



**PT. Bumi Teknik Utama**  
PROFESSIONAL INDUSTRIAL EQUIPMENTS

Jakarta  
Semarang  
Surabaya  
Balikpapan



Version 2017.1



**F**

**POWER TOOLS**

## Our Company

Established in 1968 as CV. Timur Raya, and later renamed to PT. Bumi Teknik Utama in 2004, with offices in Jakarta, Semarang, Surabaya, and Balikpapan. Our divisions are Welding Machines division, Welding Accessories division, Welding Consumable division, Tools & Power Tools division, Panel & Hand Tools, Retail division and Service & Support division.

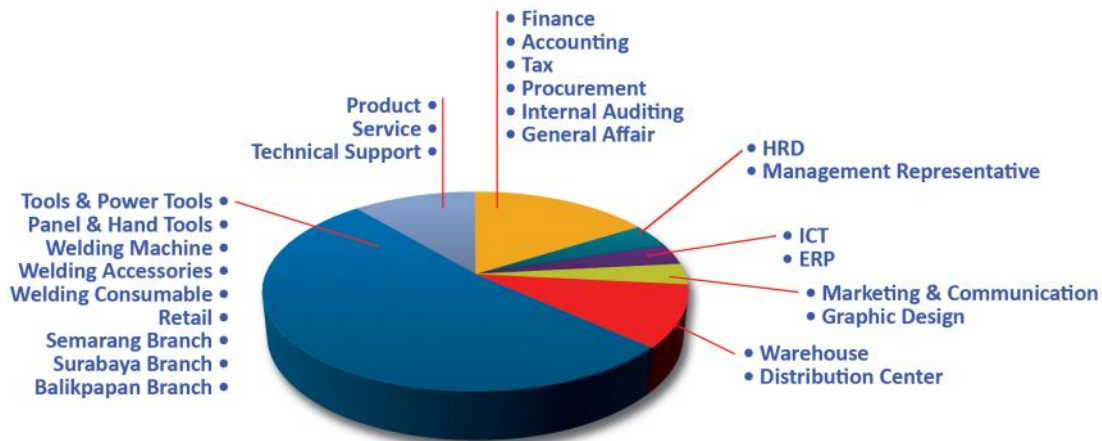
In Order to serve our customers better, we established Bumi Distribution Center in Cengkareng and we are planning to open more branches in different provinces and cities in the nationwide.

Close to 5 decades of industrial experience and utilizing a strong backbone of the latest computerized system, such as online "SAP" ERP system, Business Intelligence and Bumi Intranet, give us the advantageous of fast working collaboration, knowledge, analyze and expertise that contributes greatly to the benefit of our Customers

As one of the fastest growing companies in the industry, we believe Human Capital is one of the company's main pillars. Which we pay lots of attention and investment in the recruitment and talent development program.

Our Customers : Metal Fabricators, Automotive Industry, Shipyard, Power Plant, Mechanical & Electrical, Oil, Gas, Mining and all related supporting Industries.

Our Products : High quality and reliable welding, cutting, drilling, punching, power tools, hand tools and related products.



Our Vision : To be the leader in the professional industrial equipments by giving quality products and better services.

Our Mission: To equip Our Customers with reliable and efficient Professional Industrial Equipments. Together with preventive and corrective services that fulfill the needs and expectations of our customers and business partners.

Our Core values :

- Treating our customers with respect and faith.
- We grow through creativity, invention and innovation
- We integrate honesty, discipline and commitment into all business aspects.


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## CONTENT

Group Name	Brand	Item Name	Page
Introduction			
History		Milwaukee History	
Batteries		Red Lithium-Ion Basic Information	
Cordless 12 V - Holes	Milwaukee	Drill Driver 10 mm , <b>C12 DD</b>	F 1
Cordless 12 V - Removal	Milwaukee	Multi Tools, <b>C12 MT</b>	F 2
Cordless 12 V - Cutting	Milwaukee	Hackzall, <b>C12 HZ</b>	F 3
Cordless 12 V - Cutting	Milwaukee	PVC & PE Pipe Cutter, <b>C12 PPC</b>	F 4
Cordless 12 V - Cutting	Milwaukee	Bandsaw, <b>M12 BS</b>	F 5
Cordless 12 V - Fastening	Milwaukee	Impact Driver, <b>C12 ID</b>	F 6
Cordless 18 V - Holes	Milwaukee	Drill Driver 13 mm, <b>HD18 DD</b>	F 7
Cordless 18 V - Cutting	Milwaukee	Hackzall, <b>C18 HZ</b>	F 8
Cordless 18 V - Cutting	Milwaukee	Bandsaw, <b>HD18 BS</b>	F 9
Cordless 18 V - Cutting	Milwaukee	Heavy Duty Jigsaw, <b>HD18 JS</b>	F 10
Cordless 18 V - Fastening	Milwaukee	Impact Driver 1/4", <b>C18 ID</b>	F 11
Corded - Holes	Milwaukee	Drill 10 mm, 630 W, <b>DE 10 RX</b>	F 12
Corded - Holes	Milwaukee	Drill 13 mm, 630 W, <b>DE 13 RP</b>	F 13
Corded - Holes	Milwaukee	Percussion Drill 13 mm, 630 W, <b>PDE 13 RX</b>	F 14
Corded - Holes	Milwaukee	Drill 13 mm, 705 W, <b>PD 705</b>	F 15
Corded - Holes	Milwaukee	SDS-Plus Hammer, 620 W, <b>PLH 20</b>	F 16
Corded - Holes	Milwaukee	3 Mode Rotary Hammer, 725 W, <b>PH 26</b>	F 17
Corded - Holes	Milwaukee	SDS-Max Combination Hammer, 1100 W, <b>Kango 540S</b>	F 18
Corded - Holes	Milwaukee	SDS-Max Combination Hammer , 1550 W, <b>Kango 750S</b>	F 19
Corded - Holes	Milwaukee	SDS-Max Demolition Hammer, 1600 W, <b>Kango 900S</b>	F 20
Corded - Removal	Milwaukee	Grinder 4", 900 W, <b>AG9-100</b>	F 21
Corded - Removal	Milwaukee	Grinder 5", 1200 W, <b>AGV12-125X</b>	F 22
Corded - Removal	Milwaukee	Grinder 7", 2200 W, <b>AG22-180 DMS</b>	F 23
Corded - Removal	Milwaukee	Die Grinder, 600 W, <b>DGL 30 E</b>	F 24
Corded - Cutting	Milwaukee	Chopsaw, 2300 W, <b>CHS 355</b>	F 25
Corded - Cutting	Milwaukee	Sawzall, 1100 W, <b>SSD 1100 X</b>	F 26
Corded - Cutting	Milwaukee	Top Handle Jigsaw 26 mm, 750 W, <b>JSPE 135 TX</b>	F 27
Corded - Cutting	Milwaukee	Nibbler, 500 W, <b>N 2</b>	F 28
Corded - Fastening	Milwaukee	Impact Wrench 1/2", 725 W, <b>IPWE 400 RQ</b>	F 29
Batteries & Charger	Milwaukee	Battery 12 V, 1.5 Ah, <b>M12 B</b>	F 30
Batteries & Charger	Milwaukee	Battery 12 V, 2.0 Ah, <b>M12 B2</b>	F 31 - F 32
Batteries & Charger	Milwaukee	Battery 12 V, 3.0 Ah, <b>M12 BX</b>	F 31 - F 32
Batteries & Charger	Milwaukee	Charger M12, <b>C12 C</b>	F 31 - F 32
Batteries & Charger	Milwaukee	Battery 18 V, 3.0 Ah, <b>M18 BX</b>	F 31 - F 32
Batteries & Charger	Milwaukee	Charger M18, <b>C1418</b>	F 33
Accessories General Removal	Milwaukee	Chisels	F 34
Accessories General Removal	Milwaukee	SDS-Plus Chisels	F 35
Accessories General Removal	Milwaukee	SDS-Max Chisels	F 36
Accessories General Cutting	Milwaukee	Hackzall & Sawzall Blades	F 37
Accessories General Cutting	Milwaukee	The Ax	F 38
Accessories General Cutting	Milwaukee	The Torch	F 39
Accessories General Cutting	Milwaukee	Grout & Scraper	F 40
Accessories General Cutting	Milwaukee	M12 Bandsaw Blades	F 41
Accessories General Fastening	Milwaukee	Shockwave Screwdriving Bits	F 42
Accessories General Fastening	Milwaukee	Phillips, Torx, Slotted	F 43
Accessories General Fastening	Milwaukee	Magnetic Bit Holder	F 44
Accessories General Fastening	Milwaukee	Magnetic Nut Driver	F 44
Accessories General Fastening	Milwaukee	Socket Adaptor	F 44

# HISTORY OF MILWAUKEE

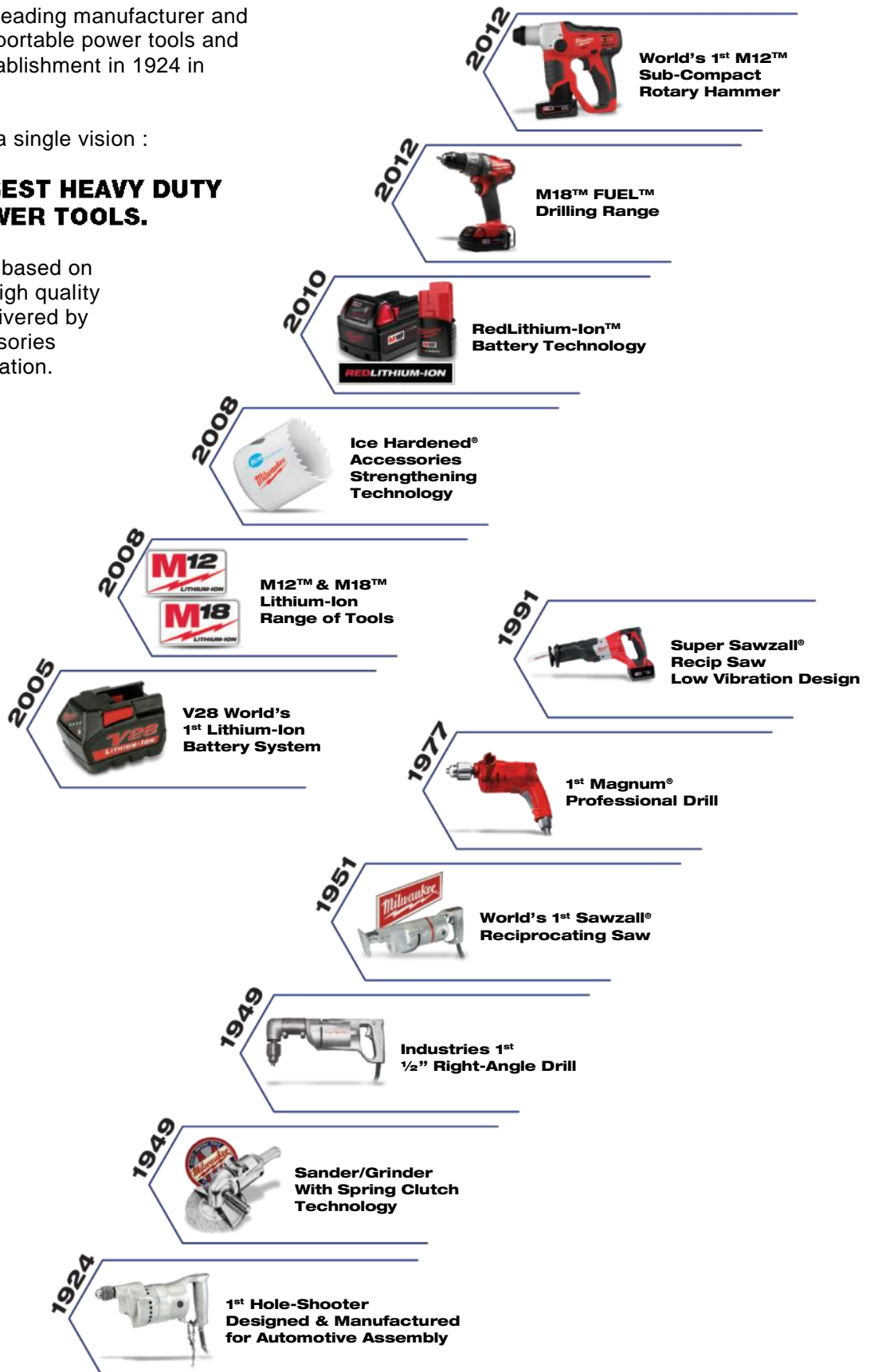
Milwaukee is an industry leading manufacturer and marketer of Heavy-Duty, portable power tools and accessories, since its establishment in 1924 in Brookfield, USA.

