



Nothing but **HEAVY DUTY.**[™]

Milwaukee Electric Tool

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www.milwaukeetool.asia



Nothing but **HEAVY DUTY.**[™]



2019 ASIA RANGE CATALOGUE



1/4" HOLE SHOOTER (1924)

After the first World War, Henry Ford challenged A.H. Peterson to produce a small lightweight 1/4" capacity power drill.



1/2" RIGHT ANGLE DRILL (1949)

The first tool that allowed electricians to carry out their work in confined work conditions. Enter the Right Angle Drill.



SAWZALL[®] (1951)

This groundbreaking tool was the first portable electric SAWZALL[®].



Milwaukee™

THE MILWAUKEE STORY

Milwaukee is an industry leading designer, manufacturer and marketer of Heavy-Duty, portable power tools, hand tools and accessories, since its establishment in 1924 in Brookfield USA.

Milwaukee is focused on a single vision:

To produce the best Heavy-Duty professional powertools.

Milwaukee's reputation is based on the reliability, durability, high quality and high performance delivered by its power tools, hand tools and accessories since the company's formation.

Milwaukee's ability to address user needs is based on extensive end user research, stringent benchmarking as well as demanding laboratory and in-field user testing.



DISCLAIMER:
Products shown within this catalogue may vary market to market based on: availability, local approvals / executions.
Please check with your local Milwaukee stockist in your market. E&OE..

DRIVEN TO OUTPERFORM.

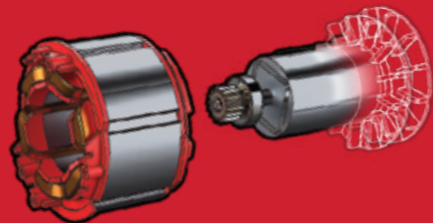
M12 FUEL™ and M18 FUEL™ are engineered for the most demanding tradespeople in the world. Delivering unrivaled performance in a compact structure, all M12 FUEL™ and M18 FUEL™ products feature three MILWAUKEE™ exclusive innovations: the POWERSTATE™ Brushless Motor, REDLINK PLUS™ Intelligence hardware and software. These deliver unmatched power, runtime and durability.

M12 FUEL™
DRIVEN TO OUTPERFORM.™

M18 FUEL™
DRIVEN TO OUTPERFORM.™

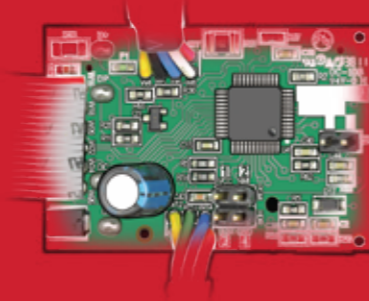
1 POWERSTATE™ Brushless Motor

- MILWAUKEE™ Designed and Built Brushless Motor.



2 REDLINK PLUS™ INTELLIGENCE

- Most Advanced Electronic System on the Market for Maximum Performance
- Total System Communication with Overload Protection Increases Tool Life



3 REDLITHIUM™-ION BATTERY PACKS

- Most Durable Packs on the Market





M12 FUEL™ COMPACT PERCUSSION DRILL



Voltage	12 V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1700
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	13
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	35
Max. Percussion Rate (bpm)	25500
Max. Torque (Nm)	44
Weight w/ 6.0Ah Battery Pack (kg)	1.47

Model Name
M12 FPD

M12 FUEL™ COMPACT DRILL DRIVER



Voltage	12 V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1700
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	N/A
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	35
Max. Percussion Rate (bpm)	N/A
Max. Torque (Nm)	44
Weight w/ 6.0Ah Battery Pack (kg)	1.46

Model Name
M12 FDD

M12 FUEL™ 1/4" HEX COMPACT IMPACT DRIVER



Voltage	12 V
No Load Speed (rpm)	0-1300/ 0-2400/ 0-3300/ 0-3300
Impact Rate (ipm)	0-4000
Max. Torque (Nm)	30 / 85 / 147
Weight w/ 6.0Ah Battery Pack (kg)	1.2

Model Name
M12 FID

M12 FUEL™ STUBBY IMPACT WRENCH



Voltage	12 V
No Load Speed (rpm)	0-1200/ 0-1800/ 0-2700/ 0-2700
Impact Rate (ipm)	0-1100/ 0-2100/ 0-3200
Max. Torque (Nm)	85/ 125/ 339/ 339
Max. Bolt Diameter	M16
Anvil Type	1/2" Square (Friction Ring)
Weight w/ 6.0Ah Battery Pack (kg)	1.37

Model Name
M12 FIWF12

M12 FUEL™ 1/4" HEX COMPACT 2 SPEED DRIVER



Voltage	12 V
No Load Speed Gear 1 (rpm)	0-450
No Load Speed Gear 2 (rpm)	0-1700
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	25
Max. Torque (Nm)	37
Weight w/ 4.0Ah Battery Pack (kg)	1.4

Model Name
M12 CD

M12 FUEL™ 1/2" COMPACT IMPACT WRENCH



Voltage	12 V
No Load Speed (rpm)	0-1500 / 0-2650
Impact Rate (ipm)	0-2650 / 0-3500
Max. Torque (Nm)	65 / 160
Max. Bolt Diameter	M16
Anvil Type	1/2" Square
Weight w/ 4.0Ah Battery Pack (kg)	1.3

Model Name
M12 CW12

M12 FUEL™ 1/4" IMPACT RATCHET



Voltage	12 V
Anvil Type	1/4" Square
Max Torque (Nm)	54
No Load Speed (rpm)	0-250
Length (mm)	284
Weight w/ 2.0Ah Battery Pack (kg)	1.04

Model Name
M12 FIR14

M12 FUEL™ 3/8" IMPACT RATCHET



Voltage	12 V
Anvil Type	3/8" Square
Max Torque (Nm)	75
No Load Speed (rpm)	0-200
Length (mm)	302
Weight w/ 2.0Ah Battery Pack (kg)	1.36

Model Name
M12 FIR38

M12 FUEL™ 1/2" IMPACT RATCHET



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

Model Name
M12 FIR12

M12 FUEL™ SDS-PLUS HAMMER (2 MODE)



Voltage	12 V
Blow Energy (EPTA)(J)	1.1
No Load Speed (rpm)	0-900
Max. Drilling Concrete (mm)	13
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	13
Full Load Hammer Action (bpm)	0-6575
Weight w/ 6.0Ah Battery Pack (kg)	1.9

Model Name
M12 CH

M12 FUEL™ COMPACT HACKZALL™



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

Model Name
M12 CHZ

M12 FUEL™ COMPACT CIRCULAR SAW



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

Model Name
M12 CCS44



M12 FIWF12

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES



M18 FUEL™ 13MM PERCUSSION DRILL

NEW



Voltage	18 V
No Load Speed Gear 1 (rpm)	0-550
No Load Speed Gear 2 (rpm)	0-2000
Chuck Capacity (mm)	13
Max. Drilling Masonry (mm)	16
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	89
Max. Percussion Rate (bpm)	0-32000
Max. Torque (Nm)	135
Weight w/ 5.0Ah Battery Pack (kg)	2.2

Model Name

M18 FPD2

M18 FUEL™ 1/4" HEX IMPACT DRIVER

NEW



Voltage	18 V
No Load Speed (rpm)	0-1900/ 0-2800/ 0-3600 / 0-2600
Impact Rate (ipm)	0-1200/ 0-3400/ 0-4300
Max. Torque (Nm)	119/176/226/0-226
Weight w/ 5.0Ah Battery Pack (kg)	1.7

Model Name

M18 FID2

M18 FUEL™ 3/8" COMPACT IMPACT WRENCH



Voltage	18 V
No Load Speed (rpm)	0-900/ 0-1600/ 0-2500/ 0-1600
Impact Rate (ipm)	0-1900/ 0-2300/ 0-3100/ 0-2300
Max. Torque (Nm)	40/ 100/ 284/ 100
Max. Bolt Diameter	M18
Anvil Type	3/8" square (Friction Ring)
Weight w/ 5.0Ah Battery Pack (kg)	1.8

Model Name

M18 FIWF38

M18 FUEL™ 1/2" COMPACT IMPACT WRENCH



Voltage	18 V
No Load Speed (rpm)	0-1700/ 0-2000/ 0-2500/ 0-2000
Impact Rate (ipm)	0-2400/ 0-2600/ 0-3100/ 0-2600
Max. Torque (Nm)	40/ 120/ 300/ 120
Anvil Type	1/2" square (Multi-Fit)
Weight w/ 5.0Ah Battery Pack (kg)	1.8

Model Name

M18 FIW12

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



Voltage	18 V
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
Weight w/ 5.0Ah Battery Pack (kg)	1.7

Model Name

M18 FQID

M18 FUEL™ MUD MIXER



Voltage	18 V
No Load Speed (rpm)	0-550
Max. Torque (Nm)	136
Variable Speed Trigger	Yes
Variable Speed Dial	Yes
Lock-On Button	Yes
Auxiliary Handle Rotation	180°
Weight w/ 5.0Ah Battery Pack (kg)	3.0

Model Name

M18 FPM (M14 Spindle) / M18 FPMC (Chuck)



M18 FPMC



M18 FUEL™ 3/4" HIGH TORQUE IMPACT WRENCH

NEW



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

Model Name
M18 ONEFHIWF34

M18 FUEL™ 1/2" MID TORQUE IMPACT WRENCH



Voltage	18 V
No Load Speed (rpm)	0-1700/ 0-2100/ 0-2400
Impact Rate (ipm)	0-2300/ 0-2700/ 0-3000
Max. Torque (Nm)	610
Max. Bolt Diameter	M20
Anvil Type	1/2" Square (Friction Ring & Ball Bearing)
Weight w/ 5.0Ah Battery Pack (kg)	2.5

Model Name
M18 FMTIW12

M18 FUEL™ 1/2" HIGH TORQUE IMPACT WRENCH



Voltage	18 V
No Load Speed (rpm)	0-550/ 0-1400/ 0-1750/ 0-1750
Impact Rate (ipm)	0-950/ 0-1750/ 0-2100/ 0-2100
Max. Torque (Nm)	1356
Max. Nut Busting Torque (Nm)	1898
Max. Bolt Diameter	M33
Anvil Type	1/2" Square (Friction Ring)
Weight w/ 5.0Ah Battery Pack (kg)	3.3

Model Name
M18 FHIWF12



M18 FMTIW12

UP TO
1898NM
OF NUT-BUSTING TORQUE

COMPACT
213MM
LENGTH

LED LIGHT
TO ILLUMINATE WORK AREA

4-MODE
DRIVE CONTROL™

M18 FHIWF12

- Choose between four performance modes for optimized use

1 MODE
130Nm

2 MODE
400Nm

3 MODE
1,356Nm



BOLT REMOVAL MODE

REDLITHIUM™-ION

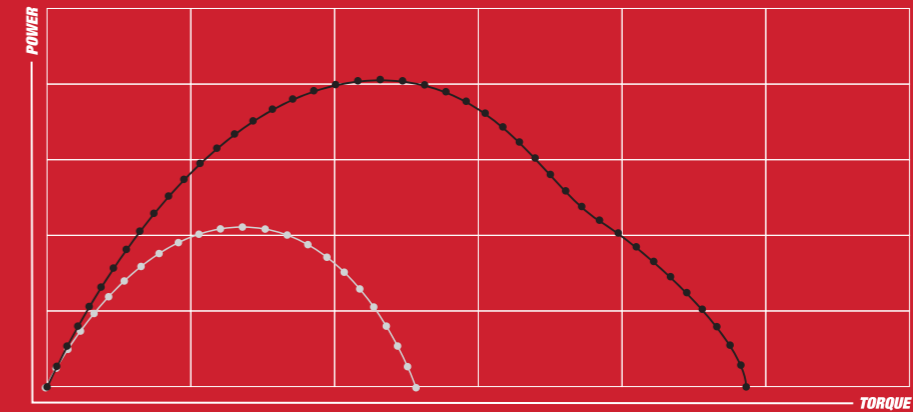
HIGH OUTPUT™



+50% MORE POWER

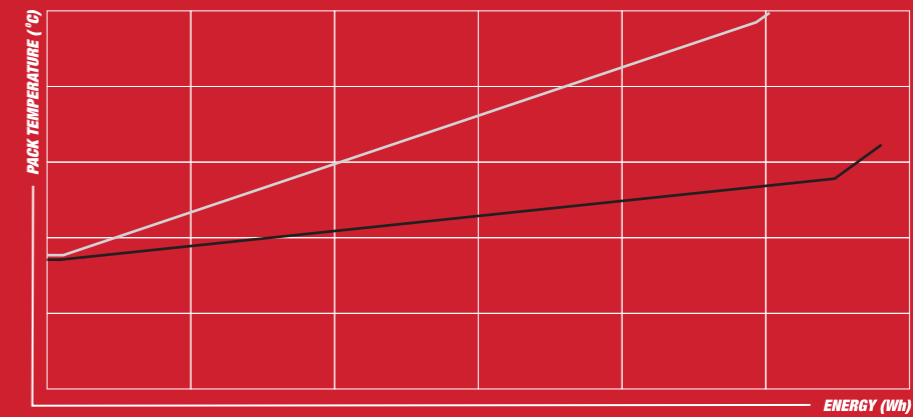
VS. STANDARD REDLITHIUM™-ION

POWER PERFORMANCE



M18 12.0Ah
M18 9.0Ah

THERMAL PERFORMANCE



M18 12.0Ah
M18 9.0Ah



*vs. Milwaukee™ M18™ REDLITHIUM™-ION 9.0Ah Battery



M18 FLAG230XPDB

M18 FUEL™

M18 FUEL™ 180-230MM LARGE ANGLE GRINDER

NEW

Voltage	18 V
No Load Speed (rpm)	0-6600
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
Model Name	M18 FLAG230XPDB

M18 FUEL™ 100MM BRAKING GRINDER

Voltage	18 V
No Load Speed (rpm)	0-8500
Disc Diameter (mm)	100
Max. Cutting Depth (mm)	21
Spindle Size	M10
Switch Type	Paddle Switch
Line Lock Out Function	Yes
Weight w/ 5.0Ah Battery Pack (kg)	2.6 Kg
Model Name	M18 CAG100XPDB

M18 FUEL™ 125MM ANGLE GRINDER

Voltage	18 V
No Load Speed (rpm)	0-8500
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Switch Type	Slide /Paddle
Spindle Size	M14
Line Lock Out Function	No
Weight w/ 5.0Ah Battery Pack (kg)	2.5
Model Name	M18 CAG125X (Slide Switch)
Model Name	M18 CAG125XPDB (Paddle Switch)

M18 FUEL™ 100MM ANGLE GRINDER

Voltage	18 V
No Load Speed (rpm)	0-8500
Disc Diameter (mm)	100
Max. Cutting Depth (mm)	21
Switch Type	Slide Switch
Spindle Size	M10
Line Lock Out Function	No
Weight w/ 5.0Ah Battery Pack (kg)	2.6
Model Name	M18 CAG100X



M18 CAG100X

M18 FUEL™ 125MM BRAKING GRINDER

Voltage	18 V
No Load Speed (rpm)	0-8500
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Switch type	Paddle Switch
Spindle size	M14
Line lock out function	Yes
Weight w/ 5.0Ah Battery Pack (kg)	2.7
Model Name	M18 CAG125XPDB



M18 CAG100XPDB



M18 FSX

M18 FUEL™ SUPER SAWZALL™

NEW



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

Model Name **M18 FSX**

M18 FUEL™ SAWZALL™



Voltage	18 V
No load stroke rate (spm)	0-3000
On/ Off Orbital	No
5-Speed Dial	No
Adjustable Shoe	Yes
Hand Hook	Yes
Stroke Length (mm)	28.6
Weight w/ 5.0Ah Battery Pack (kg)	4.1

Model Name **M18 CSX**

M18 FUEL™ HACKZALL™



Voltage	18 V
No Load Stroke Rate (spm)	0-3000
Stroke Length (mm)	22
Weight w/ 6.0Ah Battery Pack (kg)	2.6

Model Name **M18 FHZ**

M18 FUEL™ 125MM DEEP CUT BANDSAW



Voltage	18 V
No Load Speed (m/ min)	0-116
Max. Cutting Capacity (mm)	125 x 125
Blade length (mm)	1,139.8
Weight w/ 5.0Ah Battery Pack (kg)	7.3

Model Name **M18 CBS125**

M18 FUEL™ DIE GRINDER



Voltage	18 V
No Load Speed (rpm)	0-27000
Collect Diameter (mm)	6/ 8
Max. Grinding Accessories Dia. (mm)	50
Switch Type	Slide Switch
Weight w/ 5.0Ah Battery Pack (kg)	2.1

Model Name **M18 FDG**

M18 FUEL™ METAL SAW



Voltage	18 V
No Load Speed (rpm)	0-3900
Max. Cutting Depth In Metal Pipe (mm)	57
Max. Cutting Depth In Steel (mm)	6.5
Blade Diameter (mm)	150
Bore Size (mm)	20
Weight w/ 5.0Ah Battery Pack (kg)	2.8

Model Name **M18 FMCS**

M18 FUEL™ 38MM MAGNETIC DRILL



Voltage	18 V
No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-690
Stroke Length (mm)	146
Mag. Holding Power (at drill point pressure) (N)	8890
Max. Depth Broaching Capacity (mm)	50
Max. Diameter Broaching Capacity (mm)	38
Max. Drilling Solid bit (mm)	13
Weight w/ 5.0Ah Battery Pack (kg)	13

Model Name **M18 FMDP**



M18 FDG

M18 FUEL

Milwaukee Nothing but **HEAVY DUTY.**

M18 FUEL



M18 FCHS

OUTDOOR POWER EQUIPMENT



M18 FUEL™ CHAINSAW

NEW



Voltage	18 V
Chain Bar Length (mm)	406
Chain Gauge (mm)	1.1
Chain Pitch (mm)	3/8" Low Profile™
No Load Speed (rpm)	0-6600
Variable Speed Trigger	Yes
Chain Oil Tank Capacity (ml)	200
Total Length (mm)	838
Weight w/ 12.0Ah Battery Pack (kg)	6.4

Model Name

M18 FCHS

M18 FUEL™ LINE TRIMMER



Voltage	18 V
No Load Speed - Low (rpm)	0-4600
No Load Speed - High (rpm)	0-5800
Cutting Line ø Max. (mm)	2.5
Cutting Capacity Max. (mm)	400
Weight w/ 9.0 Ah Battery Pack (kg)	5.6

Model Name

M18 CLT

M18 FUEL™ HEDGE TRIMMER



Voltage	18 V
Stroke Per Minute (spm)	3400
Blade Length (mm)	610
Cutting capacity (mm)	19
Sharpening Angle to Horizontal (°)	<30
Tooth Spacing (mm)	19
Weight w/ 9.0Ah Battery Pack (kg)	5

