

INDIVIDUAL SOLUTIONS
FOR THE INDUSTRY



"Our experience works for you."

"We at Metabo know that machines reach their limits every day. Therefore we have developed our products for hard industrial use: high productivity, extreme robustness & reliable safety make our machines reliable partners.

Whatever you need to do, you will always receive a strong system solution: powerful tools, precisely matched accessories and service customised to your requirements. Its our job to make your job easier, so trust in Metabo!

Horst W. Garbrecht, Metabo CEO



"18 hours in one go – Metabo tools digest this much easier. Quality pays."

"We put angle grinders to an endurance test practically every day. In the production of steel and fabrication things become serious for tools. If such a tool processes weld seams in 3-shift operation for 17 or 18 hours without interruption you quickly notice how much it can really endure."

Ullrich Herzog Maintenance Züblin Stahlbau GmbH, Hosena

"Safety for the staff means safety for the company. This is why this topic is of utmost importance to us."

"When it comes to safety, there is no discussion for us: It has to be right at least one hundred percent, better five hundred percent, for we have a clear responsibility for the health of our staff. In addition: If we offer the best possible protection to our staff, we naturally also protect our company in purely economic terms as we minimise losses. Therefore if somebody can offer us more safety functions for tools than the standard and in addition a good overall package, they will be our first choice."

Dipl.-Ing. Jürgen Klemke, Manager Site Service Doppstadt Calbe GmbH, Calbe (Saale)

"More than a year in use and we had to change only a few carbon brushes."

"Sometimes I can hardly believe it myself: For more than a year we have been putting Metabo angle grinders to hard use - and all we had to change so far were a few carbon brushes! Only top quality can be that tough: For me there is no better price-performance ratio!"

Andre Jacobs, Managing Director Hire it, Maitland (South Africa)

"The reliability and service life of Metabo tools surpasses all our expectations."

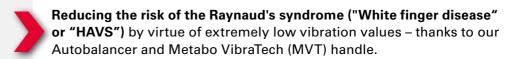
"We are a leading manufacturer for prefabricated steel constructions in the Middle East and use the Metabo grinders for medium to hard production processes. Regarding reliability and service life, the performance of these devices surpasses all our expectations. Furthermore these tools require only minimum maintenance."

Deepak Jaiswar, Zamil Steel, Manufacturer for prefabricated constructions (Saudi Arabia)

Productivity is given, if everything goes right in the end

We would like that every Metabo tool ensures the best possible work result with maximum performance at the best cost in your company. Our tools achieve this by the successful combination of above-average capacity, reliability and durability: three decisive factors that ensure highest productivity and efficiency in hard industrial use.

Reduction of injury & illness





as partly vibration thresholds of 5 m/sec² are clearly undercut – thanks to the same Autobalancer and Metabo Vibra-Tech (MVT) handle technology.





Time gained by more efficient working

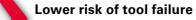
Work up to 75 percent longer without having to charge or change your battery (compared to standard 3.0 Ah battery packs) – thanks to 5.2 Ah battery and Metabo Ultra-M-Technology.





Cost saving by less frequent new machine and accessory purchases Extremely long service life and long service intervals thanks to long-life carbon brushes.

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thanks to Metabo Marathon motor with excellent overload protection.



thanks to precise coordination of machine and cutting and/or grinding



Great robustness: The most important thing if tools are in a tough environment

We would like that every Metabo tool ensures the best possible results with maximum performance and which the best cost effectiveness for your company. Our tools achieve this by the successful combination of above-average capacity, reliability and durability: three decisive factors that ensure highest productivity and efficiency in hard industrial use.

Process safety thanks to reliable tools

Long service life of bearings and carbon brushes by virtue of the Autobalancer that minimises vibrations.

Long service life of the products

by virtue of extremely robust Metabo Marathon motor with dust-repellent coil guard.

Longer service life of the grinding accessories thanks to minimal vibrations, thus less and more uniform wear.



Cost savings thanks to long service life

75% longer service life of the Metabo 5.2 Ah battery packs (compared to standard 3.0 Ah battery packs) thanks to the same number of possible charging cycles with higher capacity.

