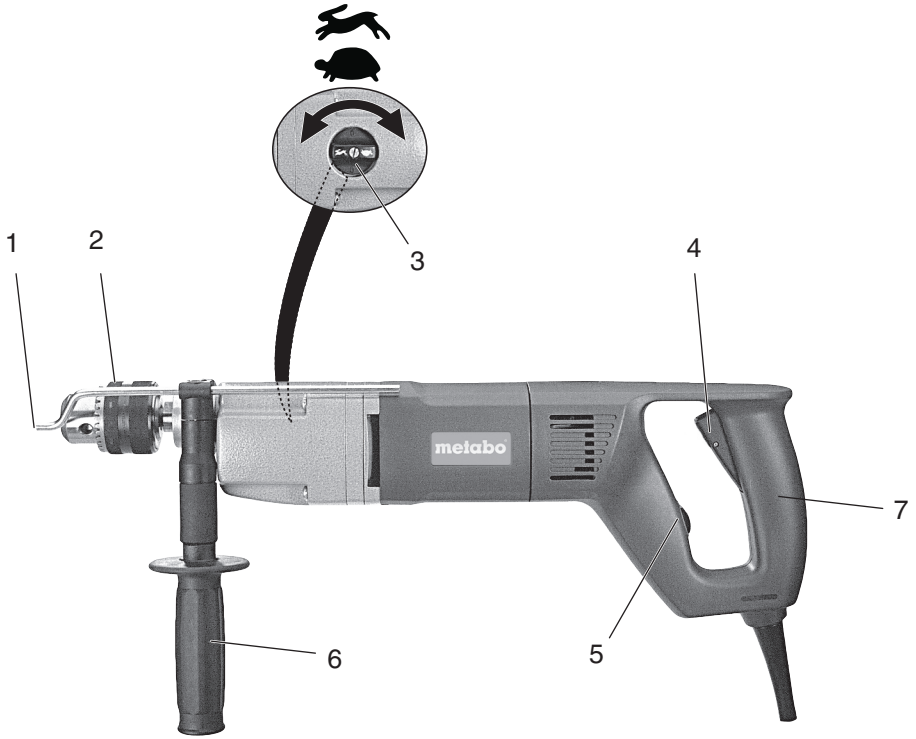
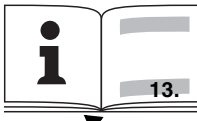





BDE 1100




de	Originalbetriebsanleitung	4	fi	Alkuperäiset ohjeet	34
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		BDE 1100 *1) Serial Number 00806..
P_1	W	1100
P_2	W	620
n_1	/min	0-1200 / 0-640
n_2	/min	800 / 430
\varnothing max 	mm (in)	16 / 10 ($5/8$ " / $3/8$ ")
\varnothing max 	mm (in)	40 / 25 ($1\ 9/16$ " / 1 ")
b	mm (in)	3-16 ($1/8$ "- $5/8$ ")
G	in - UN	$5/8$ " - 16 UN
m	kg (lbs)	3,8 (8.4)
D	mm (in)	43 ($1\ 11/16$ ")
$a_{h,D} / K_{h,D}$	m/s^2	4 / 1,5
L_{pA} / K_{pA}	dB (A)	85 / 3
L_{WA} / K_{WA}	dB (A)	96 / 3


*2) 2014/30/EU, 2006/42/EC, 2011/65/EU
*3) EN 62841:2015, EN 62841-2-1:2018, EN IEC 63000:2018

ppa. B.F. 

2020-09-28, Bernd Fleischmann
Direktor Produktentstehung & Qualität (Vice President Product Engineering & Quality)
*4) Metabowerke GmbH - Metabo-Allee 1 - 72622 Nuertingen, Germany

Original instructions

1. Conformity Declaration

We, being solely responsible, hereby declare that these drills, 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 impact drills, 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 EN 62841:2015, EN 62841-2-1:2018, EN IEC 63000:2018.

2. Specified Conditions of Use

The drill is suitable for non-impact drilling into metal, wood, plastic and similar materials. It is also suitable for thread tapping and screwdriving.

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 electrical 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 electrical tool only together with these documents.

4. Special Safety Information

4.1 Safety instructions for all operations

a) **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.

b) **Use the auxiliary handle.** Loss of control can cause personal injury.

c) **Brace the tool properly before use.** This tool produces a high output torque and without properly bracing the tool during operation, loss of control may occur resulting in personal injury.

d) **Hold the power tool by insulated gripping surfaces, when performing an operation where the cutting accessory or fasteners may contact hidden wiring or its own cord.** Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

4.2 Safety instructions when using long drill bits:

a) **Never operate at higher speed than the maximum speed rating of the drill bit.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

b) **Always start drilling at low speed and with the bit tip in contact with the workpiece.** At higher speeds, the bit is likely to bend if allowed to rotate freely without contacting the workpiece, resulting in personal injury.

c) **Apply pressure only in direct line with the bit and do not apply excessive pressure.** Bits can bend causing breakage and loss of control, resulting in personal injury. Pull the plug out of the plug socket before any adjustments or servicing are performed.

Ensure that the spot where you wish to work is free of **power cables, gas lines or water pipes** (e.g. using a metal detector).

Smaller workpieces must be secured such that they are not carried along with the drill bit when drilling (e.g. by clamping in a vice or on a work bench with screw clamps).

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

Metabo S-automatic safety clutch. When the safety clutch responds, switch off the machine immediately! If the tool jams or catches, the power supply to the motor is restricted. Due to the strong force which can arise, always hold the machine with both hands using the handles provided, stand securely and concentrate.