Model Name

M18 CHT

M18 FUEL™ BLOWER



Voltage	18V
Max. Air Volume (m³/minute)	12.7
Max. Airflow Speed (km/h)	193
Noise Rating (db)	62
Lock On Button	Yes
Length (mm)	859
Weight w/ 9.0Ah Battery Pack (kg)	3.3

Model Name

M18 FBL



M18 CLT



M18 CHT



M18 FBL

M18 FUEL
M18 FUEL
FORCE LOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M18 FUEL™



M18 CHM

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



Voltage	18 V
Blow Energy (EPTA) (J)	11.0
No Load Speed (rpm)	0-380
Full Load Hammer Action (bpm)	0-2900
Max. Drilling Concrete (mm)	45
Max. Drilling Core Bit (mm)	150
Max. Drilling Tunnel Bit (mm)	65
Weight w/ 12.0Ah Battery Pack (kg)	10.2

Model Name **M18 FHM**

M18 FUEL™ 5 KG SDS-MAX DRILLING AND BREAKING HAMMER



Voltage	18 V
Blow Energy (EPTA) (J)	6.1
No Load Speed (rpm)	0-450
Full Load Hammer Action (bpm)	0-3000
Max. Drilling Concrete (mm)	40
Max. Drilling Core Bit (mm)	100
Max. Drilling Tunnel Bit (mm)	65
Optimised Drilling Capacity In Concrete ø (mm)	16 - 32
Weight w/ 9.0Ah Battery Pack (kg)	6.6

Model Name **M18 CHM**

M18 FUEL™ SDS-PLUS HAMMER (3 MODE)



Voltage	18 V
Blow Energy (EPTA) (J)	2.5
Max. Drilling Concrete (mm)	26
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	30
Full Load Hammer Action (bpm)	0-4900
Vibration Drilling (m/s²)	8.9
Vibration Chiseling (m/s²)	9.5
Weight w/ 5.0Ah Battery Pack (kg)	3.5

Model Name **M18 CH**
M18 CHX (FIXTEC™)

M18 FUEL™ HIGH PERFORMANCE SDS-PLUS HAMMER (3 MODE)



Voltage	18 V
Blow energy (EPTA) (J)	4.5
Max. Drilling Concrete (mm)	28
Max. Drilling Steel (mm)	13
Max. Drilling Wood (mm)	30
Full Load Hammer Action (bpm)	0-5000
Vibration Drilling (m/s²)	8.6
Vibration Chiseling (m/s²)	7.1
Weight w/ 5.0Ah Battery Pack (kg)	4.3

Model Name **M18 CHP**
M18 CHPX (FIXTEC)

M18 FUEL™ SDS-PLUS DUST EXTRACTOR



Voltage	18 V
Max. Drill Bit Diameter (mm)	16
Max. Drill Bit Length (mm)	160
Max. Drilling Depth (mm)	90
Stroke Length (mm)	100

Model Name **M18 CDEX**
(FOR M18 CH & CHX)

M18 FUEL™ HEAVY DUTY DUST EXTRACTOR



Voltage	18 V
Max. Drill Bit Diameter (mm)	16
Max. Drill Bit Length (mm)	160
Max. Drilling Depth (mm)	90
Stroke Length (mm)	100

Model Name **M18-28 CPDEX**
(For M18 CHP & CHPX)

M18 FUEL™ TOP HANDLE JIGSAW

NEW



Voltage	18 V
No Load Stroke Rate (spm)	0-3500
Stroke Length (mm)	25
Max. Cutting Capacity Steel (mm)	10
Max. Cutting Capacity Wood (mm)	135
Weight w/ 5.0Ah Battery Pack (kg)	2.9

Model Name **M18 FJS**

M18 FUEL™ 254MM MITRE SAW



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

Model Name **M18 FMS254**

M18 FUEL™ SUPER HAWG™ 1/2" RIGHT ANGLE DRILL



Voltage	18 V
No Load Speed Gear 1 (rpm)	0-350
No Load Speed Gear 2 (rpm)	0-950
Max. Torque (Nm)	95
Chuck Capacity (mm)	13
Max. Drilling Steel	13
Max. Drilling Wood with Auger Bit (mm)	40
Max. Drilling Wood with Self-feed Bit (mm)	117
Max. Drilling Wood with Hole-saw (mm)	152
Weight w/ 5.0Ah Battery Pack (kg)	6.4

Model Name **M18 FRAD**

M18 FUEL™ 165MM CIRCULAR SAW



Voltage	18 V
No Load Speed (rpm)	0-5000
Max Cutting Depth 90° (mm)	55
Max Cutting Depth 45° (mm)	41
Blade Diameter (mm)	165
Bore size (mm)	15.87
Weight w/ 5.0Ah Battery Pack (kg)	3.2

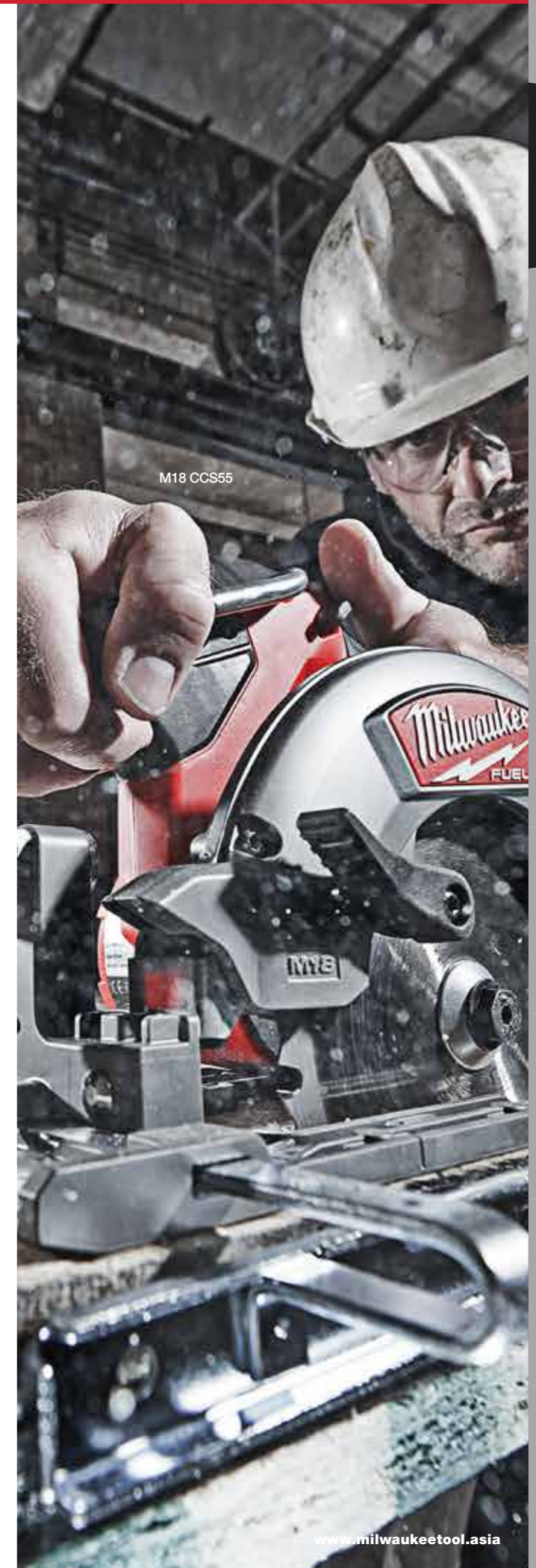
Model Name **M18 CCS55**

M18 FUEL™ 190MM CIRCULAR SAW



Voltage	18 V
No Load Speed (rpm)	0-5000
Max. Cutting Depth 90° (mm)	66
Max. Cutting Depth 45° (mm)	48
Blade Diameter (mm)	190
Bore Size (mm)	30
Weight w/ 5.0Ah Battery Pack (kg)	4.2

Model Name **M18 CCS66**



M18 CCS55

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES



M18 FBPV

M18 FUEL™ FREE STANDING DRAIN CLEANER

NEW



Voltage	18 V
No Load Speed (rpm)	0-250
Max. Drain Diameter (mm)	100
Cable Length (m)	15
Spiral Type	Open Wind
Spiral Diameter (mm)	16
Weight w/ 5.0Ah Battery Pack (kg)	13.4

Model Name M18 FFSDC16

M18 FUEL™ POLISHER



Voltage	18 V
No Load Speed (rpm)	360 - 2200
Max. Polishing 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

Model Name M18 FAP180

M18 FUEL™ BACKPACK VACUUM

NEW



Voltage	18 V
Capacity(l)	3.8
Hose Diameter (mm)	36
Max. Vacuum (mbar)	189
Sealed Suction (mm)	1905 v H20
Weight w/ 12.0Ah Battery Pack (kg)	9.5

Model Name M18 FBPV

M18™

FORCELOGIC™

THE SMARTEST WAY TO WORK



M18 FUEL SWITCH PACK™ SECTIONAL DRUM SYSTEM

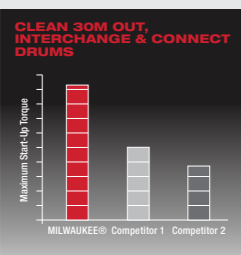


M18 FFSDC16



BACKPACK CARRY, ACCESS ANYWHERE

Provides maximum mobility and allows users to interchange between cable sizes



POWER-STATE™ Brushless Motor delivers maximum power 30m down the line



REDLINK PLUS™ Intelligence ensures maximum performance under load and improves control throughout the entire process

FORCELOGIC™



THE SMARTEST WAY TO WORK

M18 FORCE LOGIC™ 6 TON CU/AL CABLE CUTTER KIT

Voltage	18 V
Capacity (mm)	Copper: 35 Aluminum: 35
Cut Speed (s)	3
No. of Cuts/ Blade	3,000+
No. of Cuts/ Battery Charge	150+
Head Rotation (°)	350
Auto Retraction	Yes
Weight w/ 5.0Ah Battery Pack (kg)	3.7
Model Name	
M18 HCC	

M18 ACSR CABLE CUTTER

Only In-Line Jaw Cutter
Capable of Cutting
297 mm² ACSR

3X Faster

Capacity ACSR:
297 mm²

M18 FORCE LOGIC™ OVERHEAD CABLE CUTTER

Voltage	18 V
Max. ACSR Wire Capacity (mm ²)	908, 54 Al/ 19 Stl
Max. Ground Rod (mm)	15
Max. EHS Guy Wire Capacity (mm)	12
Cut Speed (s)	7.7
No. of Cuts per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Output Force (tons)	9
Weight w/ 5.0 Ah Battery Pack (kg)	6
Model Name	
M18 HCC45	

OVERHEAD CUTTER ACCESSORIES

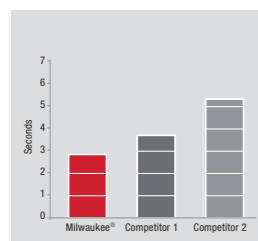
49162775 Replacement overhead cutter



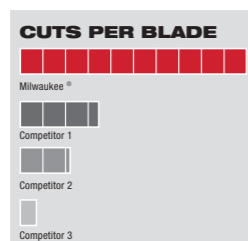
49162775

CU/AL CABLE CUTTER*

Fastest Cuts



10X Blade Life

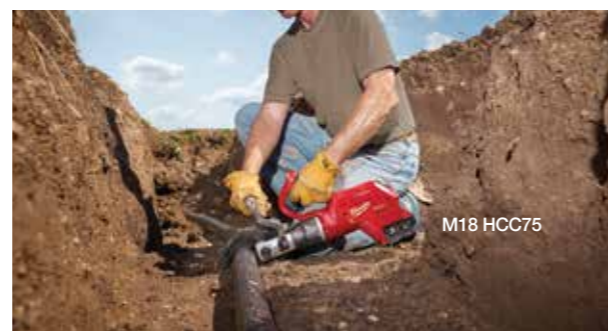


6T CUTTER JAWS AND ACCESSORIES

6T Cutter Jaws	
4932430839	M18™ Cu/Al Jaw
49162773	M18™ ACSR Jaw
6T Cutter Replacement Blades	
4932464498	Replacement Copper blade
48440412	Replacement ACSR blade

M18 FORCE LOGIC™ UNDERGROUND CABLE CUTTER

Voltage	18 V
Max. Copper Wire Capacity	Single conductor (mm ²): 750, 15KV 3 single conductor (mm ²): 3 x 175 3 conductor (mm ²): 3 x 250
Max. Aluminum Wire Capacity	Single conductor (mm ²): 750, 46KV 3 conductor (mm ²): 3 x 400
Cut Speed (s)	9.5
No. of Cuts Per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Output Force (tons)	9
Weight w/ 5.0Ah Battery Pack (kg)	7.9
Model Name	
M18 HCC75	



M18 FORCE LOGIC™ UNDERGROUND CABLE CUTTER W/ WIRELESS REMOTE

Voltage	18 V
Max. Copper Wire Capacity	Single conductor (mm ²): 750, 15KV 3 single conductor (mm ²): 3 x 175 3 conductor (mm ²): 3 x 250
Max. Aluminum Wire Capacity	Single conductor (mm ²): 750, 46KV 3 conductor (mm ²): 3 x 400
Cut Speed (s)	9.5
Wireless Remote	Yes
Max. Distance for Remote Cutting (m)	25
No. of Cuts Per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Output Force (tons)	9
Weight w/ 5.0Ah Battery Pack (kg)	7.9
Model Name	
M18 HCC75R	

UNDERGROUND CUTTER ACCESSORIES

49162774 Replacement underground cutter blade



49162774

M18 FORCE LOGIC™ 6T COMMERCIAL CRIMPER

Voltage	18 V
Max. Copper Wire Capacity (mm ²)	300
Max. Aluminum Wire Capacity (mm ²)	150
Crimp Speed (s)	3
PFM™ Adaptive Pressure Control System	Yes
No. of Crimps per 2.0Ah Battery Pack	220+
Head Rotation (°)	350
Output Force (tons)	6
Weight w/ 2.0Ah Battery Pack (kg)	3.7
Model Name	
M18 HCCT	

M18 FORCE LOGIC™ 12T UTILITY CRIMPER

Voltage	18 V
Max. Copper Wire Capacity (mm ²)	400
Max. Aluminum Wire Capacity (mm ²)	300
Max. ACSR Wire Capacity (mm ²)	297
Crimp Speed (s)	7
PFM™ Adaptive Pressure Control System	Yes
No. of Crimps per 5.0Ah Battery Pack	100+
Head Rotation (°)	340
Output Force (tons)	12
Weight w/ 5.0Ah Battery Pack (kg)	5.6
Model Name	
M18 HCCT109/42	

FORCE LOGIC™ KNOCKOUT TOOLS

M18 FORCE LOGIC™ 6 TON KNOCKOUT TOOLS

Max. Hole Diameter (mm)	100
Punch Capacity (mm)	Mild Steel: 3.0 Stainless Steel: 2.5
No. of Holes per 2.0Ah Battery Pack	120
Output Force (tons)	6
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	
Model Name	
M18 HKP	

M18 EXACT™ 1/2" - 2" HAND RATCHET KNOCKOUT SET

Max. Hole Diameter (mm)	50
Punch Capacity Mild Steel (mm):	3.0
Weight (kg)	5.4
Included:	
• Hand ratchet	
• 3/8" (10mm) and 3/4" (19mm) ball bearing draw studs	
• EXACT™ 1/2" (12 mm) to 2" (50 mm) Conduit Punches and Dies	
• Grease tube	
• Carrying case	
Model Name	
49-16-2694	

PORTABLE PRODUCTIVITY

M12



M12™



M4 1/4" HEX SCREWDRIVER

Voltage	4 V
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
Model Name	M4 D

M12 COMPACT PERCUSSION DRILL

Voltage	12 V
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)	0-22500
Max. Torque (Nm)	38
Weight w/ 2.0Ah Battery Pack (kg)	1.2
Model Name	M12 BPD

M12 COMPACT DRILL DRIVER

Voltage	12 V
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
Model Name	M12 BDD

M12 1/4" HEX COMPACT DRIVER

No Load Speed Gear 1 (rpm)	0-400
No Load Speed Gear 2 (rpm)	0-1500
Chuck Capacity (mm)	6
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	22
Max. Torque (Nm)	30
Weight w/ 2.0Ah Battery Pack (kg)	1.0
Model Name	M12 BD

M12 COMPACT IMPACT DRIVER

Voltage	12 V
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
Model Name	M12 BID

M12 1/2" SQUARE COMPACT IMPACT WRENCH

Voltage	12 V
No Load Speed (rpm)	0-2500
Impact Rate (ipm)	0-3300
Max. Torque (Nm)	138
Max. Bolt Diameter	M16
Anvil Type	1/2" Square (Pin Detent)
Weight w/ 2.0Ah Battery Pack (kg)	1.0
Model Name	M12 BIW12

M12 RIVET TOOL

NEW	
Voltage	12 V
Max Pulling Force (N)	9000
Rivet Diameter Range (mm)	2.4-4.8
Stroke Length (mm)	20.32
Rivet diameter (mm)	2.4, 3.2, 4.0, 4.8
Weight w/ 2.0Ah Battery Pack (kg)	2.1
Model Name	M12 BPRT

M12 COMPACT POLISHER

Voltage	12 V
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/ 2.0Ah Battery Pack (kg)	1.0
Model Name	M12 BPS

M12 1/4" HEX RIGHT ANGLE IMPACT DRIVER

Voltage	12 V
No Load Speed (rpm)	0-2425
Impact Rate (ipm)	0-3300
Max. Torque (Nm)	68
Tool Reception	1/4" Hex Single End Bit
Weight w/ 2.0Ah Battery Pack (kg)	1.1
Model Name	M12 BRAID

M12 COMPACT RIGHT ANGLE DRILL

Voltage	12 V
No Load Speed Gear 1 (rpm)	0-800
Chuck Capacity (mm)	10
Max. Drilling Steel (mm)	10
Max. Drilling Wood (mm)	22
Max. Torque (Nm)	12
Weight w/ 2.0Ah Battery Pack (kg)	1.1
Model Name	C12 RAD

M12 COMPACT HACKZALL™

Voltage	12 V
No Load Stroke Rate (spm)	0-3000
Stroke Length (mm)	13
Weight w/ 2.0Ah Battery Pack (kg)	1.2
Model Name	C12 HZ

M12 AIRSNAKE™ DRAIN CLEANING AIR GUN

NEW	
Voltage	12 V
Drain Line Capacity (mm)	25-100
Air Pressure (PSI)	0-50
Variable Pressure Dial	Yes
Automatic Pressure Loading	Yes
Clearing Distance (m)	10.6
LED Work Light	Yes
Weight w/ 2.0Ah battery pack (kg)	3.3
Model Name	M12 DCAG