Longer service life due to gentle charging and decharging thanks to Metabo Ultra-M technology

Ideal synchronisation and perfect communication between machine, battery pack and charger.

Up to 5 times longer service intervals thanks to extremely robust Metabo Marathon motor with dust-repellent coil guard.





Maximum stability

Optimum heat dissipation and maximum stability thanks to die cast aluminium gear housing and precision metal gearbox.





More safety for your staff

The harder the job, the more important it is to offer best possible protection for the user of power tools. Metabo machines for industrial applications fully meet all relevant specifications. Additionally they protect the user by virtue of innovative, partly patented safety systems from accidents and guard him from dangerous symptoms of fatigue or illness.

Protection of the employees and prevention of lost productivity

Highest level of safety

The Protect safety switch (dead man switch) ensures immediate shutdown of the machine when the switch is released and provides safety shut off capability in case of temporary power cut.

Minimising the Raynaud's syndrome

("White finger disease") by virtue of extremely low vibration values – thanks to Autobalancer and Metabo VibraTech (MVT) handle.

Safe depositing of the tool

with Metabo disc brake - stops the disc within 2 seconds meaning its stopped before it reaches the ground or workbench.



Reverse protection

by virtue of Metabo S-automatic torque limiting clutch: to limit any sudden reverse torque that can occur if tools jam or get caught.

Protection from injuries

thanks to no-volt release switch after power cut and twist-proof and slip-proof side handle.





Reliable safety solutions

Highest level of safety at work

thanks to a strong switchable permanent magnet that is independent from the power supply.

Safety belt

protects the tool from falling – ideal for applications at vertical and sloping surfaces.





Metabo services that make more things possible

Power tools and accessories for industrial applications are best suited if they are part of a useful overall solution. This is why we are offering comprehensive services perfectly adapted to your individual requirements. Even if you have very particular requirements, we will find a way: in an uncomplicated, flexible and reliable manner.

The best basis for your decision

Individual application analysis

Talk with us about your requirements. We would be pleased to offer you advice. Together with our trading partners we can carry out application analyses onsite with an objective to increase your productivity.

Would you like to experience Metabo tools live in action? Our demonstration team will gladly visit you at your premises and present our solutions for your application.



Tools and accessories for testing

Would you like to put our tools in practice to the acid test yourself and learn about the advantages of our products and accessory solutions? We would be pleased to provide a test package of machine and accessories, designed to your requirements.

Medium-sized flexible

Individual product and system solutions

Whether individual product solutions or services: We offer experienced support contacts. Talk to us about your requirements - we will find an individual solution for your company.

Do your angle grinders require, for example, a longer mains cable to increase your range of action?

Do you need different cable qualities or plug solutions for your applications? Do you maybe need additional electrical safety by means of an operator protection circuit breaker integrated in the cable?



Would you like to have an individual scope of delivery by, for example, doing without cases or battery packs or chargers for your tools?

In order to ensure your process safety we are also able to offer individual services. Talk to our specialists - partners can find a solution for nearly everything.

Metabo services all about maintenance and repair

Repair in the customer's workshop

Spare part express service



In case you carry out the repairs at your premises, you will get any Metabo spare parts via our express service. This enables reliable planning and your tool is quickly repaired and ready again for

8 years components warranty



We guarantee that we will be able to supply spare parts for your tool up to 8 years after the discontinuation of production.

Service training courses



We offer intensive and comprehensive training in terms of repairs and servicing for your staff either at your premises or at our headquarters in Nürtingen. This will save you time and effort in your daily work in case inspections or repairs are required.

Repair by Metabo

Online service portal www.metabo-service.com



At www.metabo-service.com you can use all offers and services of our online service portal. Here you will also find spare part lists apart from user manuals. Just a few clicks and you can find out the article number for the spare parts you require.

8 years components warranty



We guarantee that we will be able to supply spare parts for your tool up to 8 years after the discontinuation of production of a model.

Express repairs service



For example: Tool cleaning

When cleaning tools, we carefully remove the metal dust that has collected in your Metabo tool. Additionally we carry out a mechanical and electrical inspection of the functions and an electrical safety check in accordance with BGV A3.