Milwaukee is focused on a single vision :

**TO PRODUCE THE BEST HEAVY DUTY PROFESSIONAL POWER TOOLS.**

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










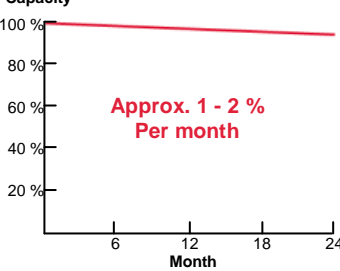
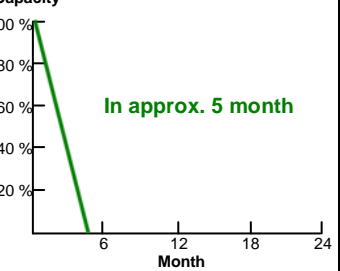
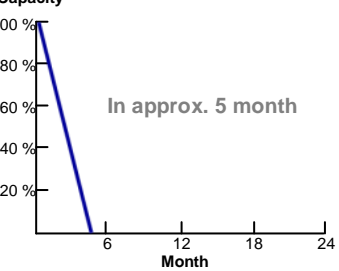



Milwaukee's ability to address user needs is based on extensive end user research, stringent benchmarking as well as demanding laboratory and in-field user testing.



## LI-ION BATTERY COMPARE TO NiMH & NiCd BATTERY

The picture below is comparison between Milwaukee Li-Ion and other brands for NiMH and NiCd in four aspects :

1. Lifetime
2. Efficiency
3. Self Discharge
4. Memory Effect

Comparison	<p><b>Lithium-Ion</b></p> 	<p><b>Nickel-Metallhydrid</b></p> 	<p><b>Nickel-Cadmium</b></p> 
<p><b>Lifetime</b></p>	 <p><b>Up to 1200 Chargings</b></p>	 <p><b>Approx. 500 - 800 Chargings</b></p>	 <p><b>Up to 1200 Chargings</b></p>
<p><b>Efficiency</b></p>	 <p><b>99%</b></p>	 <p><b>Min. 85%</b></p>	 <p><b>Max. 85%</b></p>
<p><b>Self Discharge</b></p>	<p>Capacity</p>  <p><b>Approx. 1 - 2 % Per month</b></p>	<p>Capacity</p>  <p><b>In approx. 5 month</b></p>	<p>Capacity</p>  <p><b>In approx. 5 month</b></p>
<p><b>Memory Effect</b></p>	 <p><b>Full Capacity</b> Li-ion battery do not have to be discharged completely</p>	 <p><b>Low loss of capacity</b> Discharged battery triggers the memory effect</p>	 <p><b>High loss of capacity</b> Charging a not completely</p>

## THERMAL PROTECTION IN LITHIUM-ION BATTERIES

With Milwaukee's Red Lithium the electronics will cut off the pack. Now what is interesting to us is the observation that Milwaukee's original lithium-ion batteries also contained electronic overload and thermal protection, cut out a lot earlier than the new Red Lithium models. The new Red Lithium cells can simply keep the battery cooler, thanks to a change in cell construction and chemistry. Of course, new potential and capabilities in the cells means that the electronics were adjusted to recognize this and respond accordingly. The new Red Lithium batteries literally build up heat slower and thus run longer before protection kicks in.

### THE REDLITHIUM™ Advantage :

- 2x Run Time
- 20% More Power
- 20% More Speed
- 20% More Torque

### The actual durability of the Red Lithium packs has changed :

- Operates Down to 0°F / -18°C
- Runs 20% Cooler
- Up to 2x More Recharges
- No Memory Effect



### M12



Battery M12 1.5 Ah



Battery M12 2.0 Ah



Battery M12 3.0 Ah



Battery M12 4.0 Ah

### M18



Battery M18 1.5 Ah



Battery M18 2.0 Ah

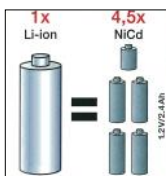


Battery M18 3.0 Ah

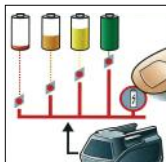


Battery M18 4.0 Ah

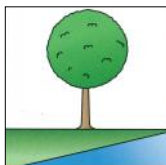
## MILWAUKEE LITHIUM-ION BATTERY TECHNOLOGY



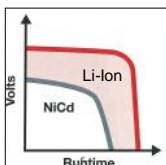
The M technology offers a new power dimension in cordless tools. M Class battery packs are 12 volt and 18 volts enable application with cordless tools where corded tools had to be used before.



The on board battery fuel gauge always inform about the remaining power. Empty batteries on the jobsite are obsolete.



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



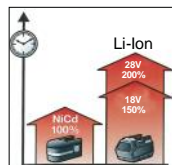
Consistent, fade free power guarantees the same performance from the first use until you have to recharge the battery. Due to the patented control electronics every single cell is under permanent inspection. This increases the lifetime and always supplies full power.



The extreme weather performance of Lithium-Ion cells guarantees independence from weather conditions. They always work, from -20 °C until +75 °C.



Less weight - more power : in spite of more power the battery packs are much lighter than the known NiCd / Ni-MH packs, more ergonomic, less physical fatigue.



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



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

## THE FASTEST GROWING LITHIUM-ION CORDLESS SYSTEM

Patented technologies and electronics, innovative motor design and superior ergonomics provide the most efficient blend of power, weight and performance. Weight for weight, volt for volt, there isn't another cordless tool on the market that compares the new M-System.



### Digital Power Management (DPM)

Sophisticated electronics in both battery & tool, means that the tool can be significantly better protected without compromising performance, as each tool in the system has very different power draw requirements. The overload protection system is also self resetting meaning that the battery does not need to be removed from the tool to continue working. When it comes to providing maximum cordless power on the jobsite, nothing comes close to LITHIUM-ION and nothing is better than Milwaukee®'s LITHIUM-ION batteries with DPM – Digital Power Management.

### MILWAUKEE BATTERY CONSTRUCTION

**Battery Fuel Gauge** ←

Displays remaining run-time

**Slide Pack Design** ←

Easy to use design that securely holds the battery to the tool

**DPM Features** ←

- Overload Protection
- Temperature Management System
- Individual Cell Voltage Monitoring
- Discharge Protection
- Battery Fuel Gauge

**Integrated Weld Frame** ←

Provides strong compact structure to securely hold cells for maximum life

**Cell Separator** ←

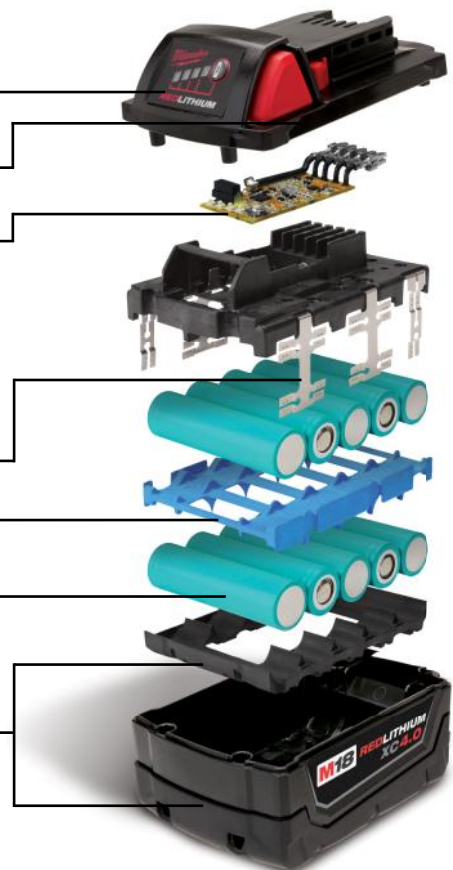
Prevents cell damage from vibration or drops

**LITHIUM-ION Battery Cells** ←

Delivers the same power at half the weight of conventional technologies

**Impact and Vibration Protective Rubber** ←

Protects cells and pack during drops and provides maximum life





**HOLES**



C12 DD

**REMOVAL**



C12 MT

**CUTTING**



C12 HZ



C12 PPC



M12 BS

**FASTENING**



C12 ID



## Drill Driver 10 mm - C12 DD



### Advantageous

- Compact and powerful, best in class
- Drills and drives faster at 0 - 400 and 0 - 1.500 RPM
- Delivers 30 Nm of torque in compact lightweight design
- Metal locking chuck and gear box, maximum performance and long life
- Rubber over-mold front, rear and top grips, secure grip and work surface protection
- Integrated LED Light and Fuel Gauge, increase productivity and decrease frustration
- For extra power use M12 BX 3.0 Ah and M12 B4 4.0 Ah Red Lithium-Ion battery

### Specifications

No load speed	0 - 400 and 0 - 1.500 RPM
Torque	30 Nm
Chuck capacity	10 mm (3/8") - Keyless
Clutch settings	21 Stage + 1 Drill Setting
LED light	Yes
Spindle lock	Yes
Battery voltage	12 Volts
Battery type	M12 1.5 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	200 x 60 x 195 mm
Weight with battery pack	1.05 Kg

Item Code	Item Name	MoQ
134.01.001.1	Drill Driver 10 mm, C12 DD + Carrying case, charger M12, C12 C	1 Set

### Standard Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	2 Pcs
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### Optional Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.003	Charger M12, C12 C	1 Pc



## Multi Tools - C12 MT



### Advantageous

- Application versatility : Cuts, Grinds, Sands and Scrapes
- Variable speed (5.000 – 20.000 OPM) and 1.5° left / right oscillation movement allows quick completion of professional applications into materials such as metal, wood and plastic
- Versatile cordless solution for cutting and removal applications
- Will accept competitive accessories
- For extra power use M12 BX 3.0 Ah and M12 B4 4.0 Ah Red Lithium-Ion battery

Specifications	
Battery pack voltage	12 Volts and 1.5 Ah
Oscillating angle left / right	1.5° and 1.5°
Delta-sander no load oscillation frequency	5.000 - 20.000 OPM
Battery type	M12 1.5 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	300 x 50 x 85 mm
Weight with battery pack	1.0 kg

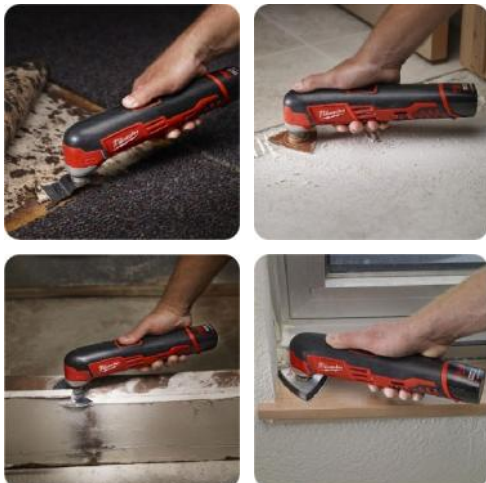
Item Code	Item Name	MoQ
134.02.001.1	<b>Multi Tools, C12 MT</b> + Soft tool bag 12V, charger M12, C12 C, allen Key 4 mm, sanding backing pad, sander grit P60, P80, P120, P240, plunge cut wood, adaptor	1 Set

### Standard Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	2 Pcs
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### Optional Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.007	Battery 12 V, 2.0 Ah, M12 B2	1 Pc
234.22.008	Battery 12 V, 4.0 Ah, M12 B4	1 Pc
234.22.003	Charger M12, C12 C	1 Pc
234.22.011	Dual Charger M12-18 C	1 Pc



## Hackzall - C12 HZ



### Advantageous

- Ultimate compact design to cut almost anything anywhere
- 80 cuts of 40 mm PVC per charge, increased productivity
- 3.000 strokes per minute for a smooth yet aggressive cut
- Keyless FIXTEC™ blade clamp, quick and easy blade changes
- 280 mm in length, compact design and ideal for working in tight places
- Metal Gear Box, jobsite durability and maximum performance
- Lightweight, one-handed use and reduces user fatigue
- Integrated LED Light and Fuel Gauge, increase productivity and decrease frustration
- For extra power use M12 BX 3.0 Ah and M12 B4 4.0 Ah Red Lithium-Ion battery

### Specifications

No load speed	0 - 3.000 RPM
Stroke length	13 mm
Blade clamp	Keyless, FIXTEC™
LED light	Yes
Battery voltage	12 Volts
Battery type	M12 1.5 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	280 x 65 x 165 mm
Weight with battery pack	1.2 Kg

Item Code	Item Name	MoQ
134.03.001.1	Hackzall, C12 HZ + Carrying case, charger M12, C12 C,	1 Set

