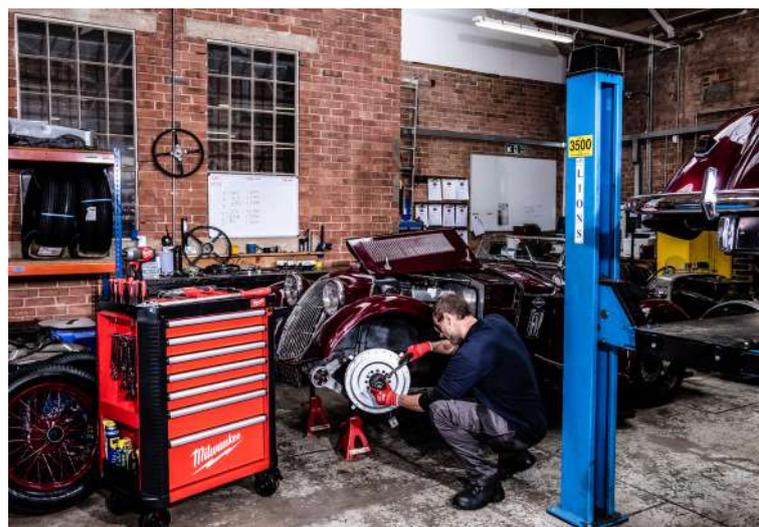
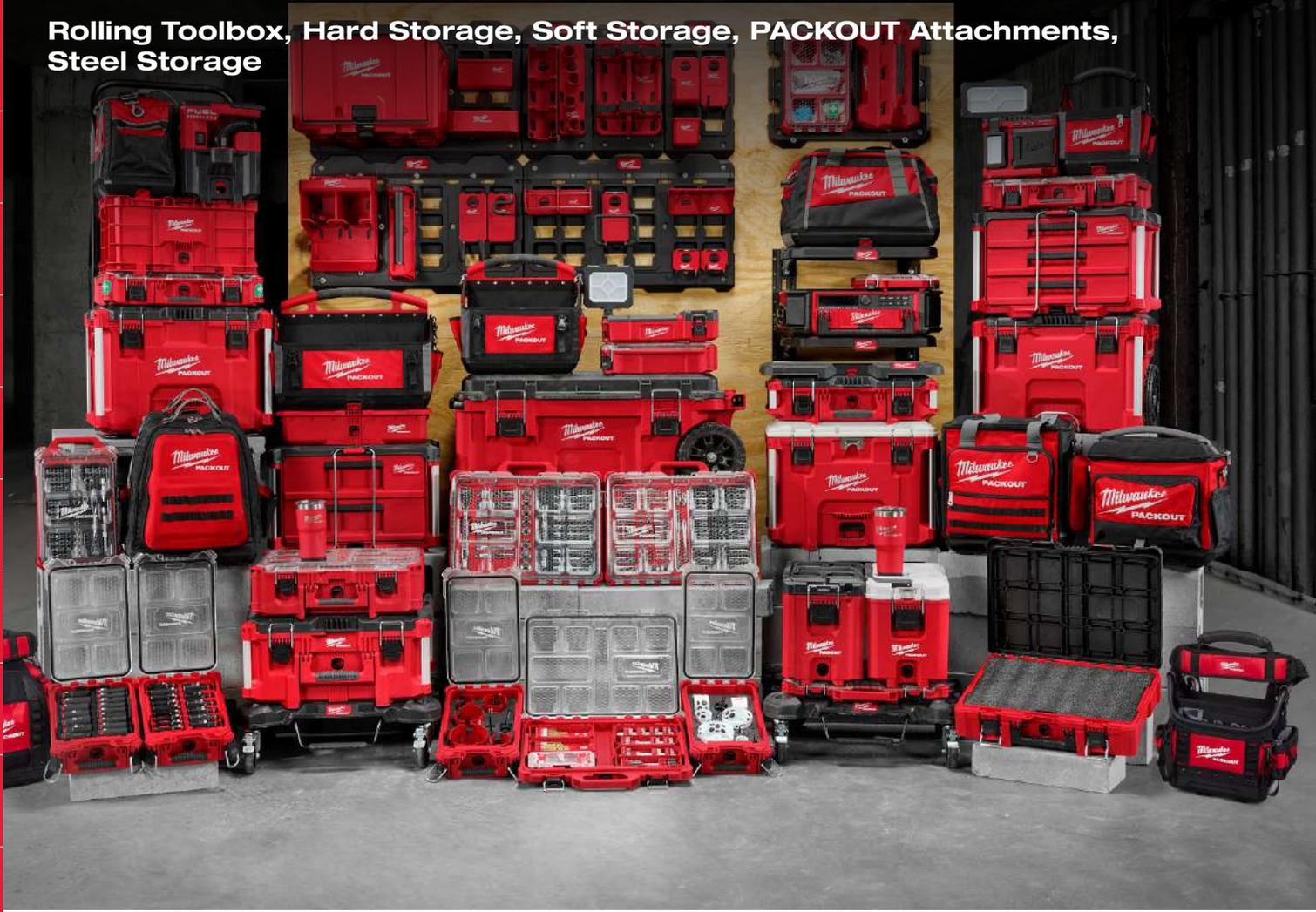
**NEW**

PART #	DESCRIPTION	CUT CAPACITY (mm)
48-22-4014	355mm (14") Bolt Cutters	8
48-22-4018	457mm (18") Bolt Cutters	9.5
48-22-4024	610mm (24") Bolt Cutters	11
48-22-4031	787mm (31") Bolt Cutters	12.5



# PACKOUT AND STORAGE

Rolling Toolbox, Hard Storage, Soft Storage, PACKOUT Attachments, Steel Storage



# MOST VERSATILE DURABLE MODULAR STORAGE SYSTEM

MILWAUKEE PACKOUT  
Jobsite Storage Totes

MILWAUKEE PACKOUT  
Organizers

MILWAUKEE PACKOUT  
Tool Boxes

MILWAUKEE PACKOUT  
Rolling Tool Box



## PACKOUT ROLLING STORAGE

### ROLLING DRAWER TOOL BOX

**NEW**

- Quick One-Handed Opening
- Most Versatile Dividers for Storage Optimization
- Interior Organization Tray Included For Additional Storage



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8420	PACKOUT™ Rolling Drawer Toolbox	113 kg	432 mm	330 mm	406 mm

### LOW PROFILE ROLLING TOOL BOX

- Impact Resistant Base
- 9" All Terrain Wheels
- IP65 Rated Protection



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8420	PACKOUT™ Low Profile Rolling Tool Box	113 kg	485 mm	371 mm	353 mm

### ROLLING TOOL CHEST

- Dual Stack Top
- Impact Resistant Base
- 9" All-Terrain Wheels
- Protective Lid Seal
- 132 Liter Capacity



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8428	PACKOUT™ Rolling Tool Chest	113 kg	825 mm	495 mm	305 mm

### DOLLY

- Locking Casters
- Quickstop Loading Lever
- Smooth Roll Wheels



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8410	PACKOUT™ Dolly	113 kg

### 2-WHEEL CART

- Stack Or Hang
- 10" Flat-Free Wheels
- Folding Load Plate for Compact Storage



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8415	PACKOUT™ 2-Wheel Cart	182 kg

## PACKOUT HARD STORAGE

### DRAWER TOOL BOXES

- Locking Security Bar
- Metal Ball-Bearing Drawer Slides
- Impact Resistant Body



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8442	PACKOUT™ 2-Drawer	23 kg	414 mm	318 mm	127 mm
48-22-8443	PACKOUT™ 3-Drawer	23 kg	414 mm	318 mm	76 mm
48-22-8444	PACKOUT™ 4-Drawer	23 kg	414 mm	318 mm	58 mm
48-22-8447	PACKOUT™ Multi-Depth 3-Drawer	23 kg	414 mm	318 mm	64/127 mm

### TOOL CASE WITH CUSTOMIZABLE INSERT

- Impact Resistant Base
- IP65 Rated Protection
- Customize Your Insert



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8450	PACKOUT™ Tool Case with Customizable Insert	34 kg	482 mm	320 mm	114 mm

### CUSTOMIZABLE FOAM INSERTS

- Layered Foam for Easy Customization
- Durable construction provides increased protection for Tools



PART #	DESCRIPTION
48-22-8451	PACKOUT™ Customizable Foam Insert
48-22-8452	Customizable Foam Insert for PACKOUT™ 2 & 3-Drawer
48-22-8453	Customizable Low Profile Foam Insert for PACKOUT™ 4-Drawer & Multi-Depth 3-Drawer



## TOOL BOXES

- Impact Resistant Body
- Interior Organizer Tray
- IP65 Rated Protection



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8424	PACKOUT™ Tool Box	34 kg	500 mm	335 mm	114 mm
48-22-8425	PACKOUT™ Large Tool Box	45 kg	500 mm	335 mm	216 mm
48-22-8429	PACKOUT™ XL Tool Box	45 kg	485 mm	371 mm	353 mm

## COMPACT TOOL BOX

- Impact Resistant Base
- Quick-Adjust Dividers
- IP65 Rated Protection



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8422	PACKOUT™ Compact Tool Box	34 kg	229 mm	363 mm	269 mm

## TOOL CADDY

- Stack Or Store
- Stores Inside: Rolling Tool Chest, Rolling Tool Box, XL Tool Box, Large Tool Box
- Quick-Adjust Dividers
- Impact Resistant Body With Metal Reinforced Handle



PART #	DESCRIPTION
48-22-8045	PACKOUT™ Tool Caddy

## PACKOUT ORGANIZERS

### ORGANIZERS

- Impact Resistant Base
- IP65 Rated Protection
- No-Travel Bin Seals



PART #	DESCRIPTION	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8430	PACKOUT™ Organizer	457 mm	305 mm	99 mm
48-22-8435	PACKOUT™ Compact Organizer	203 mm	305 mm	99 mm

### DEEP ORGANIZER

- Impact Resistant Base
- IP65 Rated Protection
- Quick-Adjust Dividers



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8432	PACKOUT Deep Organizer	23 kg	457 mm	305 mm	139 mm

## CRATE

- Impact Resistant Base
- Stack Or Hang
- 0.03 Cubic Meter of Storage Capacity



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8440	PACKOUT™ Crate	23 kg	406 mm	335 mm	234 mm

## TOOL CABINET

- Secure Hang Or Stack
- Quick Access Door
- Impact Resistant Body



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8445	PACKOUT™ Cabinet	23 kg



### LOW-PROFILE ORGANIZERS

- Impact Resistant Base
- IP65 Rated Protection
- No-Travel Bin Seals



PART #	DESCRIPTION	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8431	PACKOUT™ Low-Profile Organizer	457 mm	305 mm	46 mm
48-22-8436	PACKOUT™ Low-Profile Compact Organizer	203 mm	305 mm	46 mm

### PACKOUT TILT BIN ORGANIZER

- 2 Large and 8 Small Quick-Access Bins
- Secure Hang Or Stack
- Locking Security Bar



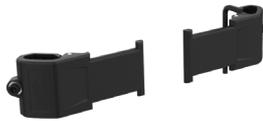
PART #	DESCRIPTION	Weight Capacity
48-22-8433	PACKOUT Tilt Bin Organizer	18 kg

## PACKOUT TOOL BOX ATTACHMENTS

### PACKOUT TOOL BOX ATTACHMENT MOUNT

**NEW**

- Reinforced Rack To Securely Lock Onto Metal-Reinforced Corners
- Impact Resistant Body
- Easily Connect or Swap Out Attachments



PART #	DESCRIPTION	WEIGHT CAPACITY
4932498643	PACKOUT™ Tool Box Attachment Mount	11 kg

### PACKOUT TOOL BOX TRAY ATTACHMENT

**NEW**

- Stores: Bins, Bit Cases, and More
- Impact Resistant Body
- Quick Access Storage



PART #	DESCRIPTION
4932498647	PACKOUT™ Tool Box Tray Attachment

### PACKOUT TOOL BOX CADDY ATTACHMENT

**NEW**

- Stores: Hand Tools, Accessories, and More
- Reinforced Belt Clip Rack for Optimized Storage
- Adjustable Dividers can be removed when not in use



PART #	DESCRIPTION
4932498644	PACKOUT™ Tool Box Caddy Attachment

### PACKOUT TOOL BOX COMPACT PLATE

**NEW**

- Stores: Hooks, Racks, Compact Organizers & More
- Impact Resistant Body
- Quick Access Storage



PART #	DESCRIPTION	WEIGHT CAPACITY
4932498648	PACKOUT™ Tool Box Compact Plate	14 kg

### PACKOUT TOOL BOX M18 BATTERY RACK ATTACHMENT

**NEW**

- Stores: 3 M18 Batteries
- Impact Resistant Body
- Clip-In Battery Storage



PART #	DESCRIPTION
4932498645	PACKOUT™ Tool Box M18 Battery Rack Attachment

### PACKOUT TOOL BOX LONG TOOL ATTACHMENT

**NEW**

- Stores: Levels, Conduit Benders and More
- Impact Resistant Body
- Spring-Loaded Gates for Secure Tool Storage



PART #	DESCRIPTION	WEIGHT CAPACITY
4932498649	PACKOUT™ Tool Box Long Tool Holder Attachment	11 kg

### PACKOUT TOOL BOX M12 BATTERY RACK ATTACHMENT

**NEW**

- Stores: 3 M12 Batteries
- Impact Resistant Body
- Clip-In Battery Storage



PART #	DESCRIPTION
4932498646	PACKOUT™ Tool Box M12 Battery Rack Attachment

### PACKOUT TOOL BOX 3-HOOK ATTACHMENT

**NEW**

- Stores: Power Tools and More
- Adjustable 3-Position Hooks
- Impact Resistant Body



PART #	DESCRIPTION	WEIGHT CAPACITY
4932498650	PACKOUT™ Tool Box 3-Hook Attachment	14 kg

## PACKOUT SURFACES

### CUSTOMIZABLE WORK TOP

- Fastener-Ready Mounting Surface
- Replaceable Wood Top
- Impact Resistant Body



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8488	PACKOUT™ Customizable Work Top	23 kg





## PACKOUT COOLERS

### 15L COMPACT COOLER

- Impact Resistant Base
- IP65 Rated Protection
- Holds Ice For 30 Hours



PART #	DESCRIPTION	WEIGHT CAPACITY	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8460	PACKOUT™ 15L Compact Cooler	15L	198 mm	241 mm	330 mm

### XL COOLER

- Holds Ice For 5 Days
- IP65 Rated Protection
- 38 Liter Capacity (Holds 48 Cans)
- Removable Interior Tray



PART #	DESCRIPTION	INTERNAL LENGTH	INTERNAL WIDTH	INTERNAL HEIGHT
48-22-8462	PACKOUT XL Cooler	406 mm	267 mm	318 mm
48-22-8041	Divider for PACKOUT™ XL Cooler			

### COOLER

- Holds Ice For 24 Hours
- Impact Resistant Base
- All Metal Hardware



PART #	DESCRIPTION
48-22-8302	PACKOUT™ Cooler



## PACKOUT DRINKWARE

### PACKOUT PLASTIC BOTTLES WITH CHUG LID

- Packout Connectivity. Twist To Lock
- Leakproof Chug Lid
- Impact Resistant Body



PART #	DESCRIPTION
4932498636	<b>NEW</b> PACKOUT™ 740ml Bottle with Chug Lid - Red
4932498639	<b>NEW</b> PACKOUT™ 740ml Bottle with Chug Lid - Black
4932498637	<b>NEW</b> PACKOUT™ 1005ml Bottle with Chug Lid - Red
4932498640	<b>NEW</b> PACKOUT™ 1005ml Bottle with Chug Lid - Black
4932498638	<b>NEW</b> PACKOUT™ 1420ml Bottle with Chug Lid - Red
4932498641	<b>NEW</b> PACKOUT™ 1420ml Bottle with Chug Lid - Black
4932498642	<b>NEW</b> PACKOUT™ Chug Lid for Plastic Bottles

### INSULATED BOTTLES WITH SIP LID

- Packout Connectivity. Twist To Lock
- All-Day Hot & Cold Retention
- Impact Resistant Body



PART #	DESCRIPTION
48-22-8391R	<b>NEW</b> PACKOUT™ 350ml Insulated Bottle with Sip Lid - Red
48-22-8391B	<b>NEW</b> PACKOUT™ 350ml Insulated Bottle with Sip Lid - Black
48-22-8395R	<b>NEW</b> PACKOUT™ 530ml Insulated Bottle with Sip Lid - Red
48-22-8395B	<b>NEW</b> PACKOUT™ 530ml Insulated Bottle with Sip Lid - Black
48-22-8394R	<b>NEW</b> PACKOUT™ 530ml Insulated Mug with Sip Lid - Red
48-22-8394B	<b>NEW</b> PACKOUT™ 530ml Insulated Mug with Sip Lid - Black
48-22-8389	<b>NEW</b> PACKOUT™ Sip Lid

### INSULATED BOTTLES WITH CHUG LID

- Packout Connectivity. Twist To Lock
- Leakproof Chug Lid
- Impact Resistant Body



PART #	DESCRIPTION
48-22-8382R	PACKOUT™ 530ml Insulated Bottle - Red
48-22-8382B	PACKOUT™ 530ml Insulated Bottle - Black
48-22-8396R	PACKOUT™ 710ml Insulated Bottle - Red
48-22-8396B	PACKOUT™ 710ml Insulated Bottle - Black
48-22-8397R	PACKOUT™ 1060ml Insulated Bottle - Red
48-22-8397B	PACKOUT™ 1060ml Insulated Bottle - Black
48-22-8388	PACKOUT™ Chug Lid
48-22-8399	PACKOUT™ Twist to Lock Mount

### TUMBLERS

- Double Wall Vacuum Insulation For Both Hot And Cold Retention
- Rotating Magnetic Closure For Easy Open/ Close
- 18/8 Stainless Steel For Durability



PART #	DESCRIPTION
48-22-8392B	PACKOUT™ 591ml Tumbler - Black
48-22-8393B	PACKOUT™ 887ml Tumbler - Black
48-22-8392R	PACKOUT™ 591ml Tumbler - Red
48-22-8393R	PACKOUT™ 887ml Tumbler - Red



## PACKOUT MOUNTING

### SHELVES

- Metal-Reinforced Frame
- Versatile Mounting
- Quick Release Levers
- Impact Resistant Body



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8480	PACKOUT™ Shelving Kit	23 kg
48-22-8481	PACKOUT™ Shelf	23 kg
48-22-8482	Vertical E-Track for PACKOUT™ Shelf	

### MOUNTING PLATE

- Multiple Mounting Options
- Impact Resistant Base
- All Metal Hardware



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8485	PACKOUT™ Mounting Plate	45 kg (Floor) / 23 kg (Wall)

### WALL PLATES

- Impact Resistant Body
- Quick Alignment Tabs
- Metal Reinforced Mounting Points (for Gen 1) / Tracks (for Gen 2)



PART #	DESCRIPTION	WALL MOUNTED WEIGHT CAPACITY	TRANSIT WEIGHT CAPACITY
48-22-8496	PACKOUT™ Compact Wall Plate Gen 2	23 kg	11 kg
48-22-8497	PACKOUT™ Large Wall Plate Gen 2	68 kg	34 kg
48-22-8486	PACKOUT™ Compact Wall Plate Gen 1	23 kg	11 kg
48-22-8487	PACKOUT™ Large Wall Plate Gen 1	68 kg	34 kg



## PACKOUT MOUNTING ACCESSORIES AND BINS

### M18™ BATTERY RACK

- Secure Locking Mechanism
- Clip-In Battery Storage
- Quick Access Organization



STORES



FITS ALL M18 BATTERIES

PART #	DESCRIPTION
48-22-8339	PACKOUT M18™ Battery Rack

### COMPACT SHELF

- Secure Locking Mechanism
- Fits 4 Small Bins and 2 Large Bins
- Quick Access Organization



STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8347	PACKOUT™ Compact Shelf	9 kg

### MAGNETIC BIN

- Secure Locking Mechanism
- Non-Marring Magnetic Base
- Stores In:
  - PACKOUT™ Low-profile organizer
  - PACKOUT™ Compact Low-Profile Organizer



STORES



PART #	DESCRIPTION
48-22-8070	PACKOUT™ 4" x 4" Magnetic Bin
48-22-8071	PACKOUT™ 4" x 8" Magnetic Bin



## TOOL STATION

- Secure Locking Mechanism
- Quick Access Tool Slots
- Impact Resistant Body



### STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8343	PACKOUT Tool Station	11.3 kg

## LONG HANDLE TOOL RACK

- Secure Locking Mechanism
- Quick Access Tool Slots
- Anti-Slip Rubber Grips



### STORES



## PLIERS RACK

- Secure Locking Mechanism
- Quick Access Bars
- Fully Customize Your Shop



### STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8340	PACKOUT Tool Rack	6.8 kg

## M12™ BATTERY RACK

- Secure Locking Mechanism
- Clip-In Battery Storage
- Quick Access Organization



### STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8338	PACKOUT M12™ Battery Rack	

## SCREWDRIVER RACK

- Secure Locking Mechanism
- 34 Multi-Size Slots
- Fully Customize Your Shop



### STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8341	PACKOUT Screwdriver Rack	6.8 kg

## ROLL HOLDER

- Secure Locking Mechanism
- Quick Roll Replacement Latch
- Fully Customize Your Shop



### STORES



## ORGANIZER CUP

- Secure Locking Mechanism
- Quick Access Organization
- Fully Customize Your Shop



### STORES



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8336	PACKOUT Organizer Cup	4.5 kg

PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8337	PACKOUT Roll Holder	2.3 kg

## HOOKS

- Secure Locking Mechanism
- Reinforced Hook Maintains Shape
- Protective Anti-Slip Rubber Grips

PART #	DESCRIPTION	STORES	WEIGHT CAPACITY
48-22-8330	PACKOUT Straight Utility Hook	Outdoor Power Equipment, Multiple Long Tools, and More	11.3 kg
48-22-8331	PACKOUT Curved Utility Hook	Cords, Sledge Hammers, and More	11.3 kg
48-22-8332	PACKOUT Large Hook	Ladders, Cords, and More	11.3 kg
48-22-8333	PACKOUT Large S Hook	Shovels, Outdoor Power Equipment, and More	9.1 kg
48-22-8334	PACKOUT Small Straight Utility Hook	Power Tools, Hand Tools, and More	6.8 kg
48-22-8335	PACKOUT Small Curved Utility Hook	Hand Tools, Tool Bags, and More	6.8 kg



### 4" SINGLE STRAIGHT HOOK

- Secure Locking Mechanism
- Reinforced Hook Maintains Shape
- Fully Customize Your Shop



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8328	PACKOUT 4" Single Straight Hook	6 kg

### NESTING BINS

- Hangs On Packout Plates
- Stores In:
  - PACKOUT Organizer
  - PACKOUT Compact Organizer
- Interior Organization Tray And Divider



PART #	DESCRIPTION
48-22-8062	4" x 4" Nesting Regular Organizer Bin (2PK)
48-22-8063	4" x 8" Nesting Regular Organizer Bin (2PK)

### BELT CLIP RACK

- Secure Locking Mechanism
- Reinforced Rack Maintains Shape
- Quick Access Organization



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8344	PACKOUT Belt Clip Rack	9 kg

### COMPACT WALL BASKET

- Secure Locking Mechanism
- Quick Access Organization
- Fully Customize Your Shop



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8342	PACKOUT Compact Wall Basket	9 kg

### 7-HOOK ROW

- Secure Locking Mechanism
- Reinforced Hook Maintains Shape
- Fully Customize Your Shop



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8329	PACKOUT 7-Hook Row	11 kg

### MAGNETIC RACK

- 3 Magnetic Faces
- Secure Locking Mechanism
- Quick Access Organization



PART #	DESCRIPTION
48-22-8346	PACKOUT Magnetic Rack

### LONG HANDLE TOOL HOLDER

- Secure Locking Mechanism
- Anti-Slip Rubber Grips
- Quick Access Tool Clamps



PART #	DESCRIPTION	WEIGHT CAPACITY
48-22-8348	PACKOUT Long Handle Tool Holder	6.8 kg