The Metabo S-automatic safety clutch must not be used for torque control.

Caution with hard screwdriving (driving of screws with either a metric or an imperial thread into steel)! The head of the screw may rip off or high restoring torques may be incurred at the handle.

Reducing dust exposure:



Some of the dust created using this power tool may contain substances known to cause cancer, allergic reaction, respiratory disease, birth defects or other reproductive harm. Some examples of these substances are: lead (from lead-based paints), crystalline silica (from bricks cement, etc.), additives for wood treatment (chromate, wood preservative), some types of wood (like oak and beech dust), metals, asbestos. The risk from exposure to such substances will depend on how long the user or nearby persons are being exposed.

Do not let particles enter the body.
To reduce exposure to these substances: work in a well ventilated area and wear protective equipment, such as dust masks that are specially designed to filter out microscopic particles.

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

Collect the generated particles 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 it clean using a vacuum cleaner. Sweeping or blowing stirs up dust.

Vacuum or wash protective clothing. Do not blow, beat or brush.

5. Overview

See page 2.


- 1 Depth stop
- 2 Geared chuck
- 3 Thumb-wheel for speed selection
- 4 Trigger
- 5 Rotation selector switch
- 6 Side handle
- 7 Handle

6. Special Product Features


Metabo S-automatic safety clutch:

If the insertion tool jams or hooks, the power flow to the engine will be restricted. Because of the high power which then arises, always hold the machine with both hands on the handles, stand safely, and concentrate on your work.

7. Initial Operation

 **Before plugging in check to see that the rated mains voltage and mains frequency, as stated on the rating label, match with your power supply**

 **Always install an RCD with a maximum trip current of 30 mA upstream.**

 **Australia: Always use a residual current device (RCD) protected supply with a rated residual current of 30 mA or less.**

8. Use

8.1 Depth Stop Setting

Loosen the side handle (6). Set depth stop (1) to the desired drilling depth and retighten the side handle.

8.2 Switching On and Off

To start the machine, press the trigger (4).


The speed can be changed at the trigger.


Thanks to the electronic soft start the machine accelerates continuously up to maximum speed.

8.3 Speed selection


Select the desired speed by turning the thumb-wheel (3).

Change speed only when the machine is in the process of running down (briefly switch it on and off).

 1st speed
(low speed, high torque) e.g. for screwdriving, drilling

 2nd speed
(high speed) e.g. for drilling

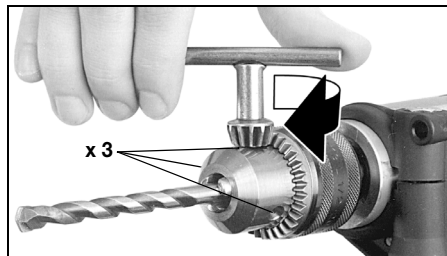
8.4 Selection of rotary direction

 **Do not actuate the rotation selector switch (5) unless the motor has completely stopped.**

Selecting the direction of rotation:

 clockwise
 counter-clockwise

8.5 Tool change with a geared chuck (2)



Chucking the tool:

Insert the tool and use the chuck key to uniformly clamp tight all 3 bores.

Removing the tool:

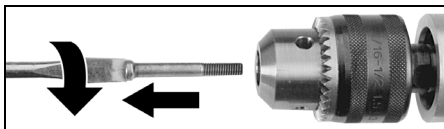
Open the geared chuck with the chuck key and remove the tool.

8.6 Remove the handle.

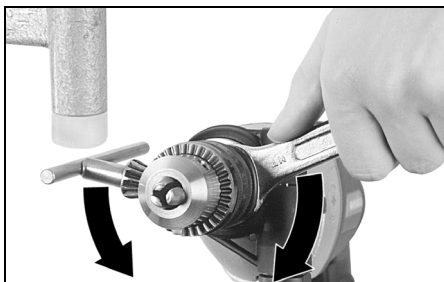
To be able to remove the handle you must first of all remove the chuck.

8.7 Removing the chuck Geared chuck (2)

8.1 Depth Stop Setting



Undo the locking screw. Caution left-handed thread !



Hold the drill spindle tight with a spanner. With a light blow from a rubber hammer release the chuck from the inserted chuck key and unscrew it.

9. Tips and Tricks

In the case of deep bores pull the drill bit out of the bore from time to time in order to remove the stone dust or shavings.

For thread tapping, slightly oil the tap. Select low speed and . Start cutting in clockwise direction, stop and turn out in counter-clockwise direction.

10. Accessories

Use only genuine Metabo accessories.

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

Fit accessories securely. Secure the machine if it is operated in a bracket. Loss of control can cause personal injury.

See www.metabo.com or the catalogue for a complete range of accessories.

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! Used power tools must be collected separately and handed in for environmentally compatible recycling in accordance with European Directive 2012/19/EU on waste electrical and electronic equipment and its implementation in national legal systems.

13. Technical Specifications

Explanatory notes on the information on page 3.

Changes due to technological progress reserved.

P_1	= Rated power consumption
P_2	= Power output
n_1	= No load speed
n_2	= On load speed
$\varnothing \text{ max}$	= Max. solid drill diameter
b	= Chuck capacity
G	= Spindle thread
m	= Weight
D	= Spindle collar diameter

Measured values determined in conformity with EN 62841.

- Machine in protection class II
- ~ AC Power

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 e.g. 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 (Drilling in 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



Wear ear protectors!