### Standard Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	2 Pcs
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### Optional Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.008	Battery 12 V, 4.0 Ah, M12 B4	1 Pc
234.22.003	Charger M12, C12 C	1 Pc
234.22.011	Dual Charger M12-18 C	1 Pc



## PVC & PE Pipe Cutter - C12 PPC



### Advantageous

- Powerful mechanism cuts up to 50 mm (2") PEX pipe in 3 seconds
- Variable speed trigger for complete cut control
- Super sharp blade for burr free cuts
- Highly efficient mechanism delivers over 200 cuts per charge
- 5 stage all metal gearing for extreme durability
- Massive cutting pressure of 175 kg
- Heavy Duty full metal gearbox and gears for superior durability and maximum torque
- Built in LED light illuminates the work surface
- Fuel gauge displays remaining battery charge state
- For extra power use M12 BX 3.0 Ah and M12 B4 4.0 Ah Red Lithium-Ion battery

### Specifications

Max cut capacity	50 mm
Speed	0 - 500 RPM
Power	280 Nm
Shear head	Water / Rust Resistant Aluminum Jaw
Switch type	Two-Action, Variable Speed with Re-
Gear drive	All-Metal Planetary Drive with Protecting
Blade return	Quick Release or Powered Return
Blade wrench	On-Board Storage
Battery voltage	12 Volts
Battery type	M12 1.5 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	360 x 95 x 125 mm
Weight with battery pack	2.3 kg

Item Code	Item Name	MoQ
134.03.002.1	PVC & PE Pipe Cutter, C12 PPC + Charger M12, C12 C	1 Set

### Standard Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
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### Optional Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.008	Battery 12 V, 4.0 Ah, M12 B4	1 Pc
234.22.003	Charger M12, C12 C	1 Pc
234.22.011	Dual Charger M12-18 C	1 Pc



## Bandsaw - M12 BS



### Advantageous

- Compact and Lightweight Band Saw
- One-Handed Cuts : Most compact size and lightest weight of any cordless band saw
- Powerful Motor : Cuts 19 mm (3/4") EMT in 3 seconds, up to 150 cuts per charge with the XC battery
- 41 mm (1-5/8") Cut Capacity : For a wide range of applications
- LED Light : Highlights the cut line
- Meets OSHA Guarding Requirements : Suitable for One-Handed use
- Blade Tension Adjustment : Adjustable blade tracking

### Specifications

Surface feet	1.42 SMPS (280 SFPM)
No load speed	650 RPM
Loaded speed	530 RPM
Capacity rectangular	41 mm x 41 mm (1-5/8" x 1-5/8")
Capacity round	41 mm (1-5/8")
Switch type	On / Off Trigger
Blade length	685 mm (27")
LED light	Yes
Battery voltage	12 Volts
Battery type	M12 3.0 Ah Red Lithium-Ion Battery
Charge time	45 minutes
Dimension (L x W x H)	302 x 179 x 167 mm
Weight with battery pack	3.35 kg

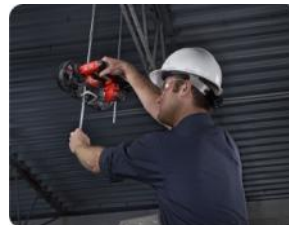
Item Code	Item Name	MoQ
134.03.004.1	<b>Bandsaw, M12 BS</b> + Carrying case for bandsaw M12, charger M12, C12 C, blade 685 mm (27")	1 Set

### Standard Accessories

234.22.002	Battery 12 V, 3.0 Ah, M12 BX	2 Pcs
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### Optional Accessories

234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.008	Battery 12 V, 4.0 Ah, M12 B4	1 Pc
234.22.003	Charger M12, C12 C	1 Pc
234.22.011	Dual Charger M12-18 C	1 Pc
234.03.004	Blade 685 mm (27"), 18 TPI	1 Pc



## Impact Driver 1/4" - C12 ID



**Keyless 1/4" Hex Chuck**  
Quick and easy bit changes

**LED Light**  
Illuminates work area

**Variable Speed Trigger**  
Complete user control



**Battery Fuel Gauge**  
Display remaining run-time & decrease frustration

**Forward / Lock / Reverse Switch**  
Well positioned, easy operation

**Red Lithium-Ion Battery**  
High runtime, increase durability and performance

### Advantageous

- Pocket Size Convenience with turbo
- Powerful Motor delivering 96 Nm torque, 0 - 2.000 RPM and 0 - 3.000 IPM, increased productivity
- 165 mm compact size, ideal for working in tight places
- One handed quick bit change, keyless 6.35 mm (1/4") Hex Chuck
- Rubber over-mold front, rear and top grips, secure grip and work surface protection
- Metal Gear Box, job site durability and maximum performance
- Ergonomic, extremely lightweight with slim-line handle, less user fatigue
- Integrated LED Light and Fuel Gauge, increased productivity and decreased frustration
- For extra power use M12 BX 3.0 Ah and M12 B4 4.0 Ah Red Lithium-Ion battery

### Specifications

No load speed	0 - 2.000 RPM
Impact rate	0 - 3.000 IPM
Torque	96 Nm
Chuck capacity	6.35 mm (1/4" ) Hex - Keyless
LED light	Yes
Battery voltage	12 Volts
Battery type	M12 1.5 Ah Red Lithium-Ion Battery
Charge time	30 minutes
Dimension (L x W x H)	170 x 55 x 180 mm
Weight with battery pack	1.0 Kg

Item Code	Item Name	MoQ
134.04.001.1	Impact Driver, C12 ID + Carrying case, charger M12, C12 C	1 Set

### Standard Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	2 Pcs
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### Optional Accessories

234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 Pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 Pc
234.22.003	Charger M12, C12 C	1 Pc





**HOLES**



**HD18 DD**

**CUTTING**



**C18 HZ**



**HD18 BS**



**HD18 JS**

**FASTENING**



**C 18 ID**

## Drill Driver - HD18 DD



### Advantageous

- Heavy Duty and Outstanding performance and most powerful in its class
- 4-Pole Motor delivers maximum power, maximizes tool efficiency and increases run-time
- 2 Speed Metal Gear Box at 0 - 450 and 0 - 1.800 RPM, maximum performance and longer life
- Powerful 85 Nm torque, compact and high performance, excellent handling and increased productivity
- 2 Stage Mode Selector, switch between 'drill' and 'drive' modes quickly and easily
- Rubber over-mold front, rear and top grips, secure grip and work surface protection

### Specifications

No load speed	0 - 450 and 0 - 1.800 RPM
Torque	85 Nm
Drilling capacity in steel / wood	13 / 55 mm
Keyless chuck	1.5 - 13 mm
Clutch settings	24 Stage
LED light	Yes
Spindle lock	Yes
Battery voltage	18 Volts
Battery type	M18 BX 3.0 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	240 x 80 x 255 mm
Weight with battery pack	2.4 Kg

Item Code	Item Name	MoQ
134.07.001.1	Drill Driver, HD18 DD + Carrying case, charger C1418, side handle for percussion & drill driver, belt hook optional for drill driver	1 Set

### Standard Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	2 Pcs
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### Optional Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc
234.22.006	Charger C1418	1 Pc

Milwaukee's 4-pole frameless motor is more powerful, more compact, more efficient and far more durable than a traditional canned motor.



Milwaukee frameless motor : far smaller, yet far more powerful

Conventional cordless motor



# Hackzall - C18 HZ



### Advantageous

- High Cutting Speed with one handed convenience
- One handed design, versatile and complete control, excellent
- Compact and lightweight, allows for cutting in tight spaces and makes overhead work easier
- Fast cutting through a wide range of material including wood, metal and PVC, 0 - 3.000 SPM
- Dual Gear Anti-Vibration System, maximum control and accuracy
- FIXTEC™ Blade Clamp, fast and easy keyless blade change
- LED Light illuminates the work area while cutting, maximum accuracy and increased productivity

### Specifications

No load speed	0 - 3.000 SPM
Stroke length	20 mm
LED light	Yes
Battery voltage	18 Volts
Battery type	M18 BX 3.0 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	390 x 85 x 185 mm
Weight with battery pack	2.6 Kg

Item Code	Item Name	MoQ
134.09.001.1	Hackzall, C18 HZ + Carrying case, charger C1418, bi-metal blade	1 Set

### Standard Accessories

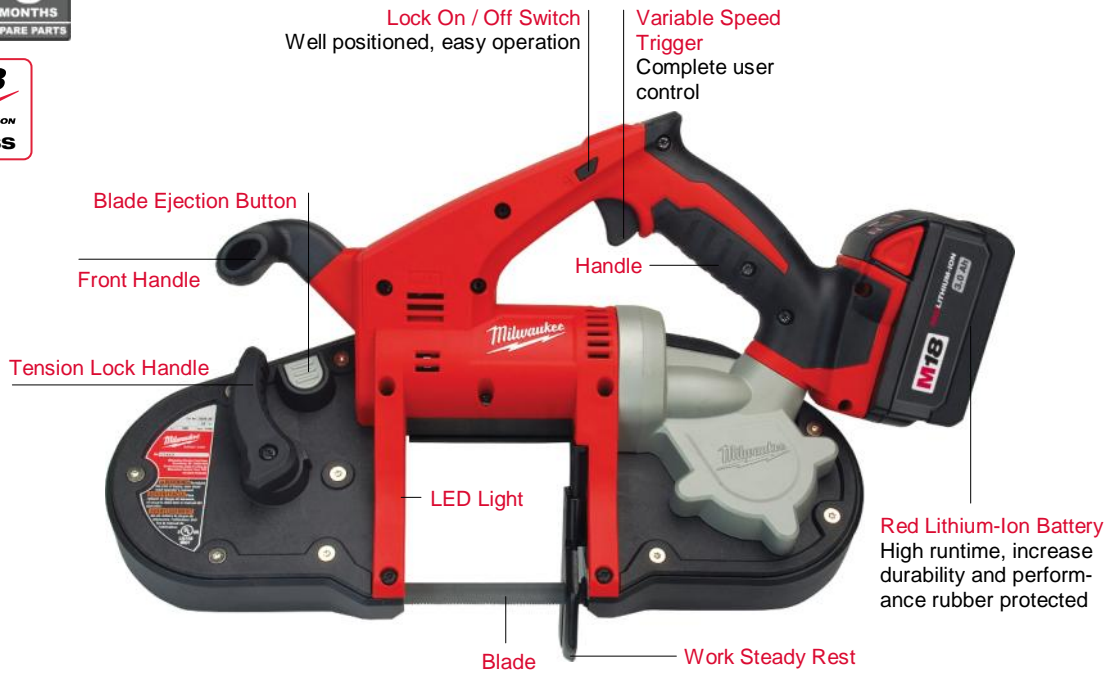
234.22.005	Battery 18 V, 3.0 Ah, M18 BX	2 Pcs
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### Optional Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc
234.22.006	Charger C1418	1 Pc



**Bandsaw - HD18 BS**



**Advantageous**

- Cordless convenience and Flush Cut Capability
- Compact lightweight design for cutting overhead and in tight places, 4.5 Kg
- Cuts most common materials for Electrician, Plumber and Mechanical cutting applications
- Tool free Adjustable Material Shoe, quickly adjusts the shoe allowing flush cuts when working with installed material against walls and ceilings
- Blade Ejection System, quick blade changes
- Drop Resistant Pulley Guard, engineered geometrics and high impact polymer
- Cast Aluminum Gear Case withstands jobsite abuse and maintains gear positioning
- LED Work Light, illuminates the cut line in dark areas

**Specifications**

Surface feet	2.44 SMPS (480 SFPM)
No load speed	480 RPM
Loaded speed	390 RPM
Capacity rectangular	85 mm x 85 mm
Capacity round	85 mm
Switch type	On / Off Trigger
Blade length	900 mm
LED light	Yes
Battery voltage	18 Volts
Battery type	M18 BX 3.0 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	410 x 245 x 165 mm
Weight with battery pack	4.5 Kg

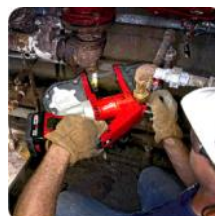
Item Code	Item Name	MoQ
134.09.003.1	<b>Bandsaw, HD18 BS</b> + Carrying case, charger C1418, blade 900 mm for Bandsaw HD18 BS	1 Set

**Standard Accessories**

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	2 Pcs
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**Optional Accessories**

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc
234.22.010	Battery 18 V, 4.0 Ah, M18 B4	1 Pc
234.22.006	Charger C1418	1 Pc
234.22.011	Charger M12-18 C	1 Pc



# Jigsaw - HD18 JS



### Advantageous

- Cordless convenience and super fast cutting in all materials
- 4-Pole Motor delivers maximum power, tool efficiency and run time
- Oversized blade roller support, maximum blade stability
- Tool free Shoe Bevel, quick and accurate shoe adjustments of 0 -
- 5 stage pendulum action, versatile application specific cutting and increased performance
- Rubber Over Mold Grip with Variable Speed Trigger, optimal control for cutting a variety of materials
- Non Marring Shoe, protects the work area from damage
- FIXTEC™ Tension Lever, fast and easy keyless blade change

### Specifications

No load stroke rate	0 - 2.200 SPM
Bevel capacity	45°
Pendulum setting	5 Stage
Cutting depth in wood / steel	135 / 10 mm
Stroke length	25 mm
Battery voltage	18 Volts
Battery type	M18 BX 3.0 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	270 x 80 x 220 mm
Weight with battery pack	3.5 Kg

Item Code	Item Name	MoQ
134.09.004.1	Jigsaw, HD18 JS + Carrying case, charger C1418, blade for Jig Saw HD 18 JS, sliding shoe for Jig Saw HD 18 JS	1 Set

### Standard Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	2 Pcs
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### Optional Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc
234.22.010	Battery 18 V, 4.0 Ah, M18 B4	1 Pc
234.22.006	Charger C1418	1 Pc
234.22.011	Charger M12-18 C	1 Pc

Milwaukee's 4-pole frameless motor is more powerful, more compact, more efficient and far more durable than a traditional canned motor.