M12 COMPACT DRAIN CLEANER WITH SPIRAL DIAMETER 6 MM



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
Model Name	M12 BDC6

M12 COMPACT MULTI TOOL



Voltage	12V
No Load Speed (rpm)	5000 - 20000
Oscillation Angle Left/ Right	1.5°
Weight w/ 2.0Ah Battery Pack (kg)	1.2
Model Name	C12 MT

M12 COMPACT ROTARY TOOL



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
Model Name	C12 RT

M12 COMPACT COPPER PIPE CUTTER



Voltage	12V
No Load Speed (rpm)	0-500
Minimum Space for Tube Cutting (mm)	80
Weight w/ Battery Pack (kg)	1.7
Model Name	C12 PC

M12 COMPACT PEX CUTTER



Voltage	12V
No Load Speed (rpm)	0-500
Max. Cutting Capacity (mm)	50
On Board LED	Yes
Weight w/ 2.0Ah Battery Pack (kg)	1.9
Model Name	C12 PPC

M12 COMPACT PEX EXPANSION TOOL



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
Model Name	C12 PXP

M12 COMPACT 41MM BANDSAW



Voltage	12V
No Load Speed (rpm)	0-85
SFPM	280
Max. Cutting Capacity (mm) 41 x 41	
Switch Type	On / Off Trigger
Blade Length (mm)	687.57
Weight w/ 4.0Ah Battery Pack (kg)	3.2
Model Name	M12 BS

M12 UNIVERSAL HAMMER VAC



Voltage	12V
Max. Drill Bit Diameter (mm)	4 - 16
Max. Drill Depth (mm)	120
Weight with 2.0Ah Battery Pack (kg)	1.7
Model Name	M12 DE

M12 SUB COMPACT INFLATOR



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/ 6.0Ah Battery Pack (kg)	1.6
Model Name	M12 BI

M12 GREASE GUN



Voltage	12V
Max. Operating Pressure	562 bar (8,000 psi)
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/ 2.0Ah Battery Pack (kg)	3.2
Model Name	M12 GG

M12 THERMAL DETECTOR



Voltage	12V
Sensor Resolution	7854 pixels (102 x 77)
Temperature Range (°C)	-10 to 330
Accuracy (°C)	±5°C or 5%
Thermal Sensitivity (°C)	0.1 at 30
Distance to Spot Ratio	83:1
Screen Size (mm)	61
Image File Formats	.PNG, .DAT, .JPG, .BMP
Data Storage	2GB SD Card. (Upgradable to 32GB)
Weight w/ 2.0Ah Battery Pack (kg)	0.4
Model Name	M12 TD

M12 COMPACT CABLE CUTTER



Voltage	12V
Max. Cutting Diameter (mm)	32
Cutting force (kN)	32
Speed Settings	2
Weight w/ 4.0Ah Battery Pack (kg)	3.0
Model Name	M12 CC

M12 COMPACT CAULK GUN W/ 310ML CARTRIDGE HOLDER



Voltage	12V
Max. Pushing Force (N)	1780
Speed Settings	6
Standard Equipment (ml)	310
Weight w/ 4.0Ah Battery Pack (kg)	1.9
Model Name	M12 PCG/310C

M12 COMPACT CAULK GUN



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)
Model Name	M12 PCG

M12 JOBSITE BLUETOOTH® SPEAKER



Voltage	12V
Speaker Output (W)	5
USB Output	5.0V/2.1A
Sound quality AUX. input (Hz)	35 - 20k
Bluetooth Input (Hz)	55 - 16k
Transmission Range min. (m)	10
Runtime w/ 4.0Ah Battery Pack (h)	25
Weight without Battery Pack (kg)	0.5
Model Name	M12 JSSP

M12 RADIO WITH MP3 PLAYER CONNECTION



Voltage (DC)	12V
Voltage (AC)	220-240V
Dimensions (mm)	267 x 102 x 178
Mute Button for Instant Volume Kill	Yes
Speaker output (W)	10
Weight w/ 2.0Ah Battery Pack (kg)	1.8
Model Name	C12 JSR

M12 HEATED VEST



Voltage	12V
Color	Black
Outer Material	GRIDIRON™
Inner Material	Thermal Knit Fleece
Heat Elements	Core zone: R Chest, L Chest, Back
Heat Settings	High, Medium, Low
Runtime w/ 2.0Ah Battery Pack (h)	6hrs / 3.5hrs / 2hrs
Washing	Washer and Dryer Safe
Model Name	M12 HV BLACK6

M12 REDLITHIUM™ BATTERY PACK



Voltage	12V
Capacity	2.0 Ah / 3.0 Ah 4.0 Ah / 6.0 Ah
Battery Type	Lithium-Ion
Weight	2.0 Ah / 3.0 Ah: 0.2 kg 4.0 Ah / 6.0 Ah: 0.4 kg
Model Name	2.0Ah M12B2 4.0Ah M12B4 3.0Ah M12B3 6.0Ah M12B6

VERSATILITY



Ease Of Use On All Types Of Fixtures And Drains

CLEARING CAPABILITY



Ability To Clear Through Tough Clogs Without Damaging The Fixture

MESS CONTAINMENT



Minimize The Mess Made By Clearing The Clog



M12 M12™ CHARGER

System	M12™
Charging time	1.5 Ah: 30 min 2.0 Ah: 40 min 3.0 Ah: 60 min 4.0 Ah: 80 min
Weight	0.5 kg
Model Name	C12C

M12 M18 M12™/M18™ VEHICLE CHARGER

System	M12™ M18™
Charging time	M12™ B3: 90 min M12™ B6: 165 min M18™ B2: 70 min M18™ B5: 140 min
Weight	0.7 kg
Model Name	M12-18AC

M12 M18 M12™/M18™ CHARGER

System	M12™ M18™
Charging time	2.0 Ah: 40 min 4.0 Ah: 80 min 5.0 Ah: 100 min 6.0 Ah: 124 min 9.0 Ah: 180 min 12.0 Ah: 250 min
Weight	0.7 kg
Model Name	M12-18C

M12 M18 M12™/M18™ RAPID CHARGER

System	M12™ M18™
Charging time	2.0 Ah: 26 min 4.0 Ah: 47 min 5.0 Ah: 59 min 6.0 Ah: 68 min 9.0 Ah: 95 min 12.0 Ah: 130 min
Weight	0.7 kg
Model Name	M12-18FC

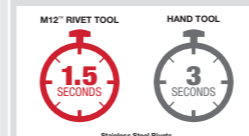
M12 M18 M12™/M18™ RAPID CHARGE STATION

System	M12™ M18™
Charging time	2.0 Ah: 26 min 4.0 Ah: 47 min 5.0 Ah: 59 min 6.0 Ah: 68 min 9.0 Ah: 95 min
Weight	3.8 kg
Model Name	M12-18C3

M12 M12™ TRAVEL CHARGER

System	M12™
Charging time	2.0 Ah: 0-174min 4.0 Ah: 0-347min 6.0 Ah: 0-525min
Weight	0.157 kg
Model Name	M12 TC

FASTER RIVETING



Faster than a Hand Tool: Less Fatigue

LESS MUSCLE EFFORT



72.8 Less Pounds of Force to Engage Tool

UP TO 4.8mm STAINLESS STEEL RIVET



Range of Rivets: 2.4, 3.2, 4.0, and 4.8mm



M12 BPRT

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

PERFORMANCE DRIVEN
TRADE FOCUSED SYSTEM WIDE

M18

M18

M18 1/2" COMPACT BRUSHLESS PERCUSSION DRILL

NEW		Voltage 18 V No Load Speed Gear 1 (rpm) 0-500 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) 52 Max. Percussion Rate (bpm) 0-27000 Max. Torque (Nm) 60 Weight w/ 5.0Ah Battery Pack (kg) 1.8
Model Name		M18 CBLPD

M18 COMPACT BRUSHLESS 1/4" HEX IMPACT DRIVER

NEW		Voltage 18 V No Load Speed (rpm) 0-3400 Impact Rate (ipm) 0-4200 Max. Torque (Nm) 180 Max. Bolt Diameter M14 Tool Reception 1/4" Double End Bit Weight w/ 5.0Ah Battery Pack (kg) 1.7
Model Name		M18 CBLID

M18 COMPACT PERCUSSION DRILL

	Voltage 18 V 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) 0-28800 Max. Torque (Nm) 60 Weight w/ 4.0Ah Battery Pack (kg) 2.1	
Model Name		M18 BPD

M18 COMPACT DRILL DRIVER

	Voltage 18 V 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	
Model Name		M18 BDD

M18 COMPACT IMPACT DRIVER

	Voltage 18 V 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. Torque (Nm) 180 Max. Bolt Diameter M14 Tool reception 1/4" Double End Bit Weight w/ 4.0Ah Battery Pack (kg) 1.7	
Model Name		M18 BID

M18 1/2" COMPACT IMPACT WRENCH

	Voltage 18 V No Load Speed (rpm) 0-2450 Impact Rate (ipm) 0-3350 Max. Torque (Nm) 240 Max. Bolt Diameter M16 Anvil Type 1/2" Square (Multi-Fit) Weight w/ 4.0Ah Battery Pack (kg) 1.9	
Model Name		M18 BIW12

M18 1/2" HEAVY DUTY IMPACT WRENCH WITH PIN DETENT / FRICTION RING

	Voltage 18 V No Load Speed (rpm) 0-1900 Impact Rate (ipm) 0-2200 Max. Torque (Nm) 610 Max. Bolt Diameter M24 Anvil Type 1/2 Square (Pin Detent / Friction Ring) Weight w/ 4.0Ah Battery Pack (kg) 3.0	
Model Name		HD18 HIW / HD18 HIWF

M18 COMPACT RIGHT ANGLE IMPACT WRENCH

	Voltage 18 V 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. Torque (Nm) 76 Max. Bolt Diameter M18 Anvil Type 3/8" Square (Friction Ring) Weight w/ 4.0Ah Battery Pack (kg) 1.9	
Model Name		M18 BRAW

M18 COMPACT RIGHT ANGLE IMPACT DRIVER

	Voltage 18 V 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. Torque (Nm) 81 Max. Bolt Diameter M18 Tool reception 1/4" Hex Weight w/ 5.0Ah Battery Pack (kg) 1.8	
Model Name		M18 BRAID

M18 COMPACT RIGHT ANGLE DRILL

	Voltage 18 V 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	
Model Name		C18 RAD

M18 COMPACT SDS PLUS HAMMER (2 MODE)

	Voltage 18 V Blow energy (EPTA)(J) 1.2 No Load Speed (rpm) 0-1300 Max. Percussion Rate (bpm) 0-7000 Max. Drilling Masonry (mm) 16 Max. Drilling Steel (mm) 10 Max. Drilling Wood (mm) 16 Weight w/ 4.0Ah Battery Pack (kg) 2.5	
Model Name		M18 BH

M18 COMPACT SDS PLUS HAMMER DRILL (3 MODE)

	Voltage 18 V Blow energy (EPTA)(J) 2.4 No Load Speed (rpm) 0-1400 Max. Percussion Rate (bpm) 0-4200 Max. Drilling Masonry (mm) 24 Max. Drilling Steel (mm) 13 Max. Drilling Wood (mm) 30 Weight w/ 4.0Ah Battery Pack (kg) 2.5	
Model Name		HD18 H / HD18 HX (PIKTEC)

REVOLUTIONARY PERFORMANCE

SUPER PACK CONSTRUCTION



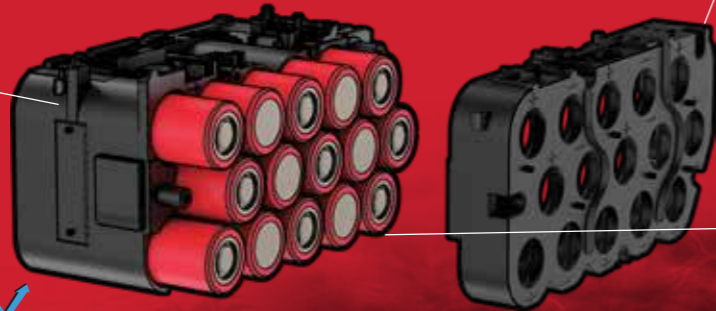
BATTERY FUEL GAUGE
Displays remaining run-time



PATENTED REDLINK PLUS™ INTELLIGENCE
Protects the pack in abusive situations, provides optimum performance, and monitors the cells for maximum life



SINGLE PIECE CELL CARRIER
Full enclosure protects cells and provides a strong structure delivering maximum durability



TEMP CONTROL CELL FRAME
Provides a strong structure and transfers energy efficiently for maximum life

SHOCK RESPONSIVE SEPARATORS
Prevents pack failure from vibration or drops

LITHIUM-ION BATTERY CELLS
Deliver high power

RUBBER OVERMOLD
Protects cells and pack during drops and provides maximum life



REDLITHIUM™-ION HIGH OUTPUT

* Compared with previous Milwaukee battery technology. Results dependent on voltage, tool and application.

LITHIUM-ION BATTERY TECHNOLOGY

M™-Technology offers a new power dimension in cordless tools. M™ Class battery packs up to 28 volts enable applications with cordless tools where corded tools had to be used before.

The extreme weather performance of Li-Ion cells guarantees independence from weather conditions. They always work, from -20° Celsius to +75° Celsius.

The on board battery fuel gauge displays the remaining power. Empty batteries on the job site are obsolete.

Up to 100% more runtime than existing NiCd or NiMH batteries enables you to work longer without recharging batteries.

Less weight - more power: despite having more power, these battery packs are much lighter than the known NiCd / NiMH packs, more ergonomic, less physical fatigue.

Consistent, fade free power guarantees the same performance from the first use until you have to recharge the battery. Due to the patented control electronics every single cell is under permanent inspection. This increases the lifetime and always supplies full power.

Environmentally friendly! With no heavy metals, M™-Technology batteries are more environmentally friendly than other high powered, rechargeable batteries currently used in power tools.

Hassle-free charging due to M™-Technology charger. Equipped with a performance optimizing circuit, Li-Ion batteries run more efficiently, charge quickly and are ready to go back to work faster.

Milwaukee Nothing but **HEAVY DUTY.**

M18 TOP HANDLE JIGSAW



Voltage	18 V
No Load Stroke Rate (spm)	0-2800
Stroke Length (mm)	25
Max. Cutting Capacity Steel (mm)	10
Max. Cutting Capacity Wood (mm)	135
Weight w/ 5.0Ah Battery Pack (kg)	2.5
Model Name	M18 BJS

M18 125MM RANDOM ORBITAL SANDER

NEW



Voltage	18 V
Oscillation Diameter (mm)	2.4
Oscillation Rate (opm)	14000-24000
Sanding Pad Size (mm)	125
Weight w/ 5.0Ah Battery Pack (kg)	1.6
Model Name	M18 BOS125

M18 HEAVY DUTY SAWZALL™



Voltage	18 V
No Load Stroke Rate (spm)	0-3200
Stroke Length (mm)	25
Weight w/ 4.0Ah Battery Pack (kg)	4.0
Model Name	HD18 SX

M18 COMPACT ONE-HANDED HACKZALL™



Voltage	18 V
No Load Stroke Rate (spm)	0-3000
Stroke Length (mm)	20
Weight w/ 4.0Ah Battery Pack (kg)	2.5
Model Name	C18 HZ

M18 METAL SAW



Voltage	18 V
No Load Speed (rpm)	0-3600
Max. Cutting Depth In Metal Pipe (mm)	50
Steel (mm)	1.6
Blade Diameter (mm)	135
Bore Size (mm)	20
Weight w/ 4.0Ah Battery Pack (kg)	2.6
Model Name	HD18 MS

M18 125MM ANGLE GRINDER



Voltage	18 V
No Load Speed (rpm)	0-9000
Disc Diameter (mm)	125
Max. Cutting Depth (mm)	33
Switch Type	Paddle Switch
Spindle Size	M14
Weight w/ 4.0Ah Battery Pack (kg)	2.2
Model Name	HD18 AG125

M18 COMPACT METAL SHEAR



Voltage	18 V
No Load Speed (rpm)	0-2500
Max. Cutting Capacity (mm):	
Steel	2.0
Aluminium	3.2
Min. Cutting Radius (mm)	180
Weight w/ 4.0Ah Battery Pack (kg)	2.9
Model Name	M18 BMS20

M18 COMPACT BLOWER



Voltage	18 V
Max. Air volume (m³/minute)	2.9
Max. Airflow speed (km/h)	42.8
Noise Rating (db)	77.7
Length without nozzle (mm)	375
Weight w/ 4.0Ah Battery Pack (kg)	1.9
Model Name	M18 BBL

M18 WET/DRY VACUUM



Voltage	18 V
Air Volume (l/min)	1300
Capacity Liquids (l)	7.5
Max. Vacuum (mbar)	80
Hose Length (m)	0.47
Weight w/ 5.0Ah Battery Pack (kg)	5.3
Model Name	M18 VC-2

M18 REDLITHIUM™-ION BATTERY PACK



Voltage	18 V
Capacity	2.0Ah / 4.0Ah / 5.0Ah
Battery type	Lithium-Ion
Weight	
■ 2.0Ah	0.4 kg
■ 4.0Ah / 5.0Ah	0.7 kg
Model Name	2.0Ah M18B2 4.0Ah M18B4 5.0Ah M18B5

M18 REDLITHIUM™-ION BATTERY PACK



Voltage	18 V
Capacity	6.0Ah / 9.0Ah / 12.0Ah
Battery type	Lithium-Ion
Weight	
■ 6.0Ah	0.7 kg
■ 9.0Ah	1.09 kg
■ 12.0Ah	1.7 kg
Model Name	6.0Ah M18B6 9.0Ah M18B9 12.0Ah M18 HB12

M18 POWER SUPPLY



Voltage	18 V
Length (mm)	83
USB Port	2.1 Amps
Weight w/ 2.0Ah Battery Pack	1.0
Model Name	M18 USB PS HJ2

UPGRADED PERFORMANCE FOR THE ENTIRE M18™ SYSTEM

REDLITHIUM™-ION HIGH OUTPUT
50% MORE POWER & RUNS COOLER
VS REDLITHIUM™

M18™ REDLITHIUM™-ION HIGH OUTPUT™ HD12.0 Battery Pack



OPTIMIZING PERFORMANCE WITH M18™ REDLITHIUM™-ION BATTERY PACKS

2.0Ah

Less weight and smaller size for light drilling and fastening

5.0Ah

More power and run-time, great performance for all demands

12.0Ah

Best performance for high demand applications

LIGHT DEMAND FITS M18 TOOLS HEAVY DEMAND



Milwaukee™

M12™

M18™

Nothing but **HEAVY DUTY**

WORLD LEADER
IN CORDLESS INNOVATION

www.milwaukeetool.asia

M12 M18
HIGH OUTPUT LIGHTING
ADAPTS. PERFORMS. SURVIVES.