## SOFT STORAGES & ORGANIZERS

### BACKPACK

- 1680D Ballistic Material
- Reinforced Base
- Rugged Metal Zippers



PART #	DESCRIPTION
48-22-8201	Ultimate Jobsite Backpack
48-22-8200	Jobsite Backpack
48-22-8202	Low-Profile Backpack
48-22-8620	Tradesman Backpack

### JOBSITE TECH BAG

- 1680D Ballistic Nylon
- Molded Base
- Intergrated Rain Fly



PART #	DESCRIPTION
48-22-8210	Jobsite Tech Bag

### JOBSITE COOLER

- 1680D Ballistic Material
- 2x The Insulation
- Leak-Proof Liner



PART #	DESCRIPTION
48-22-8250	Jobsite Cooler

### PARACHUTE ORGANIZER & BUCKET ORGANIZER

- 1680D Construction
- Open Bucket Design
- Water Resistant Base



PART #	DESCRIPTION
48-22-8170	Parachute Organizer Bag
48-22-8175	Bucket Organizer Bag



### TOOL BELTS

- 1680D Ballistic Nylon
- Riveted Seams
- Standup Base



PART #	DESCRIPTION
48-22-8110	Electricians Work Belt
48-22-8120	Contractor Work Belt w/ Suspension Rig
48-22-8140	Tool Belt accessory - Padded Work Belt
48-22-8121	Tool Belt accessory - Carpenters Pouch
48-22-8122	Tool Belt accessory - 3 Tier Material Pouch
48-22-8111	Tool Belt accessory - Compact Electricians Work Pouch
48-22-8149	Tool Belt accessory - Hammer Loop
48-22-8145	Tool Belt accessory - Padded Rig

### POUCHES

- 1680D Ballistic Material
- Quick-Attach Belt Loop
- Riveted Seams



PART #	DESCRIPTION
48-22-8112	Electrician's Pouch
48-22-8118	Compact Utility Pouch
48-22-8119	Utility Pouch
48-22-8180	Zipper Pouch
48-22-8193	3-Pack Zipper Pouches

### POWER UTILITY STORAGE

- Utility Bucket
- Underground Oval Bag
- Aerial Tool Apron



PART #	DESCRIPTION
48-22-8270	Utility Bucket
48-22-8275	Underground Utility Oval Bag
48-22-8276	Aerial Utility Oval Bag
48-22-8290	Lineman's Aerial Tool Apron

### JOBSITE COOLER

- 1680D Ballistic Material
- 2x The Insulation
- Leak-Proof Liner



PART #	DESCRIPTION
48-22-8250	Jobsite Cooler

## PACKOUT COMPATIBLE PRODUCTS

### M18 PACKOUT LIGHT / CHARGER

M18 POALC

Voltage	18V		
Modes	High	Medium	Low
Lumens	3000	1500	1000
Runtime on 5.0Ah Battery (H)	4	8	12
AC (V)	110-240		
M18 Battery Charger	Yes		
Weight without Battery Pack (kg)	5.5		



### M18 PACKOUT RADIO + CHARGER

M18 PRC

Voltage	18V
Run Time (h)	3 (5.0Ah)
Power (Watt)	90
M18 Battery Charge Current (A)	3.5
USB Charging Output (V/A)	2.1
Weight (kg)	10.5



### M18 6-BAY PACKOUT FAST CHARGER

M18 PC6

Voltage	18V	
Charging Time	M18B2	26 min
	M18B4	47 min
	M18B5	59 min
	M18 HB3	35 min
	M18 HB8	83 min
	M18 HB12	130 min
Weight (kg)	4.1	



### M18 FUEL PACKOUT WET/DRY VACUUM

M18 FPOVCL

Voltage	18V
Air Volume (L/m)	1416
Max. Vacuum (mbar)	117
Capacity (L)	9.5
Weight w/ 5.0Ah Battery Pack (kg)	5.9



### M12 PACKOUT AREA LIGHT

M12 POAL

Voltage	12V
Modes	High / Medium / Low
Lumens	1400 / 700 / 350
Run Time (6.0A)	6 / 9 / 17 hrs
Run Time (4.0A)	4 / 7 / 12 hrs



# PACKOUT™

MODULAR STORAGE SYSTEM

SHOP



SITE



TRANSIT





**STEEL STORAGE**

**36" HIGH CAPACITY 12-DRAWER STEEL STORAGE**

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8536	36" High Capacity 12-Drawer Steel Storage	816 kg	54 kg

**41" HIGH CAPACITY 18-DRAWER STEEL STORAGE**

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8549	41" High Capacity 18-Drawer Steel Storage	1134 kg	54 kg

**46" HIGH CAPACITY 18-DRAWER STEEL STORAGE**

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8546	46" High Capacity 18-Drawer Steel Storage	1134 kg	54 kg

**56" HIGH CAPACITY 18-DRAWER STEEL STORAGE**

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8556	56" High Capacity 18-Drawer Steel Storage	1361 kg	68 kg

### 46" 16-DRAWER STEEL STORAGE

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8500	46" 16-Drawer Steel Storage	816 kg	45 kg

### 52" HIGH CAPACITY 12-DRAWER MOBILE WORKBENCH

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 1.2" Solid Wood Top with UV Poly-coating



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8559	52" High Capacity 12-Drawer Mobile Workbench	1134 kg	54 kg

### 40" 6-DRAWER MOBILE WORK STATION WITH WOOD TOP

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 1" Solid Wood Top with UV Poly-Coating



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8539	40" 6-Drawer Mobile Work Station with Wood Top	816 kg	54 kg

### 61" HIGH CAPACITY 11-DRAWER MOBILE WORKBENCH WITH WOOD TOP

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 1.2" Solid Wood Top with UV Poly-coating



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8562A	61" High Capacity 11-Drawer Mobile Workbench with Wood Top	1361kg	54 kg

### 40" 6-DRAWER MOBILE WORK STATION WITH STAINLESS STEEL TOP

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 304 Stainless Steel Top with Clear Coating



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8540	40" 6-Drawer Mobile Work Station with Stainless Steel Top	816 kg	54 kg

### 61" HIGH CAPACITY 11-DRAWER MOBILE WORKBENCH WITH STAINLESS STEEL TOP

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 304 Stainless Steel Work Top



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8562S	61" High Capacity 11-Drawer Mobile Workbench with Stainless Steel Top	1361 kg	54 kg

### 52" HIGH CAPACITY 11-DRAWER MOBILE WORKBENCH

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters
- 1.2" Solid Wood Top with UV Poly-coating



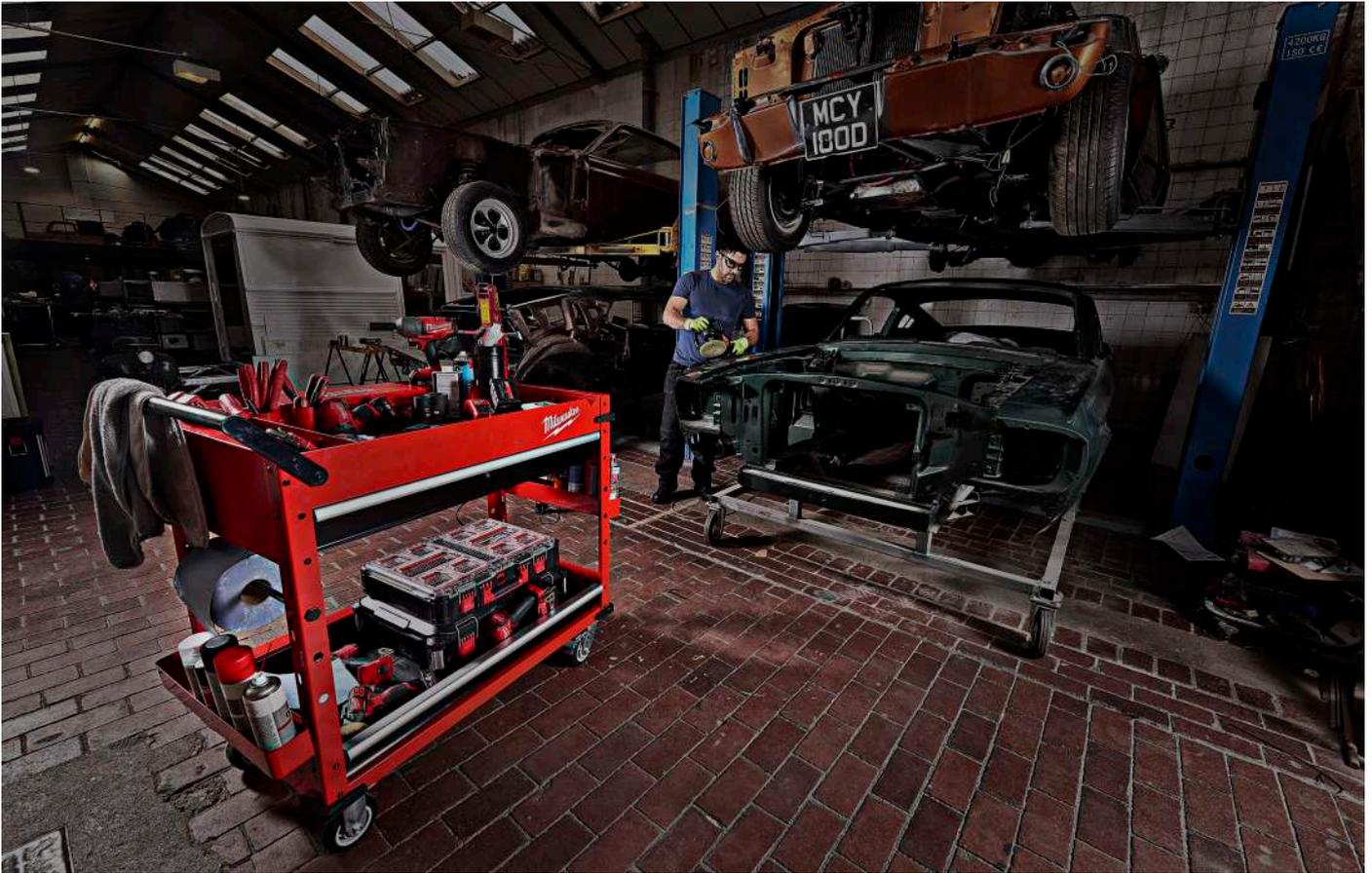
PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8553	52" High Capacity 11-Drawer Mobile Workbench	1134 kg	54 kg

### 40" 2-DRAWER STEEL WORK CART

- Soft-Close Drawer Slides
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
48-22-8590	40" 2-Drawer Steel Work Cart	318 kg	45-90 kg



### 27" HIGH CAPACITY STEEL LOCKER

- Height Adjustable Shelves and Door Trays for Optimized Customization
- Reinforced Frames & Industrial Casters



PART #	DESCRIPTION	LOAD CAPACITY
48-22-8586	27" High Capacity Steel Locker	907 kg

### 30" 4-DRAWER STEEL STORAGE TOP CHEST

**NEW**

- Soft-Close Drawer Slides
- Anti-Tilt Mechanism Allows only 1 drawer to open at a time



PART #	DESCRIPTION	DRAWER SLIDES WEIGHT CAPACITY
STC30-1	30" 4-Drawer Steel Storage Top Chest	45 kg

### 30" 7-DRAWER STEEL STORAGE ROLLING CABINET

**NEW**

- Soft-Close Drawer Slides
- Anti-Tilt Mechanism allows only 1 drawer to be open at a time



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
SRC30-1	30" 7-Drawer Steel Storage Rolling Cabinet	800 kg	45 - 90 kg

### 27" 7-DRAWER STEEL STORAGE ROLLING CABINET

**NEW**

- Soft-Close Drawer Slides
- Anti-tilt protection allows only 1 drawer to be open at a time



PART #	DESCRIPTION	LOAD CAPACITY	DRAWER SLIDES WEIGHT CAPACITY
SRC27/7-1	27" 7-Drawer Steel Storage Rolling Cabinet	625 kg	35 - 70 kg



# PERSONAL PROTECTIVE EQUIPMENT

Hard Hats, Safety Glasses, Respirators, Work Gloves



## SAFETY SOLUTIONS

### SAFETY GLASSES

- Anti-Scratch Exterior, Fog Free Interior
- Liquid, Splash, and Dust Protection
- Withstands Projectiles Shot at 221 m/s



PART #	DESCRIPTION
48-73-2000A	Clear Safety Glasses
48-73-2005A	Tinted Safety Glasses
48-73-2020A	Clear High Performance Safety Glasses
48-73-2025A	Tinted High Performance Safety Glasses
48-73-2040A	Clear High Performance Safety Glasses with Gasket
48-73-2045A	Polarized High Performance Safety Glasses with Gasket

### SAFETY OVER THE GLASSES

**NEW**

- Dual Coat, Anti-Scratch, Fog Free
- Debris Brow Guard
- Withstands Projectiles Shot at 221 m/s



PART #	DESCRIPTION
48-73-2070	Safety Over the Glasses Clear
48-73-2075	Safety Over the Glasses Tinted

### SAFETY HELMETS

- Protects Side and Top Impact
- BOLT™ Headlamp Mount & Marker Clip
- Adjustable Swinging Ratchet - Better Comfort
- Antimicrobial And Moisture Wicking Sweat Band and Helmet Liner



PART #	DESCRIPTION
48-73-1320	White Front Brim Vented Helmet with BOLT™ - Class C
48-73-1322	Yellow Front Brim Vented Helmet with BOLT™ - Class C
48-73-1328	Red Front Brim Vented Helmet with BOLT™ - Class C



### SAFETY GOGGLES

**NEW**

- Dual Coat, Anti Scratch
- Fog Free Interior
- Withstands Projectiles Shot at 221 m/s



PART #	DESCRIPTION
48-73-2060	Clear Vented Low-Profile Safety Goggles
48-73-2061	Tinted Vented Low-Profile Safety Goggles
48-73-2062	Clear Vented High Profile Safety Goggles
48-73-2063	Tinted Vented High Profile Safety Goggles
48-73-2065	Clear Non-Vented Safety Goggles
48-73-2066	Gray Non- Vented Safety Goggles

### HIGH VISIBILITY SAFETY VESTS

- Carry More
- Internal Size Adjustment
- Reinforced Front Pockets with 600D Tear Resistant Material



PART #	DESCRIPTION
48-73-5081P	High Visibility Yellow Performance Safety Vest S/M (CSA)
48-73-5082P	High Visibility Yellow Performance Safety Vest L/XL (CSA)
48-73-5083P	High Visibility Yellow Performance Safety Vest XXL/XXXL (CSA)
48-73-5091P	High Visibility Orange Performance Safety Vest S/M (CSA)
48-73-5092P	High Visibility Orange Performance Safety Vest L/XL (CSA)
48-73-5093P	High Visibility Orange Performance Safety Vest XXL/XXXL (CSA)
48-73-5061P	High Visibility Yellow Safety Vest L/(L) (CSA)
48-73-5062P	High Visibility Yellow Safety Vest S/M (CSA)
48-73-5063P	High Visibility Yellow Safety Vest XXL/XXXL (CSA)
48-73-5071P	High Visibility Orange Safety Vest S/M (CSA)
48-73-5072P	High Visibility Orange Safety Vest L/XL (CSA)
48-73-5073P	High Visibility Orange Safety Vest XXL/XXXL (CSA)

### HARD HATS

- BOLT™ Headlamp Mount & Marker Clip
- Quick-Adjust Ratcheting Suspension
- Four BOLT™ Accessory Slots and Two Universal Accessory Slots



PART #	DESCRIPTION
48-73-1201	White Full Brim Vented Hard Hat with 4PT Ratcheting Suspension – Type 1 Class C
48-73-1101	White Full Brim Hard Hat with 4PT Ratcheting Suspension – Type 1 Class E
48-73-1121	White Full Brim Hard Hat with 6PT Ratcheting Suspension – Type 1 Class E
48-73-1200	White Front Brim Vented Hard Hat with BOLT™ - Class C
48-73-1202	Yellow Front Brim Vented Hard Hat with BOLT™ - Class C
48-73-1100	White Front Brim Hard Hat with BOLT™ - Class E
48-73-1102	Yellow Front Brim Hard Hat with BOLT™ - Class E
48-73-1220	6PT White Front Brim Vented Hard Hat with BOLT™ - Class C
48-73-1222	6PT Yellow Front Brim Vented Hard Hat with BOLT™ - Class C
48-73-1120	6PT White Front Brim Hard Hat with BOLT™ - Class E
48-73-1122	6PT Yellow Front Brim Hard Hat with BOLT™ - Class E



## SAFETY SOLUTIONS

### RESPIRATORS

- Comfortable Tight Sealing Gasket
- Valve Reduces Heat by 5°C
- Adjustable Straps



PART #	DESCRIPTION
48-73-4001	N95 Valved Respirator with Gasket
48-73-4002	3pk N95 Valved Respirator with Gasket
48-73-4004	10pk N95 Valved Respirator with Gasket
48-73-4011	N95 Valved Respirator
48-73-4012	3pk N95 Valved Respirator
48-73-4014	10pk N95 Valved Respirator
48-73-4031	Unvalved N95 Respirator
48-73-4032	3PK Unvalved N95 Respirator
48-73-4034	10PK Unvalved N95 Respirator
48-73-4035	20PK Unvalved N95 Respirator

### HEARING PROTECTION

- Comfortable Tight Sealing Gasket
- Valve Reduces Heat by 5°C
- Adjustable Straps



PART #	DESCRIPTION
48-73-3201	Banded Ear Plugs
48-73-3205	(5 Pack) Replacement Flanged Ear Plugs
48-73-3206	(5 Pack) Replacement Foam Ear Plugs
48-73-3001	10 Pair Ear Plugs
48-73-3005	100 Pair Ear Plugs
48-73-3151	3 PK Reusable Ear Plugs

### KNEELING PAD

**NEW**

- Durable, Non-Slip Base
- Retains Shape
- Tear Resistant Base



PART #	DESCRIPTION
48-73-6100	Kneeling Pad
48-73-6110	PACKOUT™ Kneeling Pad

### KNEE PADS

**NEW**

- All Day Wear
- Lasting Comfort
- Enhanced Protection



PART #	DESCRIPTION
48-73-6070	Dynamic Flooring Knee Pad
48-73-6075	Stabilizer Knee Pad
48-73-6080	High Mobility Knee Pad
48-73-6040	Non-Marring Performance Knee Pads

### HEAT PROTECTION

- Quick 30 Second Absorption, All Day Comfort
- 4+ Hours of Cooling, Blocks Harmful UV Rays
- 85 X 21 CM, PVA Technology
- 85 X 21 CM, Microfiber Technology



PART #	DESCRIPTION
48-73-4540	Cooling PVA Towel
48-73-4541	Cooling Microfiber Towel

### TOOL LANYARDS

- Designed to Reduce Risks of Dropped Tools
- Shock Absorbing Design Gradually Slows Tool
- Color Coded by Weight Rating



PART #	DESCRIPTION
48-22-8810A	4.5kg 0.91m Tool Lanyard
48-22-8810	4.5kg 1.37m Tool Lanyard
48-22-8811A	4.5kg 1.82m Extended Tool Lanyard
48-22-8811	4.5kg. Extended Tool Lanyard
48-22-8815A	6.8kg 0.91m Tool Lanyard
48-22-8850A	35lb Locking Tool Lanyard
48-22-8820A	10 lb. Interchangeable Tool Lanyard
48-22-8823A	3 pc. 4.5kg Interchangeable Tool Cinch
48-22-8823	3pc 4.5kg D-Ring Quick-Connect Lanyard
48-22-8822A	3pc 5lb Quick Connect Accessory
48-22-8812	4.5kg 1.82m Extended Reach Locking Tool Lanyard
48-22-8817	6.8kg 1.82 Extended Reach Locking Tool Lanyard
48-22-8816	6.8kg 1.37m Extended Reach Locking Tool Lanyard
48-22-8830	2.3kg Wrist Lanyard
48-22-8835	2.3kg Quick-Connect Wrist Lanyard
48-22-8855	23kg Anchor Strap
48-22-8825	2.3kg 1.2m Quick Connect Retractable Tool Lanyard



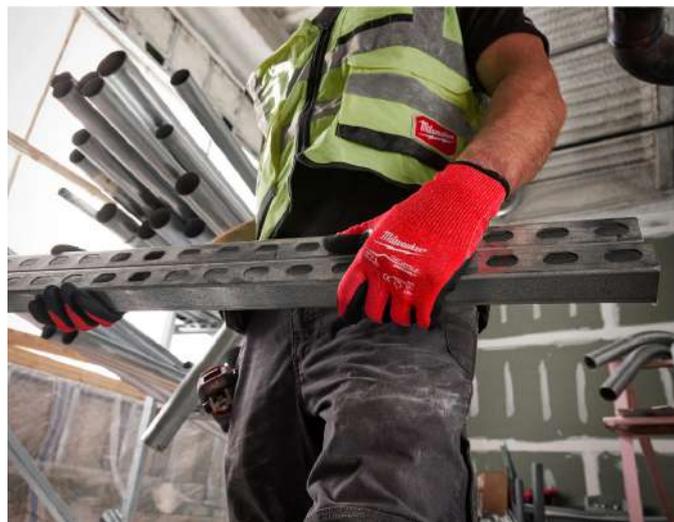
## GLOVES

CUT RESISTANT  
NITRILE DIPPED GLOVES

- ANSI Cut Level Protection
- Double Dipped Grip
- SMARTSWIPE™ Palm & Fingertips



PART #	DESCRIPTION
48-22-8900	Cut Level 1 Nitrile Dipped Gloves - S
48-22-8901	Cut Level 1 Nitrile Dipped Gloves - M
48-22-8902	Cut Level 1 Nitrile Dipped Gloves - L
48-22-8903	Cut Level 1 Nitrile Dipped Gloves - XL
48-22-8904	Cut Level 1 Nitrile Dipped Gloves - XXL
48-22-8925	Cut Level 2 Nitrile Dipped Gloves - S
48-22-8926	Cut Level 2 Nitrile Dipped Gloves - M
48-22-8927	Cut Level 2 Nitrile Dipped Gloves - L
48-22-8928	Cut Level 2 Nitrile Dipped Gloves - XL
48-22-8929	Cut Level 2 Nitrile Dipped Gloves - XXL
48-73-8630	Cut Level 3 Nitrile Dipped Gloves - S
48-73-8631	Cut Level 3 Nitrile Dipped Gloves - M
48-73-8632	Cut Level 3 Nitrile Dipped Gloves - L
48-73-8633	Cut Level 3 Nitrile Dipped Gloves - XL
48-73-8634	Cut Level 3 Nitrile Dipped Gloves - XXL
48-22-8945	Cut Level 4 Nitrile Dipped Gloves - S
48-22-8946	Cut Level 4 Nitrile Dipped Gloves - M
48-22-8947	Cut Level 4 Nitrile Dipped Gloves - L
48-22-8948	Cut Level 4 Nitrile Dipped Gloves - XL
48-22-8949	Cut Level 4 Nitrile Dipped Gloves - XXL
48-73-8650	Cut Level 5 Nitrile Dipped Gloves - S
48-73-8651	Cut Level 5 Nitrile Dipped Gloves - M
48-73-8652	Cut Level 5 Nitrile Dipped Gloves - L
48-73-8653	Cut Level 5 Nitrile Dipped Gloves - XL
48-73-8654	Cut Level 5 Nitrile Dipped Gloves - XXL

HIGH DEXTERITY NITRILE  
DIPPED GLOVES

- Nitrile Dipped Palm
- Reinforced Nitrile Coating
- SMARTSWIPE™ Palm & Fingertips