Milwaukee frameless motor : far smaller, yet far more powerful

Conventional cordless motor

## Impact Driver 1/4" - C18 ID



**Keyless 1/4" Hex Chuck**  
Quick and easy bit changes

**LED Light**  
Illuminates work area

**Variable Speed Trigger**  
Complete user control

**Forward / Lock / Reverse Switch**  
Well positioned, easy operation

**Belt Hook**  
Easy Portability

**Battery Fuel Gauge**  
Display remaining run-time & decrease frustration

**Red Lithium-Ion Battery**  
High runtime, increase durability and performance, rubber protected



### Advantageous

- Ultimate driving power and performance to tackle the hardest jobs
- 4-Pole Motor delivers maximum power, tool efficiency and run-time
- Powerful 158 Nm torque, high performance
- Impact mechanism increases driving speed to 2.200 RPM
- Delivers 3.200 Impacts per minute, increased productivity
- Lightweight and compact, excellent handling and minimizes user fatigue
- Rubber over-mold front, rear and top grips, secure grip and work surface protection

### Specifications

No load speed	0 - 2.200 RPM
Torque	158 Nm
Percussion rate	0 - 3.200 IPM
Tool reception	1/4" (6.35 mm) Hex - Keyless
LED light	Yes
Battery voltage	18 Volts
Battery type	M18 BX 3.0 Ah Red Lithium-Ion
Charge time	30 minutes
Dimension (L x W x H)	160 x 70 x 250 mm
Weight with battery pack	1.6 Kg

Item Code	Item Name	MoQ
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134.10.001.1	Impact Driver 1/4 inch, C18 ID + Carrying case, charger C1418, belt hook for Impact Driver 1/4 inch, C18 ID	1 Set
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### Standard Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	2 Pcs
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### Optional Accessories

234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc
234.22.011	Dual Charger M12-18 C	1 Pc

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Milwaukee frameless motor : far smaller, yet far more powerful



Conventional cordless motor

**AC**  
CORDED  
HEAVYDUTY

**HOLES**



DE 10 RX



DE 13 RP



PDE 13 RX



PD 705



PLH 20



PH 26



Kango 540S



Kango 750S



Kango 900S

**REMOVAL**



AG9 - 100



AGV12-125X



AG22-180 DMS



DGL 30 E

**CUTTING**



CHS 355



SSD 1100 SX



JSPE 135 TX



S 2.5



N 2

**FASTENING**



IPWE 400 RQ

**Drill 10 mm, 630 W - DE 10 RX**



**10 mm Keyless Metal Chuck**  
Quick and easy bit changes, durable

**Reversible Switch**  
Forward and reverse rotation

**Variable Speed Trigger**  
Complete user control

**Lock Button**  
Maximum safety and control

**4 m Cable**

**Advantageous**

- Single high speed rotary drill
- The highest power and drilling capacity in its class
- Very rugged and robust for the most demanding user
- Excellent handling from a compact ergonomic design
- Keyless chuck Ø 1 - 10 mm with one sleeve
- IMB - Integrated Metal Block technology for highest durability and stability
- Electronic switch for variable speed to ensure a smooth easy drilling start
- Easy access and exchange of carbon brushes by removing soft grip
- Planetary gearbox for low speed and high torque applications
- Reversible action

**Specifications**

Power input	630 Watt
Drill Ø in steel	10 mm
Drill Ø in aluminum	13 mm
Drill Ø in wood	30 mm
Speed under load	0 - 1.500 RPM
No load speed	0 - 2.700 RPM
Tool reception	1 - 10 mm
Drive shank	1/2" x 20
Chuck neck Ø	43 mm
Static stalling torque	21 Nm
Dimension (L x W x H)	290 x 70 x 185 mm
Weight	1.6 Kg

Item Code	Item Name	MoQ
134.18.001	Drill 10 mm, 630 W, DE 10 RX + Carrying case, side handles for corded holes, depth gauge, power cable 4 m	1 Set



**Drill 13 mm, 630 W - DE 13 RP**



**Depth Gauge**  
Controlled application  
optimal drilling

**Reversible Switch**  
Forward and reverse  
rotation

**Keyless Chuck**  
Quick and easy  
bit changes

**Variable Speed Trigger  
with Dial Control**  
Maximum user control  
pre-select speed and  
hammer rate

**Lock Button**  
Maximum safety  
and control

**360° Locking Side Handle**  
Optimal control and versatility

**Advantageous**

- Single speed rotary drill
- The highest power and drilling capacity in its class
- Very rugged and robust for the most demanding user
- Superior handling from a compact ergonomic design
- Metal keyless chuck Ø 1 - 13 mm
- Planetary gearbox for low speed and high torque applications
- IMB - Integrated Metal Block technology for highest durability and stability
- Electronics : variable pre selection of speed for optimum drilling results in any material via integrated wheel in switch
- Easy access and exchange of carbon brushes by removing soft grip
- Reversible action

**Specifications**

Power input	630 Watt
Drill Ø in steel	13 mm
Drill Ø in aluminum	16 mm
Drill Ø in wood	40 mm
Speed under load	0 - 520 RPM
No load speed	0 - 950 RPM
Tool reception	1.5 - 13 mm
Drive shank	1/2" x 20
Chuck neck Ø	43 mm
Static stalling torque	59 Nm
Dimension (L x W x H)	290 x 65 x 230 mm
Weight	2.1 Kg

Item Code	Item Name	MoQ
134.18.002	Drill 13 mm, 630 W, DE 13 RP + Carrying case, side handles for corded holes, depth gauge, power cable 4 m	1 Set



## Percussion Drill 13 mm, 630 W - PDE 13 RX



- Depth Gauge**  
Controlled application optimal drilling
- Keyless Chuck**  
Quick and easy bit changes
- 360° Locking Side Handle**  
Optimal control and versatility
- Reversible Switch**  
Forward and reverse rotation
- Variable Speed Trigger with Dial Control**  
Maximum user control pre-select speed and hammer rate
- Lock Button**  
Maximum safety and control
- 4 m Cable**

### Advantageous

- Single speed percussion drill
- Keyless chuck Ø 1.5 - 13 mm with one sleeve
- FIXTEC™ Chuck for quick tool change
- IMB - Integrated Metal Block technology for highest durability and stability
- Electronics : variable pre selection of speed and hammer rate via integrated wheel in switch
- Hammer action stop for Rotary Drilling
- Easy access and exchange of carbon brushes by removing soft

### Specifications

Power input	630 Watt
Drill Ø in concrete	15 mm
Drill Ø in wood	30 mm
Drill Ø in steel	13 mm
Drill Ø in brick & tile	18 mm
Speed under load	0 - 1.500 RPM
No load speed	0 - 2.900 RPM
Tool reception	1.5 - 13 mm
Drive shank	1/2" x 20
Chuck neck Ø	43 mm
Static stalling torque	21 Nm
Dimension (L x W x H)	265 x 65 x 185 mm
Weight	1.6 Kg

Item Code	Item Name	MoQ
134.18.003	<b>Percussion Drill 13 mm, 630 W, PDE 13 RX</b> + Carrying case, side handles for corded holes, depth gauge, power cable 4 m	1 Set





## Percussion Drill 13 mm, 705 W - PD 705



### Advantageous

- Compact and powerful 705 W motor
- 13 mm metal keyless chuck
- 43 mm gear neck diameter for use in drill stands and with M12 universal hammer vac
- Suitable for wood, metal, and concrete drilling
- Also suitable for construction and screw-driving
- Hammer action stop for rotary drilling
- Variable speed control with forward and reverse mechanism
- Compact ergonomic design with large soft grip areas offers excellent handling

### Specifications

Power input	705 Watt
Max. torque	15 Nm
No load speed	0 - 3.000 RPM
Full load speed	0 - 1.890 RPM
Full load impact rate	0 - 48.000 BPM
Drilling Ø in concrete / brick & tile / steel / wood	15 / 16 / 13 / 30 mm
Chuck neck Ø	43 mm
Chuck	1.5 - 13 mm
Vibration emission drilling (into metal)	5.6 m/s <sup>2</sup>
Vibration emission impact drilling (into concrete)	12.6 m/s <sup>2</sup>
Dimension (l x w x h)	283 x 75 x 205 mm
Weight	1.9 kg

Item Code	Item Name	MoQ
134.18.006	Hammer Drill 705 W, PD 705 + Carrying case, side handles, depth gauge, power cable 4 m	1 Set



**SDS Plus Hammer, 620 W – PLH 20**



**Keyless Chuck**  
Quick and easy bit changes, durable

**Depth Gauge**  
Controlled application  
optimal drilling

**Variable Speed Trigger**  
Complete user control



4 m Cable



**Advantageous**

- SDS - Plus Chuck fixing hammer
- Optimized hammer drilling 5 - 12 mm
- Safety clutch to protect user and machine if a drill bit jams
- AVS ( Anti Vibration System ) for more comfortable use and less strain on the user
- Trigger switch ergonomic 2 finger trigger with variable speed
- Soft grip handle for comfort
- Motor cooling airflow is designed in a way that blows drilling debris away from user when drilling overhead
- Forward and reverse mechanism

**Specifications**

Power input	620 Watt
Max drilling capacity concrete	20 mm
Max drilling capacity wood	30 mm
Max drilling capacity steel	13 mm
Full load speed max	0 - 2.700 RPM
Full load hammer action	0 - 4.400 RPM
Impact energy per stroke according to EPTA-Procedure 05 / 2009	2.0 joule
No load speed	0 - 3.700 RPM
Tool reception	SDS-Plus
Vibration level (3 Axis) drilling into concrete	10.2 m/s <sup>2</sup>
Dimension (L x W x H)	260 x 75 x 210 mm
Weight	1.9 Kg

Item Code	Item Name	MoQ
134.18.005	SDS Plus Hammer, 620 W, PLH 20 + Carrying case, side handles for corded holes, depth gauge, power cable 4 m	1 Set



## 3 Mode Rotary Hammer, 725 W - PH 26



### Advantageous

- Tough, durable hammer, excellent drilling performance
- 26 mm SDS Plus
- 725 Watt motor, maximum performance
- Slim - line design, great handling in tight situations
- Super low Vibration, comfortable operation and low user fatigue
- Integrated Metal Block technology, maximum durability
- Features rotation stop and various lock for chiseling
- Safety clutch, user safety and tool protection
- 3 Mode Functionality, easily switch between concrete drilling and rotation stop for chiseling

### Specifications

Power input	725 Watt
Full load speed	0 - 1.500 RPM
Blow rate (full load)	0 - 4.500 BPM
Blow energy	2.4 joule
Drilling capacity in concrete	26 mm
Drilling capacity in wood	30 mm
Drilling capacity in steel	13 mm
Vibration level (3 Axis) drilling into concrete / chipping	13.5 / 8.5 m/s <sup>2</sup>
Chuck	SDS Plus
Modes	3 Mode
Side handle positions	360° Locking
Dimension (L x W x H)	315 x 75 x 195 mm
Weight	2.4 Kg

Item Code	Item Name	MoQ
134.18.004	3 mode Rotary Hammer, 725 W, PH 26 + Carrying case, side handles for corded holes, depth gauge, power cable 4 m	1 Set



