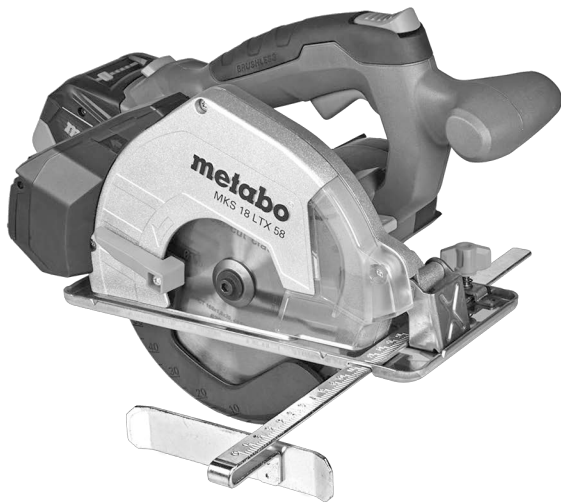
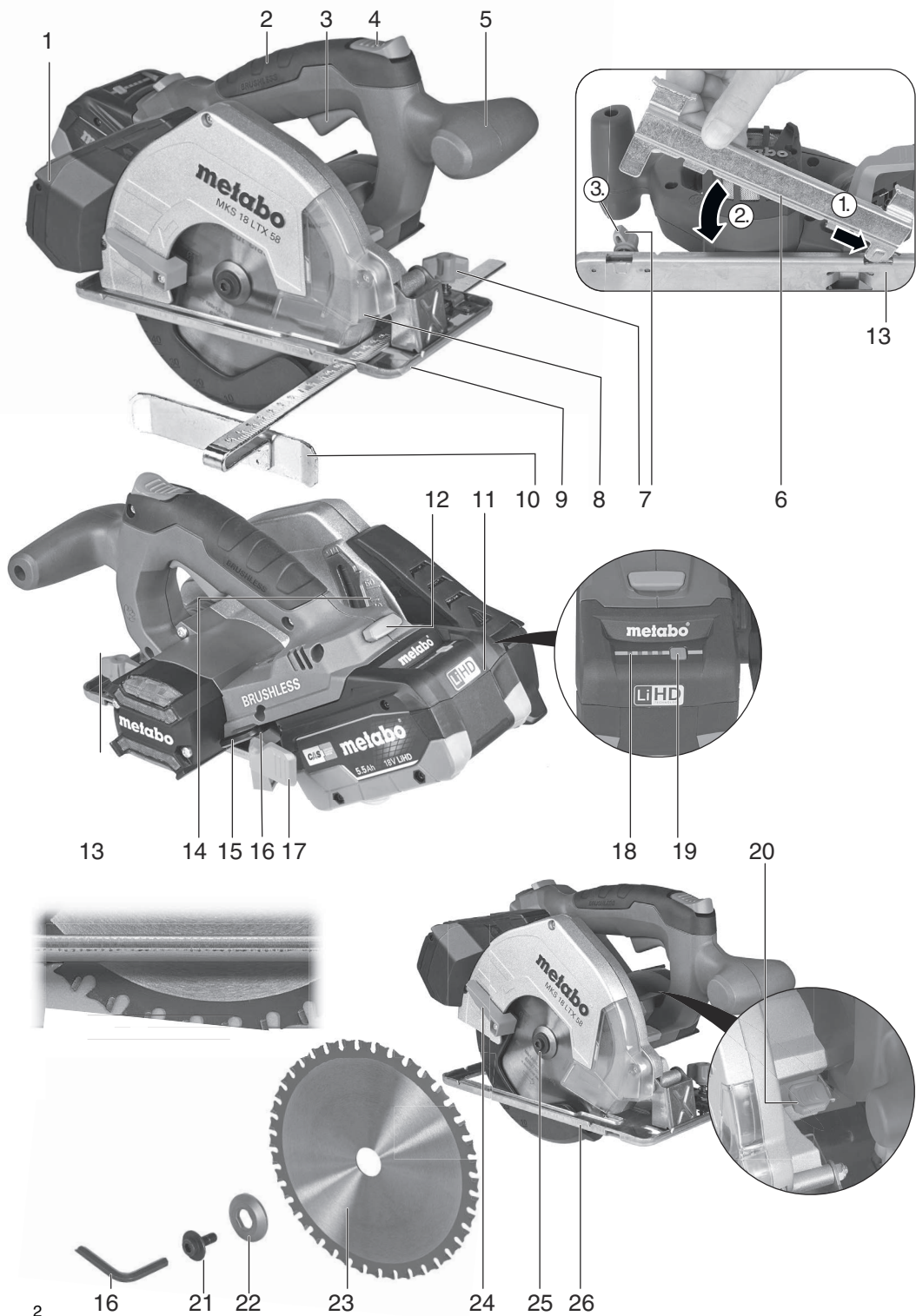