For example: Minor repairs

Here we replace, if required, defective cables and carbon brushes and subsequently carry out a mechanical and electrical inspection of the functions and an electrical safety check in accordance with BGV A3. This includes cleaning your tool.

For example: Fixed price repairs

The repairs service at a fair fixed price* offers you particularly easy and quick processing. Repairs, spare parts, cleaning of the tool, new lubrication, functional test and electrical safety check are included.

* Price depends on tool type in accordance with current valid price list; tools have to be repairable and subject to servicing.

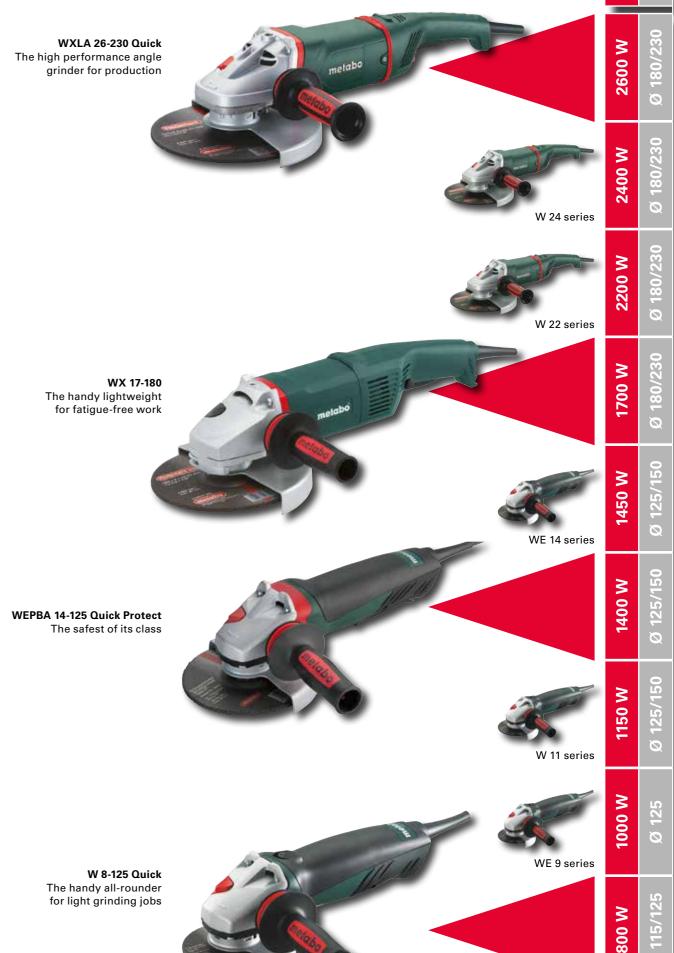
For example: Safety check in accordance with BGV A3

We offer a mechanical and electrical functional test and a safety check in accordance with BGV A3.









Metabo Angle Grinder Impressive benefits

Whether cutting, roughing or grinding: Angle grinders are generally under extreme stress in heavy industrial use.

In order to maintain the efficiency of tools, accessories and users, we put our tools hard to the test and equip them with innovative and patented safety systems. This is why they do not only stand for reliability and long service life, but they also protect your staff from symptoms of fatigue or illness like e.g. the Raynaud's syndrome.

We are just as uncompromising when it comes to accessories. Our cutting and grinding discs are developed and produced according to our own compound design and Metabo specifications.



Productivity



Reduced disc wear thanks to integrated Autobalancer.

The Auto Balancer system reduces your cost and increases your productivity thanks to reduced disc consumption. Unbalances of grinding discs are almost eliminated by means

of counter weights in the Auto Balancer and thus reduce excessive breakage of the grinding grains.



High cutting output by virtue of Metabo TC full wave electronics.

The speed automatically remains constant under load, thus material removal remains constantly high even when the machine is put under high working pressure from the operator.