# SDS-Max Combination Hammer 40 mm, 1 100 W Kango 540 S

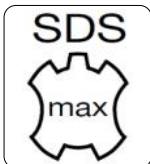


**Keyless Chuck**  
Quick and easy bit changes, durable



**Variable Speed Trigger**  
Complete user control

4 m Cable



### Advantageous

- 5 kg class drilling and breaking hammer
- Best power to weight ratio in its class
- 2 mode SDS-Max combi-hammer
- Soft start for precise start of drilling/chiseling
- Low vibration construction enhances usage time per day
- Robust magnesium gear housing for tough environments, exact seat fitting of gear components and better cooling
- Roto-stop and multi position chisel function gives 12 different positions to optimize working angle
- Safety clutch protects operator and machine if drill bit jams
- Soft grip main side handle for less vibration
- Angled 4 m cable for better ergonomics and durability

### Specifications

Power input	1.100 Watt
No load speed	450 RPM
Drilling speed (full load)	0 - 430 RPM
Blow rate (full load)	0 - 3.000 BPM
Blow energy [EPTA]	7.5 joule
Max. drilling solid bit	40 mm
Max. drilling tunnel bit	65 mm
Max. drilling with core cutter	105 mm
Tool reception	SDS-Max
Vibration level (3-axis) drilling into concrete	16. 8 m/s <sup>2</sup>
Vibration level (3-axis) drilling into chipping	16. 7 m/s <sup>2</sup>
Dimension (l x w x h)	460 x 100 x 280 mm
Weight	6.3 Kg

Item Code	Item Name	MoQ
134.18.007	SDS MAX Combination Hammer,	1 Set

+ Carrying case, side handles, high performance grease, power cable 4 m



## SDS-Max Combination Hammer 50 mm, 1550 W Kango 750 S



**Keyless Chuck**  
Quick and easy bit changes, durable

**Variable Speed Trigger**  
Complete user control



4 m Cable

**Side Handle**  
Soft grip handle for comfort



### Advantageous

- Superior 7 kg class combination hammer, featuring Anti-Vibration-System (AVS) that reduces user fatigue
- as well as hand arm vibration
- 3 Mode Operation : Rotary Hammer / Hammer / Chipping
- Powerful 1,550 Watt motor offers increased performance whilst effectively dissipating heat guarantees maximum possible durability
- Soft start feature reduces initial drill bit reaction with concrete
- Soft hammer function reduces impact energy for use on sensitive materials
- Vario-lock (12 positions) for selecting the most appropriate chisel angle

### Specifications

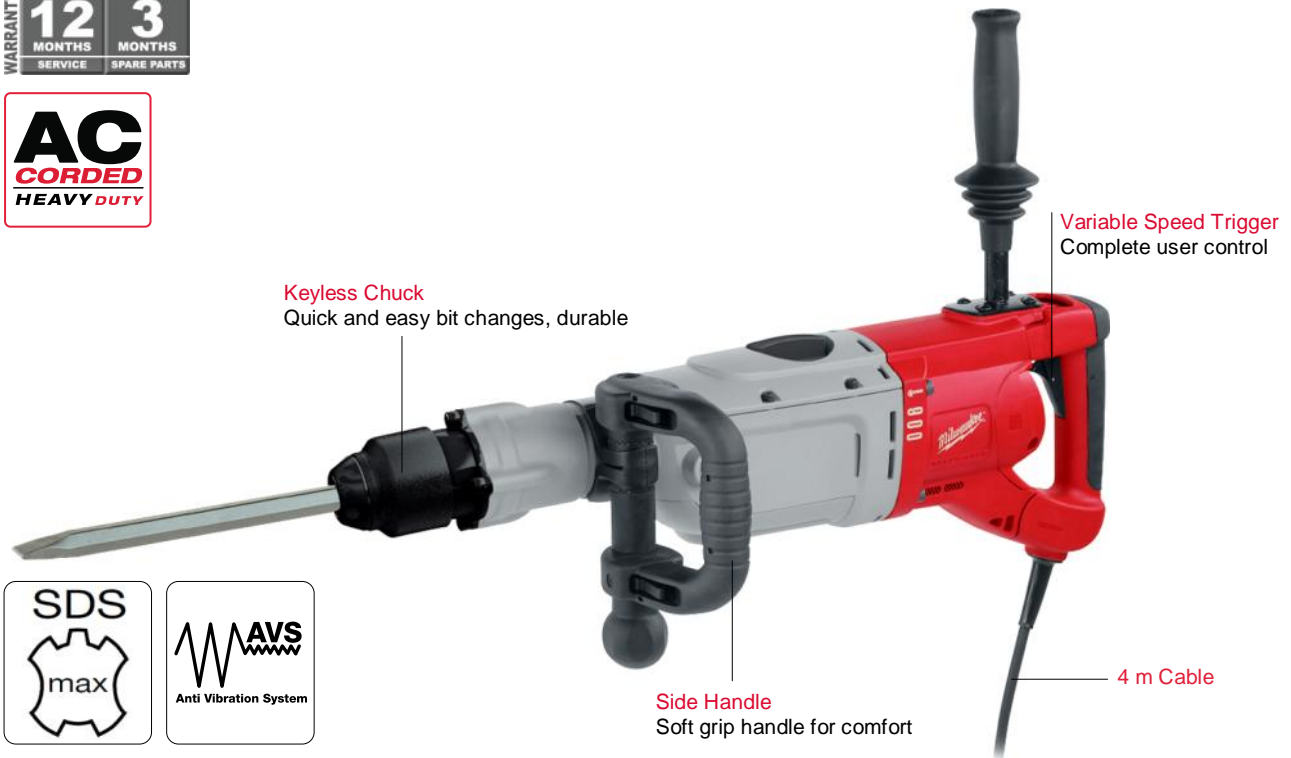
Power input	1.550 Watt
No load speed	300 RPM
Drilling speed (full load)	0 - 240 RPM
Blow rate (full load)	0 - 2.740 BPM
Blow energy [EPTA]	11.9 joule
Max. drilling solid bit	50 mm
Max. drilling tunnel bit	80 mm
Max. drilling with core cutter	150 mm
Tool reception	SDS-Max
Vibration level (3-axis) drilling into concrete	9.5 m/s <sup>2</sup>
Vibration level (3-axis) drilling into chipping	9.1 m/s <sup>2</sup>
Weight	8.2 Kg

Item Code	Item Name	MoQ
134.18.008	SDS MAX Combination Hammer,	1 Set
	+ Carrying case, add. side handles, high performance grease, power cable 6 m	





## SDS-Max Demolition Hammer 50 mm, 1600 W Kango 900 S



### Advantageous

- 10 kg Class Demolition Hammer
- 1600 Watt motor delivers power and Heavy Duty durability
- In-Line design reduces user fatigue and increases comfort
- Full wave DIGITRONIC™ electronic speed control allows the correct speed for the application
- In-Line motor design for more comfort in below waist applications
- Vario-lock (12 positions) for selecting the most appropriate chisel angle
- Ideal for usage with generators
- Anti-Vibration-System (AVS) coupled with three gripping handles reduces user fatigue while increasing productivity

### Specifications

Power input	1.600 Watt
Blow energy [EPTA]	20.0 joule
Blow rate (full load)	975 - 1.950 BPM
Tool reception	SDS-Max
Vibration level (3-axis) breaking	11.0 m/s <sup>2</sup>
Dimension (L x W x H)	700 x 110 x 225 mm
Weight with spade handle	11.0 Kg

Item Code	Item Name	MoQ
134.18.009	SDS MAX Combination Hammer, 1600 W, Kango 900S	1 Set
+ Carrying case, add. front handles, add. side handles, high performance grease, power cable 6 m		



## Grinder 4", 900 W - AG9-100



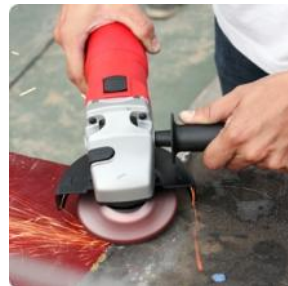
### Advantageous

- Compact 900 W, 100 mm grinder
- PROTECTOR motor - epoxy resin coated field and heavy duty winding protection, increase lifetime of tool
- Light weight, slim and compact : a versatile all purpose angle grinder
- Flat metal gear head, excellent visibility of work piece and optimized cutting depth, increase productivity
- Die cast magnesium alloy gear casing, low vibration running and a long working life
- Dust protected bearings and switch, longer life
- Patented quick release guard for easy adjustment
- Automatic cut off carbon brushes
- Spindle Lock, quick and easy disc changes with only one key

Item Code	Item Name	MoQ
134.19.001	Grinder 4", 900 W, AG9-100 + side handle, spanner / wrench, outer flange nut, inner flange nut, guard	1 Set

### Specifications

Power input	900 Watt
Disc Ø	100 mm
No load speed	11.000 RPM
Spindle Ø and thread	15.88 mm / M 10
Dimension (L x W x H)	300 x 120 x 110 mm
Weight	2.0 Kg



## Grinder 5", 1200 W - AGV12-125X



### Advantageous

- Compact barrel-grip angle grinder
- "PROTECTOR motor" - epoxy resin coated field and heavy-duty winding protection for increased lifetime of tool
- Line Lock-out function to prevent automatic startup after power breakdown
- Soft-start for smooth start up
- Overload protection to prevent overheating
- Safety clutch to protect the user and reduce "kickback-effect"
- Very slim and compact design for comfortable work during the day and best grip
- Integrated FIXTEC System for fast tool free disc change
- Anti vibration side handle for less user fatigue
- Burst resistant keyless safety guard for easy adjustment and best user protection

Item Code	Item Name	MoQ
134.19.006	Grinder 5", 1200 W, AGV12-125X + side handle, spanner / wrench, outer flange nut, inner flange nut, guard	1 Set

### Specifications

Power input	1.200 W
Disc diameter	125 mm
No load speed	0 - 11.000 RPM
Spindle diameter & thread	M 14
Cutting depth	31 mm
Cable length	4 m
Dimension (l x w x h)	285 x 65 x 105 mm
Weight	2.4 Kg







## Grinder 7", 2200 W - AG22-180DMS



### Advantageous

- Very compact and low-weight 7" grinder, offering 43 mm cutting depth.
- PROTECTOR motor - epoxy resin coated field and heavy-duty winding protection, increased lifetime of tool
- Strong and compact, lightweight grinder
- New Digital electronic pack offers constant speed, soft start, motor over load protection and no-load speed limitation
- Cutting depth comparable with some 230 mm units
- Spindle lock
- Patented FIXTEC nut for fast and easy disc change
- Integrated new auto-balancer system to reduce vibration
- Anti vibration side handle for less user fatigue
- Automatic cut-off carbon brushes

### Specifications

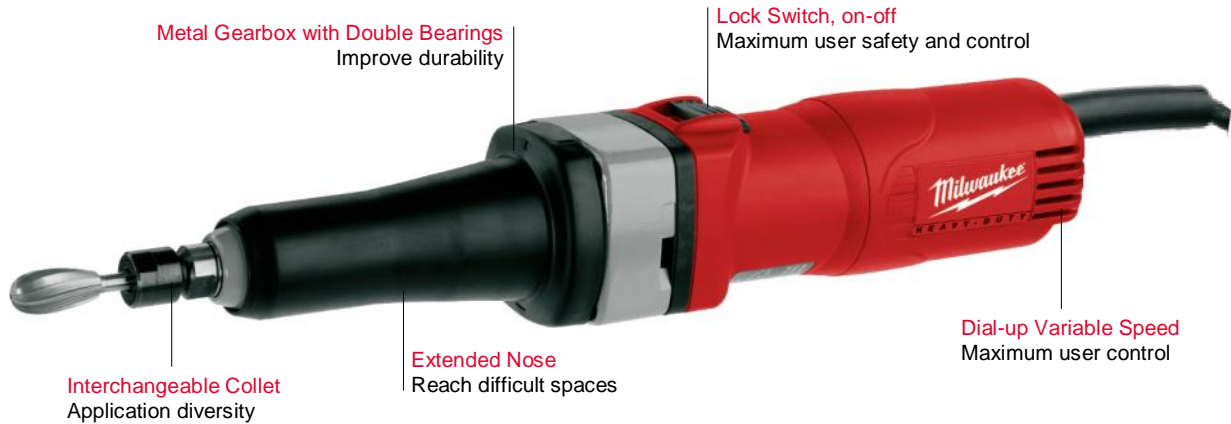
Power input	2.200 W
Disc diameter	180 mm
No load speed I./ II.	0 - 6600 RPM
Spindle diameter and thread	M 14
Max. cutting depth	43 mm
Power output	910 W
Gear ratio	4,55
Voltage	220 - 240 V AC
Cable length	4 m
Dimension (l x w x h)	590 x 195 x 190 mm
Weight	5.1 Kg