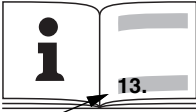
MKS 18 LTX BL 58

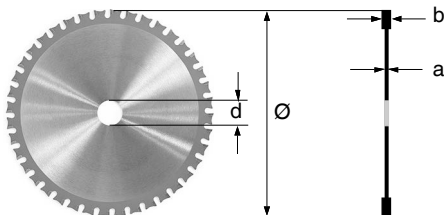


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		MKS 18 LTX BL 58 *1) Serial Number: 00773..
U	V	18
n_0	/min	3600
T_{\max}	mm (in)	58 (2 9/32")
\emptyset	mm (in)	165 (6 1/2")
d	mm (in)	20 (25/32")
a	mm (in)	max. 1,3 (max. 0.051")
b	mm (in)	max. 1,7 (max. 0.067")
m	kg (lbs)	3,8 (8.3)
$a_{h,D}/K_{h,D}$	m/s^2	< 2,5 / 1,5
L_{pA}/K_{pA}	dB (A)	97 / 3
L_{WA}/K_{WA}	dB (A)	108 / 3



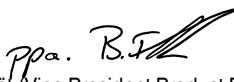
*2) 2014/30/EU, 2006/42/EC, 2011/65/EU

*3) EN 62841-1:2015+A11:2022, EN 62841-2-5:2014, EN IEC 63000:2018

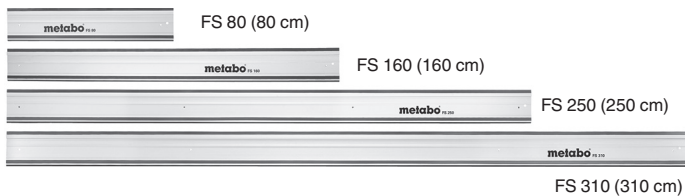
2024-06-25 Bernd Fleischmann

Direktor Produktentstehung & Qualität (Vice President Product Engineering & Quality)

*4) Metabowerke GmbH - Metabo-Allee 1 - 72622 Nuertingen, Germany

ppa. 

Ⓐ



Ⓑ



6.31031



6.29021

Ⓒ

Ø165 x 20mm, steel cut classic,6.28273
 Ø165 x 20mm, aluminium cut professional, ..6.28276

Original instructions

1. Declaration of Conformity

We hereby declare under our sole responsibility that these cordless hand-held circular saws, identified by type and serial number *1), meet all relevant requirements of directives *2) and standards *3). Technical documents for *4) - see page 3.

For UK only:

UK We as manufacturer and authorized person to
CA compile the technical file, see *4) on page 3, hereby declare under sole responsibility that these cordless hand-held circular saws, identified by type and serial number *1) on page 3, fulfill all relevant provisions of following UK Regulations S.I. 2016/1091, S.I. 2008/1597, S.I. 2012/3032 and Designated Standards see *3) page 3.

2. Specified Conditions of Use

The cordless handheld circular saw is designed for sawing unhardened ferrous metals and non-ferrous metals.

The machine is not designed for sawing wood or materials similar to wood, plastic, plaster, gypsum fibreboard, and composite materials.

The machine is not designed for plunge cuts.

The user bears sole responsibility for any damage caused by inappropriate use.

Generally accepted accident prevention regulations and the enclosed safety information must be observed.

3. General Safety Information



For your own protection and for the protection of your power tool, pay attention to all parts of the text that are marked with this symbol!



WARNING – Reading the operating instructions will reduce the risk of injury.