ADAPTS.

Superior Portability and Versatility

High Output Lighting offers professionals the ability to bring light directly to their work as well as control beam intensity and direction for greater productivity on the jobsite.



PERFORMS.

Unmatched Brightness, Clarity, and Run-Time

Through the use of high-output LEDs, Milwaukee™ designed optics, and REDLITHIUM™-ION Batteries, High Output Lighting shines brighter and lasts longer.



SURVIVES.

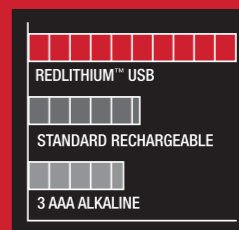
Outlast the Toughest Conditions

Reinforced, impact resistant housings and lenses stand up to the challenges of industrial use, and superior temperature management protects LEDs throughout their life.



L4 HL

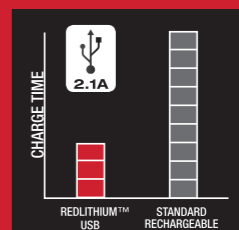
Milwaukee™ delivers the industry's first line of trade focused, high performance personal lights designed to ADAPT, PERFORM AND SURVIVE. Built to withstand the toughest conditions on and off the jobsite, Milwaukee™ lights combine the best cordless battery and LED technology delivering convenient, portable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



ALL DAY RUN-TIME*



OVER 2,000 RECHARGES



3X FASTER CHARGE TIME**

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

REDLITHIUM™ USB RECHARGEABLE ACCESSORIES



REDLITHIUM™ USB BATTERY

L4B2

REDLITHIUM™ USB CHARGER

L4C

REDLITHIUM™ USB CHARGER & BATTERY STARTER KIT

L4 NRG

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

CHARGE BATTERY VIA MICRO USB CORD

In Product



-OR-

With Charger



M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES



REDLITHIUM™ USB RECHARGEABLE COMPACT FLASHLIGHT



Modes	High	Low	Strobe
Lumens	700	100	700
Runtime (h)	4.5	16	9
IP rating	IP67		
Beam distance (m)	155		
Beam Pattern	Spot / Flood		

Model Name L4 MLED

REDLITHIUM™
USB

REDLITHIUM™ USB RECHARGEABLE HARD HAT LAMP



Modes	Spot/ Flood	Flood High/ Med/ Low	Spot High
Lumens	475	300/150/25	300
Runtime (h)	2	4.5/8.5/31	4

Model Name L4 HL

REDLITHIUM™
USB

REDLITHIUM™ USB RECHARGEABLE PERSONAL FLOOD LIGHT



Modes	High	Low
Lumens	445	100
Runtime (h)	2	11

Model Name L4 FL

REDLITHIUM™
USB

ALKALINE INSPECTION PEN LIGHT



POWERED BY
2
AAA

Modes	High
Lumens	100
Runtime (h)	3
IP Rating	IP67
Beam Distance (m)	43

Model Name IPL-LED

ALKALINE SLIM HEADLAMP



POWERED BY
3
AAA

Modes	High	Med	Low
Lumens	300	150	25
Runtime (h)	4	8.5	31

Model Name HL-LED



M12 SAL

M12™ LED TORCH



Voltage	12 V
Modes	High
Lumens	100
Runtime (h)	15
Head Rotation (°)	90
Hands-free	Integrated Magnet
IP Rating	IP54
Weight without Battery Pack (kg)	0.4

Model Name M12 TLED

M12™ LED SPOT LIGHT



Voltage	12 V		
Modes	High	Low	Strobe
Lumens	750	400	750
Runtime (h)	4	8	8
IP Rating	IP54		
Beam Distance (m)	640		
Weight without Battery Pack (kg)	0.6		

Model Name M12 SLED

M12™ LED METAL FLASHLIGHT



Voltage	12 V		
Modes	High	Low	Strobe
Lumens	800	325	800
Runtime (h)	5	7	7
Beam Distance (m)	340		
Light Type	Adjustable Beam for Spot or Flood Lighting		
IP Rating	IP54		
Weight without Battery Pack (kg)	0.5		

Model Name M12 MLED

M12™ LED LANTERN LIGHT



Voltage	12 V			
Modes	High	Medium	Low	Strobe
Lumens	400	200	40	400
Runtime (h)	8	15	67	16
Head Rotation (°)	180 - 360			
IP Rating	IP54			
USB Charger	2.1A			
Hands-free	2 Stainless Steel Hooks			
Weight without Battery Pack (kg)	0.4			

Model Name M12 LL

M12™ LED STICK LIGHT



Voltage	12 V
Modes	High
Lumens	220
Runtime (h)	11
Hands-free	Multi-position Stainless Steel Hook
Weight without Battery Pack (kg)	0.2

Model Name M12 SL

M12™ LED AREA LIGHT



Voltage	12 V		
Modes	High	Medium	Low
Lumens	1000	400	200
Runtime (h)	3.5	7.5	15
Hands-free	Integrated Magnets, Spring Loaded Clamp, Key Hole Hanger, Wire Hanger		
IP Rating	IP54		
Weight without Battery Pack (kg)	1.0		

Model Name M12 AL

M12™ LED UNDERHOOD LIGHT



Voltage	12 V	
Modes	High	Low
Lumens	1350	600
Runtime (h)	4	8
Hands-free	FINISHGUARD™ hooks, Stainless steel hook	
IP Rating	IP54	
Weight without Battery Pack (kg)	1.1	

Model Name M12 UHL

M12™ LED STAND LIGHT

NEW



Voltage	12 V	
Modes	High	Low
Lumens	1400	700
Runtime (h)	4	10
Head Rotation(°)	210 Vertically, 270 Horizontally	
Max. Height (m)	1.7	
Collapsed (m)	0.8	
Weight without Battery Pack (kg)	3.1	

Model Name M12 SAL

MILWAUKEE M12 FUEL M18 FUEL FORCELOGIC M12 M18 HIGH OUTPUT LIGHTING CORDED HAND TOOLS ACCESSORIES

MILWAUKEE M12 FUEL M18 FUEL FORCELOGIC M12 M18 HIGH OUTPUT LIGHTING CORDED HAND TOOLS ACCESSORIES



M18 PAL

M18 LED SEARCH LIGHT



Voltage	18 V			
Modes	Spot/Flood	Flood	Spot	Strobe
Lumens	1250	1200	600	1200
Runtime (h)	4	4	7	5
Head Rotation(°)	198			
Beam Distance (m)	650			
IP Rating	IP 54			
Weight without Battery Pack (kg)	1.4			

Model Name M18 SLED

M18 LED PIVOTING AREA LIGHT



Voltage	18 V			
Modes	High	Medium	Low	
Lumens	1500	650	300	
Runtime (h)	4.5	10	20	
Head Rotation(°)	180 & 330			
Hands-free	Integrated Magnets, Spring Loaded Clamp, Key Hole Hanger, Wire hanger			
IP Rating	IP 54			
Weight without Battery Pack (kg)	2.1			

Model Name M18 PAL

M18 LED TORCH



Voltage	18 V			
Modes	High			
Lumens	100			
Runtime (h)	29			
Head Rotation (°)	135°			
Hands-free	Integrated Hook			
IP Rating	IP54			
Weight without Battery Pack (kg)	0.7			

Model Name M18 TLED

M18 LED LANTERN LIGHT



Voltage	18 V			
Modes	High	Medium	Low	Strobe
Lumens	700	350	70	700
Runtime (h)	10	20	100	16
Head Rotation (°)	180-360			
IP Rating	IP 54			
USB Charger	2.1A			
Hands-free	2 Stainless Steel Hooks			
Weight without Battery Pack (kg)	0.5			

Model Name M18 LL

M18 LED HIGH PERFORMANCE AREA LIGHT



Voltage	18 V		
Modes	High	Medium	Low
Lumens	3000	1500	650
Runtime (h)	2	4	9
Head Rotation (°)	240		
Hands-free	3 Keyholes		
Weight without Battery Pack (kg)	2.8		

Model Name M18 HAL

M18 LED AREA LIGHT



Voltage	18 V	
Modes	High	Low
Lumens	1500	780
Runtime (h)	5	10
IP Rating	IP 54	
Hands-free	Keyhole Hanger, EMT hanger	
Weight without Battery Pack (kg)	1.5	

Model Name M18 AL

M18 LED TASK/AREA LIGHT



Voltage	18 V		
Modes	High	Medium	Low
Lumens Area Mode	2200	1100	550
Lumens Flood Mode	100	500	250
Runtime (h)	4	8	16
Weight without Battery Pack (kg)	2.5		

Model Name M18 TAL

M18 LED REMOTE STAND LIGHT

NEW



Voltage	18 V		
Modes	High	Medium	Low
Lumens	5400	3100	1600
Runtime (h)	7	12.5	26
Head Rotation (°)	220° Vertical and Horizontal		
Max. Height (m)	1.65		
Collapsed (m)	0.5		
IP rating	IP 67		
Weight without Battery Pack (kg)	8.7		

Model Name M18 ONERSAL

M18 LED STAND LIGHT



Voltage	18 V		
Modes	High	Medium	Low
Lumens	2000	1300	850
Runtime (h)	4	6	10
Head Rotation (°)	240° Vertical and 220° Horizontal		
Max. Height (m)	2.2		
Collapsed (m)	1.1		
IP Rating	IP54		
Weight without Battery Pack (kg)	6.4		

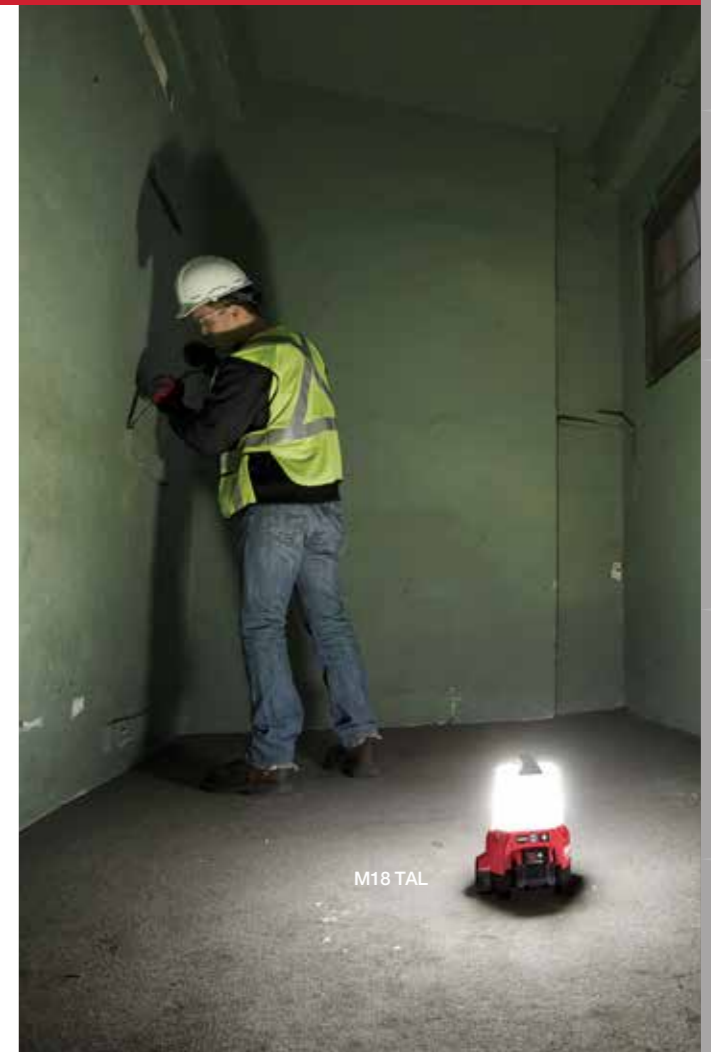
Model Name M18 SAL

M18 LED UTILITY LIGHT



Voltage	18 V		
Modes	Flood	Spot/Flood	Spot
Lumens	2500	2200	800
Runtime (h)	4	4	6
Head Rotation(°)	180° Vertical and horizontal		
Hands-free	Spring-loaded Clamp		
Beam Distance (m)	450		
IP Rating	IP56		
Weight without Battery Pack (kg)	4.8		

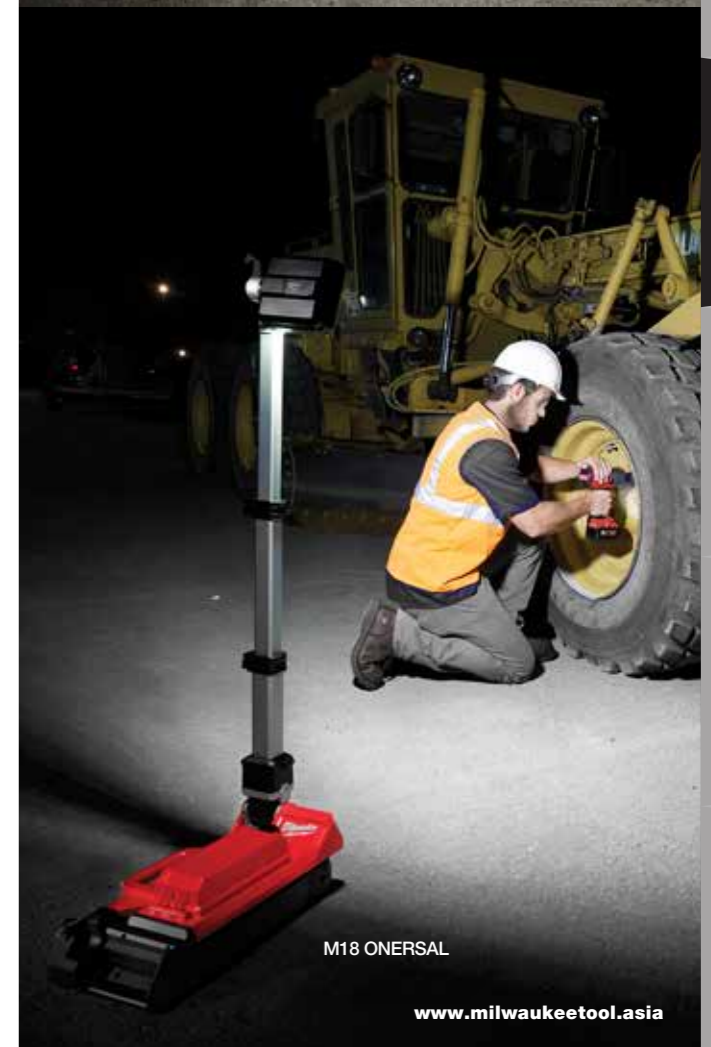
Model Name M18 UBL



M18 TAL



M18 HAL



M18 ONERSAL

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES



**PFH 24E SDS-PLUS
24 MM ROTARY HAMMER (2-MODE)**



Power Input (W)	670
Blow Energy (EPTA(J))	1.9
Max. Percussion Rate (bpm)	0-3700
Max. Drilling: Concrete (mm)	24
Steel (mm)	13
Wood (mm)	30
Weight (kg)	2.5
Vibration Level (3-axis) Drilling into Concrete (m/s ²)	15.5
Model Name	PFH 24E

**PFH 26 SDS-PLUS
26 MM ROTARY HAMMER (2-MODE)**



Power Input (W)	725
Blow energy (EPTA(J))	2.4
Max. Percussion Rate (bpm)	0-4500
Max. Drilling: Concrete (mm)	26
Steel (mm)	13
Wood (mm)	30
Weight (kg)	2.4
Vibration level (3-axis) drilling into concrete (m/s ²)	13.5
Model Name	PFH 26

**PH 26 SDS-PLUS
26 MM ROTARY HAMMER (3-MODE)**



Power Input (W)	725
Blow energy (EPTA(J))	2.4
Max. Percussion Rate (bpm)	0-4500
Max. Drilling: Concrete (mm)	26
Steel (mm)	13
Wood (mm)	30
Weight (kg)	2.4
Vibration level (3-axis) drilling into concrete/ Chiseling (m/s ²)	13.5/ 8.5
Model Name	PH 26

■ 110V also available

**PH 26T SDS-PLUS
26 MM ROTARY HAMMER (3-MODE)**

NEW



Power Input (W)	800
Blow Energy (EPTA(J))	2.4
Max. Percussion Rate (bpm)	0-4500
Max. Drilling: Masonry (mm)	26
Steel (mm)	13
Wood (mm)	30
Weight (kg)	2.8
Vibration level (3-axis) drilling into concrete/ Chiseling (m/s ²)	13.6/ 11.9
Model Name	PH 26T

**PH 28 SDS-PLUS
28 MM ROTARY HAMMER (3-MODE)**



Power Input (W)	820
Blow energy (EPTA(J))	3.4
Max. Percussion Rate (bpm)	0-4000
Max. Drilling: Masonry (mm)	28
Steel (mm)	13
Wood (mm)	30
Weight (kg)	2.7
Vibration level (3-axis) drilling into concrete/ Chiseling (m/s ²)	22.0/ 14.0
Model Name	PH 28

**PLH 28 E / PLH 28 XE SDS-PLUS
28 MM L-SHAPED ROTARY HAMMER (3-MODE)**



Power Input (W)	800
Blow energy (EPTA(J))	4.8
Max. Percussion Rate (bpm)	0-4000
Max. Drilling: Masonry (mm)	28
Steel (mm)	13
Wood (mm)	40
Weight (kg)	3.4/ 3.6 (Fixtec)
Vibration level (3-axis) drilling into concrete/ Chiseling (m/s ²)	10.6/ 13.0
Model Name	PLH 28 E / PLH 28 XE (FIXTEC)

■ 110V also available

**KANGO 540S SDS-MAX
40 MM COMBINATION HAMMER**



Power Input (W)	1100
Blow energy (EPTA(J))	7.5
Max. Percussion Rate (bpm)	0-3000
No Load Speed (rpm)	0-430
Max. Drilling Solid Bit / Tunnel Bit (mm)	40 / 65
Max. Drilling with Core Cutter (mm)	105
Anvil Type	SDS-Max
Weight (kg)	6.3
Vibration Level (3-axis) Drilling into Concrete / Chiseling (m/s ²)	16.8/ 16.7
Model Name	Kango 540S

**KANGO 750S SDS-MAX
50 MM COMBINATION HAMMER**



Power Input (W)	1550
Blow energy (EPTA(J))	11.9
Max. Percussion Rate (bpm)	0-2740
No Load Speed (rpm)	0-300
Max. Drilling Solid Bit / Tunnel Bit (mm)	50 / 80
Max. Drilling with Core Cutter (mm)	150
Anvil Type	SDS-Max
Weight (kg)	8.2
Vibration Level (3-axis) Drilling into Concrete / Chiseling (m/s ²)	9.5/ 9.1
Model Name	Kango 750S