PART #	DESCRIPTION
48-73-7120	Cut Level 2 High Dexterity Nitrile Dipped Gloves - S
48-73-7121	Cut Level 2 High Dexterity Nitrile Dipped Gloves - M
48-73-7122	Cut Level 2 High Dexterity Nitrile Dipped Gloves - L
48-73-7123	Cut Level 2 High Dexterity Nitrile Dipped Gloves - XL
48-73-7124	Cut Level 2 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7130	Cut Level 3 High Dexterity Nitrile Dipped Gloves - S
48-73-7131	Cut Level 3 High Dexterity Nitrile Dipped Gloves - M
48-73-7132	Cut Level 3 High Dexterity Nitrile Dipped Gloves - L
48-73-7133	Cut Level 3 High Dexterity Nitrile Dipped Gloves - XL
48-73-7134	Cut Level 3 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7140	Cut Level 4 High Dexterity Nitrile Dipped Gloves - S
48-73-7141	Cut Level 4 High Dexterity Nitrile Dipped Gloves - M
48-73-7142	Cut Level 4 High Dexterity Nitrile Dipped Gloves - L
48-73-7143	Cut Level 4 High Dexterity Nitrile Dipped Gloves - XL
48-73-7144	Cut Level 4 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7150	Cut Level 5 High Dexterity Nitrile Dipped Gloves - S
48-73-7151	Cut Level 5 High Dexterity Nitrile Dipped Gloves - M
48-73-7152	Cut Level 5 High Dexterity Nitrile Dipped Gloves - L
48-73-7153	Cut Level 5 High Dexterity Nitrile Dipped Gloves - XL
48-73-7154	Cut Level 5 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7000	Cut Level 6 High Dexterity Nitrile Dipped Gloves - S
48-73-7001	Cut Level 6 High Dexterity Nitrile Dipped Gloves - M
48-73-7002	Cut Level 6 High Dexterity Nitrile Dipped Gloves - L
48-73-7003	Cut Level 6 High Dexterity Nitrile Dipped Gloves - XL
48-73-7004	Cut Level 6 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7010	Cut Level 7 High Dexterity Nitrile Dipped Gloves - S
48-73-7011	Cut Level 7 High Dexterity Nitrile Dipped Gloves - M
48-73-7012	Cut Level 7 High Dexterity Nitrile Dipped Gloves - L
48-73-7013	Cut Level 7 High Dexterity Nitrile Dipped Gloves - XL
48-73-7014	Cut Level 7 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7020	Cut Level 8 High Dexterity Nitrile Dipped Gloves - S
48-73-7021	Cut Level 8 High Dexterity Nitrile Dipped Gloves - M
48-73-7022	Cut Level 8 High Dexterity Nitrile Dipped Gloves - L
48-73-7023	Cut Level 8 High Dexterity Nitrile Dipped Gloves - XL
48-73-7024	Cut Level 8 High Dexterity Nitrile Dipped Gloves - XXL
48-73-7030	Cut Level 9 High Dexterity Nitrile Dipped Gloves - S
48-73-7031	Cut Level 9 High Dexterity Nitrile Dipped Gloves - M
48-73-7032	Cut Level 9 High Dexterity Nitrile Dipped Gloves - L
48-73-7033	Cut Level 9 High Dexterity Nitrile Dipped Gloves - XL
48-73-7034	Cut Level 9 High Dexterity Nitrile Dipped Gloves - XXL



## GLOVES

### LIGHTWEIGHT WORK GLOVES

- Breathable Lining, Built-In Terry Cloth Sweat Wipe
- Hook & Loop Closure
- Thumb Tip Reinforce, SMARTSWIPE™ Touchscreen Compatible Knuckle



PART #	DESCRIPTION
48-73-8520	Lightweight Work Gloves – S
48-73-8521	Lightweight Work Gloves – M
48-73-8522	Lightweight Work Gloves – L
48-73-8523	Lightweight Work Gloves – XL
48-73-8524	Lightweight Work Gloves – XXL

### LIGHTWEIGHT WORK GLOVES WITH FLEXIBLE CUFF

- Breathable Lining
- Built-In Terry Cloth Sweat Wipe
- SMARTSWIPE™ Touchscreen Compatible Knuckle



PART #	DESCRIPTION
48-73-8510	Lightweight Work Gloves with Flexible Cuff – S
48-73-8511	Lightweight Work Gloves with Flexible Cuff – M
48-73-8512	Lightweight Work Gloves with Flexible Cuff – L
48-73-8513	Lightweight Work Gloves with Flexible Cuff– XL
48-73-8514	Lightweight Work Gloves with Flexible Cuff– XXL

### WRECKING WORK GLOVES

- TPR Knuckle Protection, Durable Padded Palm
- Hook & Loop Closure, Built-In Terry Cloth Sweat Wipe
- Reinforced Thumb Seam, SMARTSWIPE™ Touchscreen Compatible Knuckle



PART #	DESCRIPTION
48-73-8530	Wrecking Work Gloves– S
48-73-8531	Wrecking Work Gloves– M
48-73-8532	Wrecking Work Gloves– L
48-73-8533	Wrecking Work Gloves– XL
48-73-8534	Wrecking Work Gloves– XXL

### IMPACT WRECKING WORK GLOVES

- Impact Rated Enhanced TPR
- Durable Padded Palm
- Reinforced Thumb Seam



PART #	DESCRIPTION
48-73-8550	Impact Wrecking Work Gloves – S
48-73-8551	Impact Wrecking Work Gloves – M
48-73-8552	Impact Wrecking Work Gloves – L
48-73-8553	Impact Wrecking Work Gloves – XL
48-73-8554	Impact Wrecking Work Gloves – XXL

### IMPACT RESISTANT CUT LEVEL 3 NITRILE DIPPED GLOVES

- Impact Rated Enhanced TPR, Reinforced Nitrile Coating
- ANSI/ISEA Cut Level 3
- SMARTSWIPE™ Touchscreen Compatible Fingertips



PART #	DESCRIPTION
48-73-8130	Impact Resistant Cut Level 3 Nitrile Dipped Gloves – S
48-73-8131	Impact Resistant Cut Level 3 Nitrile Dipped Gloves – M
48-73-8132	Impact Resistant Cut Level 3 Nitrile Dipped Gloves – L
48-73-8133	Impact Resistant Cut Level 3 Nitrile Dipped Gloves – XL
48-73-8134	Impact Resistant Cut Level 3 Nitrile Dipped Gloves – XXL

### IMPACT RESISTANT CUT LEVEL 5 NITRILE DIPPED GLOVES

- Impact Rated Enhanced TPR
- Reinforced Nitrile Coating
- ANSI/ISEA 105 Cut Level 5
- SMARTSWIPE™ Touchscreen Compatible Fingertips



PART #	DESCRIPTION
48-73-8150	Impact Resistant Cut Level 5 Nitrile Dipped Gloves - S
48-73-8151	Impact Resistant Cut Level 5 Nitrile Dipped Gloves - M
48-73-8152	Impact Resistant Cut Level 5 Nitrile Dipped Gloves - L
48-73-8153	Impact Resistant Cut Level 5 Nitrile Dipped Gloves - XL
48-73-8154	Impact Resistant Cut Level 5 Nitrile Dipped Gloves - XXL

### CHAINSAW PROTECTIVE GLOVES

- TPR Knuckle Protection, Durable Padded Palm
- Hook & Loop Closure, Built-In Terry Cloth Sweat Wipe
- Reinforced Thumb Seam, SMARTSWIPE™ Touchscreen Compatible Knuckle



PART #	DESCRIPTION
4932493540	Chain Saw Gloves - 8/M
4932493541	Chain Saw Gloves - 9/L
4932493542	Chain Saw Gloves - 10/XL
4932493543	Chain Saw Gloves - 11/XXL



## GLOVES

## HIGH DEXTERITY POLYURETHANE DIPPED GLOVES

- 18 Gauge Knit for Total Mobility
- Reinforced Nitrile Coating Between Thumb and Index Finger
- Lighter and More Breathable
- SMARTSWIPE™ Touchscreen Compatible Fingertips



PART #	DESCRIPTION
48-73-8720	Cut Level 2 High-Dexterity Polyurethane Dipped Gloves - S
48-73-8721	Cut Level 2 High-Dexterity Polyurethane Dipped Gloves - M
48-73-8722	Cut Level 2 High-Dexterity Polyurethane Dipped Gloves - L
48-73-8723	Cut Level 2 High-Dexterity Polyurethane Dipped Gloves - XL
48-73-8724	Cut Level 2 High-Dexterity Polyurethane Dipped Gloves - XXL
48-73-8730	Cut Level 3 High-Dexterity Polyurethane Dipped Gloves - S
48-73-8731	Cut Level 3 High-Dexterity Polyurethane Dipped Gloves - M
48-73-8732	Cut Level 3 High-Dexterity Polyurethane Dipped Gloves - L
48-73-8733	Cut Level 3 High-Dexterity Polyurethane Dipped Gloves - XL
48-73-8734	Cut Level 3 High-Dexterity Polyurethane Dipped Gloves - XXL
48-73-8740	Cut Level 4 High-Dexterity Polyurethane Dipped Gloves - S
48-73-8741	Cut Level 4 High-Dexterity Polyurethane Dipped Gloves - M
48-73-8742	Cut Level 4 High-Dexterity Polyurethane Dipped Gloves - L
48-73-8743	Cut Level 4 High-Dexterity Polyurethane Dipped Gloves - XL
48-73-8744	Cut Level 4 High-Dexterity Polyurethane Dipped Gloves - XXL
48-73-8750	Cut Level 5 High-Dexterity Polyurethane Dipped Gloves - S
48-73-8751	Cut Level 5 High-Dexterity Polyurethane Dipped Gloves - M
48-73-8752	Cut Level 5 High-Dexterity Polyurethane Dipped Gloves - L
48-73-8753	Cut Level 5 High-Dexterity Polyurethane Dipped Gloves - XL
48-73-8754	Cut Level 5 High-Dexterity Polyurethane Dipped Gloves - XXL

## CUT &amp; SEWN ANTI-VIBRATION GLOVES

- Full Hand Vibration Reduction
- Reinforced in High-Wear Areas
- SMARTSWIPE™ Touchscreen Compatible Knuckle



NEW

PART #	DESCRIPTION
48-73-8770	Cut & Sewn Anti-Vibration Gloves - S
48-73-8771	Cut & Sewn Anti-Vibration Gloves - M
48-73-8772	Cut & Sewn Anti-Vibration Gloves - L
48-73-8773	Cut & Sewn Anti-Vibration Gloves - XL
48-73-8774	Cut & Sewn Anti-Vibration Gloves - XXL

## DIPPED ANTI-VIBRATION GLOVES

- Rest Vibration Reduction
- 18 Gauge - Total Mobility
- SMARTSWIPE™ Touchscreen Compatible Fingertips



NEW

PART #	DESCRIPTION
48-73-8760	Dipped Anti Vibration Gloves - S
48-73-8761	Dipped Anti Vibration Gloves - M
48-73-8762	Dipped Anti Vibration Gloves - L
48-73-8763	Dipped Anti Vibration Gloves - XL
48-73-8764	Dipped Anti Vibration Gloves - XXL

## HIGH VISIBILITY CUT RESISTANT POLYURETHANE DIPPED GLOVES

- Cut Resistant
- Better Fit
- High Visibility



PART #	DESCRIPTION
48-73-8910	High Visibility Cut Level 1 Polyurethane Dipped - S
48-73-8911	High Visibility Cut Level 1 Polyurethane Dipped - M
48-73-8912	High Visibility Cut Level 1 Polyurethane Dipped - L
48-73-8913	High Visibility Cut Level 1 Polyurethane Dipped - XL
48-73-8914	High Visibility Cut Level 1 Polyurethane Dipped - XXL
48-73-8920	High Visibility Cut Level 2 Polyurethane Dipped - S
48-73-8921	High Visibility Cut Level 2 Polyurethane Dipped - M
48-73-8922	High Visibility Cut Level 2 Polyurethane Dipped - L
48-73-8923	High Visibility Cut Level 2 Polyurethane Dipped - XL
48-73-8924	High Visibility Cut Level 2 Polyurethane Dipped - XXL
48-73-8930	High Visibility Cut Level 3 Polyurethane Dipped - S
48-73-8931	High Visibility Cut Level 3 Polyurethane Dipped - M
48-73-8932	High Visibility Cut Level 3 Polyurethane Dipped - L
48-73-8933	High Visibility Cut Level 3 Polyurethane Dipped - XL
48-73-8934	High Visibility Cut Level 3 Polyurethane Dipped - XXL
48-73-8940	High Visibility Cut Level 4 Polyurethane Dipped - S
48-73-8941	High Visibility Cut Level 4 Polyurethane Dipped - M
48-73-8942	High Visibility Cut Level 4 Polyurethane Dipped - L
48-73-8943	High Visibility Cut Level 4 Polyurethane Dipped - XL
48-73-8944	High Visibility Cut Level 4 Polyurethane Dipped - XXL
48-73-8950	High Visibility Cut Level 5 Polyurethane Dipped - S
48-73-8951	High Visibility Cut Level 5 Polyurethane Dipped - M
48-73-8952	High Visibility Cut Level 5 Polyurethane Dipped - L
48-73-8953	High Visibility Cut Level 5 Polyurethane Dipped - XL
48-73-8954	High Visibility Cut Level 5 Polyurethane Dipped - XXL

## CUT RESISTANT SLEEVES

- Protect Arms from Cuts and Abrasions
- High Stretch HPPE for Comfortable Fit
- Lightweight and Breathable



PART #	DESCRIPTION
48-73-9030	Cut Level 3 Sleeve - 16"
48-73-9031	Cut Level 3 Sleeve - 18"
48-73-9050	Cut Level 5 Sleeve - 16"
48-73-9051	Cut Level 5 Sleeve - 18"







# 4X

## LIFE IN REBAR\*

\*vs. 2 cutter drill bit in concrete

At MILWAUKEE™, we strive to do things better. To make life easier in the toughest working conditions. We pour our energy into the relentless improvement of our products, and even the most minor improvements begin with understanding the challenges of the jobsite.

This intrinsic understanding of the challenge has led to the creation of our next generation MX4™, a game-changer in drill bit technology. Solid carbide construction means longer life, Target Tip Technology and a sharper angled tip means greater accuracy and next level speed in drilling through the toughest materials.

MX4™ is the benchmark in SDS-Plus and SDS-Max drill bits. Because at MILWAUKEE™, every bit matters.



**NEW**



## TARGET TIP TECHNOLOGY

IMPROVED PERFORMANCE ON REBAR



**FULL CARBIDE TIP\***  
FOR BEST PERFORMANCE

\*≤10MM



**SHARPER ANGLED TIP**  
IMPROVED REBAR PERFORMANCE

# 116 HOLES PER CHARGE\*

\* at a depth of 50mm with a 6mm MX4 drill bit, using a 5.5amp High output battery.

## PRECISION GERMAN ENGINEERING



## 4 VARIABLE FLUTE DESIGN

FOR FASTER DRILLING



FOR PRECISE DRILLING



## CONCRETE DRILLING

### SDS-PLUS 4-CUTTER DRILL BITS

#### BIT SELECTION

RECOMMENDED GOOD ACCEPTABLE NOT RECOMMENDED

FEATURES	M 4	M 2
LIFE IN REBAR	RECOMMENDED	NOT RECOMMENDED
LIFE IN CONCRETE	RECOMMENDED	GOOD
FAST DRILLING SPEEDS	RECOMMENDED	RECOMMENDED
MATERIALS		
CONCRETE WITH REBAR	RECOMMENDED	NOT RECOMMENDED
CONCRETE	RECOMMENDED	RECOMMENDED
BRICK/BLOCK	RECOMMENDED	RECOMMENDED



Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
5	115	50		1	4932352007
5	165	100		1	4932352008
5.5	115	50		1	4932352009
5.5	165	100		1	4932352010
6	115	50		1	4932352011
6	165	100		1	4932352012
6	215	150		1	4932352013
6	265	200		1	4932352014
6	315	250		1	4932352015
6.5	115	50		1	4932430134
6.5	165	100		1	4932430146
6.5	215	150		1	4932352016
6.5	265	200		1	4932352017
6.5	315	250		1	4932352018
7	115	50		1	4932352019
7	165	100		1	4932352020
8	115	50		1	4932352021
8	165	100		1	4932352022
8	215	150		1	4932352023
8	265	200		1	4932352024
8	315	250		1	4932352712
8	465	400	•	1	4932352713
9	165	100		1	4932352944
10	115	50		1	4932352025
10	165	100		1	4932352026
10	215	150		1	4932352027
10	265	200		1	4932352028
10	315	250		1	4932352029
10	455	400	•	1	4932352030
10	600	550	•	1	4932352945
10	1000	950	•	1	4932352946
11	160	110		1	4932451990
11	210	160		1	4932451991
12	160	110		1	4932352031
12	210	160		1	4932352032
12	260	210		1	4932352033
12	310	260		1	4932352034
12	450	400	•	1	4932352035

Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
13	160	110		1	4932430136
13	210	160		1	4932464472
13	260	210		1	4932430137
13	310	260		1	4932471198
14	160	110		1	4932352036
14	210	160		1	4932352037
14	1000	950	•	1	4932352038
15	160	110		1	4932430725
15	210	160		1	4932430138
15	260	210		1	4932352952
15	450	400	•	1	4932451994
16	160	110		1	4932430726
16	210	160		1	4932352953
16	310	260		1	4932352954
16	600	550	•	1	4932352955
16	1000	950	•	1	4932352956
17	310	260		1	4932464069
17	450	400	•	1	4932464070
17	160	110		1	4932464474
17	260	210		1	4932464475
17	210	160		1	4932478474
18	250	200		1	4932356502
18	450	400	•	1	4932356503
20	250	200		1	4932356504
20	450	400	•	1	4932356505
22	450	400	•	1	4932356506
24	250	200		1	4932356507
24	450	400	•	1	4932356508
25	450	400	•	1	4932356509
28	450	400	•	1	4932356510
30	450	400	•	1	4932356511
22	250	200		1	4932399332
25	250	200		1	4932399333
28	250	200		1	4932399334
30	250	200		1	4932399335
32	450	400	•	1	4932399336

Pre-drill with a short drill-bit of the same diameter



# PROFESSIONAL

## FAST DRILLING IN CONCRETE



**25%**  
**FASTER**

3 BREAKER POINTS

\*vs. previous generation



**2**  
**VARIABLE**  
**FLUTE**  
**DESIGN**



**2**  
**CUTTER**  
IDEAL IN CONCRETE  
DRILLING APPLICATIONS  
WITH CORDLESS HAMMERS

## CONCRETE DRILLING

### SDS-PLUS 2-CUTTER DRILL BITS

#### BIT SELECTION

RECOMMENDED GOOD ACCEPTABLE NOT RECOMMENDED

FEATURES	M/4™	M/2™
LIFE IN REBAR	RECOMMENDED	NOT RECOMMENDED
LIFE IN CONCRETE	RECOMMENDED	GOOD
FAST DRILLING SPEEDS	RECOMMENDED	RECOMMENDED
MATERIALS		
CONCRETE WITH REBAR	RECOMMENDED	NOT RECOMMENDED
CONCRETE	RECOMMENDED	RECOMMENDED
BRICK/BLOCK	RECOMMENDED	RECOMMENDED



Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
3	110	50		1	4932352892
3.2	110	50		1	4932451961
3.5	110	50		1	4932373908
4	110	50		1	4932339498
4	160	110		1	4932399143
5	110	50		1	4932307067
5	140	80		1	4932344290
5	160	110		1	4932399315
5	210	160		1	4932399316
5.5	110	50		1	4932339499
5.5	160	110		1	4932340408
5.5	210	160		1	4932399317
5.5	260	210		1	4932399318
5.5	310	260		1	4932399319
5.5	410	350		1	4932399320
6	110	50		1	4932307068
6	160	110		1	4932307069
6	210	160		1	4932373136
6	260	210		1	4932353819
6	310	260		1	4932399321
6	460	400	•	1	4932399322
6.5	110	50		1	4932344292
6.5	160	110		1	4932344293
6.5	210	160		1	4932399147
6.5	260	210		1	4932399148
6.5	310	260		1	4932399323
7	110	50		1	4932353820
7	160	110		1	4932340409
7	210	160		1	4932399222
7	250	200		1	4932399324
8	110	50		1	4932307070
8	160	110		1	4932307071
8	210	160		1	4932307072
8	260	210		1	4932353821
8	310	260		1	4932399325
8	400	350		1	4932399326
8	460	400	•	1	4932367013
8	600	550	•	1	4932399327

Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
8	1000	950	•	1	4932399328
8.5	160	110		1	4932451962
8.5	210	160		1	4932451963
9	160	110		1	4932353823
9	210	160		1	4932353822
9.5	160	110		1	4932459101
9.5	310	260		1	4932451964
10	110	50		1	4932340410
10	160	110		1	4932307073
10	210	160		1	4932307074
10	260	210		1	4932344295
10	310	260		1	4932353824
10	350	290		1	4932451965
10	450	400	•	1	4932344296
10	600	550	•	1	4932367014
10	800	740	•	1	4932451966
10	1000	950	•	1	4932367015
10.5	160	110		1	4932451968
10.5	210	160		1	4932451969
10.5	260	210		1	4932451970
11	160	110		1	4932367066
11	210	160		1	4932451972
11	260	210		1	4932399329
12	160	110		1	4932307075
12	210	160		1	4932307076
12	260	210		1	4932344297
12	310	260		1	4932353825
12	360	310		1	4932451973
12	450	400	•	1	4932307077
12	600	550	•	1	4932367068
12	800	750	•	1	4932451974
12	1000	950	•	1	4932367017
12.5	160	110		1	4932451975
13	160	110		1	4932307946
13	210	160		1	4932451976
13	260	210		1	4932344298
13	310	260		1	4932451977

Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
13.5	160	110		1	4932459103
14	160	110		1	4932307078
14	210	160		1	4932353826
14	260	210		1	4932307079
14	310	260		1	4932399330
14	450	400	•	1	4932307088
14	600	550	•	1	4932367018
14	1000	950	•	1	4932367019
15	160	110		1	4932373910
15	210	160		1	4932451978
15	260	210		1	4932344300
15	450	400	•	1	4932451979
16	160	110		1	4932307080
16	210	160		1	4932307081
16	260	210		1	4932399331
16	310	260		1	4932344301
16	450	400	•	1	4932307082
16	600	550	•	1	4932367069
16	800	750	•	1	4932367020
16	1000	950	•	1	4932367021
17	210	160		1	4932451980
17	310	260		1	4932451981
17	450	400	•	1	4932451982
18	250	200		1	4932307083
18	200	150		1	4932344303
18	300	250		1	4932344304
18	450	400	•	1	4932340411
18	600	550	•	1	4932367022
18	1000	950	•	1	4932367024
19	200	150		1	4932367070
19	450	400	•	1	4932367071
20	250	200		1	4932307084
20	450	400	•	1	4932307085
20	200	150		1	4932344305
20	300	250		1	4932399027
20	600	550	•	1	4932367025
20	1000	950	•	1	4932367026

Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
22	250	200		1	4932373911
22	300	250		1	4932451984
22	450	400	•	1	4932344307
22	600	550	•	1	4932367027
22	1000	950	•	1	4932367029
23	250	200		1	4932451985
23	450	400	•	1	4932451986
24	250	200		1	4932373922
24	300	250		1	4932451987
24	450	400	•	1	4932307087
25	250	200		1	4932344308
25	300	250		1	4932451988
25	450	400	•	1	4932344309
25	600	550	•	1	4932451989
25	1000	950	•	1	4932367030
26	250	200		1	4932344310
26	450	400	•	1	4932344311

Pre-drill with a short drill-bit of the same diameter





# DRILL TO THE MAX.

## SDS-MAX MX4™ DRILL BITS

MILWAUKEE® Tool leads the way in accessories development and technology for the professional job site. Our relentless pursuit of innovation has resulted in the Next Generation MX4™ SDS-MAX drill bits, our most powerful and durable drill bit for toughest tasks on the job site.