WARNING – Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

Pass on your power tool only together with these documents.

4. Special safety instructions for circular saws

Sawing procedure



a) DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor

housing. If both hands are holding the saw, they cannot be cut by the blade.

b) Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

c) Adjust the cutting depth to the thickness of the workpiece. Less than a full tooth of the blade teeth should be visible below the workpiece.

d) Never hold the workpiece in your hands or across your leg while cutting. Secure the workpiece to a stable platform. It is important to support the work properly to minimise body exposure, blade binding, or loss of control.

e) Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting tool may contact hidden wiring. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and could give the operator an electric shock.

f) When ripping, always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.

g) Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run off-centre, causing loss of control.

h) Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

Kickback causes and related warnings

- kickback is a sudden reaction to a pinched, jammed or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- when the blade is pinched or jammed tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- if the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the metal causing the blade to climb out of the kerf and jump back toward the operator.

Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.

a) Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.

b) When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and

take corrective actions to eliminate the cause of blade binding.

c) **When restarting a saw in the workpiece, centre the saw blade in the kerf so that the saw teeth are not engaged into the material.** If a saw blade binds, it may walk up or kickback from the workpiece as the saw is restarted.

d) **Support large panels to minimise the risk of blade pinching and kickback.** Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.

e) **Do not use dull or damaged blades.** Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.

f) **Blade depth and bevel adjusting locking levers must be tight and secure before making the cut.** If blade adjustment shifts while cutting, it may cause binding and kickback.

g) **Use extra caution when sawing into existing walls or other blind areas.** The protruding blade may cut objects that can cause kickback.

Lower guard function

a) **Check the lower guard for proper closing before each use. Do not operate the saw if the lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** If the saw is accidentally dropped, the lower guard may be bent. Raise the lower guard with the retracting handle (24) and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.

b) **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.

c) **The lower guard may be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise the lower guard by the retracting handle (24) and as soon as the blade enters the material, the lower guard must be released.** For all other sawing, the lower guard should operate automatically.

d) **Always observe that the lower guard is covering the blade before placing the saw down on bench or floor.** An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.

Do not use abrasive grinding discs.

Keep hands away from the rotating tool! Remove chips and similar material only with the machine at a standstill.



Wear a suitable dust protection mask.



Wear ear protectors.



Wear protective goggles.

Press the spindle locking button only when the motor is at a standstill.

Do not reduce the speed of the saw blade by pressing on the sides.

The movable guard must not be clamped in the pulled-back position for sawing.

The movable guard must move freely, automatically, easily and exactly back into its end position.

Clean the machine regularly. Make sure that the safety appliances, e.g. the movable guard, are in perfect working order.

If the saw blade blocks, turn the motor off immediately.

Do not try to saw extremely small workpieces.

During machining, the workpiece must be firmly supported and secured against moving.

The saw blade and shavings may be very hot after sawing.

Watch out where wood shavings are flying. Wood shavings are hot and can cause burns, fires, or cutting injuries.

Shavings are sharp and may cause injuries. Keep clothing closed so no shavings can get inside.

Use only undamaged saw blades. Ensure that no teeth on the blades are broken.

Avoid overheating of the saw tooth tips. Use a saw blade that is suitable for the material being sawn.

If the machine is defective, remove the battery pack from the machine.



Protect battery packs from water and moisture!

Do not use faulty or deformed battery packs!



Do not expose battery packs to fire!

Do not open battery packs!

Do not touch or short circuit battery pack contacts!

Remove the battery pack from the machine when not in use.

Remove the battery pack from the tool before any adjustments, conversions, servicing or cleaning are performed.

Make sure that the tool is switched off before fitting the battery pack.



A slightly acidic, flammable fluid may leak from defective Li-ion battery packs!



If battery fluid leaks out and comes into contact with your skin, rinse immediately with plenty of water. If battery fluid leaks out and comes into contact with your eyes, wash them with clean water and seek medical attention immediately!

Transport of li-ion battery packs:

The shipping of li-ion battery pack is subject to laws related to the carriage of hazardous goods (UN 3480 and UN 3481). Inform yourself of the currently valid specifications when shipping li-ion battery packs. If necessary, consult your freight forwarder. Certified packaging is available from Metabo.