Less down times thanks to Metabo "Quick tool quick change"

The Metabo Quick System permits faster working particularly when the worker has to make frequent disc changes! Thanks to the Metabo Quick

Nut no pin-spanner is required as the operator can loosen the nut by pressing in the spindle lock and making a half turn with the disc.

Robustness



Extremely durable thanks to Metabo Marathon motor with coil guard.

The patented winding protection guard guarantees a long service life particularly in dusty environments.



Longer service life thanks to integrated Autobalancer.

Any imbalance is almost eliminated by means of counterbalances in the Auto Balancer, vibrations on other machine parts are reduced, and wear of gear and bearing is minimised.



Particularly durable due to overload protection.

In case of excessive load, imminent overheating is detected, the power input reduced and the motor protected.

Safety



Stops within 2 seconds by means of the Metabo disc

brake and protect safety switch (dead man switch). The Metabo disc brake and the protect safety switch reduce the risk of injury. Should anything unexpected happen during grinding, the machine safely switches off as soon as the switch is released. The Metabo disc brake then kicks in and stops the cutting or grinding disk in less than 2 seconds.



The Metabo S-automatic torque limiting clutch maintains your safety.

If the disc jams, the mechanic clutch system decouples the motor directly from the gear without delay, and prevents any kick back from the machine.



STOP KICK-BACK

The Autobalancer protects you from symptoms of fatigue and related illness.

The Auto Balancer system and the Metabo VibraTech (MVT) handle help protect your health by strongly reducing the vibrations for both hands. Imbalances are almost eliminated thanks to counter weights in the Auto Balancer and vibrations are further reduced via the MVT handle.

Further benefits of the Metabo angle grinders

Productivity

The Autobalancer

It increases the life of grinding discs by 30 to 50 percent, for cutting discs up to twice the service life (image 1). Working time is therefore increased thanks to the low vibration values.

Metabo Vario-Tacho-Constamatic (VTC) and Tacho-Constamatic (TC) electronics

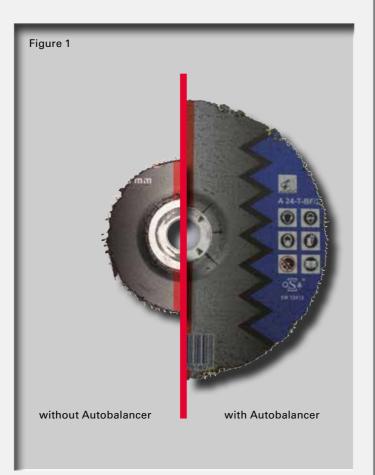
The Metabo VTC and TC full wave electronics increase your working productivity even with different applications. The speed can be adjusted for the application or the accessory, and because of the constamatic 'C' electronics the speed remains stable even under high working pressure.

Tool-free adjustable guard

It permits a quick adjustment of the guard to every grinding or cutting position. The notched adjustment fixes the guard in place even if a disc bursts, and consequently reduces the risk of accidents.

Extremely robust and precise cutting and grinding discs

The development parameters of our cutting and grinding discs for use with Metabo angle grinders are defined in accordance with our internal guidelines and empirical values and implemented consequently. Only such an approach permits the achievement of optimum cutting and grinding results and thus a sustainable increase in productivity.





Robustness

The Metabo Marathon motor

In order to improve the robustness of our motors we carry out intensive endurance tests in dust chambers. A coil guard protects the motor from abrasive dusts - for an extremely high service life of the motor (image 2).

Auto-stop carbon brushes

They increase the service life of your angle grinder and lower service costs. When the carbon brushes come to the end of their useful life the motor switches off automatically. This prevents the end of the carbon brush from entering the motor chamber and causing damage to the machine.

Extra long-life carbon brush system

It has a lower wear rate than a normal carbon brush set up so the need for servicing of the gear unit is reduced. These carbon brushes have a service life that is 50% longer than a standard brush, and consequently they have to be replaced less often. This increases the operating life of the tool between services.

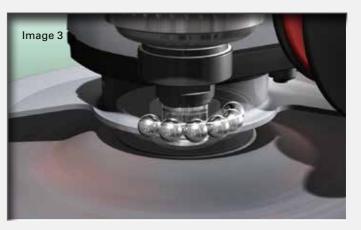
Die Cast Aluminium Gear Housing

It increases the service life of the machine. The machine is more robust and dissipates heat faster which in turn reduces potential harm to the machine.