Driven and developed by countless hours on the jobsite, MILWAUKEE® has created MX4™ SDS-MAX as a drill bit designed to offer the fastest performance and longest lifespan when drilling in reinforced concrete. Featuring MILWAUKEE® exclusive Target Tip Technology, SDS-MAX is larger than the standard SDS-PLUS bits, providing improved accuracy and performance in rebar as well as other heavy-duty applications.

**NEW**  
**TARGET TIP TECHNOLOGY**



**SHARPER ANGLED TIP**  
 IMPROVED REBAR PERFORMANCE



**2x**  
**LIFE IN REBAR\***

\* Vs previous generation

### 4 VARIABLE FLUTE DESIGN\*

FOR FASTER DRILLING

### PRECISION GERMAN ENGINEERING



**NEW**  
**TARGET TIP TECHNOLOGY**



**PGM**  
**RATED**

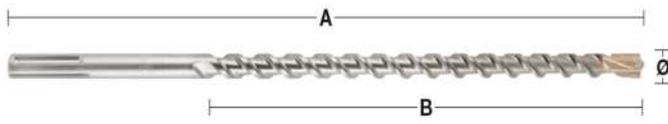


FOR PRECISE DRILLING

\*Variable 4 flute design for diameters up to 16mm, all larger diameters have a variable 2 flute design.

# CONCRETE DRILLING

## SDS-MAX 4-CUTTER DRILL BITS



Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
12	340	200		1	4932352750
12	540	400	•	1	4932352751
12	740	550	•	1	4932430727
14	340	200		1	4932352752
14	540	400	•	1	4932352753
15	340	200		1	4932352754
15	540	400	•	1	4932352755
16	340	200		1	4932352756
16	540	400	•	1	4932352757
16	940	800	•	1	4932352758
16	1320	1180	•	1	4932352759
18	340	200		1	4932352760
18	540	400	•	1	4932352761
18	940	800	•	1	4932352762
18	1320	1180	•	1	4932352763
20	320	200		1	4932352764
20	520	400	•	1	4932352765
20	920	800	•	1	4932352766
20	1320	1180	•	1	4932352767
22	320	200		1	4932352768
22	520	400	•	1	4932352769
22	920	800	•	1	4932352770
22	320	200		1	4932352771
24	320	200		1	4932352772
24	520	400	•	1	4932352773
25	320	200		1	4932352774
25	520	400	•	1	4932352775
25	920	800	•	1	4932352776
25	1320	1180	•	1	4932352777

Diameter Ø (mm)	Total Length A (mm)	Working Length B (mm)	Pre-Drill	Pack Quantity	Part Number
26	520	400	•	1	4932430728
28	370	250		1	4932352778
28	570	450	•	1	4932352779
28	670	550	•	1	4932352780
28	920	800	•	1	4932352781
28	1320	1180	•	1	4932352782
30	370	250		1	4932352783
30	570	450	•	1	4932352784
30	920	800	•	1	4932430729
32	370	250		1	4932352785
32	570	450	•	1	4932352786
32	920	800	•	1	4932352787
32	1320	1180	•	1	4932352788
35	370	250		1	4932352789
35	570	450	•	1	4932352790
35	670	550	•	1	4932430814
35	920	800	•	1	4932352791
38	370	250		1	4932352792
38	570	450	•	1	4932352793
40	370	250		1	4932352794
40	570	450	•	1	4932352795
40	920	800	•	1	4932352796
40	1320	1180	•	1	4932352797
45	570	450	•	1	4932352798
45	920	800	•	1	4932430730
50	570	450	•	1	4932430731
52	570	450	•	1	4932352799

Pre-drill with a short drill-bit of the same diameter



# SLEDGE™ CHISELS

# 3X MORE LIFE

\*VS STANDARD CHISELS

Our SLEDGE™ Chisels stay sharper for longer. Reinforced edges deliver maximum durability and reduced wear over the life of the chisel. We've engineered these chisels to maintain sharper edges for increased productivity with an optimized tip for fast removal of concrete, rust, cutting troughs, and asphalt.

No re-sharpening or re-hardening necessary for reduced downtime. High grade forged steel for maximum durability and longer life in concrete demolition over our standard scraping chisels. For use with SDS-Plus & Max rotary hammers.



**EXTRA LONG**  
WORKING LENGTH

**SELF-SHARPENING  
TIP**

MADE IN  
**GERMANY**

**RE-GRINDED TIP**  
STAYS SHARPER, BEST PERFORMANCE AND AVOIDS JAMMING

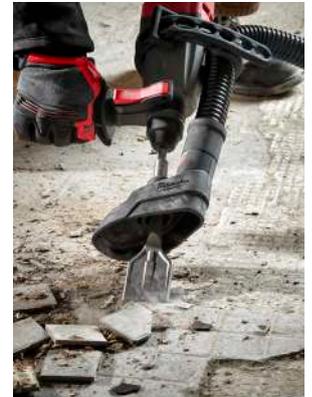


## CONCRETE SCRAPING

### CHISEL SELECTION

■ RECOMMENDED   
 ■ GOOD   
 ■ ACCEPTABLE   
 ■ NOT RECOMMENDED

TYPE	CONCRETE					
	GENERAL CHIPPING & BREAKING	STARTING A HOLE	SURFACE REMOVAL	TILE CHIPPING	FLOORING REMOVAL	TUCK POINTS, MORTAR REMOVAL
BULL POINT CHISEL						
FLAT CHISEL						
SCALING CHISEL						
SCRAPING CHISEL						
TILE CHISEL						
FLOOR SCRAPER						
MORTAR KNIFE						



### SDS-PLUS SLEDGE CHISELS

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	SLEDGE Bull Pointed Chisel	250	-	Starts a hole in concrete slabs, general chipping and breaking	1	4932493607
	SLEDGE Flat Chisel	250	20	General chipping and breaking	1	4932493609
	SLEDGE Wide Chisel	250	40	Cleans concrete, scale, rust, cuts troughs and some asphalt	1	4932478264
	SLEDGE Title Chisel	250	50	Removes tiles, laminates and other composite materials, removes concrete spillage	1	4932478265

### SDS-PLUS CHISELS

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	Bull Points Chisels	250	-	Starts a hole in concrete slabs, general chipping and breaking	1	4932339625
	Flat Chisel	250	20	General chipping and breaking	1	4932339626
	Concrete Channel Chisel	250	22	Creates a channel to run conduit in concrete	1	4932339627
	Tile Chisel	250	40	Removes tiles, laminates and other composite materials, removes concrete spillage	1	4932353424
	Floor Scraper	250	100	Removes flooring such as linoleum and laminate	1	4932352919
	Spare Replacement Scraper Blade	-	-	Spare Replacement Scraper Blade (Only for 4932352919)	1	4932352920

## SDS-MAX SLEDGE CHISELS

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	SLEDGE Bull Pointed Chisel	400	-	Starts a hole in concrete slabs, general chipping and breaking	1	4932478266
		400	-		20	4932478274
	SLEDGE Flat Chisel	400	25	General chipping and breaking	1	4932478267
		400	25		20	4932478275
	SLEDGE 2 Wide Chisel	380	50	Cleans concrete, scale, rust, cuts troughs and some asphalt	1	4932478268
					1	4932478269
	SLEDGE 3 Wide Chisel	300	80	Cleans concrete, scale, rust, cuts troughs and some asphalt	1	4932478269
					1	4932478270
	SLEDGE Title Chisel	380	50	Removes tiles, laminates and other composite materials, removes concrete spillage	1	4932478270
					1	4932478271

## SDS-MAX CHISELS

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	Bull Points	280	-	Starts a hole in concrete slabs, general chipping and breaking	1	4932343734
		400	-		1	4932343735
		600	-		1	4932343736
	Flat Chisel	280	25	General chipping and breaking	1	4932343737
		400	25		1	4932343738
		600	25		1	4932343739
	Concrete Channel Chisel	300	26	Creates a channel to run conduit in concrete	1	4932343740
	Wide Chisel	400	50	Cleans concrete, scale, rust, cuts troughs and some asphalt	1	4932343743
		300	80		1	4932343744
		300	115		1	4932343745

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	Tile Chisel	300	80	Removes tiles, laminates and other composite materials, removes concrete spillage	1	4932399234
	Clay Spade	400	110	Digs up clay, hard packed gravel and dirt	1	4932343747

## 28MM HEX CHISELS

Tip Type	Description	Total Length (mm)	Blade Width (mm)	Application	Pack Quantity	Part Number
	Bull Point	400	-	Starts a hole in concrete slabs, general chipping and breaking	1	4932459774
	Flat Chisel	400	35	General chipping and breaking	1	4932459775
	Wide Chisel	400	80	Cleans concrete, scale, rust, cuts through and some asphalt	1	4932459776
	Clay Spade	400	125	Digs up clay, hard-packed gravel and dirt	1	4932479221
	Asphalt Cutter	440	115	Cuts asphalt or hard ground (DO NOT use for concrete)	1	4932479222
	Tamper Plate	200	200	Compact dirt, tamps asphalt	1	4932479224
	Taper Tool Holder	390	-	Tool holder for tamper plate. (Recommended to use with 4932479224)	-	4932479223



## MASONRY DIAMOND CORING

### DIAMOND CORE BIT SELECTION GUIDE

■ OPTIMAL   
 ■ GOOD   
 ■ ACCEPTABLE   
 ■ NOT RECOMMENDED

		DIAMOND ULTRA		DIAMOND PREMIUM	DIAMOND
		 WET: TALL, THIN, SEGMENT	 DRY: TALL, THIN, SEGMENT	 TURBO SEGMENT	 FLAT SEGMENT
	SPEED				
	RUNTIME				
	EASY STARTS				
	DIAMOND QUALITY				
MATERIALS	REBAR				
	CONCRETE				

### DIAMOND ULTRA WET CORE BITS

**NEW**



Diameter Size (mm)	Thread (inch)	Part Number
51	1-1/4"-7	48-17-5020
64	1-1/4"-7	48-17-5025
76	1-1/4"-7	48-17-5030
89	1-1/4"-7	48-17-5035
102	1-1/4"-7	48-17-5040
114	1-1/4"-7	48-17-5045

Diameter Size (mm)	Thread (inch)	Part Number
127	1-1/4"-7	48-17-5050
152	1-1/4"-7	48-17-5060
203	1-1/4"-7	48-17-5080
254	1-1/4"-7	48-17-5100
305	1-1/4"-7	48-17-5120
356	1-1/4"-7	48-17-5140

## DIAMOND PREMIUM WET CORE BITS

NEW



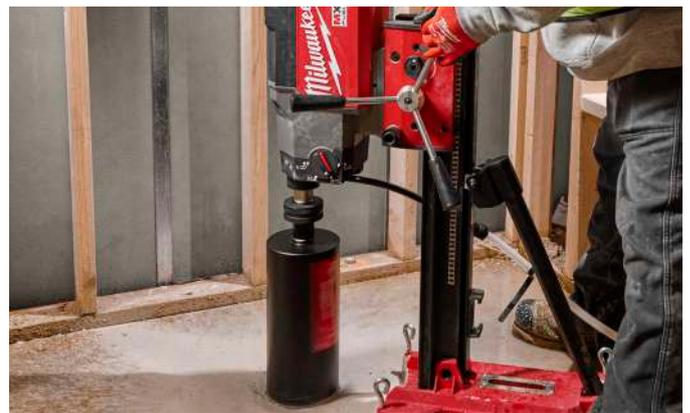
Diameter Size (mm)	Thread (inch)	Part Number
51	1-1/4"-7	48-17-3020
64	1-1/4"-7	48-17-3025
70	1-1/4"-7	48-17-3027
76	1-1/4"-7	48-17-3030
89	1-1/4"-7	48-17-3035
102	1-1/4"-7	48-17-3040

Diameter Size (mm)	Thread (inch)	Part Number
108	1-1/4"-7	48-17-3042
114	1-1/4"-7	48-17-3045
127	1-1/4"-7	48-17-3050
152	1-1/4"-7	48-17-3060
156	1-1/4"-7	48-17-3062
178	1-1/4"-7	48-17-3070

Diameter Size (mm)	Thread (inch)	Part Number
203	1-1/4"-7	48-17-3080
229	1-1/4"-7	48-17-3090
254	1-1/4"-7	48-17-3100
305	1-1/4"-7	48-17-3120
356	1-1/4"-7	48-17-3140

## DIAMOND STANDARD WET CORE BITS

NEW



Diameter Size (mm)	Thread (inch)	Part Number
64	1-1/4"-7	48-17-2025
76	1-1/4"-7	48-17-2030
89	1-1/4"-7	48-17-2035
102	1-1/4"-7	48-17-2040
108	1-1/4"-7	48-17-2042
114	1-1/4"-7	48-17-2045

Diameter Size (mm)	Thread (inch)	Part Number
127	1-1/4"-7	48-17-2050
152	1-1/4"-7	48-17-2060



## MASONRY DIAMOND CUTTING

### OVERVIEW

MILWAUKEE™ Diamond Blades are designed to the highest standards, using only quality diamonds. Diamond Blade line will cover a full range of materials including specialized blades for green concrete, asphalt and ductile iron. All MILWAUKEE™ Blades are designed for both wet and dry cutting.

### DIAMOND CUTTING BLADES SELECTION GUIDE

- 1 Identify the material to be cut in the columns below
- 2 Choose the appropriate product **OPTIMAL** , **GOOD** , **ACCEPTABLE** or **NOT RECOMMENDED**

**OPTIMAL**   **GOOD**   **ACCEPTABLE**   **NOT RECOMMENDED**

		CURED CONCRETE	REINFORCED CONCRETE	BLOCK/MASONRY	BRICK	PAVER	STONE	ASPHALT	GREEN CONCRETE	DUCTILE IRON	MORTAR
GENERAL PURPOSE	<b>DIAMOND</b>										
	AVAILABLE IN: 12" & 14"										
	<b>DIAMOND PREMIUM</b>										
	AVAILABLE IN SEGMENTED: 4", 4-1/2", 7", 12", 14"										
	AVAILABLE IN TURBO: 4", 4-1/2", 7"										
	<b>DIAMOND ULTRA</b>										
AVAILABLE IN: 12", 14"											
SPECIALTY	<b>DIAMOND UNIVERSAL</b>										
	AVAILABLE IN: 4", 4-1/2", 7", 12", 14"										
	<b>ASPHALT &amp; GREEN CONCRETE</b>										
	AVAILABLE IN: 12", 14"										
SPECIALTY	<b>DUCTILE IRON</b>										
	AVAILABLE IN: 12", 14"										
	<b>TUCK POINT</b>										
AVAILABLE IN: 4-1/2"											

Segment	Type	Image Blade	Disc Diameter (mm)	Bore Size (mm)	Application	Feature and Image Application	Part Number
Diamond Ultra	Diamond Ultra Segmented Blade		350	20	Cured Concrete, Reinforced Concrete, Stone, Paver, Brick, Block and Masonry	Maximum Run-Time Maximum Durability	49-93-7540
Diamond Premium	Diamond Premium Segmented Blade		350	20		Fast cutting	49-93-7940
Diamond Standard	Diamond Segmented Blade		350	20		Standard cutting	49-93-7040
Diamond Universal	Diamond Universal Segmented Blade		350	20	Cured Concrete, Reinforced Concrete, Brick, Block, Paver, Stone, Asphalt and Green Concrete	Fast and smooth cutting	49-93-7140
Specialty	Diamond Ductile Iron Segmented Blade		350	20	Ductile Iron	Specialty	49-93-7340
Specialty	Diamond Asphalt Segmented Blade		350	20	Green Concrete and Asphalt	Specialty	49-93-7240

## OVERVIEW

MILWAUKEE™ SPEEDCROSS™ Diamond Blades are engineered for all construction site professionals who demand only the best in performance when working in the toughest environments. SPEEDCROSS™ Diamond Blades lines will cover a full range of materials with Maximum Speed, Longer Life and Low Vibration.

Segment	Type	Image Blade	Disc Diameter (mm)	Bore Size (mm)	Application	Feature and Image Application	Part Number
SPEEDCROSS	HUDD		350	25.40	Suitable for the hardest materials: heavily reinforced concrete, granite, marble, pure steel, cast iron		4932471985
SPEEDCROSS	AUDD		350	25.40	Suitable for the abrasive materials: masonry, bricks, poroton, green concrete, lime or sandstone, aerated concrete, screed & asphalt		4932471987
SPEEDCROSS	Steel Head		350	25.40	STEELHEAD is most suitable for steel and stainless steel. Also suitable for heavily reinforced concrete		4932471988
	Steel Head		230	22.23			4932492016
Standard	DUH		350	25.40	Suitable for the hard materials such as hard concrete, block paviors and masonry products.		4932471986
			230	22.23			4932399542
Standard	DHTI		230	22.23	Specifically designed turbo rimmed blade for clean cut edges in ceramic tiles and thin natural stone tiles / slabs		4932399555





## 2 CUTTER CARBIDE TIP

- Allows drilling into concrete, bricks, roof tiles, cinderblocks, thin metal, ceramic, tiles, wood, PVC, aluminium, drywall, mortar and plywood
- Very popular drill bits for plumbers because of the versatility

## WHITE FLUTE

- To identify the drill bit easily in the users toolbox
- First to market with a white flute

## HEX SHANK

- To use with an impact driver and all types of 3 jaw chucks tool like a (percussion) drill driver
- Ensures a safe grip also in standard 3 jaw chucks

# MULTI MATERIAL DRILL BITS

Our Multi-Material Drill Bits are the most versatile bits, designed to tackle materials such as brick, block, concrete, steel, aluminium, ceramic tile, wood, PVC, and drywall. The aggressive multi-grind carbide tip delivers up to 10x longer life in stacked materials and up to 85% faster drilling speeds in metal. Equipped with a 1/4" hex shank, these general-purpose bits are compatible with impact drivers.

# SHOCKWAVE IMPACT DUTY™ CARBIDE MULTI-MATERIAL DRILL BITS

- Up to 85% faster in metal vs. standard masonry drill bits
- Up to 10x longer life in stacked materials
- For use with brick, block, concrete, steel, aluminum, ceramic tile, backer-board, wood, PVC, and drywall
- SHOCKWAVE Impact Duty™ engineered for hammer drill/drivers and impacts
- Use in hammer mode for faster drilling in masonry and concrete
- Durable carbide tip for a wide range of tough applications
- Ideal for drilling through layered materials
- Less bit changes for increased productivity



## MULTI-MATERIAL DRILL BIT

Diameter	Length	Shank Type	Part Number
3mm	90MM	1/4" Hex 	4932471091
4mm	90MM	1/4" Hex 	4932471092
5mm	100MM	1/4" Hex 	4932471093
5mm	150MM	1/4" Hex 	4932493873
5.5mm	100MM	1/4" Hex 	4932471094
5.5mm	150MM	1/4" Hex 	4932471095
6mm	100MM	1/4" Hex 	4932471096
6mm	150MM	1/4" Hex 	4932471097
6mm	200MM	1/4" Hex 	4932471098
6mm	400MM	1/4" Hex 	4932471099
6.5mm	100MM	1/4" Hex 	4932493874
6.5mm	150MM	1/4" Hex 	4932471100
6.5mm	200MM	1/4" Hex 	4932471101
6.5mm	400MM	1/4" Hex 	4932471102
7mm	100MM	1/4" Hex 	4932471103

Diameter	Length	Shank Type	Part Number
7mm	150MM	1/4" Hex 	4932493875
8mm	120MM	1/4" Hex 	4932471104
8mm	260MM	1/4" Hex 	4932471105
8mm	400MM	1/4" Hex 	4932471106
10mm	120MM	1/4" Hex 	4932471107
10mm	260MM	1/4" Hex 	4932471108
10mm	400MM	1/4" Hex 	4932471109
12mm	150MM	1/4" Hex 	4932471110
12mm	260MM	1/4" Hex 	4932471111
12mm	400MM	1/4" Hex 	4932493876
14mm	260MM	1/4" Hex 	4932493877
14mm	400MM	1/4" Hex 	4932493878
16mm	260MM	1/4" Hex 	4932493879
16mm	400MM	1/4" Hex 	4932493880



## MULTI-MATERIAL DRILL BIT SET (8PC)

Part Number	4932493871	4932493872
Description	8PC Carbide Multi-material Drill Bit Sets 1/4" Hex 	8PC Carbide Multi-material Drill Bit Sets 1/4" Hex 
Includes	4mm, (2) 5mm, (2) 6mm, 8mm, 10mm, 12mm	4mm, 5mm, 5.5mm, (2) 6mm, 7mm, 8mm, 10mm



## CARBIDE HAMMER DRILL BITS

- POWER TIP™ with dynamic cutting edges provides ultimate material disruption for increased productivity (available in sizes 10mm and above)
- Robust carbide for up to 9x life in concrete
- Precision ground carbide tip design for up to 4x faster speeds in concrete
- Easier Drilling. Start to Finish.
- Chip Breaker disperses material load throughout tip for balanced drilling experience
- Sharpened carbide edges for faster starts and less bit walking
- Equipped with 3-FLAT Shank to prevent bit from slipping in the drill chuck
- Carbide hammer drill bits available in diameters 3mm to 16mm.
- For use in concrete, brick, and block



### CARBIDE HAMMER DRILL BIT

Diameter	Length	Shank Type	Powertip (Dynamic Cutting Edges)	Part Number
3mm	90MM	3-FLAT	NO	4932471167
4mm	90MM	3-FLAT	NO	4932493883
5mm	90MM	3-FLAT	NO	4932471169
5mm	100MM	3-FLAT	NO	4932471171
5mm	150MM	3-FLAT	NO	4932493884
5.5mm	100MM	3-FLAT	NO	4932471173
5.5mm	150MM	3-FLAT	NO	4932493885
6mm	100MM	3-FLAT	NO	4932471175
6mm	150MM	3-FLAT	NO	4932471176
6mm	250MM	3-FLAT	NO	4932493886
6.5mm	100MM	3-FLAT	NO	4932471178
6.5mm	150MM	3-FLAT	NO	4932471179
7mm	100MM	3-FLAT	NO	4932471180
7mm	150MM	3-FLAT	NO	4932471181
8mm	100MM	3-FLAT	NO	4932471182
8mm	150MM	3-FLAT	NO	4932471183
8mm	200MM	3-FLAT	NO	4932493887
8mm	400MM	3-FLAT	NO	4932493888
9mm	120MM	3-FLAT	NO	4932493889

Diameter	Length	Shank Type	Powertip (Dynamic Cutting Edges)	Part Number
10mm	150MM	3-FLAT	YES	4932471186
10mm	260MM	3-FLAT	YES	4932471187
10mm	400MM	3-FLAT	YES	4932493890
11mm	150MM	3-FLAT	YES	4932493891
12mm	150MM	3-FLAT	YES	4932471188
12mm	260MM	3-FLAT	YES	4932471189
12mm	400MM	3-FLAT	YES	4932493892
14mm	150MM	3-FLAT	YES	4932471190
14mm	260MM	3-FLAT	YES	4932471191
16mm	160MM	3-FLAT	YES	4932493893



### CARBIDE HAMMER DRILL BIT SET (8PC)

Part Number	4932493881	4932493882
Description	8PC Carbide Multi-material Drill Bit Sets 3-FLAT	8PC Carbide Multi-material Drill Bit Sets 3-FLAT
Includes	4mm, 5mm, 5.5mm, (2) 6mm, 7mm, 8mm, 10mm	4mm, (2) 5mm, (2) 6mm, 8mm, 10mm, 12mm
Powertip (Dynamic Cutting Edges) on 10mm Diameters & up		

## GLASS AND TILE BITS

- Suitable for drilling in non toughened glass, soft to medium hardness tiles and ceramics.
- Sharpened carbide for faster drilling.
- Reinforced carbide head for increased durability. Red painted tip.
- From Ø 5 mm the glass & tile drill bits are supplied with a multi-flat shank to prevent the drill bit slipping in the chuck.