Only send the battery pack if the housing is intact and no fluid is leaking. Remove the battery pack from the machine for sending. Secure the contacts against short circuiting (e. g. insulate with tape).

Reducing dust production:



WARNING - Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- Lead from lead-based paints,
- Crystalline silica from bricks and cement and other masonry products, and
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

This also applies to dust from other materials such as some timber types (like oak or beech dust), metals, asbestos. Other known diseases are e.g. allergic reactions, respiratory diseases. Do not let dust enter the body.

Observe the relevant guidelines and national regulations for your material, staff, application and place of application (e.g. occupational health and safety regulations, disposal).

Collect the particles generated at the source, avoid deposits in the surrounding area.

Use suitable accessories for special work. In this way, fewer particles enter the environment in an uncontrolled manner.

Use a suitable extraction unit.

Reduce dust exposure with the following measures:

- do not direct the escaping particles and the exhaust air stream at yourself or nearby persons or on dust deposits,
- use an extraction unit and/or air purifiers,
- ensure good ventilation of the workplace and keep clean using a vacuum cleaner. Sweeping or blowing stirs up dust.
- Vacuum or wash the protective clothing. Do not blow, beat or brush.

5. Overview

See page 2.

- 1 Shavings collection box
- 2 Handle
- 3 Trigger
- 4 Locking button
- 5 Side handle
- 6 Guide rail adapter*
- 7 Locking screw (parallel stop, guide rail adapter)
- 8 View window (exchangeable)
- 9 Cutting indicator
- 10 Parallel stop
- 11 Battery pack *
- 12 Battery pack release button
- 13 Guide plate
- 14 Scale (depth of cut)
- 15 Hexagon wrench
- 16 Storage for hexagon wrench
- 17 Locking lever (depth of cut)
- 18 Capacity and signal indicator *
- 19 Capacity indicator button *
- 20 Spindle locking button
- 21 Saw blade fixing screw
- 22 Outer saw blade flange
- 23 Saw blade
- 24 Lever (swivelling back the movable guard)
- 25 Inner saw blade flange
- 26 Movable safety guard

*equipment-specific

6. Initial Operation and Setting



Remove the battery pack from the tool before any adjustments, conversions, servicing or cleaning are performed. Make sure that the tool is switched off before fitting the battery pack.

6.1 Battery pack

Charge the battery pack (11) before use.

Recharge the battery pack if performance diminishes.

Instructions on charging the battery pack can be found in the operating instructions of the Metabo charger.

Li-Ion battery packs “Li-Power, LiHD” have a capacity and signal indicator (18):

- Press the button (19), the LEDs indicate the charge level.
- The battery pack is almost flat and must be recharged if one LED is flashing.

Removal:

Press the battery pack release (12) button and pull the battery pack (11) upwards.

Inserting:

Slide in the battery pack (11) until it engages.

6.2 Setting cutting depth

Loosen the locking lever (17) for adjustment. Read the depth of cut that has been set from the scale (14). Tighten the locking screw again.

It is advisable to set the depth of cut in such a way that no more than half of each tooth on the saw blade juts out under the workpiece. See illustration on page 3.


6.3 Attach guide rail adapter (as needed)


Attach the adapter (6) to be able to attach the machine to a guide rail (see Accessories section).

Insert adapter (6), as shown, into the guide plate (13). Tighten the locking screw (7) and use it to attach the adapter to the machine.

7. Use

7.1 The machine's multifunctional monitoring system

 If the machine switches off automatically, the machine electronics have activated automatic protection mode. A warning signal sounds (continuous beeping). The beeping stops after a maximum of 30 seconds or when the trigger switch (3) is released.

 In spite of this protective function, overloading is still possible with certain applications and can result in damage to the machine.

Causes and remedies:

1. **Battery pack almost flat** (the electronics prevent the battery pack from discharging totally and avoid irreparable damage).
If one LED (18) is flashing, the battery pack is almost flat. If necessary, press the button (19) and check the LED lamps (18) to see the charge level. If the battery pack is almost flat, it must be recharged.

2. Long continuous overloading of the machine will activate the **temperature cut-out**.
The machine continues to run with reduced performance until the temperature is back to normal.