**KANGO 500 S SDS-MAX
5 KG DEMOLITION HAMMER**



Power Input (W)	1300
Blow energy (EPTA(J))	8.5
Full Load Hammer Action (bpm)	0-2840
Beats per min. (soft mode)	2200
Anvil Type	SDS-Max
Weight (kg)	6.3
Vibration Level (3-axis) Drilling into Chiseling (m/s ²)	9.0
Model Name	Kango 500S

■ 120V also available

**HDE 13RQX ROTARY DRILL
950 W VARIABLE SPEED - HIGH TORQUE**



Power Input (W)	950
No Load Speed (rpm)	0-850
Max. Static Stalling Torque (Nm)	94
Keyless Chuck (mm)	1.5-13
Chuck Spindle	1/2" x 20
Max. Drilling: Aluminium (mm)	20
Steel (mm)	13
Wood (mm)	38
Weight (kg)	2.0
Model Name	HDE 13RQX

**PD 705 PERCUSSION DRILL
705 W - 1-SPEED**



Power Input (W)	705
No Load Speed (rpm)	0-3000
Max. Static Stalling Torque (Nm)	13.8
Keyed Chuck (mm)	1.5 - 13
Max. Drilling: Concrete (mm)	15
Masonry (mm)	16
Wood (mm)	30
Steel (mm)	13
Weight (kg)	1.9
Model Name	PD 705

■ 110V also available

**KANGO 900S SDS-MAX
10 KG DEMOLITION HAMMER**



Power Input (W)	1600
Blow energy (EPTA(J))	20
Blow rate (under load) (bpm)	975 - 1950
Weight (kg)	11
Vibration Level (3-axis) Drilling into Chiseling (m/s ²)	11.0
Model Name	Kango 900S (SDS-Max fitting)
Model Name	Kango 900K (K-Hex bit fitting)

■ 120V also available

**PD2E 22R PERCUSSION DRILL
850 W - 2-SPEED**



Power Input (W)	850
No Load Speed: Gear 1 (rpm)	0-1000
Gear 2 (rpm)	0-3200
Max. percussion rate (bpm)	0-40000
Max. Static Stalling Torque: Gear 1 (Nm)	56
Gear 2 (Nm)	30
Chuck capacity (mm)	13
Max. Drilling: Concrete (mm)	20
Masonry (mm)	22
Wood (mm)	40
Steel (mm)	13
Weight (kg)	2.8
Model Name	PD2E 22R

DCM 2-250C DIAMOND DRILLING MOTOR



Motor Input (W)	2800
Revolutions Low / High (rpm)	450 / 900
Ø Bit Capacity Low (mm)	152 - 250
Ø Bit Capacity High (mm)	52 - 152
Spindle Thread	1-1/4"
Weight (kg)	9.0
Model Name	DCM 2-250C
Model Name	DR 250TV (Rig)

■ 120V also available

DCM 2-350C DIAMOND DRILLING MOTOR



Motor Input (W)	2800
Revolutions Low / High (rpm)	300 / 600
Ø Bit Capacity Low (mm)	178 - 350
Ø Bit Capacity High (mm)	102 - 178
Spindle Thread	1-1/4"
Weight (kg)	9.0
Model Name	DCM 2-350C
Model Name	DR 350T (Rig)

■ 120V also available

**IPWE 400R IMPACT WRENCH
1/2" SQUARE DRIVE**



Power Input (W)	725
Max. Bolt Diameter	M20
No Load Speed (rpm)	0 - 1700
Impact Rate (ipm)	1000 - 2600
Max. Torque (Nm)	400
Anvil Type	1/2" Square
Weight (kg)	2.7
Model Name	IPWE 400R

■ 120V also available

**IPWE 520R IMPACT WRENCH
3/4" SQUARE DRIVE**



Power Input (W)	725
Max. Bolt Diameter	M24
No Load Speed (rpm)	0 - 1700
Impact Rate (ipm)	1000 - 2500
Max. Torque (Nm)	520
Anvil Type	3/4" Square
Weight (kg)	2.8
Model Name	IPWE 520R

■ 120V also available

**DD 2-160 XE
2 SPEED DRY DIAMOND DRILL**



Power Input (W)	1500
No Load Speed Gear 1 (rpm)	0-1500
No Load Speed Gear 2 (rpm)	0-3000
No Load Hammer Stroke Gear 1 (ipm)	0-24000
No Load Hammer Stroke Gear 2 (ipm)	0-48000
Max. Static Stalling Torque (Nm)	50
Max. Drilling Masonry (mm)	162
Chuck Capacity (mm)	162
Weight (kg)	4.2
Model Name	DD 2-160 XE

Concrete

M12 FUEL

M18 FUEL

FORCELOGIC

M12

M18

HIGH OUTPUT LIGHTING

CORDED

HAND TOOLS

ACCESSORIES

MD 38 COMPACT MAGNETIC DRILLING PRESS

MDE 41 MAGNETIC DRILLING PRESS

MDP 41 MAGNETIC DRILLING PRESS



Power Input (W)	1050
Max. Diameter / Depth Bore Capacity (mm)	38 / 50
Max. Drilling (Solid) Capacity (mm)	13
Static Stalling Torque (Nm)	100
Magn. Holding Power (At Drill Point Pressure) (N)	10400
No Load Speed (rpm)	450
Full Load Speed (rpm)	320
Weight (kg)	12

Model Name
MD 38 Compact



Power Input (W)	1200
No Load Speed Gear 1 (rpm)	475
No Load Speed Gear 2 (rpm)	730
Lengths of Stroke (mm)	146
Max. Magnetic Power (kN)	9.93
Max. Drill Diameter with Core Hole Drill Bit (mm)	41
Max. Drill Diameter with Solid Drill Bit (mm)	13
Spindle receiver	19mm Weldon
Weight (kg)	13.5

Model Name
MDE 41



Power Input (W)	1200
No Load Speed Gear 1 (rpm)	475
No Load Speed Gear 2 (rpm)	730
Lengths of Stroke (mm)	146
Max. Magnetic Power (kN)	8.89
Max. Drill Diameter with Core Hole Drill Bit (mm)	41
Max. Drill Diameter with Solid Drill Bit (mm)	13
Spindle receiver	19mm Weldon
Weight (kg)	13.5

Model Name
MDP 41

120V also available

120V also available

120V also available



SSD 1100X

MD 38 Compact Magnetic Drilling Press

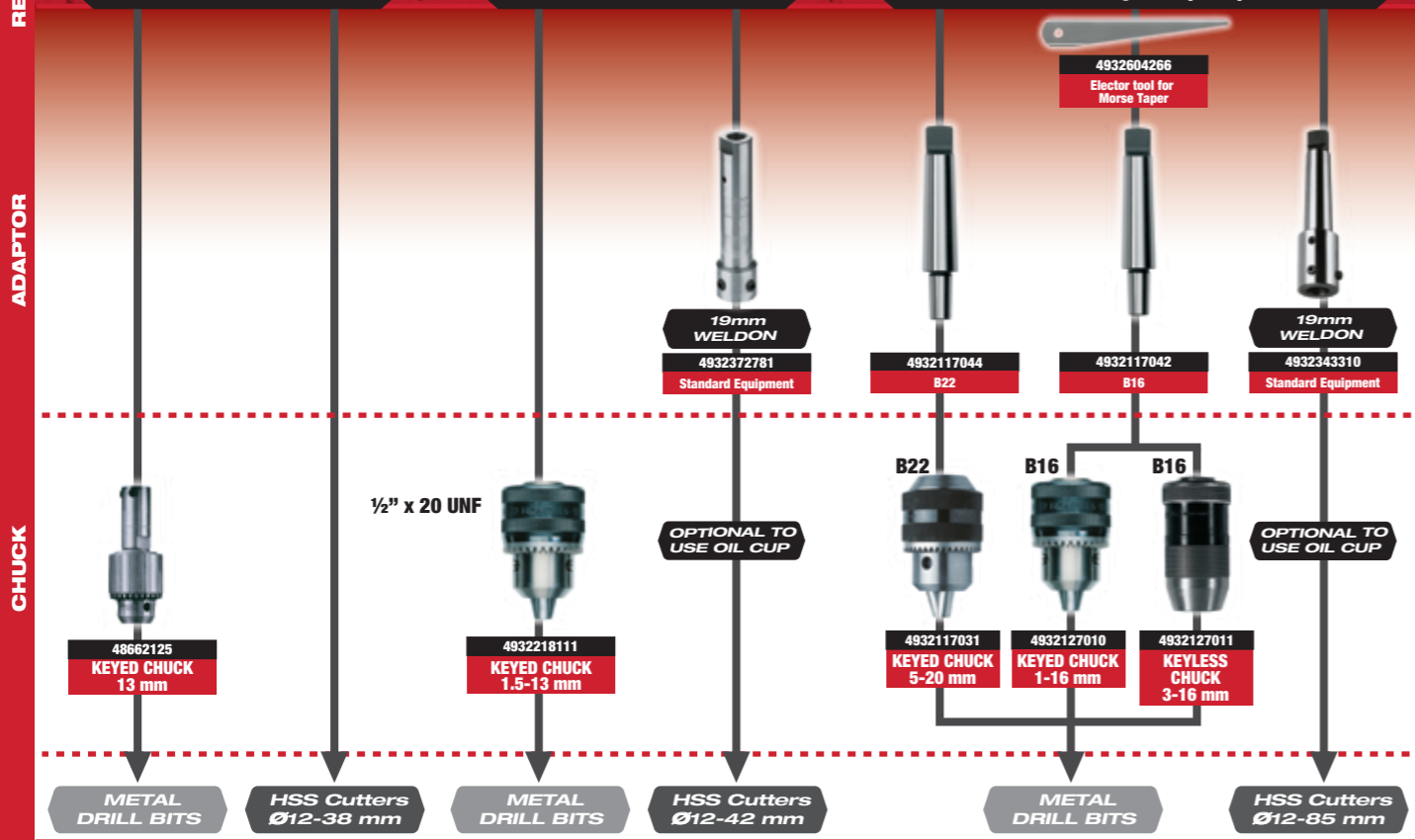
19 mm Weldon

MDE 41 Magnetic Drilling Press

1/2" x 20 UNF

MDP 4-85 Magnetic Drilling Press

Morse Taper 3 (MT3)



	METAL DRILL BITS	HSS CUTTERS SHORT	HSS CUTTERS LONG	OIL CUP (optional)
MD 38		$\varnothing 12-38 \text{ mm}$	$\varnothing 12-38 \text{ mm}$	
MDE 41		$\varnothing 12-42 \text{ mm}$	$\varnothing 12-42 \text{ mm}$	
MDP 41		$\varnothing 12-85 \text{ mm}$	$\varnothing 12-85 \text{ mm}$	

SSD 1100X SAWZALL™
1,100 W - 28 MM STROKE LENGTH

Power Input (W)	1100
No Load Stroke Rate (spm)	0 - 2900
Stroke (mm)	28
Weight (kg)	3.2

Model Name
SSD 1100 X

110V also available

SSPE 1300QX SAWZALL™
1,300 W - 32 MM STROKE LENGTH

Power Input (W)	1300
No Load Stroke Rate (spm)	0 - 3000
Stroke (mm)	32
Weight (kg)	4.2

Model Name
SSPE 1300QX (360° Rotating Handle) SSPE 1300SX

120V also available

AG 7-100 S COMPACT ANGLE GRINDER
100 MM - 720 W

Power Input (W)	720
Disc Diameter (mm)	100
No Load Speed (rpm)	11000
Spindle Size	M10
Weight (kg)	1.8

Model Name
AG 7-100 S

110V also available

AG 10-100 COMPACT ANGLE GRINDER
100 MM - 1,000 W

Power Input (W)	1000
Disc Diameter (mm)	100
No Load Speed (rpm)	11000
Spindle Size	M10
Max. Cutting Depth (mm)	15
Weight (kg)	2.1

Model Name
AG 10-100

110V also available

AGV 12-125X MEDIUM ANGLE GRINDER
125 MM - 1,200 W

Power Input (W)	1200
Disc Diameter (mm)	125
No Load Speed (rpm)	11000
Spindle Size	M14
Max. Cutting Depth (mm)	33
Weight (kg)	2.4

Model Name
AGV 12-125X (Paddle Switch)

120V also available

AGV 17-125XE MEDIUM ANGLE GRINDER
125 MM - 1,750 W

Power Input (W)	1750
Disc Diameter (mm)	125
No Load Speed (rpm)	2600 - 11000
Spindle Size	M14
Max. Cutting Depth (mm)	34
Weight (kg)	2.7

Model Name
AGV 17-125XE

110V also available

AGV 17-150XC MEDIUM ANGLE GRINDER
150 MM - 1,750 W

Power Input (W)	1750
Disc Diameter (mm)	150
No Load Speed (rpm)	0-9500
Spindle Size	M14
Max. Cutting Depth (mm)	46
Weight (kg)	2.9

Model Name
AGV 17-150XC

110V also available

AGV 17-180XC LARGE ANGLE GRINDER
180 MM - 1,750 W

Power Input (W)	1750
Disc Diameter (mm)	180
No Load Speed (rpm)	0-7600
Spindle Size	M14
Max. Cutting Depth (mm)	59
Weight (kg)	3.1

Model Name
AGV 17-180XC

110V also available

AGV 21-230GEX LARGE ANGLE GRINDER
230 MM - 2,100 W

Power Input (W)	2100
Disc Diameter (mm)	230
No Load Speed (rpm)	0-6600
Spindle Size	M14
Max. Cutting Depth (mm)	68
Weight (kg)	5.5

Model Name
AGV 21-230GEX

110V also available

AG 24-230E LARGE ANGLE GRINDER
230 MM - 2,400W

Power Input (W)	2400
Disc Diameter (mm)	230
No Load Speed (rpm)	0-6600
Spindle Size	M14
Max. Cutting Depth (mm)	68
Weight (kg)	5.3

Model Name
AG 24-230E (Deadman Switch)

110V also available

AP 12E POLISHER
150 MM - 1,200 W

Power Input (W)	1200
Disc Diameter (mm)	150
No Load Speed (rpm)	900-2500
Spindle Size	M14
Weight (kg)	2.2

Model Name
AP 12E

110V also available

AS 12E SANDER
180 MM - 1,200 W

Power Input (W)	1200
Disc Diameter (mm)	180
No Load Speed (rpm)	1800-4800
Spindle Size	M14
Weight (kg)	2.5

Model Name
AS 12E

110V also available

HBS 120 E DEEP CUT BANDSAW
125 MM - 1,200 W

Power Input (W)	1200
Surface Feet/ min (sfpm)	0-380
Variable Speed	Yes
Capacity (mm)	125 x 125
Tool Free Blade Change	Yes
Weight (kg)	6.5

Model Name
HBS 120 E

110V also available

CHS 355 CHOP SAW
355 MM - 2,300 W

Power Input (W)	2300
No Load Speed (rpm)	3800
Abrasive Wheel Diameter (mm)	355
Max. Cutting Capacity (mm) at 90° / 45°	
- Round Profile	125 / 100
- Square Profile	115 / 80
- Rectangular Profile	230 x 70 / 100 x 80
- L-Shape Profile	130 x 80
Weight (kg)	18.0

Model Name
CHS 355

120V also available

DGL 30E DIE GRINDER
LONG BODY TYPE - VARIABLE SPEED

Power Input (W)	600
Collet Diameter (mm)	6
No Load Speed (rpm)	10000-30000
Max. Grinder Wheel Dia. (At 80 m/sec) (mm)	40
Max. Grinder Wheel Dia. (At 45 m/sec) (mm)	20
Weight (kg)	1.9

Model Name
DGL 30E

110V also available

MDP 41

M12 FUEL
M18 FUEL
M12™
M18™
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
M12™
M18™
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

ULTIMATE PRODUCTIVITY. SUPERIOR PERFORMANCE.



SHORT TAPE MEASURES

STUD™ TAPE MEASURE



General Information

Part #	Description
48-22-9906	5m STUD™ Tape Measure
48-22-9907	7.5m STUD™ Tape Measure
48-22-9918	5m/16ft STUD™ Tape Measure
48-22-9936	7.5m/25ft STUD™ Tape Measure

COMPACT GENERAL CONTRACTOR TAPE MEASURE



General Information

Part #	Description	Part #	Description
48-22-6603	3m Tape measure	48-22-6613	3m/12ft Tape measure
48-22-6605	5m Tape measure	48-22-6617	5m/16ft Tape measure
48-22-6608	8m Tape measure	48-22-6626	8m/26ft Tape measure

PREMIUM KEYCHAIN TAPE MEASURE



General Information

Part #	Description
48-22-5506	2m/6ft Keychain tape measure
48-22-5507	2m Keychain tape measure

PREMIUM MAGNETIC TAPE MEASURE



General Information

Part #	Description	Part #	Description
48-22-7305	5m Magnetic tape measure	48-22-7216	5m/16ft Magnetic tape measure
48-22-7308	8m Magnetic tape measure	48-22-7225	8m/26ft Magnetic tape measure

TRADESMAN RED TAPE MEASURE



General Information

Part #	Description	Part #	Description
48-22-7803	3.5m Tradesman Red Tape Measure	48-22-7812	3m/10ft Tradesman Red Tape Measure
48-22-7806	5.5m Tradesman Red Tape Measure	48-22-7816	5m/16ft Tradesman Red Tape Measure
48-22-7808	7.5m Tradesman Red Tape Measure	48-22-7826	8m/26ft Tradesman Red Tape Measure

LONG TAPE MEASURES



General Information

Part #	Description
48-22-5203	Long open tape Measure 30m/100ft
48-22-5211	Long open tape 100m/330ft
48-22-5103	Long close tape 30m

LEVELS

REDSTICK™ COMPACT BOX LEVELS



General Information

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

TORPEDO LEVEL



General Information

Part #	Description
4932459097	Billet torpedo level
4932459096	Block torpedo level

POCKET LEVELS



General Information

Part #	Description
48-22-5102	Pocket Level

CHALK REELS AND ACCESSORIES



General Information

Part #	Description
48-22-3980	30m (100ft) Bold Line Chalk Reel (Bare-Tool)
48-22-3992	30m (100ft) Precision Line Kit w/ Blue Chalk
48-22-3990	30m (100ft) Precision Line Chalk Reel
48-22-3982	30m (100ft) Bold Line Kit w/ Blue Chalk
48-22-3986	30m (100ft) Bold Line Kit w/ Red Chalk
48-22-3989	30m (100ft) Bold Replacement Line
48-22-3999	30m (100ft) Precision Replacement Line