The Autobalancer

It significantly reduces the vibrations as the balls within the bearing act as counterbalance weights. Furthermore, the Autobalancer ensures a longer service life of the tool and the accessories (image 3).





Safety

The rotatable handle

It ensures a safe application for all cutting and grinding jobs (image 4).

No-volt release switch

It reduces the risk of accidents in case of a power-cut or if somebody removes then reinserts the plug into the power supply with the switch still on. If the power supply is interrupted and restored the angle grinder has to be manually switched off and switched on again in order for it to working again. The result? No unintentional start up.

Soft start

It helps protect you from accidents on start up. It gives you greater control over the angle grinder thanks to the reduced kick-back on start up.



- moreover it protects the safety of your employees.

High speed stability, uniform cutting output and perfect surface finishes: Metabo die grinders for

industrial use are not only the first choice when it comes to performance and results, but also regarding safety and robustness. This makes Metabo die grinders extremely reliable and durable



The high torque, low speed cordless specialist for surface processing

GE 950 G Plus

The high torque, low speed specialist with spindle lock for single tool bit release

metabo

The all-rounder with wide range of speeds

from 10,000 to 30,500 r/pm

Safety



High protection with electronic safety shutdown.

The electronic safety shutdown prevents kick back and thus reduces the risk of occupational accidents and injuries.

Improved safety with no-volt release switch.

The no-volt release switch lowers the accident risk after power-cuts as the switched on machine does not start up automatically once the power is restored.

No fatigue in hands and arms thanks to slim housing. The optimum ergonomics of the slim housing prevent symptoms of fatigue.

Productivity



Uniform cutting output by virtue of planetary gear train

The mechanically reduced planetary gear train in connection with VC full wave electronics not only offers you the highest torque on the market, but it also keeps the speed constant. This

ensures a uniform cutting output even at lower speeds.

Perfect finish results thanks to optimum speeds.

Particularly when processing stainless steel, the optimum speeds ensure perfect finishes. Even colour runs can be avoided like this.

Easy tool change with unique spindle lock.

You can change the tool being used very comfortably by pressing a button to lock the spindle rather than the need for a second wrench.

Robustness



Extremely durable thanks to Metabo Marathon motor with coil guard.

A coil guard makes the Metabo Marathon motor insensitive to the abrasive effects of dust. This, together with all other components, ensures an extremely high motor service life.