In case of excessive overheating, the machine will switch off completely.

Leave the machine or battery pack to cool.

Note: If the battery pack feels very warm, the pack will cool more quickly in your "AIR COOLED" charger.

Note: The machine will cool more quickly if you operate it at idling speed.


3. If the **current is too high** (for example, if the machine seizes continuously for long periods), the machine switches off.
Switch off the machine at the trigger switch (3). Then continue working as normal (in this case, read in particular the safety instructions in Chapter 4. Kickback, in addition to all other safety instructions). Try to prevent the machine from seizing.


7.2 Switching on and off

Switching on: Push the locking button (4) forwards and hold, then actuate the trigger (3).


Switching off: Release the trigger switch (3).

7.3 Working Directions

 Do not switch the machine on or off while the saw blade is touching the workpiece.


 Let the saw blade reach its full speed before making a cut.

When the hand-held circular saw is added, the movable guard is swung backwards by the workpiece.

 When sawing, never remove the machine from the material with the saw blade turning. Allow the saw blade to come to a standstill.

 If the saw blade blocks, turn the machine off immediately.

Guide the machine at a speed suitable for the material being processed.

 The device reduces its speed under excess load. The pressing force must be reduced.

Sawing along a straight line: the cutting indicator is used here (9).

Sawing along a rail secured on the workpiece:
In order to achieve an exact cutting edge, you can attach a rail to the workpiece and then guide the hand-held circular saw by means of the guide plate along this rail.

Sawing with parallel guide:

For cuts parallel to a straight edge. The parallel guide (10) can be inserted from either side into the support provided for it. Tighten the locking screw (7). It is best to calculate the exact cut width by making a test cut.

Sawing with guide rail:

For dead straight, tear-free cutting edges with millimetre precision. The anti-slip coating keeps the surface safe and protects the workpiece against scratches. For guide rail, see chapter on Accessories.


Battery pack heat generation:


Under extremely hard application conditions (e.g. sawing thick wooden planks), the heavy load can cause the battery pack to heat (> 60 °C). To conserve the battery pack, allow it to cool down before continuing work.

8. Maintenance

Changing saw blades


 Remove battery pack from machine.

 Directly after cutting the saw blade can be very hot – burning hazard! Let a hot saw blade cool down.

 Risk of injury, even with the blade at standstill. Wear protective gloves when changing blades.

Press in the spindle locking button (20) and hold in place. Turn the saw spindle slowly with the spanner in the saw blade fixing screw (21) (15) until the lock catches.


Unscrew the saw blade fixing screw in anti-clockwise direction and remove the outer saw blade flange (22). Pull back the movable guard (26) and remove the saw blade.


 Ensure that the inner saw blade flange (25) is inserted in the right way: The inner saw blade flange (25) has 2 sides, diameter 20 mm and 5/8" (16 mm). Ensure a precise fit of saw blade mounting hole to the inner saw blade flange (25)! Incorrectly installed saw blades do not run smoothly and lead to loss of control.


Insert a new saw blade, Make sure the direction of rotation is correct. The direction of rotation is indicated by arrows on the saw blade and guard. The contact areas between the inner saw blade flange (25), the saw blade (23), the outer saw blade flange (22) and the saw blade fixing screw (21) must be clean.


Put on the outer saw blade flange (22). Ensure that the outer saw blade flange (22) is inserted the correct way round (inscription facing outwards).


Tighten the saw blade fixing screw (21) using a hexagon wrench (15) (**max. 5 Nm**).


 Use only sharp, undamaged saw blades. Do not use saw blades that are cracked or that have changed their shape.


 Do not use any saw blades made from high-alloy high-speed steel (HSS).


 Do not use any saw blades which do not conform to the specified rating. Use only saw blades with a diameter according to the markings on the saw.


 The saw blade must be suitable for the no-load speed.


 Use a saw blade that is suitable for the material being sawn.

 Use only genuine Metabo - saw blades.


 Never use abrasive grinding discs.


 Use only saw blades that are marked with a speed equal or higher than the speed marked on the tool.

 Use only saw blades recommended by the manufacturer, which conform to EN 847-1 because it is intended for wood and analogous materials.