INKZALL™ MARKERS

INKZALL™ JOBSITE LIQUID PAINT MARKERS



General Information

Part #	Description
48-22-3712	1PC INKZALL™ Medium Point White Liquid Paint Markers
48-22-3722	1PC INKZALL™ Medium Point Yellow Liquid Paint Markers
48-22-3711	12PC INKZALL™ Medium Point White Liquid Paint Markers
48-22-3721	12PC 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
48-22-3154	4PC INKZALL™ Ultra Fine Point Black Jobsite Markers
48-22-3150	12PC INKZALL™ Ultra Fine Point Black Jobsite Markers
48-22-3105	2PC INKZALL™ Fine Point Black Jobsite Markers
48-22-3104	4PC INKZALL™ Fine Point Black Jobsite Markers
48-22-3100	36PC INKZALL™ 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
48-22-3106	4PC INKZALL™ Fine Point Colored Jobsite Markers
48-22-3107	8PC INKZALL™ Fine Point Colored Jobsite Markers
48-22-3121	2PC INKZALL™ Fine Point Silver Jobsite Markers
48-22-3102	2PC INKZALL™ Medium Point Black Jobsite Markers
48-22-3103	1PC INKZALL™ Chisel Tip Black Jobsite Markers
48-22-3130	36PC INKZALL™ Chisel Tip Black Jobsite Markers
48-22-3109	4PC INKZALL™ Chisel Tip Colored Jobsite Markers

INKZALL™ ULTRA FINE POINT JOBSITE PENS



General Information

Part #	Description
48-22-3164	4PC INKZALL™ Ultra Fine Point Black Jobsite Pens
48-22-3165	4PC INKZALL™ Ultra Fine Point Colored Jobsite Pens
48-22-3160	12PC INKZALL™ Ultra Fine Point Black Jobsite Pens
48-22-3162	12PC INKZALL™ Ultra Fine Point Blue Jobsite Pens
48-22-3161	12PC INKZALL™ Ultra Fine Point Red Jobsite Pens

INKZALL™ JOBSITE HIGHLIGHTERS



General Information

Part #	Description
48-22-3201	5PC INKZALL™ Chisel Tip Yellow Jobsite Highlighters
48-22-3206	5PC INKZALL™ Chisel Tip Colored Jobsite Highlighters

M12™ FUEL
M18™ FUEL
FORCELOGIC™
M12™
M18™
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12™ FUEL
M18™ FUEL
FORCELOGIC™
M12™
M18™
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

PLIERS



General Information

Part #	Description
48-22-6106	Diagonal cutting pliers 152mm (6")
48-22-6107	Diagonal cutting pliers 177mm (7")
48-22-6108	Diagonal cutting pliers 203mm (8")
48-22-6101	Long Nose Pliers 203mm (8")
48-22-6103	Crimping Pliers

TORQUE LOCK™ LOCKING PLIERS



General Information

Part #	Description
48-22-3406	TORQUE LOCK™ Long Nose Locking Pliers with Durable Grip 152mm (6")
48-22-3420	Torque Lock™ Curved Jaw Locking Pliers 254mm (10")
48-22-3510	Torque Lock™ Straight Jaw Locking Pliers 254mm (10")
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")
48-22-3405	TORQUE LOCK Curved Jaw Locking Pliers with Durable Grip 127mm (5")
48-22-3409	TORQUE LOCK Long Nose Locking Pliers with Durable Grip 228mm (9")
48-22-3507	Torque Lock™ Straight Jaw Locking Pliers 177mm (7")
48-22-3506	TORQUE LOCK™ Long Nose Locking Pliers 152mm (6")
48-22-3610	TORQUE LOCK™ MAXBITE CURVED JAW LOCKING PLIERS 254mm (10")
48-22-3607	TORQUE LOCK™ MAXBITE CURVED JAW LOCKING PLIERS 177mm (7")
48-22-3710	TORQUE LOCK™ Grippped Curved Jaw Locking Pliers with MAXBITE™ 254mm (10")
48-22-3707	TORQUE LOCK™ Grippped Curved Jaw Locking Pliers with MAXBITE™ 177mm (7")

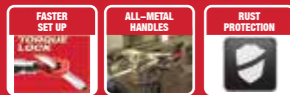
SPECIALTY PLIERS



General Information

Part #	Description	Part #	Description
48-22-6102	Ironworker's pliers	48-22-6321	PVC/Oil filter pliers
48-22-6407	7" Nipping pliers	48-22-6104	Cable cutting pliers
48-22-6410	Fencing pliers	48-22-6100	Linesman pliers

CLAMPS & LOCKING CLAMPS



General Information

Part #	Description
48-22-3002	+Stop Lock Hand Clamp 50mm (2")
48-22-3004	+Stop Lock Hand Clamp 101mm (4")
48-22-3521	TORQUE LOCK™ Locking C-Clamp Swivel Jaws 280mm (11")
48-22-3531	TORQUE LOCK™ Locking C-Clamp Regular Jaws 280mm (11")
48-22-3522	TORQUE LOCK™ Locking C-Clamp Swivel Jaws 152mm (6")
48-22-3532	TORQUE LOCK™ Locking C-Clamp Regular Jaws 152mm (6")

ELECTRICIAN PLIERS



General Information

Part #	Description
48-22-3079	GEN II COMBINATION WIRE PLIER
48-22-3070	COMBINATION WIRE PLIER FOR NON-METALLIC
48-22-6109	WIRE STRIPPER/CUTTER FOR SOLID & STRANDED WIRE

PLUMBING PLIERS



General Information

Part #	Description	Part #	Description
48-22-6306	6" Straight jaw pliers	48-22-6208	8" Hex jaw pliers
48-22-6310	10" Straight jaw pliers	48-22-6210	10" Hex jaw pliers
48-22-6312	12" Straight jaw pliers	48-22-6212	12" Hex jaw pliers
48-22-6316	16" Straight jaw pliers	48-22-6330	6" & 10" Straight jaw pliers set
48-22-6320	20" Straight jaw pliers	48-22-6331	3pc Pliers set

WRENCHES

PIPE WRENCHES



General Information

Part #	Description	Part #	Description
48-22-7110	10" Steel pipe wrench	48-22-7210	10" Aluminum pipe wrench
48-22-7112	12" Steel pipe wrench	48-22-7212	12" Aluminum pipe wrench
48-22-7114	14" Steel pipe wrench	48-22-7214	14" Aluminum pipe wrench
48-22-7118	18" Steel pipe wrench	48-22-7218	18" Aluminum pipe wrench
48-22-7314	Cheater pipe wrench	48-22-7224	24" Aluminum pipe wrench

ADJUSTABLE WRENCHES



General Information

Part #	Description	Part #	Description
48-22-7406	6" Adjustable wrench	48-22-7412	12" Adjustable wrench
48-22-7408	8" Adjustable wrench	48-22-7415	15" Adjustable wrench
48-22-7508	8" Wide jaw adjustable wrench	48-22-7400	2pc. Adjustable wrench Set 6" & 10"
48-22-7410	10" Adjustable wrench		

BASIN WRENCHES



General Information

Part #	Description
48-22-7001	BASIN WRENCH 32mm (1.25")
48-22-7002	BASIN WRENCH 64mm (2.5")



DATA COMM VDV TOOLS

PUNCHDOWN TOOL



General Information

Part #	Description
48-22-2179	Punchdown Tool with Extended Blade
48-22-2166	110 Extended Punchdown Blade
48-22-2167	110/66 Punchdown Blade

MODULAR CRIMPER



General Information

Part #	Description
48-22-3075	Ratcheting Modular Crimper

UNIVERSAL TWISTED PAIR STRIPPER



General Information

Part #	Description
48-22-3065	Universal Twisted Pair Stripper

ELECTRICIAN SNIPS



General Information

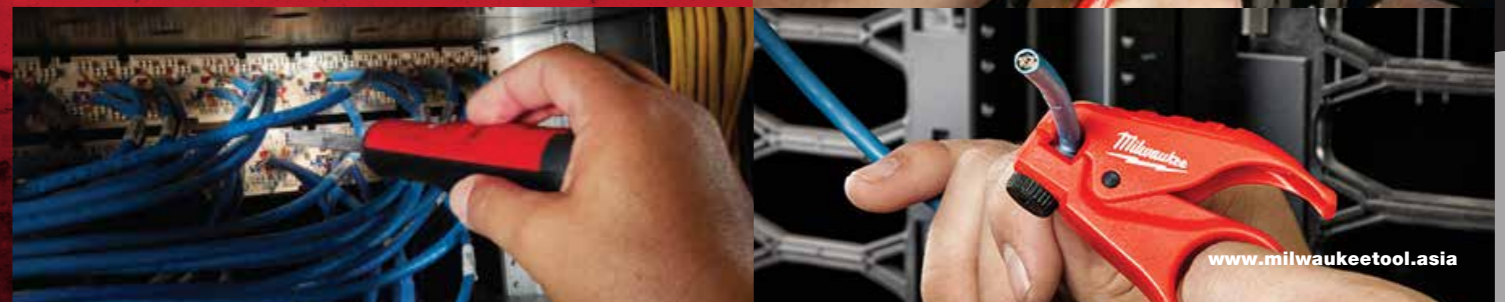
Part #	Description
48-22-4045	Electrician Snips

4-IN-1 MULTI PICK



General Information

Part #	Description
48-22-2145	4-in-1 Multi Pick



SCREWDRIVERS & NUTDRIVERS

MULTI-BIT SCREWDRIVERS



General Information

Part #	Description	Part #	Description
48-22-2131	10IN1 ECX™ Multi Bit Driver	48-22-2136	10IN1 Metric HEX Key Driver
48-22-2133	10IN1 TORX® Key Driver	48-22-2331	10IN1 ECX™ Ratcheting Multi Bit Drive
48-22-2134	10IN1 SAE HEX Key Driver	48-22-2761	11 in 1 Screwdriver (with Torx bits)

COMPACT SCREWDRIVER



General Information

Part #	Description	Part #	Description
48-22-2330	Compact 8IN1 Ratchet Multi Bit Driver	48-22-2130	Compact 8IN1 Multi Bit Driver

DEMO DRIVER



General Information

Part #	Description
48-22-2860	DEMO DRIVER
48-22-2825	3/8" SLOTTED - 8" DEMO Cushion Grip Screwdriver
48-22-2823	5/16" SLOTTED - 6" DEMO Cushion Grip Screwdriver

BOTTLE OPENER



General Information

Part #	Description
48-22-2700	Bottle Opener

HOOK & PICK



General Information

Part #	Description
48-22-9215	4pc Hook & Pick Set

INSULATED SCREWDRIVER



General Information

Part #	Description	Part #	Description
48-22-2211	#1 Phillips - 76mm (3") 1000V Insulated Screwdriver	48-22-2224	3/8" Slotted - 254mm (10") 1000V Insulated Screwdriver
48-22-2212	#2 Phillips - 101mm (4") 1000V Insulated Screwdriver	48-22-2231	3/16" Cabinet - 101mm (4") 1000V Insulated Screwdriver
48-22-2213	#3 Phillips - 152mm (6") 1000V Insulated Screwdriver	48-22-2232	3/16" Cabinet - 152mm (6") 1000V Insulated Screwdriver
48-22-2221	1/4" Slotted - 152mm (6") 1000V Insulated Screwdriver	48-22-2233	3/16" Cabinet - 203mm (8") 1000V Insulated Screwdriver
48-22-2222	5/16" Slotted - 177mm (7") 1000V Insulated Screwdriver	48-22-2210	10 PC 1000V Insulated Screwdriver Set w/ EVA Foam Case
48-22-2223	3/8" Slotted - 203mm (8") 1000V Insulated Screwdriver	48-22-2204	4 PC 1000V Insulated Screwdriver Set w/ Roll Pouch

CUSHION GRIP SCREWDRIVER



General Information

Part #	Description	Part #	Description
48-22-2811	#1 Phillips - 3" Cushion Grip Screwdriver	48-22-2824	3/8" SLOTTED - 6" Cushion Grip Screwdriver
48-22-2812	#2 PHILLIPS - 4" Cushion Grip Screwdriver	48-22-2831	3/16" CABINET - 3" Cushion Grip Screwdriver
48-22-2813	#3 PHILLIPS - 6" Cushion Grip Screwdriver	48-22-2832	3/16" CABINET - 6" Cushion Grip Screwdriver
48-22-2814	#2 PHILLIPS - 10" Cushion Grip Screwdriver	48-22-2833	3/16" CABINET - 8" Cushion Grip Screwdriver
48-22-2815	#2 PHILLIPS - 6" Cushion Grip Screwdriver	48-22-2834	1/4" CABINET - 10" Cushion Grip Screwdriver
48-22-2821	1/4" SLOTTED - 4" Cushion Grip Screwdriver	48-22-2884	4PC CUSHION GRIP KIT
48-22-2822	5/16" SLOTTED - 6" Cushion Grip Screwdriver	48-22-2886	6PC CUSHION GRIP KIT

TRI-LOB SCREWDRIVER SET



General Information

Part #	Description	Part #	Description
48-22-2702	2pc Demo Screwdriver Set	48-22-2708	8PC Screwdriver Set w/ECX
48-22-2706	6PC Screwdriver Set	48-22-2710	10PC Screwdriver Set

PRECISION SCREWDRIVERS



General Information

Part #	Description	Part #	Description
48-22-2604	4pc Precision screwdriver set	48-22-2610	6pc TORX Precision screwdriver set
48-22-2606	6pc Precision screwdriver set		

NUT DRIVERS



General Information

Part #	Description	Part #	Description
48-22-2520	3/16" HOLLOWCORE™ Magnetic Nut Driver	48-22-2420	3/16" Hollow Shaft Nut Driver
48-22-2521	1/4" HOLLOWCORE™ Magnetic Nut Driver	48-22-2421	1/4" Hollow Shaft Nut Driver
48-22-2522	5/16" HOLLOWCORE™ Magnetic Nut Driver	48-22-2422	5/16" Hollow Shaft Nut Driver
48-22-2523	11/32" HOLLOWCORE™ Magnetic Nut Driver	48-22-2423	11/32" Hollow Shaft Nut Driver
48-22-2524	3/8" HOLLOWCORE™ Magnetic Nut Driver	48-22-2424	3/8" Hollow Shaft Nut Driver
48-22-2525	7/16" HOLLOWCORE™ Magnetic Nut Driver	48-22-2425	7/16" Hollow Shaft Nut Driver
48-22-2526	1/2" HOLLOWCORE™ Magnetic Nut Driver	48-22-2426	1/2" Hollow Shaft Nut Driver
48-22-2527	9/16" HOLLOWCORE™ Magnetic Nut Driver	48-22-2427	9/16" Hollow Shaft Nut Driver
48-22-2531	5mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2431	5mm Hollow Shaft Nut Driver
48-22-2532	5.5mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2432	5.5mm Hollow Shaft Nut Driver
48-22-2533	6mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2433	6mm Hollow Shaft Nut Driver
48-22-2534	7mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2434	7mm Hollow Shaft Nut Driver
48-22-2535	8mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2435	8mm Hollow Shaft Nut Driver
48-22-2536	10mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2436	10mm Hollow Shaft Nut Driver
48-22-2537	13mm HOLLOWCORE™ Magnetic Nut Driver	48-22-2437	13mm Hollow Shaft Nut Driver
48-22-2502	2PC SAE HollowCore™ Magnetic Nut Driver Set	48-22-2404	4 PC Hollow Shaft SAE Nut Driver Set
48-22-2507	7 PC Magnetic HollowCore™ SAE Nut Driver Set	48-22-2407	7 PC Hollow Shaft SAE Nut Driver Set
48-22-2517	7 PC Magnetic HollowCore™ Metric Nut Driver Set	48-22-2417	7 PC Hollow Shaft Metric Nut Driver Set

CUTTING TOOLS

FASTBACK™ UTILITY KNIVES



General Information

Part #	Description
48-22-1903	FASTBACK™ Flip Utility Knife with Blade Storage
48-22-1901	FASTBACK™ Flip Utility Knife
48-22-1906	FASTBACK™ Compact Flip Utility Knife
48-22-1910	Sliding Utility Knife
48-22-1915	Self-Retracting Safety Knife
48-22-1995	FASTBACK™ Spring Assisted Serrated Knife
48-22-1996	FASTBACK™ Camo Spring Assisted Knife
48-22-1985	FASTBACK™ Hawk Bill Folding Knife
48-22-1990	FASTBACK™ Smooth Folding Pocket Knife

LOCKBACK POCKET KNIFE



General Information

Part #	Description
48-22-1940	Lockback Pocket Knife

SNIPS



General Information

Part #	Description
48-22-4510	Left Cutting Aviation Snip
48-22-4520	Right Cutting Aviation Snip
48-22-4530	Straight Cutting Aviation Snip
48-22-4512	Left Cutting Offset Aviation Snip
48-22-4522	Right Cutting Offset Aviation Snip
48-22-4532	Straight Cutting Offset Aviation Snip
48-22-4537	Long Cutting Aviation Snip
48-22-4538	Long Cutting Offset Aviation Snip
48-22-4500	Bulldog Aviation Snip
48-22-4511	Left Cutting Right Angle Aviation Snip
48-22-4521	Right Cutting Right Angle Aviation Snip
48-22-4523	2pc Offset Aviation Snip Set
48-22-4533	3pc Aviation Snip Set

REAMING PEN



General Information

Part #	Description
48-22-4255	Reaming Pen

UTILITY BLADES



General Information

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

HARDLINE™ KNIVES



General Information

Part #	Description	Part #	Description
48-22-1997	2.5" HARDLINE™ Smooth blade pocket knife	48-22-1999	3.5" HARDLINE™ Smooth blade pocket knife
48-22-1998	3" HARDLINE™ Serrated blade pocket knife	48-22-1994	3" HARDLINE™ Smooth blade pocket knife

SNAP-OFF KNIVES



General Information

Part #	Description	Part #	Description
48-22-1960	9mm Snap Off Knife with Precision Cut Blade	48-22-1963	9mm Snap Off Knife
48-22-1961	18mm Snap Off Knife with Precision Cut Blade	48-22-1964	18mm Snap Off Knife
48-22-1962	25mm Snap Off Knife with Precision Cut Blade	48-22-1965	25mm Snap Off Knife

TINNER SNIPS



General Information

Part #	Description
48-22-4001	16" Bulldog tinner
48-22-4002	12" Classic tinner
48-22-4003	10" Classic tinner
48-22-4004	10" Duckbill tinner
48-22-4005	Offset compound tinner
48-22-4006	13" Lightweight tinner
48-22-4007	Lightweight tinner replacement blades

JOBSITE SCISSORS



General Information

Part #	Description
48-22-4043	JOBSITE OFFSET SCISSORS (Metric)
48-22-4044	JOBSITE STRAIGHT SCISSORS (Metric)

M12 FUEL
M12 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M12 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