Higher service life thanks to auto-stop carbon brushes

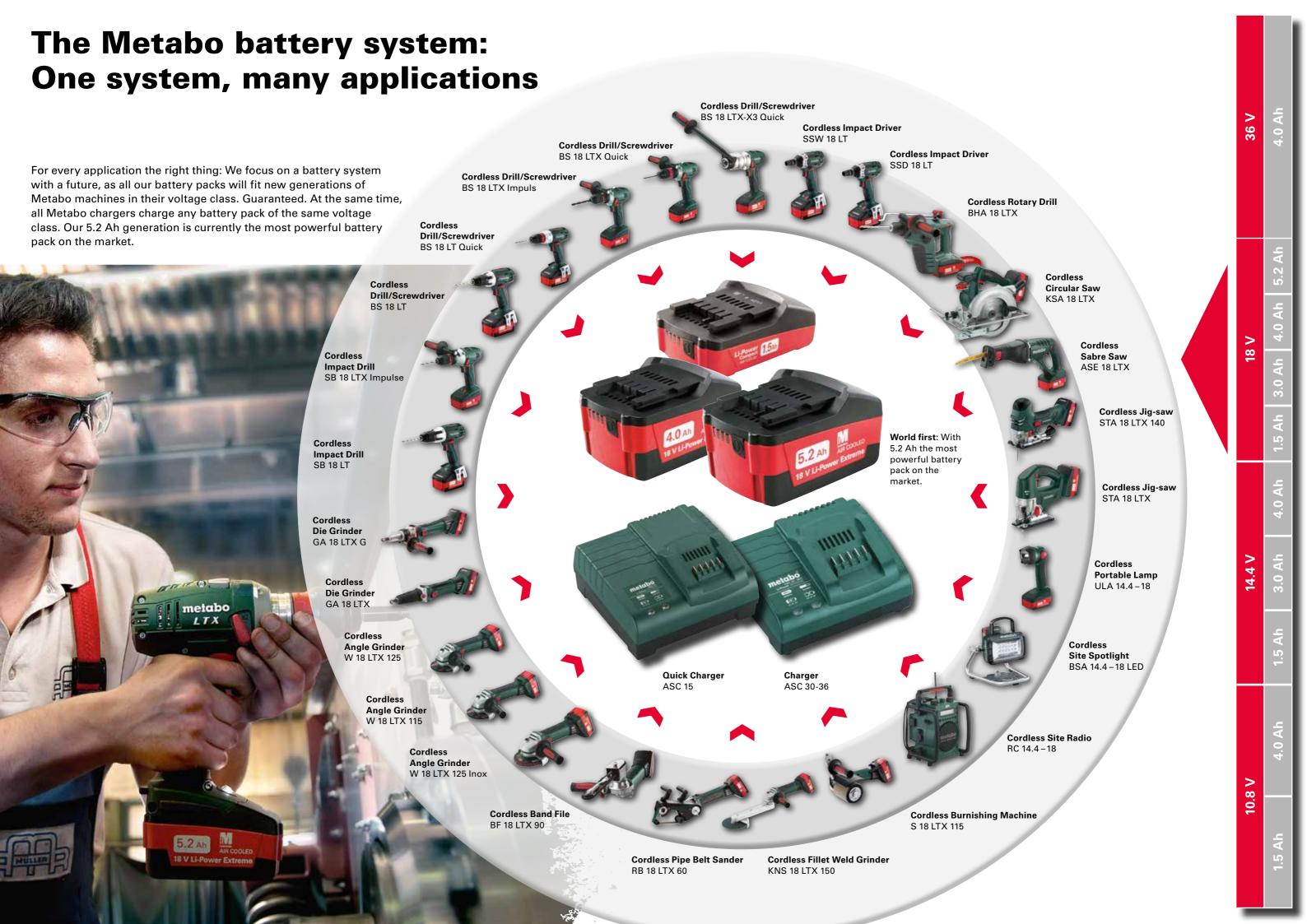
The auto-stop carbon brushes increase the service life of your die grinder. The timely shutdown is gentle on the motor as no worn carbon brushes can destroy the collector.

Optimum cooling by means of the ventilation slots at

The ventilation slots of the Metabo die grinders are at the rear. This prevents the user from inadvertently covering them with their hands when working. This ensures optimum cooling at all times.



GE 710 Compact The compact power pack.



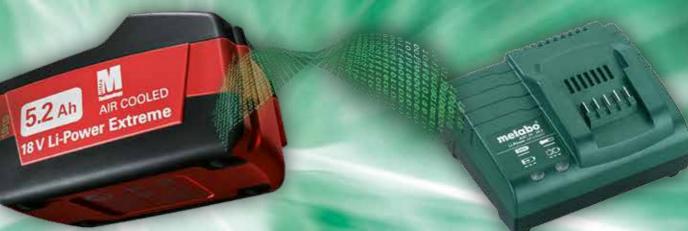
The Metabo battery system: Considerable advantages thanks to Ultra-M technology

The Ultra-M Technology stands for the ideal synchronisation and perfect communication between machines, battery pack and charger. Such efficiencies give you many working advantages in your tough industrial routine.

The battery pack is always loaded efficiently and gently and the energy is used to an optimum. This increases the service life of the battery pack.







Productivity



Maximum stamina thanks to the world's first battery pack with 5.2 Ah. Compared to the 3.0 Ah battery pack you can work up to 75% longer without having to recharge! Often this is enough for more than a working day and you gain even more independence

from a mains powered alternative.

First class results thanks to optimum coordination.