Diameter (mm) Ø	Pack Quantity	Part Number
3	1	4932471955
4	1	4932471956
5	1	4932471957
5.5	1	4932471855
6	1	4932471958
6.5	1	4932471856
7	1	4932471857
8	1	4932471959
10	1	4932471960
12	1	4932471961
14	1	4932471858
16	1	4932471859
Glass and Tile Drill Set (5pc) (5) X Ø 4mm, 5mm, 2 x 6mm, 8mm		4932479948

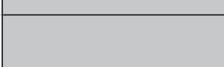
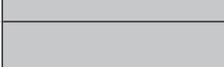
## TILE AND MASONRY DRILLING SECTION

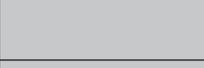
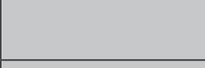
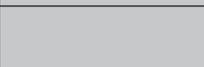
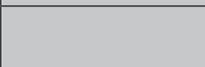
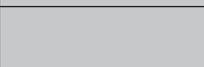
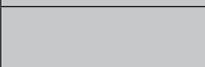
 OPTIMAL

 GOOD

 ACCEPTABLE

 NOT RECOMMENDED

MATERIALS	GLASS & TILE	
	EXACT START TIP	
GLASS TILE 		
CERAMIC 		
SLATE 		
MARBLE 		
STONE 		
GRANITE 		
PORCELAIN 		

MATERIALS	ROTARY MASONRY	HAMMER DRILL	MULTI-MATERIAL
		BEST IN CONCRETE	MOST VERSATILE BIT
BLOCK 			
BRICK 			
CONCRETE 			
METAL 			
WOOD 			
PVC 			
TILE 			
CEMENT BOARD 			



# HIGH PERFORMANCE DRILL BITS

**RED  
HEX**

**HSS-TIN METAL  
DRILL BITS**

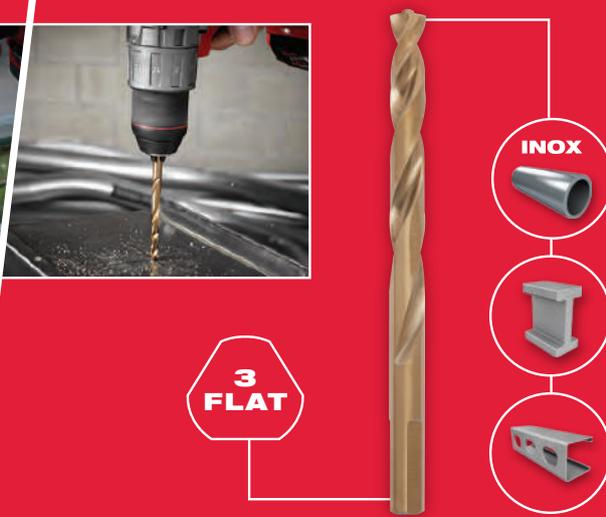
**RED  
COBALT**

**HSS-CO METAL  
DRILL BITS**

**SHOCKWAVE**  
IMPACT DUTY 



**FOR IMPACTS  
AND DRILLS**



**QUAD  
EDGE™  
TIP**



**VARIABLE  
FLUTE**



**ENHANCED  
TAPERED  
WEB**

## RED HEX & RED COBALT SPECIFICATIONS

### QUAD EDGE™ TIP

- Unique combination of 135° split point and four cutting edges.
- Allows for precise and fast drilling start without walking.
- Four cutting edges create smaller chips to prevent heat build up to ensure longer life.

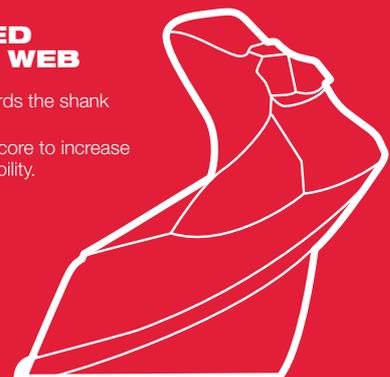
### VARIABLE FLUTE GEOMETRY

- Faster material ejection.
- Helps the bit run cooler and prevent it from burning out faster.

### ENHANCED TAPERED WEB

- Wider core towards the shank of the drill bit.
- Strengthens the core to increase overall flute durability.

Quad Edge™ Tip on sizes > Ø 4.5 mm. 3-Flat on HSS-Co sizes > Ø 5 mm.



## RED HELIX™ COBALT DRILL BITS - METRIC

- RED HELIX™ Cobalt Drill Bits are engineered for extreme durability and longer life in hard metal applications.
- RED HELIX™ Cobalt Drill Bits feature a QUAD EDGE™ Tip designed with four cutting edges that help decrease heat buildup and allow for faster drilling.
- These bits also feature an Enhanced Tapered Web, strengthening the bits' cores to increase flute durability, and a Variable Helix flute including an aggressive 35 degrees Helix Angle which ends at 15 degrees
- Designed to provide precision starts and prevent walking for fast, accurate holes in Wood, PVC, Mild Steel and Stainless Steel.



**RED  
HELIX™**

### RED HELIX™ COBALT DRILL BITS - METRIC

Descriptions	Includes	Part Number
 <p>19 Pc Metric RED HELIX™ Cobalt Drill Bit Set</p>	<p>(1) Ø 1 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 1.5 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 2 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 2.5 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 3 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 3.5 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 4 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 4.5 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 5 mm Cobalt RED HELIX™ Drill Bit                      (1) Ø 5.5 mm Cobalt RED HELIX™ Drill Bit</p> <p>(1) 6 mm Cobalt RED HELIX™ Drill Bit                      (1) 6.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 7 mm Cobalt RED HELIX™ Drill Bit                      (1) 7.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 8 mm Cobalt RED HELIX™ Drill Bit                      (1) 8.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 9 mm Cobalt RED HELIX™ Drill Bit                      (1) 9.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 10 mm Cobalt RED HELIX™ Drill Bit</p>	48-89-2530
 <p>25 Pc Metric RED HELIX™ Cobalt Drill Bit Set</p>	<p>(1) 1 mm Cobalt RED HELIX™ Drill Bit                      (1) 1.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 2 mm Cobalt RED HELIX™ Drill Bit                      (1) 2.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 3 mm Cobalt RED HELIX™ Drill Bit                      (1) 3.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 4 mm Cobalt RED HELIX™ Drill Bit                      (1) 4.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 5 mm Cobalt RED HELIX™ Drill Bit                      (1) 5.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 6 mm Cobalt RED HELIX™ Drill Bit                      (1) 6.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 7 mm Cobalt RED HELIX™ Drill Bit</p> <p>(1) 7.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 8 mm Cobalt RED HELIX™ Drill Bit                      (1) 8.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 9 mm Cobalt RED HELIX™ Drill Bit                      (1) 9.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 10 mm Cobalt RED HELIX™ Drill Bit                      (1) 10.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 11 mm Cobalt RED HELIX™ Drill Bit                      (1) 11.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 12 mm Cobalt RED HELIX™ Drill Bit                      (1) 12.5 mm Cobalt RED HELIX™ Drill Bit                      (1) 13 mm Cobalt RED HELIX™ Drill Bit</p>	48-89-2531



## SHOCKWAVE™ RED HELIX™ TITANIUM HEX DRILL BIT SETS

- SHOCKWAVE Impact Duty™ RED HELIX™ Titanium Drill Bits are engineered for use in Impacts and Drill/Drivers with 1/4" Hex Shank.
- RED HELIX™ Drill Bits feature a QUAD EDGE™ Tip designed with four cutting edges that help decrease heat buildup and allow for faster drilling.
- These bits also feature an Enhanced Tapered Web, strengthening the bits' cores to increase flute durability, and a Variable Helix flute including an aggressive 35 degrees Helix Angle which ends at 15 degrees.
- Designed to provide precision starts and prevent walking for fast, accurate holes in Wood, PVC and Mild Steel.



Descriptions	Includes	Part Number
 <p>10 Pc Metric SHOCKWAVE RED HELIX™ Titanium Drill Bit Set</p>	<p>(1) Ø 3 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 3.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5 mm Metric Titanium SHOCKWAVE RED HELIX™</p> <p>(1) Ø 6 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10 mm Metric Titanium SHOCKWAVE RED HELIX™</p>	48-89-4859
 <p>19 Pc Metric SHOCKWAVE RED HELIX™ Titanium Drill Bit Set</p>	<p>(1) Ø 2 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 2.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 3 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 3.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 4 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6 mm Metric Titanium SHOCKWAVE RED HELIX™</p> <p>(1) Ø 6.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10 mm Metric Titanium SHOCKWAVE RED HELIX™</p>	48-89-4860
 <p>25 Pc Metric SHOCKWAVE RED HELIX™ Titanium Drill Bit Set</p>	<p>(1) Ø 2 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 2.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 3 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 3.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 4 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7.5 mm Metric Titanium SHOCKWAVE RED HELIX™</p> <p>(1) Ø 8 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 11 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 11.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 12 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 12.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 13 mm Metric Titanium SHOCKWAVE RED HELIX™</p>	48-89-4861
 <p>29 Pc Metric SHOCKWAVE RED HELIX™ Titanium Drill Bit Set</p>	<p>(1) Ø 2 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 2.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 3 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 3.2 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 3.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (2) Ø 4 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.2 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 4.8 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 5.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 6.8 mm Metric Titanium SHOCKWAVE RED HELIX™</p> <p>(1) Ø 7 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 7.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 8.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 9.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 10.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 11 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 11.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 12 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 12.5 mm Metric Titanium SHOCKWAVE RED HELIX™                      (1) Ø 13 mm Metric Titanium SHOCKWAVE RED HELIX™</p>	48-89-4862

# COBALT STEP DRILLS



New Aluminum Chromium Nitride (AlCrN) coating for 10x more life vs. MILWAUKEE™ standard step drill. For steel and stainless steel.

## MATERIALS:

STEEL	COPPER	BRASS	ALUMINIUM	STAINLESS STEEL	PLASTIC
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- 1 RAPID STRIKE TIP™: Accurate start without walking and fast drilling without the need to pre-drill the material.
- 2 Optimised 2 flute ground sharpened edge geometry for 2 x faster and smoother cutting.
- 3 Special tip and step geometry for jam-free performance - less risk of drill snagging when used with high speed cordless tools and also prevents deformation of the drilled material.
- 4 Produced from custom engineered steel with black oxide coating for 4 x longer life.
- 5 Laser engraved size markings for best long term visibility.
- 6 Each step is relief ground to drill and deburr automatically.
- 7 With 3 flat secure grip to prevent step drill from slipping in the chuck and ensure maximum transmission of torque.



## TRADES:



Drilling of panels and cabinets for cable gland installation



Access holes for pipework and installation



Various sizes and hole enlargement



Holes for cable installation

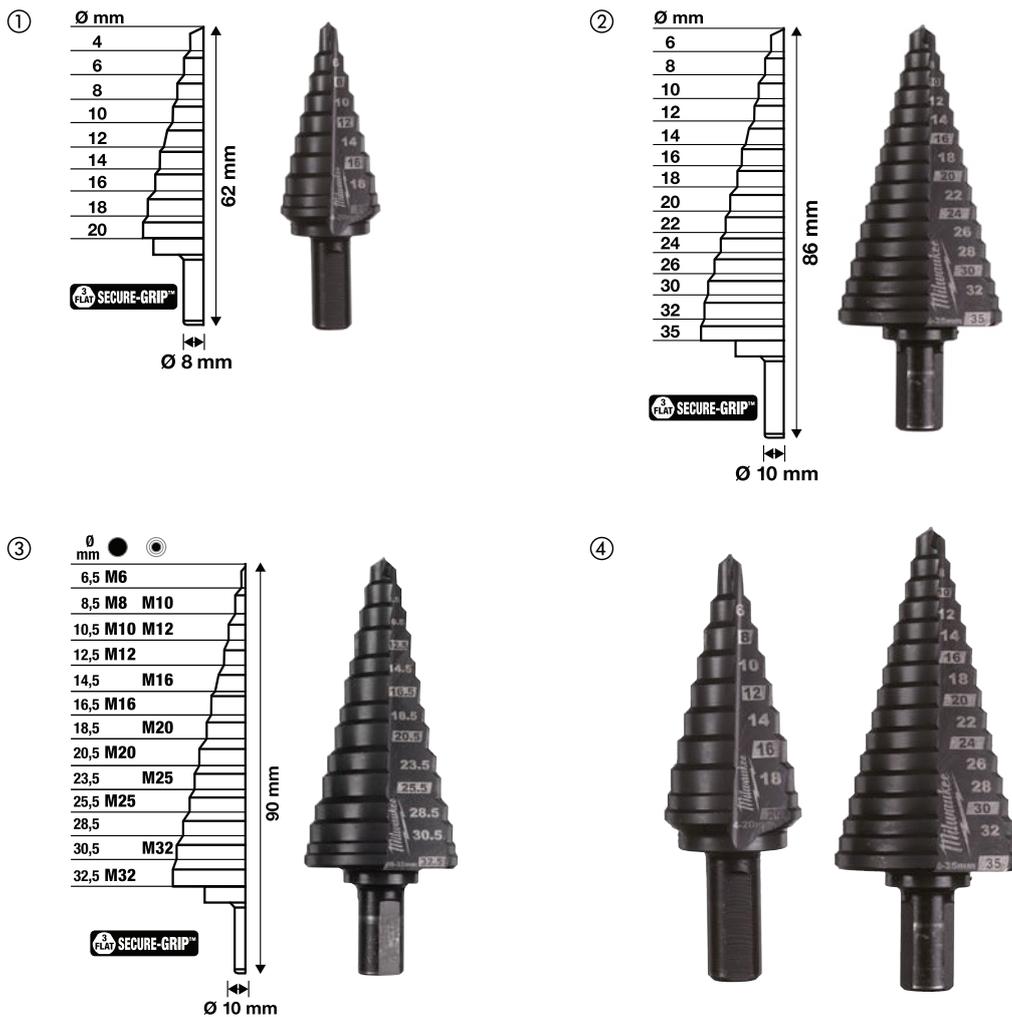


Various applications, sizes and hole enlargement

## COBALT STEP DRILL BIT

- New Aluminum Chromium Nitride (AlCrN) coating for 10x more life vs. MILWAUKEE standard step drill.
- For steel and stainless steel.
- RAPID STRIKE TIP™: Accurate start without walking and fast drilling without the need to pre-drill the material.
- Special tip and step geometry for jam-free performance - less risk of drill snagging when used with cordless tools and also prevents deformation of the drilled material.
- Optimised 2 flute ground sharpened edge geometry for 2 x faster and smoother cutting.
- With 3 flat secure grip to prevent step drill from slipping in the chuck and ensure maximum transmission of torque.
- Laser engraved size markings for best long term visibility.

Description	Shank Diameter (mm)	Overall Length (mm)	No. of Steps	Pack Quantity	Min. order quantity	Article Number	EAN Code
① 4 - 20 mm	8	62	10	1	1	<b>48899372</b>	045242603862
② 6 - 35 mm	10	86	16	1	1	<b>48899395</b>	045242567676
③ M6 - M32	10	90	1	1	<b>48899380</b>	045242567652	
④ <b>Cobalt Step Drill Set (2 Pc)</b> Includes 2 cobalt step drill bits: 4 - 20 mm, 6 - 35 mm				2	1	<b>48899398</b>	045242529216

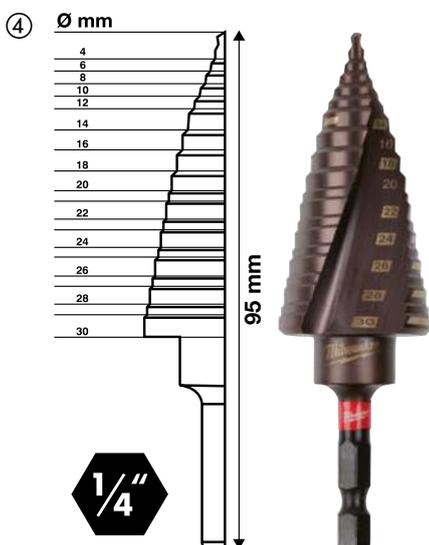
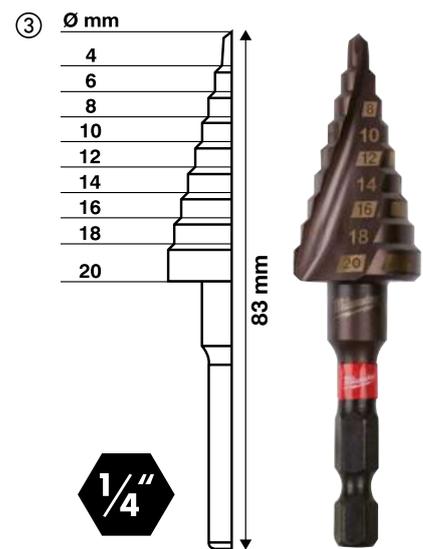
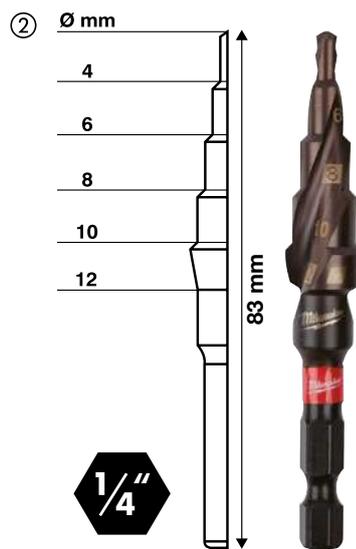
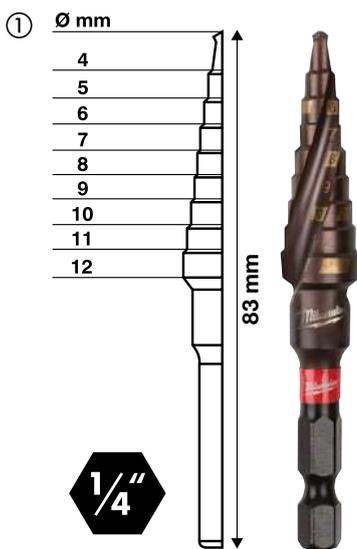


### SHOCKWAVE IMPACT DUTY TM STEP DRILL BIT

- SHOCKWAVE Impact Duty TM step drills are designed to deliver best-in-class performance in impact drivers and also the versatility to be used in drill drivers.
- The 1/4" Hex shank with an optimised SHOCKZONE TM ensures maximum durability by preventing early shank breaks.
- New Titanium Aluminium Nitride coating helps to reduce heat generation for 5x more life.
- RAPID STRIKE TIP TM : Accurate start without walking and fast drilling without the need to pre-drill the material.
- Dual spiral flute design: Optimised for impact driver speed and for smooth, jam-free drilling.
- Laser engraved markings: Do not wear away with time.

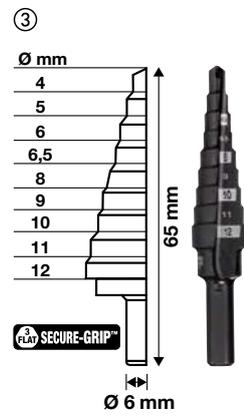
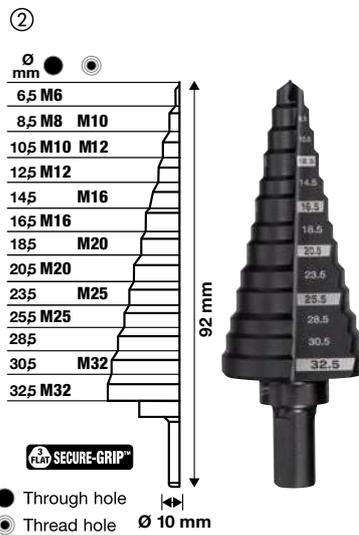


Description	Shank Diameter (mm)	Overall Length (mm)	No. of Steps	Pack Quantity	Min. Order Quantity	Article Number	EAN Code
① 4 - 12 mm / 1"	1/4" Hex	83	9	1	1	48899261	045242505166
② 4 - 12 mm / 2"	1/4" Hex	83	5	1	1	48899262	045242505173
③ 4 - 20 mm	1/4" Hex	83	9	1	1	48899263	045242505180
④ 4 - 30 mm	1/4" Hex	95	12	1	1	48899265	045242505203
⑤ <b>SHOCKWAVE Impact Duty Step Drill Set (3 Pc)</b> Includes 3 SHOCKWAVE Step Drill Bits: 4 - 12 mm/1, 4 - 20 mm, 4 - 30 mm				3	1	48899266	045242505210



# STEP DRILL BIT

	Description	Shank Diameter (mm)	Overall Length (mm)	No. of Steps	Pack Quantity	Min. Order Quantity	Article Number	EAN Code
①	PG7 - PG21	10	68	9	1	1	48899321	045242364060
②	M6 - M32	10	92	13	1	1	48899332	045242344437
③	4 - 12 mm / 1	6	65	9	1	1	48899301	045242342532
④	4 - 20 mm	8	65	9	1	1	48899320	045242344406
⑤	6 - 35 mm	10	90	14	1	1	48899335	045242344413
⑥	<b>Step Drill Set (3 Pc)</b> Includes 3 Step Drill Bits: 4 - 12 mm/1, 4 - 20 mm, 6 - 35 mm				3	1	48899399	045242344420



# HSS DRILL BIT APPLICATION GUIDE

Material Class	Material Type	Hardness / Tensile Strength N/mm <sup>2</sup>	Rockwell	RED COBALT – HSS-Ground - DIN 338	RED HEX – Shockwave HSS-Ground Titanium	Step Drills	Shockwave Step Drills	Cobalt Step Drills	Cooling Agent
Steel	Non-alloyed construction steel, non-alloyed case hardened steel	< 400	< HRB 69	●	●	●	●	●	Drilling emulsion, cutting oil
		400 –800	< HRC 21	●	●	●	●	●	
	Sheet Steel	< 800	< HRC 21	●	●	●	●	●	Drilling emulsion, ester oil
	Non-alloyed tool steel	< 800	< HRC 21	●	●	●	●	●	Drilling emulsion, cutting oil
	Alloyed tool steel	< 800	< HRC 21	●	●	●	●	●	Drilling emulsion, ester oil
		> 800	> HRC 21	●	●	▲	▲	●	
Alloyed hardened & tempered steel	< 1200	< HRC 37	●	●	▲	▲	▲	Drilling emulsion, ester oil	
	> 1200	> HRC 38	●	●	▲	▲	▲		
Stainless Steel	Stainless steel <	1000	< HRC 30	●	●	▲		●	Rapeseed oil, cutting oil
	Stainless steel	1000 –1200	HRC 30–37	●	●	▲		●	
Cast Iron	Malleable cast iron	750	HRB 99	●	●	●	●	●	Dry
	Soft	450	HRB 75	●	●	▲		●	Drilling emulsion, cutting oil
	Hard	700	HRB 96	●	●	●	●	●	
Aluminium		< 350	< HRC 59	●	●	●	●	●	Drilling emulsion, cutting oil
Copper				●	●	●	●	●	Drilling emulsion, cutting oil
Bronze				●	●	●	●	●	Dry
Brass				●	●	●	●	●	Drilling emulsion
Magnesium				●	●				Dry
Plastics	PVC, Polyamide, Thermoplastics			●	●	●	●	●	Water
Wood				●	●				Dry

● Most suitable. Recommended for these materials. ▲ Suitable. Recommended for intermittent use in these materials.

# HOLE DOZER™ WITH CARBIDE TEETH HOLE SAW

- The MILWAUKEE™ HOLE DOZER™ With Carbide Teeth Hole Saw features a new 3 TPI design that offers users fast cuts with the durability of a bi-metal hole saw and life of a carbide hole saw.
- The HOLE DOZER™ With Carbide Teeth Hole Saw provides longer life in general purpose and extreme materials with the ability to cut through stainless steel, cast iron, fastener-embedded wood, cement board, fiberglass, plaster, asphalt shingle and more with ease.
- Deep gullets clear material fast while cutting and our ALL ACCESS SLOTS solve the frustration of plug removal, making users more productive with less downtime between holes.
- The slot design also gives users increased pilot visibility for accurate placement and faster chip ejection, keeping their cut cool.