Item Code	Item Name	MoQ
134.19.007	Grinder 7", 2200 W, AG22 - 180 DMS + side handle, spanner / wrench, outer flange nut, inner flange nut, guard, allen key 6 mm	1 Set





## Die Grinder, 600 W - DGL 30 E



### Advantageous

- Variable speed 2 - handed die grinder
- Electronic speed control
- Soft start electronic
- Cut out carbon brushes
- Ergonomically designed motor housing for best user comfort
- Extended spindle enables easy access to difficult spots
- Extra high speed 30.000 RPM

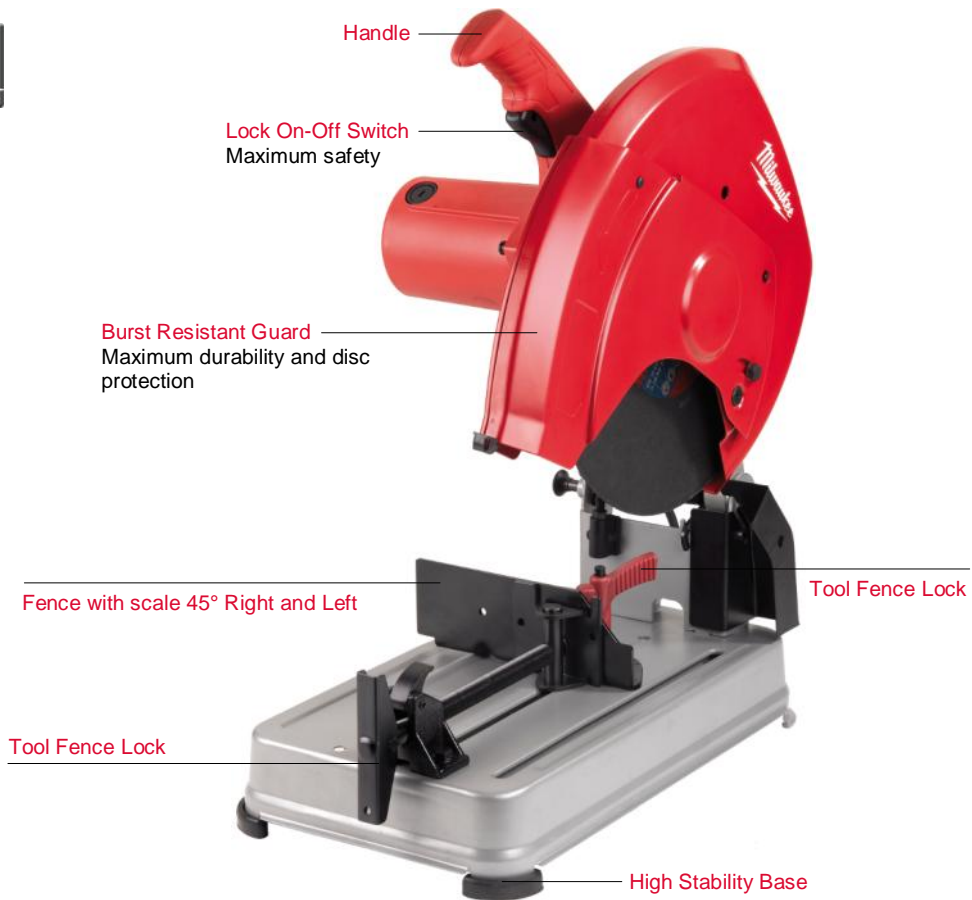
### Specifications

Power input	600 Watt
Collet Ø	6 mm
No Load Speed	10.000 - 30.000 RPM
Max. Grinding wheel Ø (at 80 m/sec)	40 mm
Max. Grinding wheel Ø (at 45 m/sec)	20 mm
Dimension (L x W x H)	370 x 70 x 70 mm
Weight	1.9 Kg

Item Code	Item Name	MoQ
134.19.005	Die Grinder, 600 W - DGL 30 E + Spanner SW15, Spanner SW17, Collet 6 mm	1 Set



## Chopsaw, 2300 W - CHS 355



### Advantageous

- 2.300 Watt motor with 3.800 RPM for excellent cutting performance
- Lock pin function keeps the saw closed position during transportation (no chain required)
- Quick release vice adjustment for fast angle adjustment •from - 45° to + 45°
- Quick release miter clamp for fast work piece change
- Spindle lock for fast and easy disc change
- Easy brush change due to external brush doors
- Integrated metal fan for best durability and long life
- Stamped steel base with additional ribs to prevent deforming

### Specifications

Power input	2.300 Watt
No load speed	3.800 RPM
Abrasive wheel Ø	355 mm

Cutting Capacities	90°	45°
Round profile	125 mm	100 mm
Square profile	115 mm	80 mm
Rectangular profile	230 x 70 mm	100 x 80 mm
Angle steel profile	130 mm	80 mm

Dimension (L x W x H)	570 x 365 x 410 mm
Weight	18.0 Kg

Item Code	Item Name	MoQ
134.20.001	Chopsaw 2300 W, CHS 355 + Allen key 4 mm, spanner, cutting disc for steel 355 x 3.0 x 25.40 mm	1 Set



## Sawzall, 1100 W - SSD 1100 X



**Insulating Boot**  
Energy efficient, increase

**Variable Speed Trigger**  
Complete user control

**Adjustable Shoe**  
Maximum work surface stability and blade protection

**Sawzall™ Blade**  
Accepts Sawzall™ Hackzall™ and universal style blades

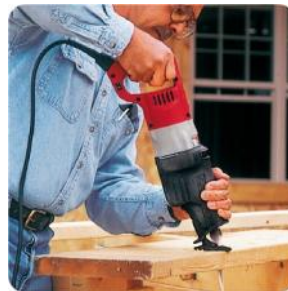
### Advantageous

- FIXTEC™ blade clamp for fast and easy blade changes without any key
- Water & finger protection nose to minimize both water penetration & increase safety
- Pendulum action for increase performance
- Full wave trigger switch for durability and smooth operation and improve ergonomics
- Powerful 1.100 Watt motor combined with 28 mm stroke length for aggressive cutting from a relatively low weight unit
- Full wave electronics for increase switch durability and smooth power application
- Durable long lasting slider crople mechanism

### Specifications

Power input	1.100 Watt
Length of stroke	28 mm
No load stroke rate	0 - 2.900 SPM
Voltage	220 - 240 Volts
Dimension (L x W x H)	475 x 90 x 150 mm
Weight	3.4 Kg

Item Code	Item Name	MoQ
134.20.002	Sawzall 1100 W, SSD 1100 X + Carrying case, power cable 4 m, bi-metal general purpose blade	1 Set



## Top Handle Jigsaw 26 mm, 750 W - JSPE 135 TX



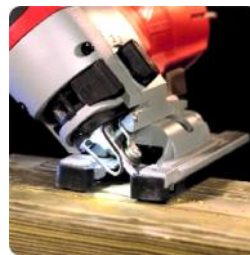
### Advantageous

- Robust and powerful top handle jig saw for fast cutting action in Wood, Aluminum, Steel or Ceramics
- Excellent power / weight ratio - powerful 750 Watt at only 2.5
- LED light for perfect illumination of cutting area
- Low vibration and smooth operation due to anti vibration technology and soft grip
- Precision blade guidance for precise cut
- Patented FIXTEC™ system for fast keyless blade change
- Electronic with variable speed pre-selection, soft start and constant speed under load
- Efficient sawdust blower and dust extraction system for clean working and clear view of the cutting area

### Specifications

Power Input	750 Watt
Cutting depth wood/ aluminum / steel	135 mm/ 30 mm/ 10 mm
Orbital adjustment	4 Steps
Mitre cutting angle	45°
No load stroke rate	800 - 3.000 RPM
Stroke	26 mm
Dimension (L x W x H)	265 x 75 x 215 mm
Weight	2.5 Kg

Item Code	Item Name	MoQ
134.20.003	Top Handle Jigsaw 26 mm 750 W, JSPE 135 TX	1 Set
	+ Carrying case, power cable 4 m, saw blade 5 pcs for jigsaw 26 mm, anti splintering device, cutting - sliding shoe / guide shoe, dust cap, absorption adaptor	



## Nibbler, 500 W - N 2



Precision Metal Gear Box  
Maximum durability

Lock Switch, On-Off  
Maximum user safety and control



4m Quik-Lok™ Cable  
Quick and easy  
cable changes  
reduces downtime

### Advantageous

- Handy nibbler with excellent curve negotiating properties for work in flat and corrugated sheet metal
- Nibbler for sheet steel up to 2 mm
- Precision Metal Gearbox, accurate cuts particularly when working with templates and longer life
- Clean, burr free cutting
- Excellent curve negotiation, high performance
- Direction of cutting tool can be changed 90° on both sides
- Cutting device can be rotated up to 90° on both sides
- Quik-Lok™ Cable, quick and easy cable changes reduces downtime
- Also suitable for corrugated and trapezoidal sheets

Item Code	Item Name	MoQ
134.20.005	Nibbler 500 W, N 2 + Allen key 4 mm, standard die, power cable 4 m	1 Set

### Specifications

Power input	500 Watt
Rated load strokes	1.350 SPM
Cutting capacity in steel plate up to 400 / 600 / 800 N/mm <sup>2</sup>	2.0 / 1.5 / 1.0 mm
Cutting capacity in aluminum up to 250 N/mm <sup>2</sup>	2.5 mm
Max cutting speed	1.3 m / min
Min cutting radius	4 mm
Dimension (L x W x H)	270 x 70 x 140 mm
Weight	1.8 Kg



## Impact Wrench 1/2", 725 W - IPWE 400 RQ



Detent Pin  
1/2" Drive

Forward / Lock / Reverse Switch  
Well positioned, easy operation

Variable Speed Trigger  
Complete user control

Speed Control Dial  
Adjust incremental speeds  
maximum user control

4 m Quik-Lok™ Cable  
Quick and easy  
cable changes  
reduces downtime



### Advantageous

- Delivering an impressive 400 Nm of torque with excellent control features
- Powerful 725 Watt motor, 1.700 RPM and 2.600 IPM (no load) high performance and increase productivity
- Delivers up to 400 Nm torque, maximum grunt
- 1/2" Drive with Detent Pin, securely retain sockets and adapters
- Electronic variable speed with speed dial, complete user control
- Lightweight and balanced, reduce user fatigue
- Soft grip and ergonomic handle design, comfortable handling

### Specifications

Power input	725 Watt
No load speed	0 - 1.700 RPM
Impact rate / min	1.000 - 2.600 IPM
Max. torque	400 Nm
Tool reception	13 mm (1/2")
Recommended bolt range	M12 - M20
Dimension (L x W x H)	300 x 70 x 210 mm
Weight	2.7 Kg

Item Code	Item Name	MoQ
134.21.001	Impact Wrench 1/2", IPWE 400 RQ + Quik-Lok cable 4 m	1 Set





**BATTERY & CHARGER**



M12 B



M12 B2



C12 C



M12 BX



M12 B4



**BATTERY & CHARGER**



M18 BX



C 1418



**REMOVAL**



SDS-Plus Chisel



SDS-Max Chisel



**CUTTING**



The Ax



The Torch



Grout



Scraper



**FASTENING**



Phillips



Torx



Slotted



Magnetic Bit Holder



Magnetic Nut Drivers



Magnetic Socket Adaptor







## Cordless M12 Batteries and Charger



### Advantageous

- Red Lithium-Ion Batteries deliver longer life and run-time with fade free power
- Lightweight, over 65% lighter than compact NiCd Batteries
- Compact, over 50% smaller than compact NiCd Batteries
- Ergonomic, compact and lightweight design for user comfort
- Compatible with all Milwaukee M12™ Cordless Tools and Electronics

### Battery 12V - 1.5 Ah, M12 B

Superior performance and run-time

#### Specifications

Battery voltage	12 V
Battery type	Red Lithium-Ion
Ampere	1.5 Ah
Dimension (L x W x H)	45 x 45 x 85 mm
Weight	200 gram



### Battery 12V - 2.0 Ah, M12 B2

Delivers up to 2X more runtime, 20% more power and 2X more recharges

#### Specifications

Battery voltage	12 V
Battery type	Red Lithium-Ion
Ampere	2.0 Ah
Dimension (L x W x H)	45 x 45 x 85 mm
Weight	200 gram



### Battery 12V - 3.0 Ah, M12 BX

2X run-time, high current discharge for max power and speed, rubber protected base

#### Specifications

Battery voltage	12 V
Battery type	Red Lithium-Ion
Ampere	3.0 Ah
Dimension (L x W x H)	93 x 70 x 120 mm
Weight	400 gram