The Ultra-M Technology stands for the ideal synchronisation and perfect communication between machine, battery pack and charger. The intelligent battery management system saves all relevant information in the micro-chip of the battery pack. This then communicates with the electronics of the machine and the charger and ensures optimum utilisation of energy when working.

Comfortable working thanks to compact 5.2 Ah battery

The new 5.2 Ah battery pack, compared to the 3.0 Ah battery pack, did not become a single gramme heavier and nor a millimetre larger - more endurance with the same comfort.

Robustness



Excellent flexibility thanks to high resistance against cold and heat. A fully charged battery pack delivers 100% power from -15° to +50° Celsius. Work is possible even in extreme temperatures.

Perfect protection thanks to Electronic Single Cell Protection (ESCP).

ESCP protects each and every battery cell from deep discharge and overcharging - for an extremely long battery life.

Excellent cooling with patented AIR COOLED charging technology.

The battery pack is cooled in the charger with air – for shorter charging time and longer service life.

Safety



High investment security thanks to 100% compatibility.

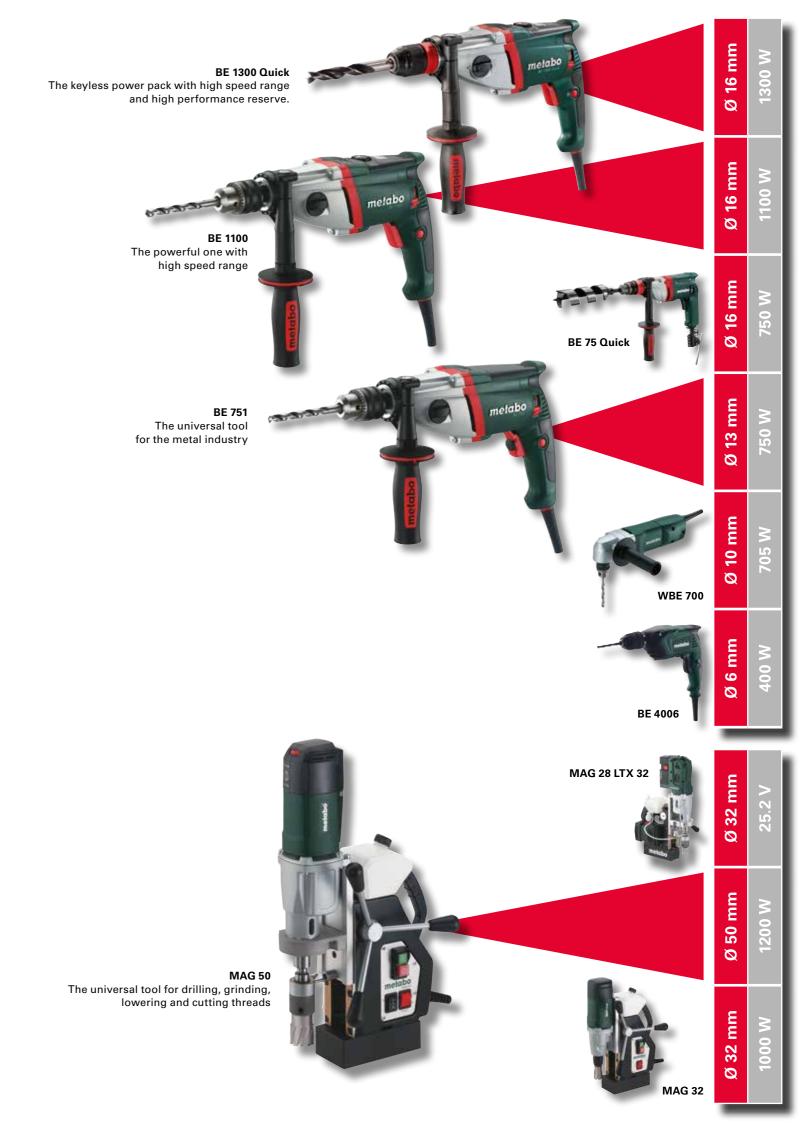
The Metabo battery system offers you a wide range of high quality, performance-optimised products that are not only compatible with each other today, but will remain compatible

tomorrow as well. The 5.2 Ah battery pack fits in all current and future 18 Volt machines and chargers.