**HOLE DOZER™**  
CARBIDE TEETH

THERMOSET COATING  
**2X**  
FASTER



**LONG LIFE IN STAINLESS STEEL.**

## HOLE SAW SELECTION GUIDE

**1** Identify the material to be cut in the columns below

**2** Choose the appropriate product **RECOMMENDED** or **ACCEPTABLE**

	STAINLESS STEEL	METAL	ALUMINUM & OTHER NON-FERROUS METALS	DUCT	CAST IRON	WOOD WITH NAILS	CEILING TILE	PLASTER/ DRYWALL	PVC & PLASTICS	CLEAN WOOD	FIBERGLASS	CEMENT	TILE	BRICK & BLOCK	GRANITE
<b>HOLE SAWS</b>															
CARBIDE TEETH	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED
BI-METAL	ACCEPTABLE	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED
IMPACT HOLE SAWS	ACCEPTABLE	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED
<b>PILOT BITS</b>															
THUNDERBOLT™	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED
CARBIDE TIPPED	ACCEPTABLE	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED	RECOMMENDED

Diameter (mm)	Diameter (Inch)	Max. Cutting Depth (mm)	Part Number
17	11/16"	41	49-56-0700
19	3/4"	41	49-56-0702
22	7/8"	41	49-56-0704
25	1"	41	49-56-0707
27	1-1/16"	41	49-56-0807
29	1-1/8"	41	49-56-0708
32	1-1/4"	41	49-56-0710
33	1-5/16"	41	49-56-0711
35	1-3/8"	41	49-56-0712
38	1-1/2"	41	49-56-0713
41	1-5/8"	41	49-56-0714
44	1-3/4"	41	49-56-0717
48	1-7/8"	41	49-56-0719
51	2"	41	49-56-0720
54	2-1/8"	41	49-56-0722
57	2-1/4"	41	49-56-0724
60	2-3/8"	41	49-56-0726
64	2-1/2"	41	49-56-0727
65	2-9/16"	41	49-56-0728
67	2-5/8"	41	49-56-0729
68	3-1/4"	41	49-56-0730
70	2-11/16"	41	49-56-0731
76	2-3/4"	41	49-56-0734
79	3"	41	49-56-0735
83	3-1/8"	41	49-56-0736
86	3-3/8"	41	49-56-0737
89	3-1/2"	41	49-56-0738
92	3-5/8"	41	49-56-0739
95	3-3/4"	41	49-56-0741
102	4"	41	49-56-0742
105	4-1/8"	41	49-56-0743
108	4-1/4"	41	49-56-0744
114	4-1/2"	41	49-56-0746
114	4-5/8"	41	49-56-0747
121	4-3/4"	41	49-56-0847
127	5"	41	49-56-0748
140	5-1/2"	41	49-56-0848
152	6"	41	49-56-0749

# HOLE DOZER™ WITH BI-METAL TEETH HOLE SAW

- MILWAUKEE™ HOLE DOZER™ With Bi-Metal Hole Saws new 3.5 TPI tooth design offers users the longest life in metal applications.
- These HOLE DOZER™ Bi-Metal Hole Saws can take on all general purpose applications, making them the most durable hole saws.
- Our ALL ACCESS SLOTS solve the frustration of plug removal, making users more productive with less downtime between holes.
- The new slot design also gives users increased pilot visibility for accurate placement and faster chip ejection keeping their cut cool.
- HOLE DOZER™ Thermoset Coating allows for faster cutting and is optimized for cordless tools, delivering users 25% more holes per charge.

## HOLE DOZER™

### HIGHLY DURABLE HOLE SAW.



**RIP GUARD**  
Tooth Design  
Prevents Breaking

- Added steel for tooth strength

**PLUG JACK**  
All-Access Slot

- Wider slots with multiple leverage positions



Diameter (mm)	Diameter (Inch)	Max. Cutting Depth (mm)	Part Number
14	9/16"	41	49-56-9690
16	5/8"	41	49-56-9603
17	11/16"	41	49-56-9604
19	3/4"	41	49-56-9605
21	13/16"	41	49-56-9606
22	7/8"	41	49-56-9607
24	15/16"	41	49-56-9608
25	1"	41	49-56-9609
27	1-1/16"	41	49-56-9610
29	1-1/8"	41	49-56-9611
30	1-3/16"	41	49-56-9612
32	1-1/4"	41	49-56-9613
33	1-5/16"	41	49-56-9614
35	1-3/8"	41	49-56-9615
37	1-7/16"	41	49-56-9616
38	1-1/2"	41	49-56-9617
40	1-9/16"	41	49-56-9618
41	1-5/8"	41	49-56-9619
43	1-11/16"	41	49-56-9620
44	1-3/4"	41	49-56-9621
46	1-13/16"	41	49-56-9622
48	1-7/8"	41	49-56-9623
51	2"	41	49-56-9624
52	2-1/16"	41	49-56-9625
54	2-1/8"	41	49-56-9626

Diameter (mm)	Diameter (Inch)	Max. Cutting Depth (mm)	Part Number
57	2-1/4"	41	49-56-9628
59	2-5/16"	41	49-56-9629
60	2-3/8"	41	49-56-9630
64	2-1/2"	41	49-56-9631
65	2-9/16"	41	49-56-9632
67	2-5/8"	41	49-56-9633
70	2-3/4"	41	49-56-9635
73	2-7/8"	41	49-56-9636
76	3"	41	49-56-9637
79	3-1/8"	41	49-56-9638
83	3-1/4"	41	49-56-9639
86	3-3/8"	41	49-56-9640
89	3-1/2"	41	49-56-9641
92	3-5/8"	41	49-56-9642
95	3-3/4"	41	49-56-9643
98	3-7/8"	41	49-56-9644
102	4"	41	49-56-9645
105	4-1/8"	41	49-56-9646
108	4-1/4"	41	49-56-9647
111	4-3/8"	41	49-56-9648
114	4-1/2"	41	49-56-9649
121	4-3/4"	41	49-56-9650
127	5"	41	49-56-9652
140	5-1/2"	41	49-56-9654
152	6"	41	49-56-9656

Model	Description
49-56-6560	Arbor Adapter
49-56-6950	Hole Saw Small Arbor 1/4" Shank
49-56-7000	Hole Saw Small Arbor 7/16" Shank
49-56-7040	Hole Saw Large Arbor 3/8" Shank
49-56-7055	Hole Saw Large Arbor 7/16" q/c, thru-hole
49-56-7240	Hole Saw Large Arbor 7/16" q/c, ergo grip
49-56-7250	Hole Saw Large Arbor 3/8" q/c, ergo grip
49-56-8000	Hole Saw Thunderbolt Pilot Drill 1/4" x 4"
49-56-8005	Hole Saw Carbide Tipped Pilot Drill 1/4" x 3 1/2"
49-56-8010	Hole Saw Thunderbolt Pilot Drill 1/4" x 3 1/2"
49-56-8031	Hole Saw Thunderbolt Pilot Drill 1/4" x 4" - Bulk (12)
49-56-8033	Hole Saw Thunderbolt Pilot Drill 1/4" x 3 1/2" - Bulk (12)
49-56-9100	Hole Saw Large Arbor 7/16" q/c, No Wobble

# HOLE SAW ARBORS

### UNIVERSAL

- Works with all major brands of hole saws
- Accepts any 1/4" straight or 3-flat shank pilot bit

### DURABLE

- Made from hardened steel and alloy steel

### QUICK CHANGE ARBORS

- Tool-free operation
- No adapter required



	49-56-7000	49-56-6950	49-56-7055	49-56-9100	49-56-7250	49-56-7240
			Quick Change	Quick Change	Quick Change	Quick Change
<b>Hole Saw Size Range</b>	Up to 1-3/8" (35mm)			1-1/4" & Larger (32mm +)		
<b>Minimum Chuck Size</b>	1/2" (13mm)	1/4" (6mm)	1/2" (13mm)	1/2" (13mm)	3/8" (10mm)	1/2" (13mm)
<b>Works with Pilot Bits</b>	49-56-8000, 49-56-8010, 49-56-8005		49-56-8000, 49-56-8005		49-56-8000, 49-56-8010, 49-56-8005	

# PILOT BITS

- THUNDERBOLT Pilot Bit with Thicker Core - Up To 5X More Durable

Description	Individual Package	12 Pack (Bulk)
1/4" x 4" THUNDERBOLT Pilot Bit	49-56-8000	49-56-8031
1/4" x 3-1/2" THUNDERBOLT Pilot Bit	49-56-8010	49-56-8033
1/4" x 4" Carbide Tipped Pilot Bit	49-56-8005	-
Cobalt Pilot Bit for Hole Saw	49-56-7100	-
Small Arbor with Cobalt Pilot Bit	49-56-7110	-
Large Arbor with Cobalt Pilot Bit	49-56-7115	-

## SHOCKWAVE IMPACT DUTY™ HOLE SAWS

NEW

- Designed with 1/4" Quick Change Hex Shank: For use with impact drivers
- Utilizing a Thin wall 8 TPI design, SHOCKWAVE Impact Duty™ Hole Saws deliver a burr-free cut up to 40% faster than standard bi-metal hole saws.
- The included ejection spring removes the frustration of manually removing slugs by automatically ejecting the material.
- A stop shoulder design prevents over-drilling into material and potentially damaging inner components of electrical and junction boxes. Choose SHOCKWAVE Impact Duty™ Hole Saws for use in plastics and thin-gauge metals up to 3.2mm thick.

Diameter (mm)	Pack Quantity	Part Number
19	1	49569805
22	1	49569810
25	1	49569815
29	1	49569820
32	1	49569825
35	1	49569830
38	1	49569835
SHOCKWAVE Impact Duty™ Hole Saw Set (3pc) (3) x 22mm, 29mm, 35mm		49224800



# DRIVING PERFORMANCE FORWARD

SHOCKWAVE™ IMPACT DRIVER BITS



**WEAR  
GUARD  
TIP™**



**CUSTOM  
ALLOY 76™  
STEEL**



**OPTIMIZED  
SHOCK ZONE™**

MILWAUKEE™ SHOCKWAVE™ IMPACT DUTY driver bits are engineered to be the most durable, best fitting driver bits on the market. The WEAR GUARD TIP™ is laser hardened to create an outer shield that protects the fit over the life of the bit. The SHOCK ZONE™ is optimized for each tip type and length of driver bit, absorbing peak torque and preventing breaking. The customized CUSTOM ALLOY 76™ steel and heat treatment for each tip type is engineered to ensure best performance across tip types and extended life vs. standard bits. The SHOCKWAVE™ impact driver bits provide extreme durability for the most demanding job site applications.



# SHOCKWAVE™ IMPACT DUTY



**PRECISE FIT  
CUSTOM MACHINED TIP™**

**LONG LIFE.  
PRECISE FIT.**



**OPTIMIZED  
SHOCK  
ZONE™**



**CUSTOM  
ALLOY 76™  
STEEL**

## SHOCKWAVE IMPACT DUTY™ DRIVER BITS

PHILLIPS®	Info	Drive Size	Length	1 Pack	2 Pack	5 Pack
	P2R	1"			48-32-4444	
	PH1	1"			48-32-4411	48-32-4661
	PH1	2"		48-32-4461		
	PH2	1"			48-32-4412	48-32-4601
	PH2	2"		48-32-4462		48-32-4602
	PH2	3-1/2"		48-32-4562		48-32-4564
	PH2	6"		48-32-4802		
	PH3	1"			48-32-4413	48-32-4663
	PH3	2"		48-32-4463		
	PH3	3-1/2"		48-32-4563		

SLOTTED	Info	Drive Size	Length	1 Pack	2 Pack	
			SL 1/4" #10	1"		48-32-4418
			SL 1/4" #10	2"	48-32-4918	
			SL 1/8" #6	1"		48-32-4416
			SL 1/8" #6	2"	48-32-4916	
			SL 3/16" #8	1"		48-32-4417
			SL 3/16" #8	2"	48-32-4919	

DOUBLE ENDED BITS	Info	Drive Size	Length	10 Pack	
		PH1/PH1		65mm	48-32-4360
		PH2/PH2		65mm	48-32-4361
		PH3/PH3		65mm	48-32-4362
		PH1/PH1		100mm	48-32-4363
		PH2/PH2		100mm	48-32-4364
		PH3/PH3		100mm	48-32-4365

## SHOCKWAVE IMPACT DUTY™ MAGNETIC ATTACHMENT AND PH2 BIT SETS

Description	Includes	SKU
SHOCKWAVE Impact Duty™ Magnetic Attachment and PH2 Bit Set 3PC	(1) Magnetic Attachment (2) Phillips Bit 2" P2	48-32-4550

## M2 STEEL SCREW EXTRACTOR SET

Description	Includes	SKU
M2 Steel Screw Extractor Set 4PC	(1) Screw Extractors #1, (1) Screw Extractors #2 (1) Screw Extractors #3, (1) Screw Extractors #4	49-57-9001

## SHOCKWAVE™ MAGNETIC BIT HOLDERS

Description	SKU
2.36" Magnetic Bit Tip Holder	48-32-4502
3" Magnetic Bit Tip Holder	48-32-4503
6" Magnetic Bit Tip Holder	48-32-4511
12" Magnetic Bit Tip Holder	48-32-4512

Description	Includes	SKU
Shockwave™ 11PC 30° Knuckle	(1) Phillips Bit 1" P1	48-32-2301
	(1) Phillips Bit 1" P2	
	(1) Phillips Bit 1" P3	
	(1) Slotted Bit 1" SL 1/4"	
	(1) Slotted Bit 1" SL 1/8"	
	(1) Slotted Bit 1" SL 1/16"	
	(1) Slotted Bit 1" SL 1/32"	
	(1) Square Bit 1" SQ	
	(1) Square Bit 1" SQ2	
	(1) TORX Bit 1" T25	
(1) Shockwave 30 Knuckle Pivoting Bit Holder		

## SHOCKWAVE IMPACT DUTY™ DRIVE ADAPTERS

Drive Size	1 Pack
1/4" square to 3/8" square	<b>NEW</b> 49-66-6720
3/8" square to 1/2" square	<b>NEW</b> 49-66-6723
1/2" square to 3/4" square	<b>NEW</b> 49-66-6726
3/4" square to 1" square	<b>NEW</b> 49-66-6729

## SHOCKWAVE IMPACT DUTY™ MAGNETIC NUT DRIVER

Drive Size	1 Pack	2 Pack	25 Pack
1/4" and 5/16"	<b>NEW</b> 49-66-4541	49-66-4544	49-66-4742A
5/16" and 3/8"	<b>NEW</b> 49-66-4544		49-66-4743A

# SHOCKWAVE IMPACT DUTY™ BIT SETS

Descriptions	Includes	Part Number
 <p>32 Pc SHOCKWAVE Impact Duty™ Driver Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 22 x 25 mm Length            1 x PH1 / 4 x PH2 / 1 x PR2 / 1 x PH3 / 1 x TX15 /            2 x TX20 / 2 x TX25 / 1 x TX30 / 1 x SQ1 / 3 x SQ2 /            1 x SQ3 / 1 x HEX 3/16" / 1 x HEX 1/4" / 1 x SL #8 /            1 x SL #10. 7 x 50 mm length 2 x PH2 / 1 x PH3 /            1 x SQ2 / 1 x TX20 / 1 x TX25 /            1 x SL #10. 2 x SHOCKWAVE Nut Drivers 48 mm Length:            Hex 1/4", Hex 5/16". 1 x SHOCKWAVE Magnetic            Bit Holder 60 mm Length</p>	48-32-4004
 <p>18 Pc SHOCKWAVE Impact Duty™ Driver Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 7 x 25 mm Length            1 x PH1 / 1 x PH2 / 1 x PH3 / 1 x TX20 / 1 x TX25 /            1 x SQ1 / 1 x SQ2 / 1 x SL #8 /            1 x SL #10. 8 x 50 mm Length 2 x PH2 / 1 x PH3 /            2 x SQ2 / 1 x SQ3 / 1 x TX20 / 1 x TX25. 2 X 89 mm Length            1 x PH2 / 1 x SQ2. 1 x SHOCKWAVE Magnetic            Bit Holder 60 mm Length</p>	48-32-4403
 <p>35 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 24 x 25 mm Length            1 x PH1 / 2 x PH2 / 1 x PH3, 2 x PZ1 / 3 x PZ2 /            2 x PZ3, 2 x TX10 / 2 x TX15 / 3 x TX20 / 2 x TX25 /            2 x TX30 / 1 x TX40 / 1 x TX50. 5 x 50 mm Length            1 x PH2 / 1 x PZ2, 1 x TX15 / 1 x TX20 / 1 x TX25.            3 x SHOCKWAVE Magnetic Nut Drivers: 48 mm            Length 1 x Hex 7 mm / 1 x Hex 8 mm /            1 x Hex 10 mm. 1 x SHOCKWAVE Magnetic            Bit Holder 60 mm Length</p>	4932492003
 <p>40 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 25 x 25 mm Length            1 x PH1 / 2 x PH2, 1 x PZ1 / 3 x PZ2, 2 x TX10 /            2 x TX15 / 3 x TX20 / 2 x TX25 / 2 x TX30 / 1 x TX40 /            1 x TX50, 1 x Hex 4 mm / 1 x Hex 5 mm, 1 x SL 0.6            x 4.5 / 1 x SL 0.8 x 5.5 / 1 x SL 1.2 x 6.5. 8 x 50 mm            Length 1 x PH2, 1 x PZ1 / 1 x PZ2, 1 x TX10 /            1 x TX15 / 1 x TX20 / 1 x TX25 / 1 x TX30.            SHOCKWAVE Magnetic Bit Holder: 1 x 60 mm Length,            1 x 152 mm Length. 3 x SHOCKWAVE 1/4" Hex Drill            Bits: Ø 3 / 4 / 5 mm. 2 x SHOCKWAVE Magnetic Nut            Drivers: 48 mm Length 1 x Hex 8 mm / 1 x Hex 10 mm</p>	4932492004
 <p>48 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 24 x 25 mm Length            1 x PH1 / 3 x PH2 / 1 x PH3, 1 x PZ1 / 3 x PZ2 /            1 x PZ3, 2 x TX10 / 1 x TX15 / 3 x TX20 / 3 x TX25 /            2 x TX30 / 1 x TX40, 1 x Hex 4 mm / 1 x Hex 5 mm.            16 x 50 mm Length 2 x PH2 / 1 x PH3, 2 x PZ2 /            1 x PZ3, 1 x TX10 / 1 x TX15 / 2 x TX20 / 2 x TX25 /            2 x TX30 / 2 x TX40. 4 x 90 mm Length 1 x PH2,            1 x PZ2, 1 x TX20 / 1 x TX25. 1 x SHOCKWAVE            Magnetic Bit Holder 60 mm Length.            3 x SHOCKWAVE 1/4" Hex Multi - material Drill Bits:            Ø 5 / 6 / 8 mm</p>	4932492005





Descriptions		Includes	Part Number
	<p>56 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 48 x 25 mm Length            2 x PH1 / 3 x PH2 / 1 x PH3, 3 x PZ1 / 4 x PZ2 /            2 x PZ3, 3 x TX10 / 3 x TX15 / 4 x TX20 / 4 x TX25 /            4 x TX30 / 3 x TX40 / 2 x TX50, 2 x Hex 4 mm /            2 x Hex 5 mm, 2 x SL 0.6 x 4.5 / 2 x SL 0.8 x 5.5 /            2 x SL 1.2 x 6.5. 7 x 50 mm Length 1 x PH2,            1 x PZ1 / 1 x PZ2, 1 x TX10 / 1 x TX15 / 1 x TX20 /            1 x TX25. 1 x SHOCKWAVE Magnetic Bit Holder 60 mm Length</p>	<p>4932492006</p>
	<p>75 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 60 x 25 mm Length            1 x PH1 / 2 x PH2, 1 x PZ1 / 3 x PZ2 / 1 x PZ3,            2 x TX10 / 4 x TX15 / 12 x TX20 / 12 x TX25 /            12 x TX30 / 2 x TX40 / 1 x TX50, 1 x TX B07 /            1 x TX B08 / 1 x TX B09 / 1 x TX B010 / 1 x TX            B015, 1 x Hex 4 mm / 1 x Hex 5 mm. 12 x 50 mm            Length 1 x PH2, 1 x PZ1 / 1 x PZ2, 1 x TX10 /            2 x TX15 / 2 x TX20 / 2 x TX25 / 2 x TX30.            2 x SHOCKWAVE Nut Drivers 48 mm Length:            Hex 8 mm / Hex 10 mm.            1 x SHOCKWAVE Magnetic Bit Holder 60 mm Length</p>	<p>4932492008</p>
	<p>38 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE Screwdriving Bits: 16 x 25 mm Length            1 x PH1 / 2 x PH2, 1 x PZ1 / 2 x PZ2, 1 x TX10 /            1 x TX15 / 2 x TX20 / 3 x TX25 / 2 x TX30 / 1 x TX40.            21 x 50 mm Length 1 x PH1 / 3 x PH2 / 1 x PH3,            1 x PZ1 / 3 x PZ2 / 1 x PZ3, 1 x TX10 / 1 x TX15 /            1 x TX20 / 2 x TX25 / 3 x TX30 / 3 x TX40.            1 x SHOCKWAVE Magnetic Bit Holder 60 mm Length</p>	<p>4932492009</p>
	<p>46 Pc SHOCKWAVE Impact Duty™ Bit Set</p>	<p>SHOCKWAVE™ Screwdriving bits:            1" Length 1 x PH1 / 2 x PH2 / 1 x PH3, 1 x Hex 3 / 1 x Hex 4 / 1 x            Hex 5 / 1 x Hex 6, 1 x SL#6 / 2 x SL#8 / 1 x SL#10, 1 x TX8 / 1 x            TX10 / 1 x TX20 / 1 x TX25.            2" Length 1 x PH1 / 3 x PH2 / 1 x PH3, 1 x SL#10.            5 x Hammer Drill Bits            1 x 5mm / 1 x 5.5mm / 1 x 6mm / 1 x 8mm / 1 x 10mm            5 x Brad Point Drill Bits            1 x 4mm / 1 x 5mm / 1 x 6mm / 1 x 8mm / 1 x 10mm            2 x Multi-Material Drill Bits            1 x 6mm / 1 x 8mm            4 x Helix Titanium Drill Bits            1 x 3mm / 1 x 4mm / 1 x 5mm / 1 x 6mm            2 x SHOCKWAVE Magnetic Bit Holder: 2 x Compact            2 x SHOCKWAVE Magnetic Nut Drivers: 2 x 8mm Length            2 x Double Ended Bits: 1 x PH2/PH2, 1 x SL1/4"            2 x Socket Adaptor: 1 x 1/4" / 1 x 3/8"</p>	<p>48-32-5148</p>
	<p>8 Pc SHOCKWAVE Impact Duty™ Double Ended Bit PH2/PH2 65MM</p>	<p>8 x Shockwave Screwdriving Double Ended Bits PH2/PH2 65MM</p>	<p><b>NEW</b> 48-32-4361PS</p>

## ACCESSORIES CASES

Segment	Description	Compatible with Bits	Outer Dimensions (mm)	Pack Quantity	Part Number	Images
Large Case	Customizable Large Case For Impact Driver Accessories	Adjustable rows fit 1/4" hex bit shank accessories such as Driver bits, Drill bits, Nut drivers, Impact socket Adapters, Drive guides,...	L 149 x W 192 x H 53 mm	1	48-32-9922	
Medium Case	Customizable Medium Case For Impact Driver Accessories		L 99 x W 192 x H 53 mm	1	48-32-9921	
Medium Compact Case	Customizable Medium Compact Case For Impact Driver Accessories		L 99 x W 192 x H 36 mm	1	48-32-9931	
Small Case	Customizable Small Case For Impact Driver Accessories		L 99 x W 96 x H 53 mm	1	48-32-9920	
Small Compact Case	Customizable Small Compact Case For Impact Driver Accessories		L 99 x W 96 x H 36 mm	1	48-32-9930	