COPPER TUBING CUTTERS



General Information

Part #	Description	Part #	Description
48-22-4253	63mm (2-1/2") Quick Adjust Copper Tubing Cutter	48-22-4256	2PC Replacement Cutter Wheels for Copper
48-22-4254	89mm (3-1/2") Quick Adjust Copper Tubing Cutter	48-22-4257	3PC Replacement Reaming Blades
48-22-4259	25mm (1") Constant Swing Copper Tubing Cutter	48-22-4260	13mm (1/2") Close Quarters Copper Tubing Cutter
48-22-4252	35mm (1.5") Constant Swing Copper Tubing Cutter	48-22-4261	19mm (3/4") Close Quarters Tubing Cutter
48-22-4250	13mm (1/2") Mini Copper Tubing Cutter	48-22-4262	25mm (1") Close Quarters Tubing Cutter
48-22-4258	19mm (3/4") Mini Copper Tubing Cutter	48-22-4263	3PC Close Quarters Tubing Cutters Set
48-22-4251	25mm (1") Mini Copper Tubing Cutter	48-22-4266	2PC Close Quarters Tubing Cutters Replacement Blades
48-22-4206	2PC Replacement Cutter Wheel for PVC and PEX		

PROPEX TUBING CUTTER



General Information

Part #	Description	Part #	Description
48-22-4202	Tubing Cutter	48-22-4203	1PC Blade Replacement for Pex Cutter

PVC / ABS SAW



General Information

Part #	Description	Part #	Description
48-22-0212	305mm (12") PVC/ABS Saw	48-22-0218	457mm (18") PVC/ABS Saw
48-22-0222	305mm (12") PVC Saw Replacement Blade	48-22-0228	457mm (18") PVC Saw Replacement Blade

HVAC TOOLS



General Information

Part #	Description
48-22-6000	76mm (3") Speed Seamer
48-22-6001	5-Blade Crimper

STAPLE & NAIL GUN



General Information

Part #	Description
48-22-1010	Staple & nail gun

TOOL LANYARDS



General Information

Part #	Description
48-22-8810A	4.5kg Locking Tool Lanyard
48-22-8811A	4.5kg Extended Reach Locking Tool Lanyard
48-22-8815A	6.8kg Locking Tool Lanyard
48-22-8820A	4.5kg Quick-Connect Locking Tool Lanyard
48-22-8823A	3pc 4.5kg Quick-Connect Accessory
48-22-8822A	3pc 2.2kg Small Quick-Connect Accessory
48-22-8850A	15kg Locking Tool Lanyard

HIGH-TENSION HACKSAW



General Information

Part #	Description
48-22-0050	305mm (12") High Tension Hacksaw

COMPACT HACKSAW



General Information

Part #	Description
48-22-0012	Compact hacksaw

RASPING JAB SAW



General Information

Part #	Description
48-22-0304	Rasping jab saw

FOLDING JAB SAW



General Information

Part #	Description
48-22-0305	Folding Jab Saw

HIGH-TENSION HACKSAW



General Information

Part #	Description
48-22-0050	305mm (12") High Tension Hacksaw

HAMMER FRAMING HAMMER



General Information

Part #	Description
48-22-9016	17oz Milled Face Framing Hammer
48-22-9017	17oz Smooth Face Framing Hammer
48-22-9022	22oz Milled Face Framing Hammer
48-22-9023	22oz Smooth Face Framing Hammer

POLY FIBERGLASS HAMMER



General Information

Part #	Description
48-22-9316	19oz Smooth Face Poly/Fiberglass Handle Hammer



PACKOUT MODULAR STORAGE SYSTEM



MOST VERSATILE DURABLE[™]
MODULAR STORAGE SYSTEM

- FULLY CUSTOMIZE YOUR STORAGE**[™]
- IP65 RATED PROTECTION**[™]
- IMPACT RESISTANT**[™]

General Information

Part #	Description	Part #	Description
48-22-8426	PACKOUT™ Rolling tool Box	48-22-8301	PACKOUT™ Backpack
48-22-8425	PACKOUT™ Large Tool box	48-22-8300	PACKOUT™ Tech Bag
48-22-8424	PACKOUT™ Tool Box	48-22-8302	PACKOUT™ Cooler
48-22-8430	PACKOUT™ Organizer	48-22-8321	PACKOUT™ Tool Bag
48-22-8435	PACKOUT™ Compact Organizer	48-22-8322	PACKOUT™ Tool Bag
48-22-8310	10" PACKOUT™ Tote	48-22-8431	PACKOUT™ Low-profile Organizer
48-22-8315	15" PACKOUT™ Tote	48-22-8436	PACKOUT™ Compact Low-profile Organizer
48-22-8320	20" PACKOUT™ Tote	48-22-8500	PACKOUT™ Tool Case w/ Customizable Insert



M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

SOFT STORAGES & TOOL BOXES

ROLLING BAG



General Information

Part #	Description
48-22-8220	24" Hardtop Rolling Bag
48-22-8221	18" Jobsite Rolling Bag

BACKPACK



General Information

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



General Information

Part #	Description
48-22-8210	Jobsite Tech Bag

POUCHES



General Information

Part #	Description	Part #	Description
48-22-8112	Electrician's Pouch	48-22-8118	Compact Utility Pouch
48-22-8180	Zipper Pouch	48-22-8119	Utility Pouch
48-22-8193	3-pack zipper Pouches		

JOBSITE COOLER



General Information

Part #	Description
48-22-8250	Jobsite Cooler

PROTECTIVE GLOVES

CUT RESISTANT DIPPED GLOVES



General Information

Part #	Description	Part #	Description
48-22-8901	Cut Level 1 Dipped Gloves - M	48-22-8933	Cut Level 3 Dipped Gloves - XL
48-22-8902	Cut Level 1 Dipped Gloves - L	48-22-8934	Cut Level 3 Dipped Gloves - XXL
48-22-8903	Cut Level 1 Dipped Gloves - XL	48-22-8951	Cut Level 5 Dipped Gloves - M
48-22-8904	Cut Level 1 Dipped Gloves - XXL	48-22-8952	Cut Level 5 Dipped Gloves - L
48-22-8931	Cut Level 3 Dipped Gloves - M	48-22-8953	Cut Level 5 Dipped Gloves - XL
48-22-8932	Cut Level 3 Dipped Gloves - L	48-22-8954	Cut Level 5 Dipped Gloves - XXL

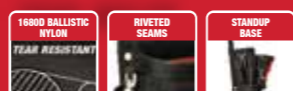
TOOL BOX



General Information

Part #	Description
48-22-8010	13" Jobsite WORK BOX
48-22-8020	26" Jobsite WORK BOX

TOOL BELTS



General Information

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

PARACHUTE ORGANIZER & BUCKET ORGANIZER



General Information

Part #	Description
48-22-8170	Parachute organizer Bag
48-22-8175	Bucket Organizer Bag

JOBSITE WORK GLOVES



General Information

Part #	Description	Part #	Description
48-22-8731	Demolition Gloves - M	48-22-9741	Fingerless Work Gloves - M
48-22-8732	Demolition Gloves - L	48-22-9742	Fingerless Work Gloves - L
48-22-8733	Demolition Gloves - XL	48-22-9743	Fingerless Work Gloves - XL
48-22-8734	Demolition Gloves - XXL	48-22-9744	Fingerless Work Gloves - XXL
48-22-8721	Performance Work Gloves - M	48-22-8711	Free-Flex Work Gloves - M
48-22-8722	Performance Work Gloves - L	48-22-8712	Free-Flex Work Gloves - L
48-22-8723	Performance Work Gloves - XL	48-22-8713	Free-Flex Work Gloves - XL
48-22-8724	Performance Work Gloves - XXL	48-22-8714	Free-Flex Work Gloves - XXL



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AX™

CARBIDE TEETH



2X
FASTER

30X
LIFE*

*Compared to bi-metal



WOOD CUTTING SAWZALL® BLADES



THE AX™ WITH CARBIDE TEETH

- 30X longer life over standard bi-metal blades
- 2X faster than other carbide blades
- Optimized for cordles 25% more cuts per charge
- 5 TPI for fast aggressive cuts in nail-embedded wood
- NAIL GUARD™: Rips nails not teeth
- FANG TIP™: Rapid plunging
- Cuts a wide range of residential materials: wood, shingles, cement board

	Length	1 Pack	3 Pack	5 Pack
	6"	48-00-5221	48-00-5321	48-00-5521
	9"	48-00-5226	48-00-5326	48-00-5526
	12"	48-00-5227	48-00-5327	48-00-5527



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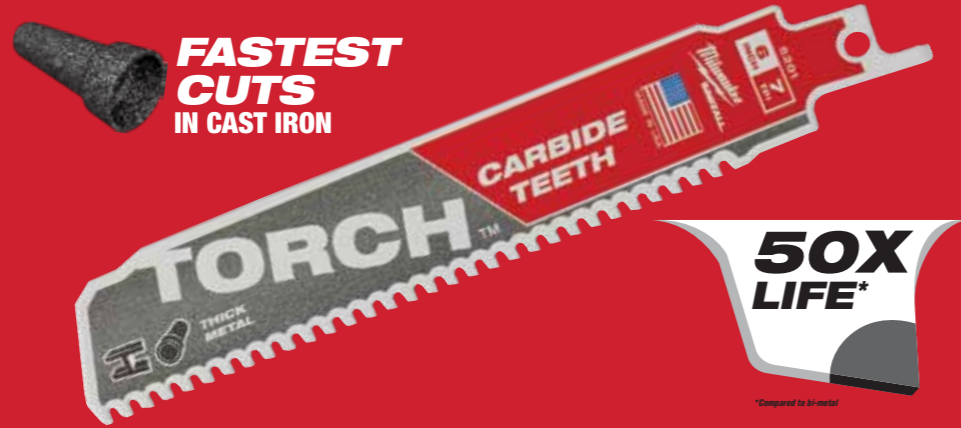
M12 FUEL
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HIGH OUTPUT LIGHTING
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ACCESSORIES

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M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

TORCH™

CARBIDE TEETH

**LONGEST LIFE
IN THICK METALS.**



**FASTEST CUTS
IN CAST IRON**

**50X
LIFE***



HOLE DOZER™

CARBIDE TEETH

**LONGEST LIFE IN
STAINLESS
STEEL.**



**THERMOSET
COATING
2X
FASTER**

**50X
LIFE***

METAL CUTTING SAWZALL® BLADES



THE TORCH™ WITH CARBIDE TEETH

- 1" tall for demolition application
- 7 TPI for fast, efficient cutting
- 25% more carbide for longer life & greater versatility
- 70% larger gullet for faster chip removal
- Consistent teeth angle for sharp and consistent cut



HOLE DOZER™ CARBIDE TEETH

- 4TPI carbide teeth design for long life & better durability
- Harder carbide grade for improved wear resistance
- Plug-jack slots for all access slot for fast plug removal
- Thermoset coating for fast cuts and more cuts per charge

	Length	1 Pack	3 Pack	5 Pack
	6"	48-00-5201	48-00-5301	48-00-5501
	9"	48-00-5202	48-00-5302	48-00-5502



Size	Part No.	Size	Part No.
3/4"	49-56-0702	2-1/4"	49-56-0724
7/8"	49-56-0704	2-3/8"	49-56-0726
1"	49-56-0707	2-1/2"	49-56-0727
1-1/8"	49-56-0708	2-5/8"	49-56-0729
1-1/4"	49-56-0710	3"	49-56-0734
1-3/8"	49-56-0712	3-1/2"	49-56-0738
1-1/2"	49-56-0713	3-5/8"	49-56-0739
1-3/4"	49-56-0717	4"	49-56-0742
1-7/8"	49-56-0719	4-1/4"	49-56-0744
2"	49-56-0720	4-1/2"	49-56-0746



M12 FUEL
M18 FUEL
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
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M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
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**MOST DURABLE.
BEST FIT.**

UP TO
30x
LIFE™



**PRECISE FIT
CUSTOM MACHINED TIP™**



OPTIMIZED SHOCK ZONE™



CUSTOM ALLOY 76™ STEEL

**SHOCKWAVE™
IMPACT DUTY**



SHOCKWAVE™ IMPACT DUTY DRIVER BITS						
Info	Drive Size	Length	1 Pack	2 Pack	5 Pack	10 Pack
PHILLIPS®	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		48-32-4604	
	PH2	6"	48-32-4802			48-32-4207
	PH3	1"		48-32-4413	48-32-4663	
	PH3	2"	48-32-4463			
	PH3	3-1/2"	48-32-4563			
	PH3	6"				48-32-4208

SHOCKWAVE™ IMPACT DUTY DRIVER BITS			
Info	Drive Size	Length	10 Pack
Double Ended Bits	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

Info	SAE Bit	Length	25 Pack (Bulk)
	7/64"	1"	48-32-4703
	9/64"	1"	48-32-4705
Hex	Metric Bit	Length	25 Pack (Bulk)
	10mm	1"	48-32-4730
	12mm	1"	48-32-4731
	2.5mm	1"	48-32-4724
	3mm	1"	48-32-4725
	4mm	1"	48-32-4726
	5mm	1"	48-32-4727
	6mm	1"	48-32-4728
	8mm	1"	48-32-4729

Info	Drive Size	Length	1 Pack	2 Pack	5 Pack	10 Pack
TORX	T10	2"	48-32-4482			
	T15	2"	48-32-4483			
	T20	1"		48-32-4414		
	T20	2"	48-32-4484	48-32-4984		
	T25	1"		48-32-4436		
	T25	2"	48-32-4485	48-32-4985	48-32-4685	
	T25	3-1/2"	48-32-4561			
	T25	6"				48-32-4246
	T27	2"	48-32-4486			
	T30	2"	48-32-4487	48-32-4914		
T40	2"	48-32-4488				

Info	Drive Size	Length	2 Pack	5 Pack
ECX™	ECX™ 1	1"	48-32-4441	
	ECX™ 1	2"		48-32-4491
	ECX™ 2	1"	48-32-4442	
	ECX™ 2	2"		48-32-4492

Info	Drive Size	Length	1 Pack	2 Pack	5 Pack	10 Contractor Pack	10 Pack
Square Recess	SQ1	1"		48-32-4421	48-32-4621		
	SQ1	2"	48-32-4471				
	SQ1	3-1/2"	48-32-4571				
	SQ2	1"		48-32-4422	48-32-4605	48-32-4607	
	SQ2	2"	48-32-4472		48-32-4606		
	SQ2	3-1/2"	48-32-4572				48-32-4215
	SQ2	6"	48-32-4805				
	SQ3	1"		48-32-4423			
	SQ3	2"	48-32-4473	48-32-4910			
	SQ3	3-1/2"	48-32-4573				
	SQ3	6"	48-32-4809				48-32-4216

Info	Drive Size	Length	1 Pack	2 Pack
Slotted	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	



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 3/16"	
	(1) Slotted Bit 1" SL 9/32"	
	(1) Square Bit 1" SQ	
	(1) Square Bit 1" SQ2	
	(1) TORX® Bit 1" T25	
(1) Shockwave™ 30 knuckle pivoting bit holder		

HOLE DOZER™

**MOST 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



Hole Ø mm	Hole Ø inch	Thread	Part #	Hole Ø mm	Hole Ø inch	Thread	Part #
14	9/16"	1/2"-20	49-56-9690	57	2-1/4"	5/8"-18	49-56-9628
16	5/8"	1/2"-20	49-56-9603	59	2-5/16"	5/8"-18	49-56-9629
17	11/16"	1/2"-20	49-56-9604	60	2-3/8"	5/8"-18	49-56-9630
19	3/4"	1/2"-20	49-56-9605	64	2-1/2"	5/8"-18	49-56-9631
21	13/16"	1/2"-20	49-56-9606	65	2-9/16"	5/8"-18	49-56-9632
22	7/8"	1/2"-20	49-56-9607	67	2-5/8"	5/8"-18	49-56-9633
24	15/16"	1/2"-20	49-56-9608	70	2-3/4"	5/8"-18	49-56-9635
25	1"	1/2"-20	49-56-9609	73	2-7/8"	5/8"-18	49-56-9636
27	1-1/16"	1/2"-20	49-56-9610	76	3"	5/8"-18	49-56-9637
29	1-1/8"	1/2"-20	49-56-9611	79	3-1/8"	5/8"-18	49-56-9638
30	1-3/16"	1/2"-20	49-56-9612	83	3-1/4"	5/8"-18	49-56-9639
32	1-1/4"	5/8"-18	49-56-9613	86	3-3/8"	5/8"-18	49-56-9640
33	1-5/16"	5/8"-18	49-56-9614	89	3-1/2"	5/8"-18	49-56-9641
35	1-3/8"	5/8"-18	49-56-9615	92	3-5/8"	5/8"-18	49-56-9642
37	1-7/16"	5/8"-18	49-56-9616	95	3-3/4"	5/8"-18	49-56-9643
38	1-1/2"	5/8"-18	49-56-9617	98	3-7/8"	5/8"-18	49-56-9644
40	1-9/16"	5/8"-18	49-56-9618	102	4"	5/8"-18	49-56-9645
41	1-5/8"	5/8"-18	49-56-9619	105	4-1/8"	5/8"-18	49-56-9646
43	1-11/16"	5/8"-18	49-56-9620	108	4-1/4"	5/8"-18	49-56-9647
44	1-3/4"	5/8"-18	49-56-9621	111	4-3/8"	5/8"-18	49-56-9648
46	1-13/16"	5/8"-18	49-56-9622	114	4-1/2"	5/8"-18	49-56-9649
48	1-7/8"	5/8"-18	49-56-9623	121	4-3/4"	5/8"-18	49-56-9650
51	2"	5/8"-18	49-56-9624	127	5"	5/8"-18	49-56-9652
52	2-1/16"	5/8"-18	49-56-9625	140	5-1/2"	5/8"-18	49-56-9654
54	2-1/8"	5/8"-18	49-56-9626	152	6"	5/8"-18	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
49-56-7210	Hole saw small arbor 3/8" q/c, twist release™
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 4" - bulk (12)
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
49-67-0120	Adapter spacer



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

	49-56-7210	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	Quick Change
Hole Saw Size Range	Up to 1-3/8" (35mm)			1-1/4" & Larger (32mm +)			
Minimum Chuck Size	3/8" (10mm)	1/2" (13mm)	1/4" (6mm)	1/2" (13mm)	1/2" (13mm)	3/8" (10mm)	1/2" (13mm)
Works with Pilot Bits	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

135° Split Point - No Walking



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	

M12™ M18™ M12™ M18™ HIGH OUTPUT LIGHTING CORDED HAND TOOLS ACCESSORIES

M12™ M18™ HIGH OUTPUT LIGHTING CORDED HAND TOOLS ACCESSORIES

SAWZALL™ BLADE SELECTION GUIDE

- 1 Identify the material to be cut in the columns below 2 Follow the column down to find **BEST PERFORMANCE** or **ACCEPTABLE PERFORMANCE**

	WOOD WITH NAILS	PVC & PLASTIC	ALUMINIUM & OTHER NON-FERROUS METALS	THICK METAL (3/8" - 9/16")	MEDIUM METAL (1/4" - 7/16")	THIN METAL (1/8" - 3/16")	SHEET METAL (1/16" - 3/16")	CLEAN WOOD	TIMBER & GREEN WOOD	PLASTER/ DRYWALL	TILE	FIBERGLASS	BRICK	CAST IRON
BEST PERFORMANCE														
ACCEPTABLE PERFORMANCE														
WOOD CUTTING	4/6 TPI FASTER/ ROUGHER													
	5/8 TPI													
	6 TPI													
GENERAL PURPOSE	8 TPI	FASTER/ ROUGHER	FASTER/ ROUGHER	FASTER/ ROUGHER										
	8/12 TPI	SLOWER/ SMOOTHER												
	10/14 TPI				FASTER/ ROUGHER									
METAL CUTTING	10 TPI	SLOWER/ SMOOTHER	SLOWER/ SMOOTHER											
	14 TPI			SLOWER/ SMOOTHER		FASTER/ ROUGHER								
	18 TPI				SLOWER/ SMOOTHER		FASTER/ ROUGHER							
	24 TPI					SLOWER/ SMOOTHER	SLOWER/ SMOOTHER							
SPECIALTY	PRUNING													
	CLEAN WOOD													
	PLASTER													
	CARBIDE GRIT													
	DIAMOND GRIT													

- 3 Follow the row to the left to identify the appropriate teeth per inch (TPI) or specialty blade
 Note: Fewer TPI cut faster but rougher, while more TPI cut smoother but slower
 4 Choose the Blade Length (Width of Material + 3" = Minimum Blade Length)
 5 Choose the Blade Profile

EXAMPLE

2x4
 Schedule 40 PVC Pipe
 Angle Iron

DEMOLITION BLADES FOR TOUGH STRAIGHT CUTS:

THIN KERF BLADES FOR FAST FLEXIBLE CUTS:

WOOD CUTTING SAWZALL™ BLADE

NAIL GUARD
RIPS NAILS HOT TEETH™

FANG TIP™
FASTER PLUNGING

THE AX™ wood-cutting blades are designed to provide tough, straight cuts in nail-embedded wood and engineered lumber. Choose THE AX™ blades for straighter door and window cut-outs or for greater tooth durability when cutting a lot of nails. THE AX™ blades are 1" tall and 0.062" thick.