The Metabo range of drills: Always a bit better

Our name has always been of central importance: The hand drill constructed in 1924, called Metallbohrdreher (metal drill), and gave the company its name. Since then we have shaped the drill market with many innovations, for example the world's first series production of impact drills. This tradition defines our ambition: Metabo is always a bit better. Metabo offers for all your requirements always the right tool with perfect matching accessories.





The Metabo drills: **Clear benefits**

We have equipped every machine of our wide product range with benefits adapted to its industrial requirements, such as the Metabo Marathon motor for a long service life, auto-stop carbon brushes, Metabo Quick tool change system or speed selection. You will get exactly what you need: Robust drills for optimum productivity with maximum safety.

BE 1300 Quick **Safety** The Metabo S-automatic torque limiting clutch offers safety. It prevents reverse torque and thus reduces the risk of occupational accidents and injuries. Safety with no-volt release switch. It lowers the accident risk after power-cuts as the switched on machine does not start up automatically once the power is restored.

Productivity



No drop in speed thanks to VTC full wave electronics.

VTC Full wave electronics permit variable speeds that remain constant under load.



High drilling rate:

The optimum speed range ensures perfect results in all materials or applications



Direct drill change with quickaction keyless chuck with spindle stop for single hand operation.

You save precious time as the drill can be changed without tools in a matter of seconds.

Robustness



Extreme service life by virtue of aluminium die-cast housing.

The extremely resistant aluminium die-cast housing makes the tool particularly resistant and dissipates the generated heat much faster than plastic.



Particularly resilient thanks to Metabo Marathon motor.

The motor is resistant to abrasive effects and has an extremely high service life.

The Metabo INOX range: Everything for perfect surfaces

Our decades of experience and our high quality requirements flow into the Metabo INOX tools for processing stainless steel. The perfect synchronisation of tool and accessories ensures optimum results. All machines are available both as mains powered and, uniquely, also as cordless models.





Productivity



Quick progress thanks to highest belt speed in its class.

From coarse grinding to surface finishing you will work with ideal belt speeds. In a short period of time you achieve a high output and ensure a perfect finish. Ideal for polishing.

Seamless grinding thanks to large wrap angle.

Even if you can grind only from the top or below at the same angle, you will achieve a seamless finish thanks to the special wrap angle.

Robustness



Long service life thanks to overload protection.

The overload protection extends the service life of your angle grinder particularly for tough applications. In case

of excessive use, imminent overheating is detected, the current consumption is reduced and the motor protected.

Safety



Special protection thanks to belt cover. Your hands are safely protected from injuries.

The soft start helps protect you from accidents on start up. It gives you greater control over the angle grinder

thanks to the reduced kick-back on start up.

The no-volt release switch reduces the risk of accidents in case of a power-cut or if somebody re-plugs the plug. If the power supply is interrupted and restored the angle grinder has to be manually switched off and switched on again in order for it to working again. The result? No unintentional start up.



S 18 LTX 115



W18 LTX 125 Inox

Tools, accessories and service – from Nürtingen, Germany

In every Metabo tool there is traditional Swabian engineering ingenuity. Since 1924 we have been developing innovative ideas in our Nürtingen plant and have been implementing them into pioneering tools and perfect accessories for professional users directly on site. Our extraordinary service also makes us a strong partner for the industrial sector.



Engineering

Mould construction

Metabo - always near you.

With 1,800 employees, 23 subsidiary sales companies and 100 importers on all continents, we have a global presence on site - and always there where you need us.



Any questions?

A team of product and application consultants is looking forward to hearing from you. You can reach them under +49 (0) 7022 72-3230 (Mon-Fri, 08:00 - 17:00 hours) or by email to anwendungsberatung@metabo.de.

Your Metabo dealer:



The Metabo 3-year warranty

We give you an extra long 3 year warranty on all our products. Simply register up to 4 weeks after your purchase on the Internet and your regular guarantee is extended to three years.

Register at www.metabo.com/xxl

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