## ACCESSORIES CASES ROWS

Segment	Description	Compatible with Accessories Case	Capacity Storage	Pack Quantity	Part Number	Images
Large Case Row	Large Case Rows For Impact Driver Bit	48-32-9922	6 Storages/Row	5	48-32-9935	
	Large Case Rows For Insert Driver Bit		6 Storages/Row	5	48-32-9934	
Medium and Small Case Row	Small & Medium Case Rows For Impact Driver Bit	49-32-9920   49-32-9921 49-32-9930   49-32-9931	8 Storages/Row	5	48-32-9933	
	Small & Medium Case Rows For Insert Driver Bit		8 Storages/Row	5	48-32-9932	



OVER 190 SOCKETS AVAILABLE WITH 5 DIFFERENT DRIVE SIZES

1/4" DRIVE

3/8" DRIVE

1/2" DRIVE

3/4" DRIVE

1" DRIVE

**BOLD,  
LONG LASTING  
MARKINGS.**



**FORGED  
TORQUE  
STEEL**      **HIGH  
IMPACT**



**NON-SLIP  
HEX  
GEOMETRY**



**DUAL HOLE  
DESIGN  
FOR EASIER  
ATTACHMENT**



**STAMPED &  
INK FILLED**



**SHOCKWAVE**  **IMPACT DUTY** <sup>TM</sup>

## SHOCKWAVE IMPACT DUTY™ 1/4" DRIVE SOCKETS

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
1/4" SHOCKWAVE Impact Duty Socket Standard Set with Rail (12pc) (12) x Deep Sockets: 4mm, 4.5mm, 5mm, 5.5mm, 6mm, 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm		Deep	1	4932480453	

## SHOCKWAVE IMPACT DUTY™ 3/8" DRIVE SOCKETS

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
3/8" square	6	Standard	1	49-66-6130	
3/8" square	7	Standard	1	49-66-6131	
3/8" square	8	Standard	1	49-66-6132	
3/8" square	9	Standard	1	49-66-6133	
3/8" square	10	Standard	1	49-66-6134	
3/8" square	11	Standard	1	49-66-6135	
3/8" square	12	Standard	1	49-66-6136	
3/8" square	13	Standard	1	49-66-6137	
3/8" square	14	Standard	1	49-66-6138	
3/8" square	15	Standard	1	49-66-6139	
3/8" square	16	Standard	1	49-66-6140	
3/8" square	17	Standard	1	49-66-6141	
3/8" square	18	Standard	1	49-66-6142	
3/8" square	19	Standard	1	49-66-6143	
3/8" square	20	Standard	1	49-66-6737	
3/8" square	21	Standard	1	49-66-6144	
3/8" square	22	Standard	1	49-66-6145	
3/8" square	23	Standard	1	49-66-6146	
3/8" square	24	Standard	1	49-66-6147	
3/8" SHOCKWAVE Impact Duty Socket Standard Set with Rail (9pc) (8) x Standard Sockets: 8mm, 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19 mm (1) x Socket Adapter to change 1/4" Hex to 3/8" Square		Standard	9	4932480454	
3/8" SHOCKWAVE Impact Duty Socket Standard Set with Rail (14pc) (14) x Deep Sockets: 7mm, 8mm, 9mm, 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 20mm, 21mm		Standard	14	49-66-7007	





# SHOCKWAVE IMPACT DUTY™ 1/2" DRIVE SOCKETS

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
1/2" square	8	Standard	1	49-66-6240	
1/2" square	9	Standard	1	49-66-6241	
1/2" square	10	Standard	1	49-66-6242	
1/2" square	11	Standard	1	49-66-6243	
1/2" square	12	Standard	1	49-66-6244	
1/2" square	13	Standard	1	49-66-6245	
1/2" square	14	Standard	1	49-66-6246	
1/2" square	15	Standard	1	49-66-6247	
1/2" square	16	Standard	1	49-66-6248	
1/2" square	17	Standard	1	49-66-6249	
1/2" square	18	Standard	1	49-66-6250	
1/2" square	19	Standard	1	49-66-6251	
1/2" square	20	Standard	1	49-66-6252	
1/2" square	21	Standard	1	49-66-6253	
1/2" square	22	Standard	1	49-66-6254	
1/2" square	23	Standard	1	49-66-6255	
1/2" square	24	Standard	1	49-66-6256	
1/2" square	25	Standard	1	49-66-6257	
1/2" square	26	Standard	1	49-66-6258	
1/2" square	27	Standard	1	49-66-6259	
1/2" square	28	Standard	1	49-66-6260	
1/2" square	29	Standard	1	49-66-6261	
1/2" square	30	Standard	1	49-66-6262	
1/2" square	31	Standard	1	49-66-6263	
1/2" square	32	Standard	1	49-66-6264	
1/2" square	33	Standard	1	49-66-6265	
1/2" square	34	Standard	1	49-66-6266	
1/2" square	35	Standard	1	49-66-6267	
1/2" square	36	Standard	1	49-66-6268	
<b>1/2" SHOCKWAVE Impact Duty Socket Standard with Hard Case (13pc)</b> (8) x Standard Sockets: 10mm, 12mm, 13mm, 14mm, 15mm, 17mm, 19mm, 21mm, 22mm, 24mm (1) x Socket Universal Joint 15° 1/2" Square (1) x Socket Adapter to change 1/4" Hex to 1/2" Square (1) x Extension 150mm (1/2" Square)		Standard	13	4932480456	
<b>1/2" SHOCKWAVE Impact Duty Socket Standard with Hard Case (14pc)</b> (14) x Standard Sockets 10mm, 11mm, 12mm, 13mm, 14mm, 15mm, 16mm, 17mm, 18mm, 19mm, 21mm, 22mm, 26mm, 27mm		Standard	14	49-66-7013	





# SHOCKWAVE IMPACT DUTY™ 3/4" DRIVE SOCKETS

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
3/4" square	17	Standard	1	49-66-6356	
3/4" square	19	Standard	1	49-66-6357	
3/4" square	20	Standard	1	49-66-6358	
3/4" square	21	Standard	1	49-66-6359	
3/4" square	22	Standard	1	49-66-6360	
3/4" square	23	Standard	1	49-66-6361	
3/4" square	24	Standard	1	49-66-6362	
3/4" square	25	Standard	1	49-66-6363	
3/4" square	26	Standard	1	49-66-6364	
3/4" square	27	Standard	1	49-66-6365	
3/4" square	28	Standard	1	49-66-6366	
3/4" square	29	Standard	1	49-66-6367	
3/4" square	30	Standard	1	49-66-6368	
3/4" square	31	Standard	1	49-66-6369	
3/4" square	32	Standard	1	49-66-6370	
3/4" square	33	Standard	1	49-66-6371	
3/4" square	34	Standard	1	49-66-6372	
3/4" square	35	Standard	1	49-66-6373	
3/4" square	36	Standard	1	49-66-6374	
3/4" square	37	Standard	1	49-66-6375	
3/4" square	38	Standard	1	49-66-6376	
3/4" square	39	Standard	1	49-66-6377	
3/4" square	40	Standard	1	49-66-6378	
3/4" square	41	Standard	1	49-66-6379	
3/4" square	42	Standard	1	49-66-6380	
3/4" square	43	Standard	1	49-66-6381	
3/4" square	44	Standard	1	49-66-6382	
3/4" square	45	Standard	1	49-66-6383	
3/4" square	46	Standard	1	49-66-6384	
3/4" square	47	Standard	1	49-66-6385	
3/4" square	48	Standard	1	49-66-6386	
3/4" square	49	Standard	1	49-66-6387	
3/4" square	50	Standard	1	49-66-6388	
3/4" square	60	Standard	1	49-66-6392	
<b>3/4" SHOCKWAVE Impact Duty Socket Standard Set with Hard Case (8pc)</b> (8) x Standard Sockets: 26mm,27mm,29mm,30mm, 32mm,35mm,36mm,38mm		Standard	8	49-66-7019	

**3/4" DRIVE**





# SHOCKWAVE IMPACT DUTY™ 1" DRIVE SOCKETS

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
1" square	27	Standard	1	49-66-6592	
1" square	28	Standard	1	49-66-6593	
1" square	29	Standard	1	49-66-6594	
1" square	30	Standard	1	49-66-6595	
1" square	31	Standard	1	49-66-6596	
1" square	32	Standard	1	49-66-6597	
1" square	33	Standard	1	49-66-6598	
1" square	34	Standard	1	49-66-6599	
1" square	35	Standard	1	49-66-6600	
1" square	36	Standard	1	49-66-6601	
1" square	38	Standard	1	49-66-6602	
1" square	40	Standard	1	49-66-6603	
1" square	41	Standard	1	49-66-6604	
1" square	42	Standard	1	49-66-6605	
1" square	46	Standard	1	49-66-6606	
1" square	50	Standard	1	49-66-6607	
1" square	52	Standard	1	49-66-6608	
1" square	54	Standard	1	49-66-6609	
1" square	55	Standard	1	49-66-6610	
1" square	56	Standard	1	49-66-6611	
1" square	58	Standard	1	49-66-6612	
1" square	60	Standard	1	49-66-6613	
1" square	65	Standard	1	49-66-6614	
1" square	67	Standard	1	49-66-6615	
1" square	70	Standard	1	49-66-6616	

Drive Size (inch)	Output Size (mm)	Socket Type	Pack Quantity	Part Number	Image
1" square	27	Deep	1	4932480424	
1" square	30	Deep	1	4932480425	
1" square	32	Deep	1	4932480426	
1" square	33	Deep	1	4932480427	
1" square	34	Deep	1	4932480428	
1" square	36	Deep	1	4932480429	
1" square	38	Deep	1	4932480430	
1" square	39	Deep	1	4932480431	
1" square	41	Deep	1	4932480432	
1" square	46	Deep	1	4932480434	
1" square	50	Deep	1	4932480435	
1" square	55	Deep	1	4932480436	
1" square	60	Deep	1	4932480437	
1" square	65	Deep	1	4932480438	



# SHOCKWAVE IMPACT DUTY™ 1/2" DRIVE LUG NUT WHEEL SOCKETS

## OVERVIEW

Shockwave Impact Duty™ Lug Nut Wheel Sockets mainly used in Automotive and specially designed to be used for tire installation and removal and to protect rims during tire changes with the ARMOR-GUARD™ Sleeve is made with premium, durable plastic. The sleeves are color-coded to ensure easier socket selection.

Drive Size (inch)	Output Size (mm)	Color-Coded Sleeve	Socket Type	Pack Quantity	Part Number	Images
1/2" square	17	Blue	Deep	1	4932493371A	
1/2" square	19	Yellow	Deep	1	4932493372A	
1/2" square	21	Red	Deep	1	4932493373A	
1/2" square	22	Grey	Deep	1	4932493374A	
1/2" SHOCKWAVE Impact Duty Socket Lug Nut Wheel Socket Deep Set with Hard Case (3pc) (3) x Deep Sockets: 17mm, 19mm, 21mm			Deep	3	49-66-7834	



## SHOCKWAVE IMPACT DUTY™ SOCKETS - EXTENSIONS

Drive Size (inch)	Total Length A (mm)	Application	Pack Quantity	Part Number
3/8" square	150	Extensions are used with impact sockets and impact power wrenches to increase the length of your impact socket for harding to reach bolts.	1	4932480297
3/8" square	250		1	4932480298
1/2" square	150		1	4932480352
1/2" square	250		1	4932480353
3/4" square	175		1	4932480403
3/4" square	250		1	4932480404
1" square	175		1	4932480440
1" square	250		1	4932480297



## SHOCKWAVE IMPACT DUTY™ SOCKETS - REDUCERS

Drive Size (inch)	Application	Pack Quantity	Part Number
3/8" square to 1/4" square	Designed for with Impact Wrench Utilize smaller size impact sockets when you don't have the right drive size impact wrench.	1	49-66-6722
1/2" square to 3/8" square		1	49-66-6725
3/4" square to 1/2" square		1	49-66-6728
1" square to 3/4" square		1	49-66-6731



## SHOCKWAVE IMPACT DUTY™ UNIVERSAL JOINTS

Drive Size (inch)	Angle Capacity	Application	Pack Quantity	Part Number
3/8" square	15°	Feature a 15-degree swivel for access in hard to reach places and impact durability in high torque applications.	1	49-66-6724
1/2" square	15°		1	49-66-6727
1/4" square	15°		1	49-66-6721
3/4" square	15°		1	49-66-6730
1" square	15°		1	49-66-6733



## SHOCKWAVE IMPACT DUTY™ QUICK CHANGE ADAPTER

Drive Size (inch)	Application	Pack Quantity	Part Number
3/8" square to 1/4" hex	Designed for with Impact Wrench Transforms impact socket wrenches into impact drivers with square hex bits for every application.	1	48-03-4405
1/2" square to 1/4" hex		1	48-03-4410



## SHOCKWAVE IMPACT DUTY™ SOCKETS – RETAINING RINGS

Drive Size (inch)	Output Size (mm)	Type of Accessory	Application	Pack Quantity	Part Number
3/4"	From 17mm to 60mm	Retaining Ring	The retaining ring is used with sockets to keep the impact socket on the impact wrench without falling off	1	49-66-6744
1"	From 27mm to 42mm	Retaining Ring		1	49-66-6745
1"	From 46mm to 70mm	Retaining Ring		1	49-66-6746



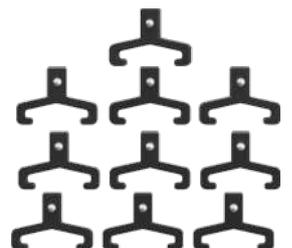
## SHOCKWAVE IMPACT DUTY™ – TRAY

Drive Size (inch)	Type of Accessory	Application	Pack Quantity	Part Number
3/8" square	Tray	Optimized for use with PACKOUT Organizers (48-22-8436) and (48-22-8431) and fits the SHOCKWAVE Impact Duty Deep Sockets	1	49-66-6831
1/2" square	Tray		1	49-66-6833



## SHOCKWAVE IMPACT DUTY™ – RAIL CLIPS

Drive Size (inch)	Type of Accessory	Application	Pack Quantity	Part Number
1/4" square	Rail Clip	For rail customizations based on your socket storage needs	1	49-66-6739
3/8" square	Rail Clip		1	49-66-6740
1/2" square	Rail Clip		1	49-66-6741



# WOOD CUTTING

## HAND-HELD CIRCULAR SAW BLADES

### OVERVIEW

MILWAUKEE™ Circular Saw Blades provide longer life, increased accuracy and cooler cuts in wood cutting applications. The blades are designed utilizing application-specific Cobalt Infused Tungsten Carbide to extend cutting life and maintain tip sharpness. MILWAUKEE™ Circular Saw Blades are optimized for cordless and corded performance.

### FEATURES 1

- Cobalt Infused Tungsten Carbide: Extends cutting life and maintains tip sharpness
- Laser Cut Vibration Slots: Increase blade accuracy and prevent wobble and warping
- Anti-Friction Coating: Provides cooler cuts



CARBIDE TEETH

### FEATURES 2

- Cobalt Infused Tungsten Carbide: Extends cutting life and maintains tip sharpness
- Diamond Cooling Vents Cutting to Reduce Blade Wobble & Faster Chip Ejection
- Thin Kerf Design for Faster Cuts To Preserve Battery Life and Feed Into Material Faster For Efficient Cutting Experience.
- Thick Kerf Design for Straighter Cuts and Ultimate Stability. Optimized For Most Powerful Cordless Tools



THIN KERF



HIGH PERFORMANCE THICK KERF

FRAMING							
FINE FINISH							

Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)	Hook Angle	Blade Design	Application	Part Number	Pack Quantity
190MM	30	24T	1.6	15°	Vibration Slots	Framing	4932471300	1
190MM	30	36T	1.6	18°	Vibration Slots	Framing	4932471301	1
190MM	30	48T	2.1	10°	Vibration Slots	Framing	4932471380	1
190MM	25.4 (with 20mm reduction ring)	24T	1.6	15°	Diamond Cooling Vents	Framing	48-40-0720ANR	1 <b>NEW</b>
190MM	25.4 (with 20mm reduction ring)	24T	1.8	15°	Diamond Cooling Vents	Framing	48-40-0740AKR	1 <b>NEW</b>
190MM	25.4 (with 20mm reduction ring)	48T	2.1	15°	Vibration Slots	Fine Finish	4932192541	1
190MM	19	24T	1.6	15°	Diamond Cooling Vents	Framing	48-40-0720AN	1 <b>NEW</b>
190MM	19	24T	1.8	15°	Diamond Cooling Vents	Framing	48-40-0740AK	1 <b>NEW</b>
190MM	19	48T	2.1	15°	Vibration Slots	Fine Finish	4932191941	1 <b>NEW</b>
140MM	20	18T	1.6	18°	Vibration Slots	Framing	4932471310A	1 <b>NEW</b>
165MM	20	24T	1.6	15°	Vibration Slots	Framing	4932471931A	1 <b>NEW</b>
165MM	20	40T	2.1	18°	Vibration Slots	Fine Finish	4932471932A	1 <b>NEW</b>
165MM	15.87	24T	1.6	18°	Vibration Slots	Framing	4932471311	1
165MM	15.87	24T	1.6	18°	Vibration Slots	Framing	48-40-0620	1
165MM	15.87	40T	1.6	18°	Vibration Slots	Framing	4932471312	1





<b>GENERAL PURPOSE</b>	SOFT WOOD	HARD WOOD	WET LUMBER	TREATED LUMBER	PLYWOOD, OSB, LVL	<b>FIBER CEMENT</b>	FIBER CEMENT	BACKING	SIDING	TRIM BOARDS	MOLDING				
<b>FINISH &amp; FINE FINISH</b>	SOFT WOOD	HARD WOOD	MELAMINE	MDF	VENEERED PLYWOOD	PLYWOOD, OSB, LVL	WET LUMBER	TREATED LUMBER	<b>LAMINATE</b>	LAMINATE FLOORING	CORIAN	ALUMINUM	COPPER	PLASTIC	FIBERGLASS
<b>COMBINATION</b>	SOFT WOOD	HARD WOOD	MELAMINE	WET LUMBER	TREATED LUMBER	PLYWOOD, OSB, LVL	<b>ULTRA FINE FINISH</b>	SOFT WOOD	HARD WOOD	VENEERED PLYWOOD	MELAMINE	PANELING	MDF	MOLDINGS	

**TRACK SAW BLADES**

Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)	Hook Angle	Blade Design	Application	Part Number	Pack Quantity
165MM	20	24T	1.6	18°	Vibration Slots	General Purpose	48-40-0624	1
165MM	20	40T	1.6	18°	Vibration Slots	Finish	48-40-0625	1
165MM	20	48T	1.6	18°	Vibration Slots	Fine Finish	48-40-0627	1
165MM	20	52T	2.2	18°	Vibration Slots	Laminate	48-40-0643	1
165MM	20	4T	2.2	18°	Vibration Slots	Fiber Cement	48-40-0670	1

**MITRE SAW BLADES**

Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)	Hook Angle	Blade Design	Application	Part Number	Pack Quantity
305MM	25.4	44T	2.99	15°	Vibration Slots	General Purpose	48-40-1220	1
305MM	25.4	60T	2.99	12°	Vibration Slots	Combination	48-40-1222	1
305MM	25.4	80T	2.99	12°	Vibration Slots	Fine Finish	48-40-1224	1
305MM	25.4	100T	2.99	12°	Vibration Slots	Ultra Fine Finish	48-40-1228	1

**TABLE SAW BLADES**

Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)	Hook Angle	Blade Design	Application	Part Number	Pack Quantity
210MM	15.87	24T	2.1	18°	Vibration Slots	Framing	48-40-0820	1
210MM	15.87	40T	2.1	15°	Vibration Slots	Fine Finish	48-40-0822	1

## METAL CUTTING

### HAND-HELD CIRCULAR SAW BLADES

#### OVERVIEW

MILWAUKEE™ Hand-held Circular Saw Blades were specifically designed to exceed contractors expectations for blade life, cut quality and speed in the most demanding metal cutting applications – without a lubricant. A hand-tensioned, hardened alloy steel body minimizes vibration to extend blade life and delivers the highest quality cuts available. Carbide teeth shear through metal leaving burr-free, cool-to-touch cuts.

#### FEATURES

- Dry: No lubricant required, saving time and money with less mess
- Cool: No extreme heat buildup preserves blade life and allows handling the work piece immediately
- Clean: No burrs eliminates secondary operations, saving time and money



**CARBIDE TEETH**

METAL & STAINLESS CUTTING		STAINLESS STEEL	STEEL	ALUMINUM	UNISTRUT	THREADED ROD	ANGLE IRON			
Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)		Hook Angle	Application	Part Number	Pack Quantity		
135MM	20	30T	1.6		0°	Metal & Stainless	48-40-4070	1		
203MM	15.87	42T	1.8		0°	Metal & Stainless	48-40-4515	1		
203MM	15.87	50T	1.8		0°	Metal & Stainless	48-40-4520	1		

METAL CUTTING		STEEL	ALUMINUM	UNISTRUT	THREADED ROD	ANGLE IRON			
Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)		Hook Angle	Application	Part Number	Pack Quantity	
150MM	20	34T	1.6		2°	Metal	48-40-4215	1	

ALUMINUM CUTTING		ALUMINUM	BRASS	COPPER	PLASTIC (PVC)	FIBERGLASS			
Diameter (mm)	Arbor Size (mm)	No. of Teeth	Kerf Thickness (mm)		Hook Angle	Application	Part Number	Pack Quantity	
203MM	15.87	58T	2.4		-6°	Aluminum	48-40-4345	1	
190MM	19	54T	2.4		-5°	Aluminum	4932191951	1	
135MM	20	50T	1.6		-5°	Aluminum	48-40-4075	1	
165MM	20	52T	2.2		-5°	Aluminum	4932479087A	1	



## BAND SAW BLADES

### Choosing the right tooth geometry

8/10 Tpi Tooth pitch 2.3/1.8 mm	10 Tpi Tooth pitch 2.5 mm	12/14 Tpi Tooth pitch 1.8/1.4 mm	14 Tpi Tooth pitch 1.8 mm	18 Tpi Tooth pitch 1.4 mm	25 Tpi Tooth pitch 1 mm
FOR CUTTING STOCK 5 to 13 mm	FOR CUTTING STOCK 8 to 13 mm	FOR CUTTING STOCK 4 to 8 mm	FOR CUTTING STOCK 5 to 8 mm	FOR CUTTING STOCK 4 to 5 mm	FOR CUTTING STOCK < 4 mm

## EXTREME METAL BAND SAW BLADES

### OVERVIEW

Our Extreme Metal Band Saw Blades deliver exactly what you need for daily job site use – More Cuts and Less Blade Changes. An aggressive variable pitched tooth design gives you the versatility to cut more metal thickness with one band saw blade. The portable band saw blade's versatility pairs with 3X longer life in stainless steel. Each blade gives you more cuts, resulting in fewer blade changes. The band saw blade also gives fast, clean cuts in common materials, delivering the performance you are looking for in a single blade.