 Regularly check the function of all blade guard operations before use and storage.

9. Cleaning

 Remove battery pack from machine.

 Danger of injury from hot or sharp shavings. Wear protective gloves when emptying the shavings collection box (1)

Empty the shavings collection box (1) regularly: open the lid and shake out shavings. The shavings collection box can be removed from the machine if necessary. To attach, place the shavings collection box on the guard and press until it snaps into place.

Clean the machine regularly. Make sure that the safety appliances, e.g. the movable guard, are in perfect working order.

10. Accessories

Only use original Metabo or CAS (Cordless Alliance System) battery packs and accessories.

Use only accessories that fulfil the requirements and specifications listed in these operating instructions.

Battery packs with different capacities. Buy battery packs only with voltage suitable for your power tool.

Order no.: 625367000 4.0 Ah (LiHD)

Order no.: 625368000 5.5 Ah (LiHD)

Order no.: 625369000 8.0 Ah (LiHD)
etc.

Order no.: 6.25027000 4.0Ah (LiPOWER)

Order no.: 6.25028000 5.2 Ah (LiPOWER)
etc.

Chargers: ASC 55, ASC 145, etc.

See page 4.

- A Guide rail
- B Clamp. To secure the guide rail.
- C Circular saw blade for metal applications

For a complete range of accessories, see www.metabo.com or the catalogue.

11. Repairs

 Repairs to electrical tools must **ONLY** be carried out by qualified electricians!


Contact your local Metabo representative if you have Metabo power tools requiring repairs. See www.metabo.com for addresses.

You can download a list of spare parts from www.metabo.com.

12. Environmental Protection

Observe national regulations on environmentally compatible disposal and on the recycling of disused machines, packaging and accessories.

Packaging materials must be disposed of according to their labelling in accordance with municipal guidelines. Further information can be found at www.metabo.com in the "Service" section.

 Only for EU countries: never dispose of power tools in your household waste!
According to European Directive 2012/19/EU on Waste from Electric and Electronic Equipment and implementation in national law, used power tools must be collected separately and recycled in an environmentally-friendly manner.

Battery packs may not be disposed of with regular waste. Return faulty or used battery packs to your Metabo dealer!

Do not allow battery packs to come into contact with water!

Discharge the battery pack in the power tool before disposal. Secure the contacts against short circuiting (e. g. insulate with tape).

13. Technical Specifications

Explanatory notes on the specifications on page 3. Changes due to technological progress reserved.

U	= Voltage of battery pack
n_0	= no-load speed
T_{\max}	= maximum depth of cut
\varnothing	= saw blade diameter
d	= saw blade drill diameter
a	= max. base body thickness of the saw blade
b	= max. cutting width of saw blade
m	= weight

Measured values determined in conformity with EN 62841.

Permitted ambient temperature during operation: -20 °C to 50 °C (limited performance with temperatures below 0 °C). Permitted ambient temperature for storage: 0 °C to 30 °C

== direct current

The technical specifications quoted are subject to tolerances (in compliance with the relevant valid standards).



Emission values

These values make it possible to assess the emissions from the power tool and to compare different power tools. The actual load may be higher or lower depending on the operating conditions, the condition of the power tool or the accessories. Please allow for breaks and periods when the load is lower for assessment purposes. Arrange protective measures for the user, such as organisational measures based on the adjusted estimates.

Vibration total value (vector sum of three directions) determined in accordance with EN 62841:

$a_{h,D}$	= Vibration emission value (Sawing metal)
$K_{h,D}$	= Uncertainty (vibration)

Typical A-effective perceived sound levels:

L_{pa}	= Sound-pressure level
L_{WA}	= Acoustic power level
K_{pA}, K_{WA}	= Uncertainty

The noise level can exceed 80 dB(A) during operation.



Wear ear protectors!

The declared vibration total value(s) and the declared noise emission value(s) have been measured in accordance with a standard test method and may be used for comparing one tool with another; The declared vibration total value(s)

and the declared noise emission value(s) may also be used in a preliminary assessment of exposure.



Warning:

The vibration and noise emissions during actual use of the power tool can differ from the declared values depending on the ways in which the tool is used especially what kind of workpiece is processed; and need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).