## Cordless M12 Batteries and Charger



### Charger for M12 Batteries, C12 C

#### Advantageous

- Stay charged all day
- 30 / 45 Minutes Charger
- Charges : M12 B 1.5 Ah Red Lithium-Ion Battery Pack, 12V (30 minutes)  
M12 BX 3.0 Ah Red Lithium-Ion Battery Pack, 12V (45 minutes)



#### Specifications

Battery voltage	12 V
Battery type	1.5 / 3.0 Ah Red Lithium-Ion
Charge time	30 / 45 minutes
Dimension (L x W x H)	165 x 120 x 70 mm
Weight with battery pack	740 gram / 940 gram



Item Code	Item Name	MoQ
234.22.001	Battery 12 V, 1.5 Ah, M12 B	1 pc
234.22.007	Battery 12 V, 2.0 Ah, M12 B2	1 pc
234.22.002	Battery 12 V, 3.0 Ah, M12 BX	1 pc
234.22.003	Charger M12, C12 C	1 unit



## Cordless M18 Batteries



### Advantageous

- Superior performance and run-time
- Temperature Management System, keeps battery in ideal temperature range to provide maximum life
- Discharge Protection, prevents cell damage from over discharge
- Overload Protection, prevents damage in abusive situations
- Increased run-time and lighter than 18 Volts NiCd Battery
- Digital Power Management, optimal run-time and battery life
- Individual Cell Voltage Monitoring, ensures optimal charge and discharge for maximum life
- M18™ Compatibility, compatible with all Milwaukee M18™ Cordless Tools and Electronics

### Battery 18V - 3.0 Ah, M18 BX

Specifications	
Battery voltage	18 V
Battery type	Red Lithium-Ion
Ampere	3.0 Ah
Dimension (L x W x H)	75 x 110 x 77 mm
Weight	500 gram



Item Code	Item Name	MoQ
234.22.005	Battery 18 V, 3.0 Ah, M18 BX	1 Pc



## Cordless M18 Chargers



### Charger M18, C1418

#### Advantageous

- Stay charged all day
- Accepts all M12™ and M18™ Battery Packs, minimizing the
- Charger communicates with battery pack to manage : Individ-
- Compatible with M12™ and M18™ battery packs 1.5 Ah and

#### Specifications

Battery voltage	12 / 18 V
Battery type	1.5 / 3.0 Ah Red Lithium-Ion
Charge time	30 / 60 minutes
Dimension (L x W x H)	145 x 175 x 75 mm
Weight	700 gram



Item Code	Item Name	MoQ
234.22.006	Charger C1418	1 Pc



## Chisels

- Every chisel comes with 150 years experience in manufacturing expertise, we know what it takes to make the best chisel. A high quality chisel needs to withstand the daily routine of breaking and demolition on the worksite, this demands a chisel with a low wear rate, impact strength and elasticity to have a low risk of breaking
- With these objectives in mind great attention is placed on sourcing the correct raw materials and to use the most up to date manufacturing techniques
- For the base material a specifically defined alloy steel is chosen, then each chisel is crafted individually through the production process of forging, sharpening, hardening, tempering and finishing
- The chisels are precision formed using traditional forging skills coupled with sophisticated machinery for the specific tip design
- The heat treatment process is totally enclosed and computer controlled ensuring consistent results, this guarantees that the complete chisel is hardened throughout to 55 HRC. The tempering operation creates a uniform hardened surface across the complete chisel to give it impact strength, more wear resistance and the required elasticity
- The chisels then go through the final finishing process which gives the chisel a smooth grain flow surface and a special corrosion resistant treatment
- Finally for identification purposes the Milwaukee logo is laser marked on the chisel
- To achieve long service life all our chisels can be re-sharpened time and time again
- These chisels stand for 100% quality – Made in Germany



### Picture Description :

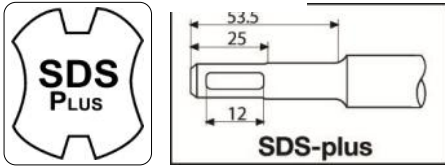
1. Convex angle designed tip for better penetration less binding and easier re-sharpening.
2. A strong and shock absorbing body made from premium quality alloy steel.
3. The reception is machined to precise tolerances ensuring less wear on the chisel and power tool.
4. Chamfered ends to prevent cracking and fractures.
5. The striking end is machined flat so that 100% of the blow energy is transferred to the tip.

### Maintenance Tips :

1. Grease the reception regularly.
2. Keep receptions clean from dust.
3. Do not exert excessive side pressure on the chisel. Do not use as a crowbar.

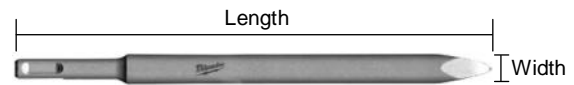


## SDS - Plus Chisels



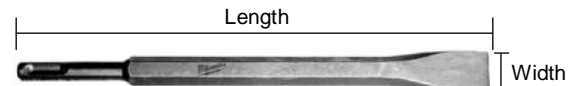
### SDS - Plus Pointed Chisel

Specifications	
Length	250 mm
Width	-
MoQ	1 Pc



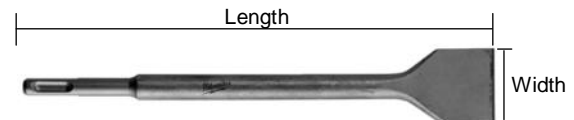
### SDS - Plus Flat Chisel

Specifications	
Length	250 mm
Width	20 mm
MoQ	1 Pc



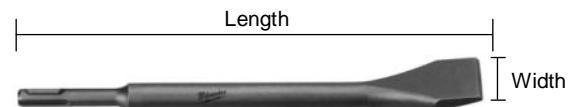
### SDS - Plus Wide Chisel

Specifications	
Length	250 mm
Width	40 mm
MoQ	1 Pc



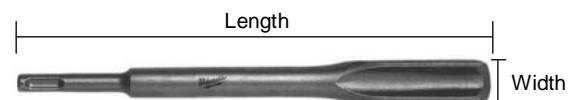
### SDS - Plus Tile Removal Chisel

Specifications	
Length	250 mm
Width	40 mm
MoQ	1 Pc



### SDS - Plus Gouge Chisel

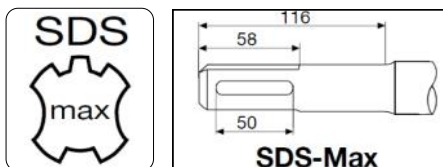
Specifications	
Length	250 mm
Width	40 mm
MoQ	1 Pc



Item Code	Item Name	MoQ
234.24.001	SDS - Plus Pointed Chisel	1 Pc
234.24.002	SDS - Plus Flat Chisel	1 Pc
234.24.003	SDS - Plus Wide Chisel	1 Pc
234.24.004	SDS - Plus Tile Removal Chisel	1 Pc
234.24.005	SDS - Plus Gouge Chisel	1 Pc



## SDS - Max Chisels

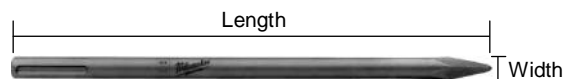


### SDS - Max Pointed Chisel

Ideal for a wide range of breaking and demolition work of concrete or breeze block

#### Specifications

Length	400 mm
Width	-
MoQ	1 Pc

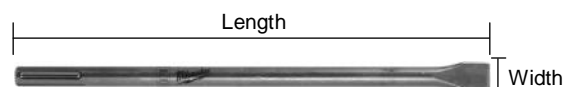


### SDS - Max Flat Chisel

Ideal for a wide range of breaking and cutting of concrete as well as demolition work

#### Specifications

Length	280 mm
Width	25 mm
MoQ	1 Pc



Item Code	Item Name	MoQ
234.24.006	SDS - Max Pointed Chisel 400 mm	1 Pc
234.24.008	SDS - Max Flat Chisel 280 x 25 mm	1 Pc



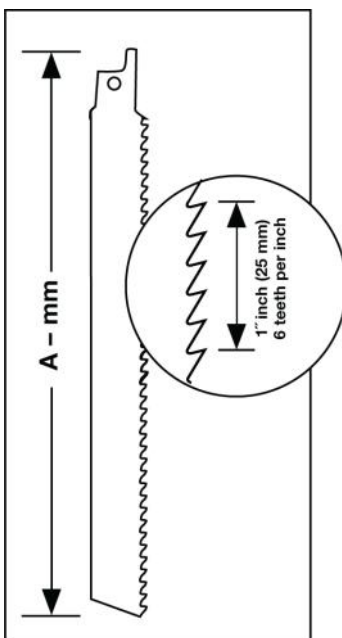
## Hackzall and Sawzall Blades

### Material Qualities Bi-Metal, Cobalt 8% (HSS M42)

- Bi-Metal blade with 8% cobalt. With premium Matrix II steel cutting teeth (with 8% cobalt content), the ultimate in performance and lifetime
- Bi-Metal blades consist of a hardened high speed steel cutting edge electron-beam welded onto a flexible alloy steel back
- Bi-Metal blades are tougher, flexible reducing breakages, faster cutting and last longer than conventional carbon and all high speed steel blades
- Those blades with cobalt have even harder teeth and offer double the lifetime in metal cutting applications and five times the lifetime over conventional high carbon steel blades

### Tooth Geometry

To attain the correct blade length, it is necessary to take the width of material to be cut and add an extra 80 mm. Selecting the correct tooth pitch for the material being cut is dependent on the thickness of the material being cut, this is extremely important when cutting metals to ensure the blade is used to its optimum performance. The golden rule is to have three teeth in contact with the material being cut at all times. When cutting wood the higher the tooth per inch the smoother and more fine the cut will be.








For cutting metal the following table can be used for guidance.

Material – All metals – Tubing / profiles / channels	TPI
Wall thickness 4.5 mm to 10 mm	14
Wall thickness 3.0 mm to 4.5 mm	18
Wall thickness less than 3 mm (thin materials)	24








### Cut Cool - Cut Faster - Cut Longer

To ensure longer life, it is recommended to use a cooling lubricant, which can result in extending the life of the saw blade by up to 500 %

Material	Coolant
 Cu / Nu / Ms / Zn / - Metal - Stainless	Cutting Oil
 Aluminum	Turpentine
 Pipe Tube	Compressed Air
 PVC Material	Water
 Wood	Dry

### Cutting Speed Recommendation

The following table can be used as a rough guide, however the material wall thickness must also be considered when deciding on the correct speed.

Material	Max. Stroke per minute (SPM)
 Metal Less than 600 N/mm <sup>2</sup>	2000
 Metal Between 600 N/mm <sup>2</sup> - 800 N/mm <sup>2</sup>	1500
 Metal - Stainless Over 800 N/mm <sup>2</sup>	500
 Aluminum	1500
 Pipe Tube	1000
 PVC Material	500
 Wood	2000 - 2800





## Sawzall Blade "The Ax" Package



### Advantageous

- The Ax Sawzall® blades have been engineered to deliver the fastest cuts, longest life, greatest tooth durability and quickest plunge cuts of any wood demolition blade on the market
- NAIL GUARD™, protects the tooth during nail impacts for increase durability and lifetime
- FANG TIP™ for faster plunge cutting and reaching into restricted areas
- Strong, extra thick 1.60 mm body for maximum robustness and life making it ideal for wood with nails or bolts
- Fast, aggressive 5 TPI tooth geometry removes more material per stroke for faster cutting
- Sloped shape, excellent for plunge cutting and reaching into restricted areas
- Shatter resistant, Bi-Metal constructions allows the blade to bend and flex without breaking



NAIL GUARD™

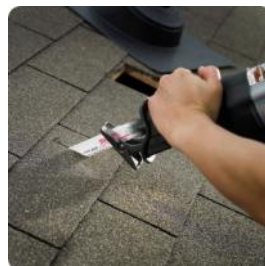
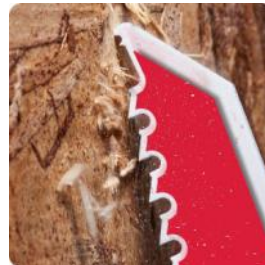


FANG TIP™

Specifications		
Blade Length	150 mm	230 mm
Shank	1/2 inch Universal	1/2 inch Universal
Tooth per Inch	5 TPI	5 TPI
Package Quantity	5 Pcs	5 Pcs

Cutting Material Thickness			
	Wood	10 - 100 mm	10 - 175 mm
	Wood with Nails / Bolts	10 - 100 mm	10 - 175 mm
	PVC Pipes	Ø 10 - 100 mm	Ø 10 - 175 mm
	PVC	10 - 50 mm	10 - 50 mm

Item Code	Item Name	MoQ
234.25.002	Sawzall Blade "The Ax" - 5 TPI - 150 mm	1 Set
234.25.003	Sawzall Blade "The Ax" - 5 TPI - 230 mm	1 Set