### FEATURES

- More cuts. Less blade changes.
- 3X Life in Stainless Steel and other extreme metals.
- 2X Faster in Thin Metals
- 25% More Cuts Per Charge
- Variable TPI for Versatility in All Metal Thickness
- Optimized Tooth Design for clean cuts
- Made in the USA with global materials
- Aggressive tooth design for 2X Faster cuts in Thick Metals
- Fastest cutting blade in thick, hard metals.
- Cuts More Materials
- One blade for all metal thicknesses
- Variable TPI, Cuts More Materials



### EXTREME METAL BAND SAW BLADES

	44-7/8"			35-3/8"			30-9/16"			27"
TPI	3 Pack	25 Pack	100 Pack	3 Pack	25 Pack	100 Pack	3 Pack	25 Pack	100 Pack	3 Pack
8/10	48-39-0610	48-39-0605	48-39-0603	48-39-0609	48-39-0606	48-39-0653	48-39-0630	48-39-0635	48-39-0637	–
12/14	48-39-0611	48-39-0615	48-39-0613	48-39-0619	48-39-0616	48-39-0663	48-39-0631	48-39-0636	48-39-0639	48-39-0711

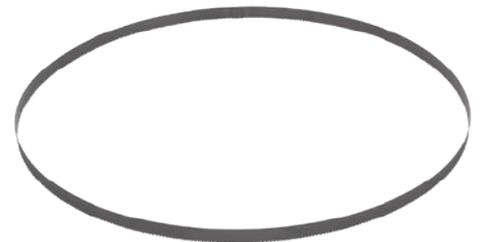
## STANDARD BAND SAW BLADES

### OVERVIEW

Our Band Saw Blades are designed to maximize the performance of any portable band saw. The portable bandsaw blades give you long tooth life and exceptional durability in metal-cutting applications, including strut, conduit, angle iron, copper tube, threaded rod, and pipe. Tooth form, pitch, and set have been designed to provide you with straight, accurate cuts across a broad range of materials. Matrix II high-speed steel extends the life of the bandsaw blade in hard materials. This MILWAUKEE™ Bandsaw Blade pack contains 100 blades for portable compact band saws.

### FEATURES

- High Speed Steel Teeth For Maximum Durability
- Alloy Backing Steel for Extended Blade Life
- Precision Formed Teeth for Fast, Clean Cuts



### STANDARD BAND SAW BLADES

	44-7/8"			35-3/8"			27"
TPI	1 Pack	3 Pack	100 Pack	1 Pack	3 Pack	100 Pack	3 Pack
10	48-39-0500	48-39-0501	48-39-0540	48-39-0508	48-39-0509	48-39-0546	–
10/14	48-39-0550	48-39-0551	48-39-0541	–	–	–	–
14	48-39-0510	48-39-0511	48-39-0542	48-39-0518	48-39-0519	48-39-0547	–
14/18	48-39-0560	48-39-0561	48-39-0543	–	–	–	–
18	48-39-0520	48-39-0521	48-39-0544	48-39-0528	48-39-0529	48-39-0548	48-39-0572
24	48-39-0530	48-39-0531	48-39-0545	48-39-0538	48-39-0539	48-39-0549	–



# NITRUS CARBIDE™

**FASTEST CUTTING. LONGEST LIFE.**



\*Vs. standard carbide teeth products

## CARBIDE TEETH **50X LIFE\*\***

**CUT LONGER. CUT MORE. CUT FASTER.**



\*\*Compared to bi-metal

## AX™ BEST IN CLASS WOOD CUTTING



AX™ w/ CARBIDE TEETH SAWZALL® BLADES FOR PRUNING



### PRUNING



AX™ BI-METAL SAWZALL® BLADES FOR WOOD WITH NAILS



### WOOD WITH NAILS



AX™ w/ CARBIDE TEETH SAWZALL® BLADES FOR WOOD WITH NAILS



## AX™ BEST IN CLASS WOOD CUTTING

### AX™ w/ CARBIDE TEETH SAWZALL® BLADES FOR PRUNING

#### FASTEST CUTTING ABOVE AND BELOW GROUND.



TPI	Length	Material	1 Pack	3 Pack
3	150MM		48-47-5231	48-47-5331
3	230MM		48-47-5232	48-47-5332
3	300MM		48-47-5233	48-47-5333

### STANDARD PRUNING SAWZALL® BLADES



TPI	Length	Material	1 Pack	5 Pack
5	230MM		48-47-1304	48-47-1301
5	300MM		48-47-1305	48-47-1303

### AX™ w/ CARBIDE TEETH SAWZALL® BLADES FOR NAIL EMBEDDED WOOD

#### 1,000 MORE CUTS.



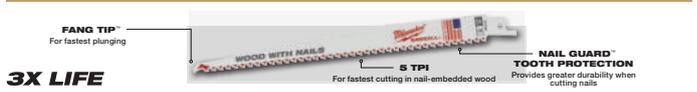
TPI	Length	Material	1 Pack	3 Pack	5 Pack
5	150MM		48-47-5221	48-47-5321	48-47-5521
5	230MM		48-47-5226	48-47-5326	48-47-5526
5	300MM		48-47-5227	48-47-5327	48-47-5527

### AX™ BI-METAL SAWZALL® BLADES



TPI	Length	Material	5 Pack	25 Pack
5	150MM		48-47-5021	48-00-8021
5	230MM		48-47-5026	48-00-8026
5	300MM		48-47-5027	48-00-8027

### STANDARD WOOD CUTTING SAWZALL® BLADES



TPI	Length	Material	5 Pack	25 Pack	50 Pack
5	150MM		48-47-5035	-	48-01-6035
5	230MM		48-47-5036	48-00-8036	48-01-6036
5	300MM		48-47-5037	-	48-01-6037

# WRECKER™

## TACKLE ANYTHING



WRECKER™ BI-METAL SAWZALL® BLADES FOR MULTI-MATERIAL



WRECKER™ w/ CARBIDE TEETH SAWZALL® BLADES FOR MULTI-MATERIAL



WRECKER™ w/ NITRUS CARBIDE™ SAWZALL® BLADES FOR MULTI-MATERIAL



### MULTI-MATERIAL



## WRECKER™

### TACKLE ANYTHING

#### WRECKER™ w/ NITRUS CARBIDE™ SAWZALL® BLADES

**UNMATCHED LIFE.**  
SUPERIOR CUTTING VERSATILITY.



TPI	Length	Material	1 Pack	5 Pack
6	150MM		48-47-5271	48-47-5571
6	230MM		48-47-5272	48-47-5572
6	300MM		48-47-5273	48-47-5573

#### WRECKER™ w/ CARBIDE TEETH SAWZALL® BLADES

**THE MOST VERSATILE CARBIDE BLADE.**



TPI	Length	Material	1 Pack	3 Pack	5 Pack
6	150MM		48-47-5241	48-47-5341	48-47-5541
6	230MM		48-47-5242	48-47-5342	48-47-5542
6	300MM		48-47-5243	48-47-5343	48-47-5543

#### WRECKER™ BI-METAL SAWZALL® BLADES



#### 5X LIFE

TPI	Length	Material	5 Pack	25 Pack
7/11	150MM		48-47-5701	48-00-8701
7/11	230MM		48-47-5706	48-00-8706
7/11	300MM		48-47-5711	48-00-8711

#### STANDARD MULTI-MATERIAL SAWZALL® BLADES



#### 3X LIFE

TPI	Length	Material	5 Pack	25 Pack	50 Pack
8/12	150MM		48-47-5091	-	48-01-6091
8/12	230MM		48-47-5093	48-00-8093	48-01-6093
8/12	300MM		48-47-5094	-	48-01-6094
10/14	230MM		48-47-5193	-	-
10/14	300MM		48-47-5194	-	-

# TORCH™

## FOR THE TOUGHEST METALS



TORCH™ BI-METAL SAWZALL® BLADES FOR THIN METAL

TORCH™ BI-METAL SAWZALL® BLADES FOR MEDIUM METAL

TORCH™ w/ CARBIDE TEETH SAWZALL® BLADES FOR MEDIUM METAL

TORCH™ w/ NITRUS CARBIDE™ SAWZALL® BLADES FOR MEDIUM METAL



THIN METAL



MEDIUM METAL



TORCH™ BI-METAL SAWZALL® BLADES FOR THICK METAL

TORCH™ w/ CARBIDE TEETH SAWZALL® BLADES FOR THICK METAL

TORCH™ w/ NITRUS CARBIDE™ SAWZALL® BLADES FOR CAST IRON



THICK METAL

## TORCH™ FOR MEDIUM & THIN METALS

### TORCH™ w/ NITRUS CARBIDE™ SAWZALL® BLADES FOR MEDIUM METALS

**UNMATCHED LIFE**  
IN CONDUIT & STRUT.

**OPTIMIZED TOOTH GEOMETRY**  
For clean, square cuts



**2X LIFE**  
VS. CARBIDE

For smooth, fast cuts in metal

**NITRUS CARBIDE™**  
Delivers the fastest cutting and longest life

TPI	Length	Material	1 Pack	3 Pack	5 Pack
10	150MM		48-47-6251	48-47-6351	48-47-6551
10	230MM		48-47-6252	48-47-6352	48-47-6552
10	300MM		48-47-6253	48-47-6353	48-47-6553

### TORCH™ w/ CARBIDE TEETH SAWZALL® BLADES FOR MEDIUM METALS

**LONG LIFE, SMOOTH CUTS**  
IN CONDUIT & STRUT.

**70% LARGER GULLETS**  
For easy chip ejection

**50X LIFE**



For smooth, fast cuts in metal

**CARBIDE TEETH**  
Cut longer. Cut more. Cut faster.

TPI	Length	Material	1 Pack	3 Pack	5 Pack
10	150MM		48-47-5251	48-47-5351	48-47-5551
10	230MM		48-47-5252	48-47-5352	48-47-5552
10	300MM		48-47-5253	48-47-5353	48-47-5553

### TORCH™ BI-METAL SAWZALL® BLADES

**GRID IRON™ HONEYCOMB PATTERN**  
Increases blade rigidity to resist blade buckling



**TOUGH NECK™ RIBS**  
Strengthens the blade tang and minimizes breakage

**5X LIFE**

Provides widest range of blades for metal cutting applications

TPI	Length	Material	5 Pack	25 Pack
14	150MM		48-47-5782	48-00-8782
14	230MM		48-47-5787	48-00-8787
14	300MM		48-47-5794	-
18	150MM		48-47-5784	48-00-8784
18	230MM		48-47-5788	48-00-8788
18	300MM		48-47-5789	48-00-8789
24	150MM		48-47-5786	-
24	230MM		48-47-5790	-
24	300MM		48-47-5791	-

### STANDARD METAL CUTTING SAWZALL® BLADES



**TOUGH NECK™ RIBS**  
Strengthens the blade tang and minimizes breakage

**3X LIFE**

Provides widest range of blades for metal cutting applications

TPI	Length	Material	5 Pack	25 Pack	50 Pack
14	100MM		48-47-5181	-	-
14	150MM		48-47-5182	48-00-8182	48-01-6182
14	230MM		48-47-5187	-	48-01-6187
18	100MM		48-47-5183	-	-
18	150MM		48-47-5184	48-00-8184	48-01-6184
18	230MM		48-47-5188	-	48-01-6188
18	300MM		48-47-5189	-	48-01-6189
24	100MM		48-47-5185	-	-
24	150MM		48-47-5186	48-00-8186	48-01-6186

# TORCH™ FOR THICK METALS

## TORCH™ w/ NITRUS CARBIDE™ SAWZALL® BLADES FOR CAST IRON

FOR THE **TOUGHEST**  
CAST REMOVALS.



TPI	Length	Material	1 Pack	3 Pack	5 Pack
8	150MM		48-47-5261	48-47-5361	48-47-5561
8	230MM		48-47-5262	48-47-5362	48-47-5562
8	300MM		48-47-5263	48-47-5363	48-47-5563

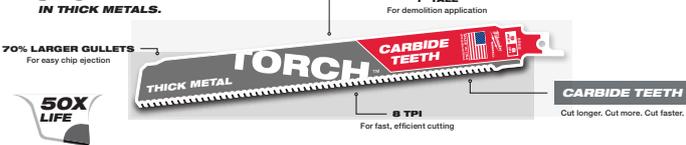
## TORCH™ BI-METAL SAWZALL® BLADES



TPI	Length	Material	5 Pack	25 Pack
10	150MM		48-47-5712	48-00-8712
10	230MM		48-47-5713	48-00-8713
10	300MM		48-47-5714	-

## TORCH™ w/ CARBIDE TEETH SAWZALL® BLADES FOR THICK METALS

**LONGER LIFE**  
IN THICK METALS.



TPI	Length	Material	1 Pack	3 Pack	5 Pack
8	150MM		48-47-5201	48-47-5301	48-47-5501
8	230MM		48-47-5202	48-47-5302	48-47-5502
8	300MM		48-47-5203	48-47-5303	48-47-5503

## STANDARD METAL CUTTING SAWZALL® BLADES



TPI	Length	Material	5 Pack
10	100MM		48-47-5090
10	150MM		48-47-5092



## SPECIALTY SAWZALL® BLADES

Product	1 Pack	3 Pack	5 Pack
	-	-	48-47-5015
	-	-	48-47-5016
	-	-	48-47-5017
	-	-	48-00-5161
	-	-	48-47-5162
	-	-	48-47-5163
	-	-	48-47-5052
	-	-	48-47-5041
	48-47-1440	-	-
	48-47-1450	-	-
	48-00-1421	48-47-1420	-
	48-00-1431	48-47-1430	-
	48-47-1640	-	-
	-	-	48-47-1630
	48-47-1600	-	-
	-	-	48-47-1610
	-	-	48-47-5460
	-	-	48-47-5310
	-	-	48-47-5324
	-	-	48-47-5410
	49-00-5450	-	-
	49-00-5455	-	-
	49-00-5456	-	-
	49-00-5463	-	-

# OSCILLATING MULTI-TOOL BLADES & ACCESSORIES

## Overview

MILWAUKEE™ Oscillating Multi-Tool Accessories provide a complete solution for cutting, scraping, sanding, and grinding across a wide range of materials and applications. Equipped with an OPEN-LOK™ Universal blade anchor for quick blade changes. Made with high quality materials and advanced manufacturing processes to deliver professional grade performance and market leading innovation.

## EXTREME METAL AND MATERIAL



### NITRUS CARBIDE OPEN-LOK™ MULTI-TOOL BLADE

Description	Width (mm)	Blade Length (mm)	Pack Quantity	Part Number	Materials
Nitrus Carbide Extreme Materials 35MM OPEN-LOK Multi-tool Blade	39	51	1	49-25-1571	
Nitrus Carbide Extreme Materials 35MM OPEN-LOK Multi-tool Blade	39	51	3	49-25-1573	
Nitrus Carbide Extreme Materials 35MM OPEN-LOK Multi-tool Blade	39	51	5	49-25-1575	
Nitrus Carbide Extreme Metal 35MM OPEN-LOK Multi-tool Blade	39	51	1	49-25-1561	
Nitrus Carbide Extreme Metal 35MM OPEN-LOK Multi-tool Blade	39	51	3	49-25-1563	
Nitrus Carbide Extreme Metal 35MM OPEN-LOK Multi-tool Blade	39	51	5	49-25-1565	

## EXTREME METAL AND MATERIAL

### TITANIUM ENHANCED CARBIDE TEETH BLADES



- TITANIUM ENHANCED™ Carbide Teeth for ultimate blade longevity
- Extreme Metal Blade: Cuts through screws, bolts, hard metal, cement board, plaster, and more
- Extreme Materials Blade: Fast cuts through wood with screws, nails, cement board, plaster, copper, and more
- Universal Fit, OPEN-LOK™ anchor raised for easy flush cuts and quick blade changes



Description	Width (mm)	Length (mm)	Pack Quantity	Part Number	Materials
TITANIUM ENHANCED Carbide Teeth Extreme Metal Blade	35	38	1	49-25-1501	
TITANIUM ENHANCED Carbide Teeth Extreme Materials Blade	35	38	1	49-25-1521	

## METAL AND MULTI-MATERIAL

### TITANIUM ENHANCED BI-METAL BLADES 2X FASTER CUTTING

- TITANIUM ENHANCED™ Carbide Teeth for ultimate blade longevity
- Cut-away blade body shape for easier plunge cuts
- Universal Fit, OPEN-LOK™ anchor raised for easy flush cuts and quick blade changes



Description	Width (mm)	Length (mm)	Pack Quantity	Part Number	Materials
TITANIUM ENHANCED Bi-Metal Metal Blade	10	42	1	49-25-1201	
TITANIUM ENHANCED Bi-Metal Multi-Material Deep Plunge Blade	32	67	1	49-25-1203	
TITANIUM ENHANCED Bi-Metal Multi-Material Blade	35	51	1	49-25-1231	
TITANIUM ENHANCED Bi-Metal Multi-Material Blade	64	42	1	49-25-1241	
TITANIUM ENHANCED Bi-Metal Multi-Material Segmented Blade	89	19	1	49-25-1271	
TITANIUM ENHANCED Bi-Metal Metal Blade	29	55	1	49-25-1251	
TITANIUM ENHANCED Bi-Metal Metal Blade	44	55	1	49-25-1261	

## HARDWOOD

### JAPANESE TOOTH HARDWOOD BLADES 2X FASTER CUTTING

- Precision ground Japanese teeth for a smooth finish and highest speed cuts
- Pro-Curve cutting edge for greater control and clean cuts
- Universal Fit, OPEN-LOK™ anchor raised for easy flush cuts and quick blade changes



Description	Width (mm)	Length (mm)	Pack Quantity	Part Number	Materials
High Carbon Steel Japanese Tooth Hardwood Blade	35	51	1	49-25-1131	
High Carbon Steel Japanese Tooth Hardwood Blade	64	42	1	49-25-1151	



**WOOD**

**HIGH CARBON STEEL WOOD BLADES  
FAST WOOD CUTTING**

- Optimized teeth for fast cuts in wood
- Cut-away blade body shape for easier plunge cuts
- Universal Fit, OPEN-LOK™ anchor raised for easy flush cuts and quick blade changes



49-25-1101

Description	Width (mm)	Length (mm)	Pack Quantity	Part Number	Materials
High Carbon Steel Wood Blade	35	51	1	49-25-1101	
High Carbon Steel Wood Blade	64	42	1	49-25-1111	
High Carbon Steel Wood Segment Blade	89	19	1	49-25-1121	

**SPECIALTY**

- Universal OPEN-LOK™ anchor for quick blade changes
- Laser etching to easily identify blade application
- Specialty cutting, scraping, grinding, and sanding accessories



49-25-2180

49-25-2241

49-25-2281

49-25-2222

Description	Pack Quantity	Part Number	Materials	Description	Pack Quantity	Part Number	Materials
5-in-1 Drywall Blade	1	49-25-2281		Tapered Sealant Cutters	5	49-25-2241	
2-in-1 Carbide Grit Grout & Mortar Blade	1	49-25-2261		Triangle Sanding Pad	1	49-25-2001	
Boot Shaped Diamond Grit Grout Blade	1	49-25-2271		10 Pc Triangle Sanding Pad & Sandpaper	10	49-25-2009	
3-in-1 Multi-Cutter Blade	1	49-25-2221		60 Grit Sandpaper	6	49-25-2060	
2 Pc Flexible & Rigid Scraper Blade Combo Pack	2	49-25-2202		80 Grit Sandpaper	6	49-25-2080	
Window Sealant Cutters	5	49-25-2222		120 Grit Sandpaper	6	49-25-2120	
Straight Sealant Cutters	5	49-25-2231		180 Grit Sandpaper	6	49-25-2180	

**BLADE SETS & VARIETY PACKS**

Description	Includes	Part Number	Product
TITANIUM ENHANCED All Purpose Pro Blade Set	(1) 1-3/8" TITANIUM ENHANCED Carbide Metal Blade (1) 1-3/8" TITANIUM ENHANCED Bi-Metal Multi-Material Blade (1) 1-3/8" High Carbon Steel Japanese Tooth Hardwood Blade	49-10-9001	
TITANIUM ENHANCED Multi-Material Variety Pack	(1) 1-3/8" TITANIUM ENHANCED Carbide Multi-Material Blade (1) 1-3/8" TITANIUM ENHANCED Bi-Metal Multi-Material Blade (1) 2-1/2" TITANIUM ENHANCED Bi-Metal Multi-Material Blade	49-10-9005	
TITANIUM ENHANCED Metal Variety Pack	(1) 1-3/8" TITANIUM ENHANCED Carbide Metal Blade (1) 1-1/8" TITANIUM ENHANCED Bi-Metal Metal Blade (1) 1-3/4" TITANIUM ENHANCED Bi-Metal Metal Blade	49-10-9006	
High Carbon Steel Wood Variety Pack	(1) 1-3/8" High Carbon Steel Wood Blade (1) 2-1/2" High Carbon Steel Wood Blade (1) 3-1/2" Segmented High Carbon Steel Wood Blade	49-10-9004	
Multi-Tool Blade Kit w/ Case	(2) 1-3/8" TITANIUM ENHANCED Bi-Metal Multi-Material Blades (1) 2-1/2" TITANIUM ENHANCED Bi-Metal Multi-Material Blade (2) 1-3/8" High Carbon Steel Japanese Tooth Hardwood Blades (1) 1-3/8" High Carbon Steel Wood Blade (1) Hard Case Included	49-10-9112	
Multi-Tool Blade Kit w/ Case	(1) 1-3/8" TITANIUM ENHANCED Carbide Metal Blade (2) 1-3/8" TITANIUM ENHANCED Bi-Metal Multi-Material Blades (1) 2-1/2" TITANIUM ENHANCED Bi-Metal Multi-Material Blade (1) 3-1/2" Segmented TITANIUM ENHANCED Bi-Metal Multi-Material Blade (2) 1-3/8" High Carbon Steel Japanese Tooth Hardwood Blades (2) 1-3/8" High Carbon Steel Wood Blades (1) Hard Case Included	49-10-9113	

## CUTTING AND GRINDING WHEELS

### METAL CUTTING WHEELS

Abrasive Type	Wheel Diameter (mm)	Thickness (mm)	Bore Size (mm)	Part No.	Image
WA60T	105	1	16	49 -94 -8400	
WA60T	125	1	22.2	49 -94 -8500	
A46S	180	1.6	22.2	49 -94 -8700	
A46T	355	3	25.4	49 -94 -8140	
A30R	355	2.5	25.4	49 -94 -8150	

### METAL GRINDING WHEELS

Abrasive Type	Wheel Diameter (mm)	Thickness (mm)	Bore Size (mm)	Part No.	Image
A24R	100	6	16	49 -94 -8410	
A24R	125	6	22.2	49 -94 -8510	
A24R	180	6	22.2	49 -94 -8710	

## SANDING BELTS

Paper Size (mm)	Grit	Pack Quality	Part No.	Image
75 X 457	40	5	4932480546	
75 X 457	60	5	4932480547	
75 X 457	80	5	4932480548	
75 X 457	100	5	4932480549	
75 X 457	150	5	4932480550	

## POWERGRID™ SANDING MESH ACCESSORIES

- **SUPERIOR** performance with Faster Material Removal & Tight Corner Accessibility.
- **12X LONGER LIFE** vs Standard Sandpaper.
- **REUSABLE** by Shake, Rinse or Vacuum to Reuse Sanding Mesh.



Type	Grit	Pack Quality	Part No.
Pentagon Sanding Mesh	80	12	48-80-5080
Pentagon Sanding Mesh	120	12	48-80-5120
Pentagon Sanding Mesh	150	12	48-80-5150
Pentagon Sanding Mesh	180	12	48-80-5180
Pentagon Sanding Mesh	220	12	48-80-5220
Pentagon Sanding Mesh	320	12	48-80-5320
Pentagon Sanding Mesh	400	12	48-80-5400
Pentagon Sponge Interface Pad	-	1	48-80-5402
Pentagon Sanding Mesh Assorted Kits	80 x 4Pc, 120 x 4Pc, 180 x 4Pc, Pad saver x 1Pc	13	48-80-5405



**Milwaukee™**

The Milwaukee logo is rendered in a white, stylized, cursive font against a solid red background. The word "Milwaukee" is slanted upwards from left to right. A white lightning bolt graphic, consisting of two parallel lines that taper to points, runs horizontally beneath the text, following its upward slant.



Nothing but **HEAVY DUTY.**<sup>™</sup>

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