Thin Kerf wood-cutting blades are designed to provide fast, flexible cuts in nail-embedded wood and engineered lumber. Choose Thin Kerf blades for flush cuts and scroll cuts or for slightly faster cutting in dimensional lumber, plywood and OSB. Thin Kerf wood-cutting blades are 3/4" tall and 0.050" thick.

THE AX™ TOUGH STRAIGHT CUTS				THIN KERF FAST FLEXIBLE CUTS			
TPI	Length	5 Packs	25 Packs	5 Packs	50 Packs	5 Packs	50 Packs
5	6"	48-00-5021	48-00-8021	48-00-5035	48-01-6035	-	-
5	9"	48-00-5026	48-00-8026	48-00-5036	48-01-6036	-	-
5	12"	48-00-5027	48-00-8027	48-00-5037	48-01-6037	-	-

ROUGH-IN
48-00-1610

IDEAL FOR TIGHT RADIUS CUTS

FLUSH CUT
48-00-1600

IDEAL FOR DOOR CUT-OUTS

METAL CUTTING SAWZALL™ BLADE

DOUBLE DUTY UPGRADE™

ice hardened

THE TORCH™ metal-cutting blades are designed to provide tough, straight cuts in all metal materials. Choose THE TORCH™ blades when you need straight cuts in pipe or tube, or when you need greater tooth durability in hollow materials like strut or conduit. THE TORCH™ blades are 1" tall and 0.042" thick.

Thin Kerf metal-cutting blades are designed to provide fast, flexible cuts in all metal materials. Choose Thin Kerf blades when you need flexibility for flush cuts or scroll cuts, or when you need flexibility for flush cuts or scroll cuts, or when you need faster cuts in solid materials like threaded rod or bar stock. Thin Kerf metal-cutting blades are 3/4" tall and 0.035" thick.

THE TORCH™ TOUGH STRAIGHT CUTS					THIN KERF FAST FLEXIBLE CUTS		
TPI	Length	5 Packs	25 Packs	ice hardened 5 Packs	5 Packs	50 Packs	ice hardened 5 Packs
10	4"	-	-	-	48-00-5090	-	-
10	6"	48-00-5712	48-00-8712	48-00-4712	48-00-5092	48-01-6092	-
10	9"	48-00-5713	48-00-8713	48-00-4713	-	-	-
10	12"	48-00-5714	-	-	-	-	-
14	4"	-	-	-	48-00-5181	-	-
14	6"	48-00-5782	48-00-8782	48-00-4782	48-00-5182	48-01-6182	48-00-4182
14	9"	48-00-5787	48-00-8787	48-00-4787	48-00-5187	48-01-6187	48-00-4187
14	12"	48-00-5794	-	-	-	-	48-00-4184
18	4"	-	-	-	48-00-5183	-	48-00-4188
18	6"	48-00-5784	48-00-8784	48-00-4784	48-00-5184	48-01-6184	48-00-4189
18	9"	48-00-5788	48-00-8788	48-00-4788	48-00-5188	48-01-6188	48-00-4186
18	12"	48-00-5789	48-00-8789	-	48-00-5189	48-01-6189	-
24	4"	-	-	-	48-00-5185	-	-
24	6"	48-00-5786	-	-	48-00-5186	48-01-6186	-
24	9"	48-00-5790	-	-	-	-	-
24	12"	48-00-5791	-	-	-	-	-

DUCTWORK
48-00-1630

IDEAL FOR INSTALLING TAKE-OFFS

DRYWALL ACCESS
48-00-1640

IDEAL FOR SERVICING PLUMBING AND ELECTRICAL

MULTI-MATERIAL SAWZALL™ BLADES

Choose multi-material blades when cutting wood, plastic and metal at the same time or when you need to quickly switch between applications without changing your blade.

THE WRECKER™ TACKLE ANYTHING

THE WRECKER™ multi-material blades are designed for true demolition work. Choose THE WRECKER™ blades when you need tough cuts in nail-embedded wood, plaster and ferrous and nonferrous metals. THE WRECKER™ blades are 1" tall and 0.062" thick.

Thin Kerf multi-material blades are designed to provide fast, flexible cuts in woods, plastics and metals. 8/12 TPI blades are 3/4" tall and 0.050" thick, while 10/14 TPI blades are 3/4" tall and 0.035" thick.

THE WRECKER™ TOUGH STRAIGHT CUTS				THIN KERF FAST FLEXIBLE CUTS		
TPI	Length	5 Packs	25 Packs	5 Packs	50 Packs	ice hardened 5 Packs
7/11	6"	48-00-5701	48-00-8701	-	-	-
7/11	9"	48-00-5706	48-00-8706	-	-	-
7/11	12"	48-00-5711	48-00-8711	-	-	-
8/12	6"	-	-	48-00-5091	48-00-6091	48-00-4091
8/12	8"	-	-	48-00-5093	48-00-6093	48-00-4093
8/12	12"	-	-	48-00-5094	48-00-6094	-
10/14	8"	-	-	48-00-5193	-	-
10/14	12"	-	-	48-00-5194	-	-

SPECIALTY SAWZALL™ BLADE

Description	TPI	Length	Height	Width	1 Pack	5 Packs
DUCTWORK	30	3.33"	0.75"	0.050"	-	48-00-1630
DRYWALL ACCESS	-	2.5"	0.75"	0.062"	48-00-1640	-
FLUSH CUT	5	12"	2-1/8"	0.062"	48-00-1600	-
ROUGH-IN	5	7-3/8"	1/2"	0.062"	-	48-00-1610
THE TORCH™ DIAMOND GRIT	GRIT	6"	1"	0.042"	48-00-1440	-
	GRIT	9"	1"	0.042"	48-00-1450	-
CARBIDE GRIT	GRIT	6"	3/4"	0.032"	48-00-1421	48-00-1420 (3 Packs)
	GRIT	9"	3/4"	0.032"	48-00-1431	48-00-1430 (3 Packs)
PRUNING	5	9"	3/4"	0.049"	48-00-1304	48-00-1301
	5	12"	3/4"	0.049"	48-00-1305	48-00-1303
CLEAN WOOD	6	6"	3/4"	0.050"	-	48-00-5015
	6	9"	3/4"	0.050"	-	48-00-5016
	6	12"	3/4"	0.050"	-	48-00-5017
PLASTER	6	5"	3/4"	0.050"	-	48-00-5052
	10	3-5/8"	5/16"	0.035"	-	48-00-5161
METAL SCROLLING	14	3-5/8"	5/16"	0.035"	-	48-00-5162
	18	3-5/8"	5/16"	0.035"	-	48-00-5163
WOOD SCROLLING	4/6	6"	1/2"	0.050"	-	48-00-5041

DIAMOND GRIT THE TORCH™
48-00-1440 and 48-00-1450

IDEAL FOR CAST IRON

SCRAPER BLADES
49-00-5455, 49-00-5456 and 49-00-5463

IDEAL FOR MATERIAL REMOVAL

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

M12 FUEL
M18 FUEL
FORCELOGIC
M12
M18
HIGH OUTPUT LIGHTING
CORDED
HAND TOOLS
ACCESSORIES

HACKZALL™ BLADES

Designed to optimize the cutting performance of HACKZALL™ recip saws.

Length	Pkg Qty	Part #	Blade Application	Length	Pkg Qty	Part #	Blade Application
3-1/2"	5	49-00-5310	Wood Scroll	4"	5	49-00-5418	EMT
3-1/2"	5	49-00-5324	Metal Scroll	4"	5	49-00-5424	Duct
4"	3	49-00-5400	Fiberglass	4"	5	49-00-5460	Wood
4"	5	49-00-5410	Multi-Material	4"	5	49-00-5461	Plaster & Drywall
4"	5	49-00-5414	PVC	6"	5	49-00-5614	PVC



- EXTENDED RUN TIME**
Thin kerf design delivers up to 35% more cuts per charge
- LONG LIFE**
Wear resistant bi-metal extends tooth life
- ACCESSIBILITY**
Shorter blades allow access to tight spaces

SAWZALL® / HACKZALL™ BLADES

Compatible with HACKZALL™ and SAWZALL® recip saws.

1-1/2" Scraper Blade
49-00-5463



- MAXIMUM DURABILITY**
High strength steel resists chipping and breaking
- LONG LIFE**
Blade coating resists corrosion
Resharpenable design

3" Scraper Blade
49-00-5456



Carbide Grit Grout Removal Tool
49-00-5450



- LONG LIFE**
Tungsten carbide grit resists wear
- MAXIMUM CONTROL**
Rounded blade edge reduces bouncing
- MAXIMUM DURABILITY**
High strength steel resists chipping and breaking

BI-METAL PORTABLE BAND SAW BLADES

BAND SAW BLADES	WORK PIECE THICKNESS			
	5/16" - 1/2"	3/16" - 5/16"	5/32" - 3/16"	UP TO 5/32"
10 TPI	SOFTEST MATERIAL	SOFTEST MATERIAL	SOFTEST MATERIAL	SOFTEST MATERIAL
14 TPI	HARDEST MATERIAL	SOFTEST MATERIAL	SOFTEST MATERIAL	SOFTEST MATERIAL
18 TPI	HARDEST MATERIAL	HARDEST MATERIAL	SOFTEST MATERIAL	SOFTEST MATERIAL
24 TPI	HARDEST MATERIAL	HARDEST MATERIAL	HARDEST MATERIAL	HARDEST MATERIAL
10/14 TPI				
14/18 TPI				

Type	System	TPI	Length	3 Pack Id. No.
Deep Cut Blade	M18 / M28 / AC	10	44-7/8"	48-39-0501
Deep Cut Blade	M18 / M28 / AC	14	44-7/8"	48-39-0511
Deep Cut Blade	M18 / M28 / AC	18	44-7/8"	48-39-0521
Deep Cut Blade	M18 / M28 / AC	24	44-7/8"	48-39-0531
Deep Cut Blade	M18 / M28 / AC	10 / 14	44-7/8"	48-39-0551
Deep Cut Blade	M18 / M28 / AC	14 / 18	44-7/8"	48-39-0561
Compact Blade	M18	10	35-3/8"	48-39-0509
Compact Blade	M18	14	35-3/8"	48-39-0519
Compact Blade	M18	18	35-3/8"	48-39-0529
Compact Blade	M18	24	35-3/8"	48-39-0539
Sub-Compact Blade	M12	18	27"	48-39-0572

- MAXIMUM DURABILITY**
Matrix II high speed steel protects teeth from chipping and breaking
- EXTENDED LIFE**
Alloy backing steel resists kinking and snapping
- CLEAN CUTS**
Precision formed teeth cut quickly and smoothly

MOST SOLID MATERIALS VERY HARD SOLID MATERIALS (like stainless steel) INTERRUPTED CUTTING (like structurals and profiles)



FASTER THAN EVER
+25% FASTER



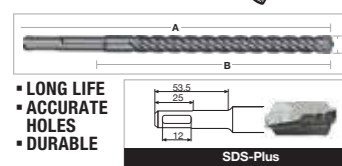
- Power Breakers**
3 offset aggressive power breakers.
+25% FASTER

- Tapered Shoulder Design**
Thinner shoulder towards drill tip for less friction providing for greter speed

- Enlarged Rebar Chamfers**
Prevents side tip damage when hitting rebar
Reduces the risk of the drill bit jamming when hitting rebar

- Centering Tip**
Ensures immediate spot drilling with pin point accuracy
Prevents skidding on smooth surfaces

SDS-PLUS M12 - 2 CUTTER DRILL BITS



- LONG LIFE
ACCURATE HOLES
DURABLE

Ø mm	A mm	B mm	Part # 4932
3	110	50	352892
3.2	110	50	451961
3.5	110	50	373908
4	110	50	339498
4	160	100	399143
5	110	50	307067
5	140	80	344290
5	160	100	399315
5	210	150	399316
5.5	110	50	339499
5.5	160	100	340408
5.5	210	150	399317
5.5	260	200	399318
5.5	310	250	399319
5.5	410	350	399320
6	110	50	307068
6	160	100	307069
6	210	150	373136
6	260	200	353819
6	310	250	399321
6	460	400	399322
6.5	110	50	344292
6.5	160	100	344293
6.5	210	150	399147
6.5	260	200	399148

Ø mm	A mm	B mm	Part # 4932
6.5	310	250	399323
7	110	50	353820
7	160	100	340409
7	210	150	399222
7	250	190	399324
8	110	50	307070
8	160	100	307071
8	210	150	307072
8	260	200	353821
8	310	250	399325
8	400	340	399326
8	460	400	367013
8	600	540	399327
8	1000	940	399328
8.5	160	100	451962
8.5	210	150	451963
9	160	100	353823
9	210	150	353822
9.5	310	250	451964
10	110	50	340410
10	160	100	307073
10	210	150	307074
10	260	200	344295
10	310	250	353824
10	350	290	451965
10	450	390	344296
10	600	540	367014
10	800	740	451966
10	1000	940	367015
10.5	110	50	451967
10.5	160	100	451968
10.5	210	150	451969
10.5	260	200	451970
10.5	460	410	451971
11	160	110	367066
11	210	160	451981

Ø mm	A mm	B mm	Part # 4932
11	260	210	399329
12	160	110	307075
12	210	160	307076
12	260	210	344297
12	310	260	353825
12	360	310	451973
12	450	400	307077
12	600	550	367068
12	800	750	451974
12	1000	950	367017
12.7	160	110	451975
13	160	110	307946
13	210	160	451976
13	260	210	344298
13	310	260	451977
14	160	110	307078
14	210	160	353826
14	260	210	307079
14	310	260	399330
14	450	400	307088
14	600	550	367018
14	1000	950	367019
15	160	110	373910
15	210	160	451978
15	260	210	344300
15	450	400	451979
15	600	540	367014
16	110	50	307081
16	160	100	307082
16	210	150	367015
16	260	200	353819
16	310	250	344301
16	450	400	307082
16	600	550	367069
16	800	750	451980
16	1000	950	367021
17	210	160	451980
17	310	260	451981

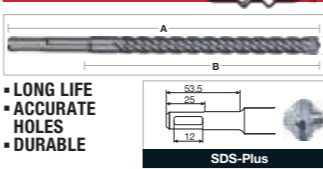
Ø mm	A mm	B mm	Part # 4932
17	450	400	451982
18	200	150	344303
18	250	200	307083
18	300	250	344304
18	450	400	340411
18	600	550	367022
18	1000	950	367024
19	200	150	367070
19	450	400	367071
20	200	150	344305
20	250	200	307084
20	300	250	399027
20	450	400	307085
20	600	550	367025
20	1000	950	367026
22	250	200	373911
22	300	250	451984
22	450	400	344307
22	600	550	367027
22	1000	950	367029
23	250	200	451985
23	450	400	451986
24	250	200	373922
24	300	250	451987
24	450	400	451988
25	250	200	344308
25	300	250	451988
25	450	400	344309
25	600	550	451989
25	1000	950	367030
26	250	200	344310
26	450	400	344311

Pre-drill with a short drill bit of the same diameter.



Longer Life!
Nothing but HEAVY DUTY Performance

SDS-PLUS M4 - 4 CUTTER DRILL BITS



- LONG LIFE
ACCURATE HOLES
DURABLE

Ø mm	A mm	B mm	Part # 4932
5	110	50	352007
5	160	100	352008
5	210	150	430133
5.5	110	50	352008
5.5	160	100	352010
6	110	50	352011
6	160	100	352012
6	210	150	352013
6	260	200	352014
6	310	250	352015
6.5	110	50	430134

Ø mm	A mm	B mm	Part # 4932
6.5	160	100	430146
6.5	210	150	352016
6.5	260	200	352017
6.5	310	250	352018
7	110	50	352019
7	160	100	352020
8	110	50	352021
8	160	100	352022
8	210	150	352023
8	260	200	352024
8	310	250	352025
8	460	400	352026
8	460	400	352027
8	460	400	352028
8	460	400	352029
8	460	400	352030
8	460	400	352031
8	460	400	352032
8	460	400	352033
8	460	400	352034
8	460	400	352035
8	460	400	352036
8	460	400	352037
8	460	400	352038
8	460	400	352039
8	460	400	352040
8	460	400	352041
8	460	400	352042
8	460	400	352043
8	460	400	352044
8	460	400	352045
8	460	400	352046
8	460	400	352047
8	460	400	352048
8	460	400	352049
8	460	400	352050
8	460	400	352051
8	460	400	352052
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8	460	400	352054
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8	460	400	352062
8	460	400	352063
8	460	400	352064
8	460	400	352065
8	460	400	352066
8	460	400	352067
8	460	400	352068
8	460	400	352069
8	460	400	352070
8	460	400	352071
8	460	400	352072
8	460	400	352073
8	460	400	352074
8	460	400	352075