## Sawzall Blade "The Torch" Package



### Advantageous

- The Torch delivers exceptional durability and straighter cuts in pipe, conduit, strut and other metal materials
- A unique combination of relief angles forms a radius on the back of the tooth that reduces stress build-up during cutting and substantially extends blade life
- A precise manufacturing process creates a sharper cutting edge on each tooth for a faster cutting blade
- Strong, robust 1.06 mm thick body
- Shatter resistant, the Bi-Metal blade body will bend and flex but not break
- Thick 1.06 mm robust blade body for precise cuts in sheet metal and pipes
- 25 mm blade height for improved stability and minimum vibration

### Specifications

Blade length	230 mm
Shank	1/2 inch Universal
Tooth per inch	14 TPI
MoQ	5 Pcs

### Cutting Material Thickness

Metal	3 - 10 mm
Metal Pipes	Ø 10 - 160 mm
Cu / Ni / Ms / Zn	3 - 10 mm
Stainless	3 - 7 mm

Item Code	Item Name	MoQ
234.25.005	Sawzall Blades "The Torch - 14 TPI - 230 mm	1 Set





## Hackzall Blade - Grout and Scraper



### Advantageous

- For removing damaged or molded grout between tiles

### Specifications

Blade length	60 mm
MoQ	1 Pc



### Advantageous

- For removing glue, silicon and caulk

### Specifications

Blade length	75 mm
MoQ	1 Pc



Item Code	Item Name	MoQ
234.25.013	Grout Removal Blade - 60 mm	1 Pc
234.25.012	The Scraper Blade - 75 mm	1 Pc

**NOTES**

**M12 Bandsaw Blades**



**Advantageous**

- Bi-Metal blades with matrix II high speed steel teeth with 8% cobalt outlast conventional blades up to 3 times, requiring fewer blade changes
- Extremely hard and uniform tooth point is electron beam welded to a tough durable backing with high flex life for faster cutting and longer blade life
- High speed cutting of aluminum, angle iron, bronze, brass, copper, galvanized pipe, mild steel
- Tougher steels including stainless, chrome, tungsten steel plus other problem materials at slow speed

**M12 Cordless Bandsaw Blade**

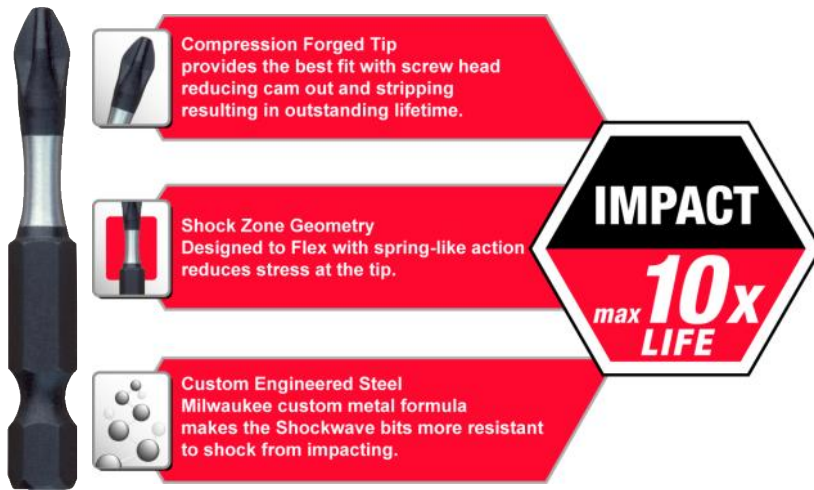
Specifications	
Blade length	685 mm
Material wall thickness	4 to 5 mm
Tooth per inch	18 TPI
MoQ	3 Pcs



Item Code	Item Name	MoQ
234.03.004	M12 Bandsaw Blade, 18 TPI	1 Set

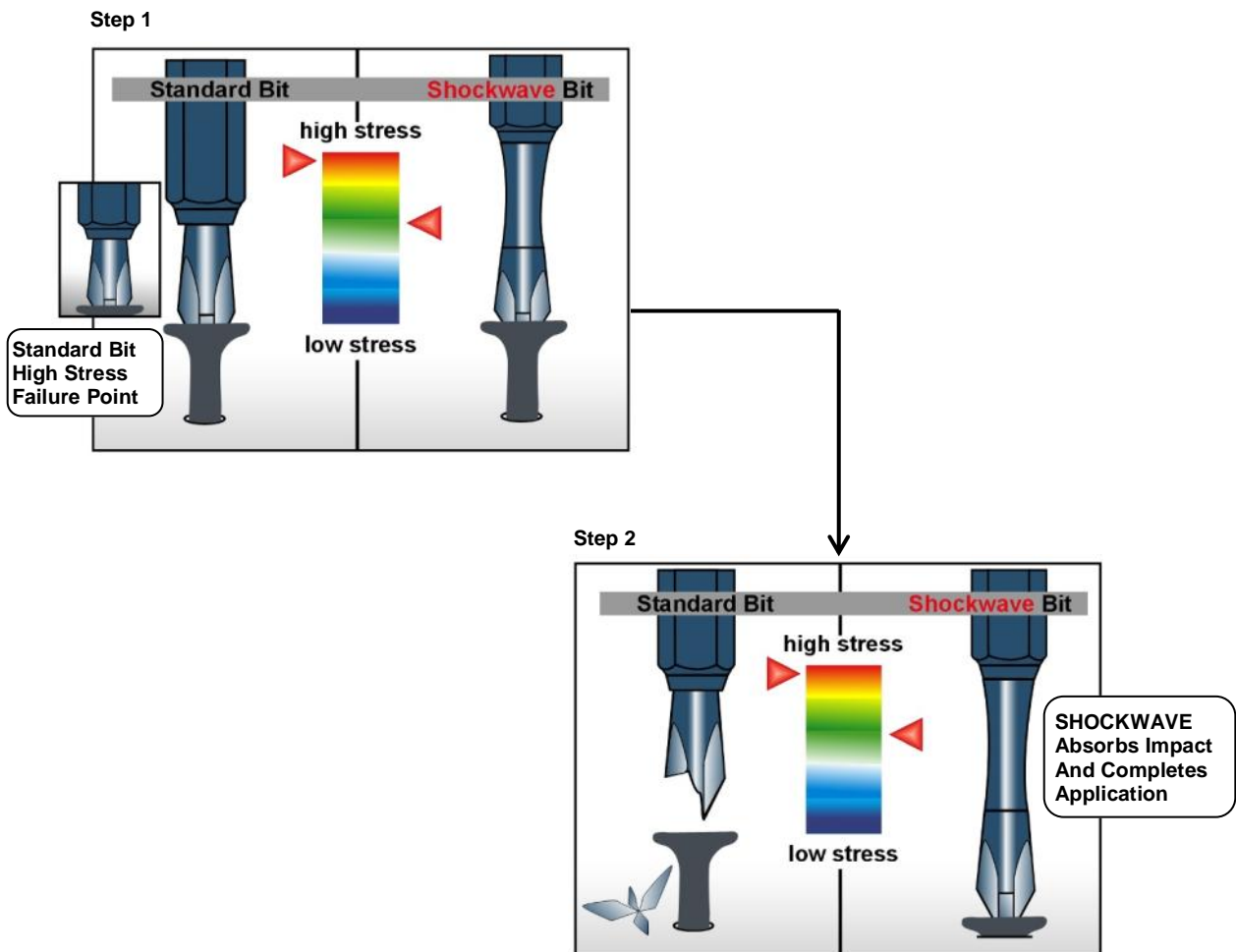


## Shockwave - Screwdriving Bits



**Shock Zone** reduces stress at the tip resulting in less tip breakages.  
The combination of the Shock Zone design and special heat treatment absorbs  
impacts and allows the bit to flex with spring like action.

### IMPACT DRIVING STRESS COMPARISON Standard Bit VS Shockwave™ Bit





## Shockwave - Screwdriving Bits



### Advantageous

Designed for use with Impact Drivers the Shockwave Impact Duty™ accessory line is not only ideal for heavy duty impact applications, but also delivers a full system solution for all the user's drilling and fastening needs.

### “Phillips” Screwdriving Bits

Specifications			
Size	PH 1	PH 2	PH 3
Length	25 mm	25 mm	25 mm
MoQ	2 Pcs	2 Pcs	2 Pcs



### “Torx” Screwdriving Bits

Specifications				
Size	TX 15	TX 20	TX 25	TX 30
Length	25 mm	25 mm	25 mm	25 mm
MoQ	2 Pcs	2 Pcs	2 Pcs	2 Pcs



### “Slotted” Screwdriving Bits

Specifications			
Size	SL 0.6 x 4.5	SL 0.8 x 5.5	SL 1.2 x 6.5
Length	25 mm	25 mm	25 mm
MoQ	2 Pcs	2 Pcs	2 Pcs



Item Code	Item Name	MoQ
234.26.001	Shockwave "Phillips" Screwdriving Bits - PH 1 - 25 mm	2 Pcs
234.26.002	Shockwave "Phillips" Screwdriving Bits - PH 2 - 25 mm	2 Pcs
234.26.003	Shockwave "Phillips" Screwdriving Bits - PH 3 - 25 mm	2 Pcs
234.26.004	Shockwave "Torx" Screwdriving Bits - TX 15 - 25 mm	2 Pcs
234.26.005	Shockwave "Torx" Screwdriving Bits - TX 20 - 25 mm	2 Pcs
234.26.006	Shockwave "Torx" Screwdriving Bits - TX 25 - 25 mm	2 Pcs
234.26.007	Shockwave "Torx" Screwdriving Bits - TX 30 - 25 mm	2 Pcs
234.26.008	Shockwave "Slotted" Screwdriving Bits - SL 0.6 X 4.5 - 25 mm	2 Pcs
234.26.009	Shockwave "Slotted" Screwdriving Bits - SL 0.8 X 5.5 - 25 mm	2 Pcs
234.26.010	Shockwave "Slotted" Screwdriving Bits - SL 1.2 X 6.5 - 25 mm	2 Pcs





## Shockwave - Magnetic Bit Holder Magnetic Nut Driver & Socket Adaptor

### Magnetic Bit Holder

#### Advantageous

- Custom engineered steel and heat treatment for maximum strength and flexibility
- Solid construction withstands abuse in impact applications
- Strong magnetic tip for secure grip

#### Specifications

Type	Magnetic bit holder with 1/4" Hex reception
Length	60 mm
MoQ	1 Pc



### Magnetic Nut Driver

#### Advantageous

- Custom engineered steel and heat treatment for maximum strength and flexibility
- Strong magnetic tip for secure grip
- Reception : 1/4" Hex
- Very suitable for high torque and impact applications

#### Specifications

Size	For anchor rod thread size	Length	MoQ
5.5 mm	M 3	65 mm	1 Pc
6.0 mm	M 3.5	65 mm	1 Pc
7.0 mm	M 4	65 mm	1 Pc
8.0 mm	M 5	65 mm	1 Pc
10.0 mm	M 6	65 mm	1 Pc
12.0 mm	M 7	65 mm	1 Pc
13.0 mm	M 8	65 mm	1 Pc
17.0 mm	M 10	65 mm	1 Pc



### Socket Adaptor

#### Specifications

Type	1/4" hex to 1/4" square drive
Length	50 mm
MoQ	1 Pc

#### Specifications

Type	1/4" hex to 1/2" square drive
Length	50 mm
MoQ	1 Pc



Item Code	Item Name	MoQ
234.26.011	Shockwave Magnetic Bit Holder - 1/4" Hex - 60 mm	1 Pc
234.26.014	Magnetic Nut Driver 5.5 mm - M 3, 65 mm	
234.26.015	Magnetic Nut Driver 6.0 mm - M 3.5, 65 mm	
234.26.016	Magnetic Nut Driver 7.0 mm - M 4, 65 mm	
234.26.017	Magnetic Nut Driver 8.0 mm - M 5, 65 mm	
234.26.018	Magnetic Nut Driver 10 mm - M 6, 65 mm	
234.26.019	Magnetic Nut Driver 12 mm - M 7, 65 mm	
234.26.020	Magnetic Nut Driver 13 mm - M8, 65 mm	
234.26.021	Magnetic Nut Driver 17 mm - M10, 65 mm	
234.26.012	Shockwave Socket Adaptor - 1/4" Hex to 1/4" Square Drive - 50 mm	
234.26.013	Shockwave Socket Adaptor - 1/4" Hex to 1/2" Square Drive - 50 mm	



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Panel & Hand Tools Division : pht@bumi.info  
Welding Machine Division : welding.machine@bumi.info  
Welding Accessories Division : welding.accessories@bumi.info  
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