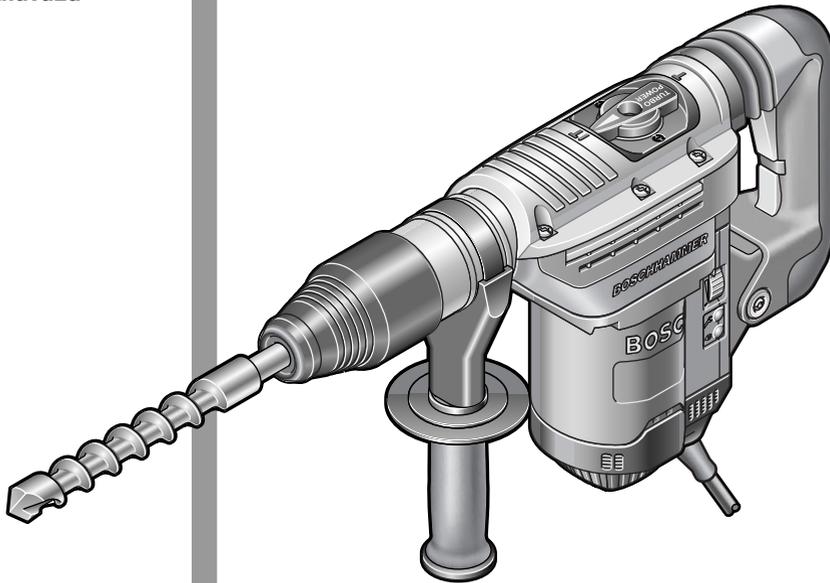


Bedienungsanleitung
Operating Instructions
Instructions d'emploi
Instrucciones de servicio
Manual de instruções
Istruzioni d'uso
Gebruiksaanwijzing
Betjeningsvejledning
Bruksanvisning
Brukerveiledning
Käyttöohje
Οδηγία χειρισμού
Kullanım kılavuzu

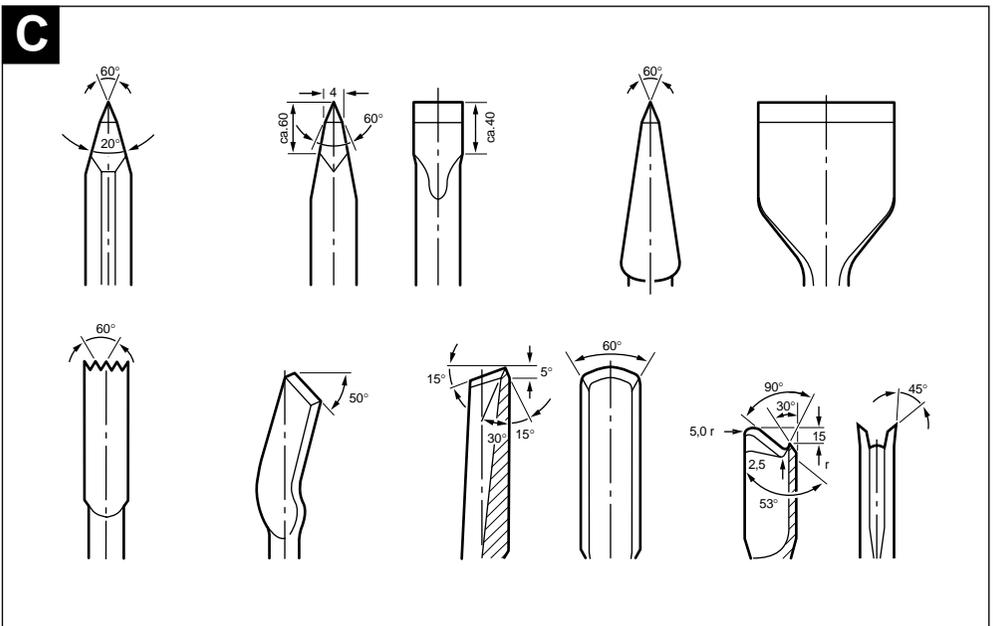
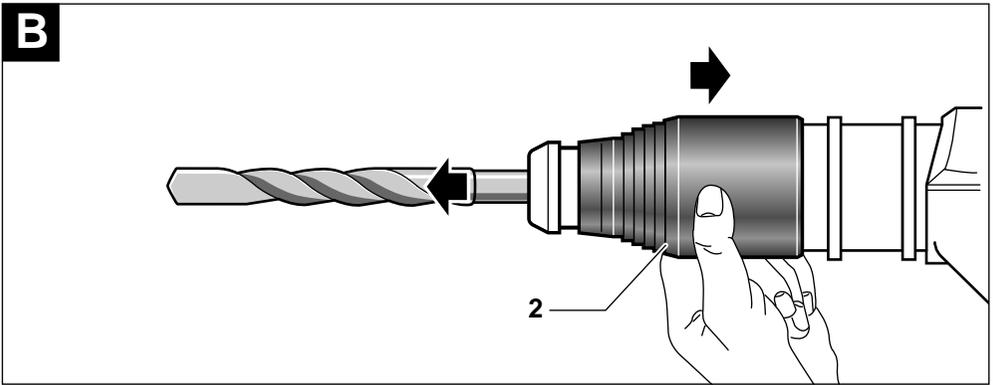
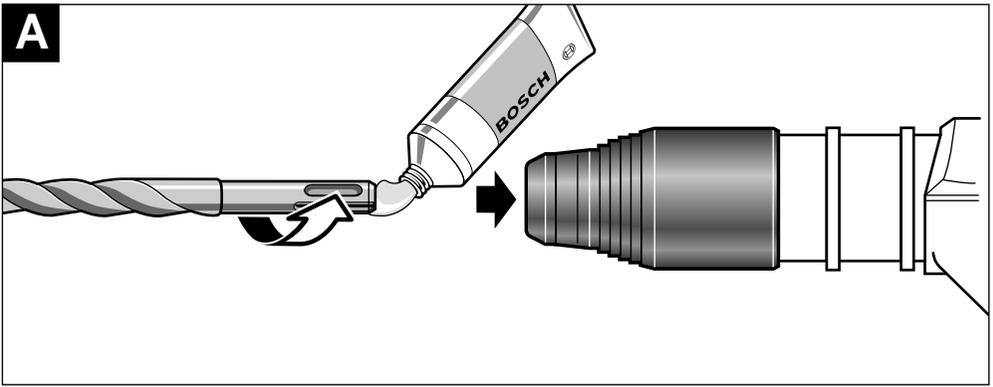
BOSCH

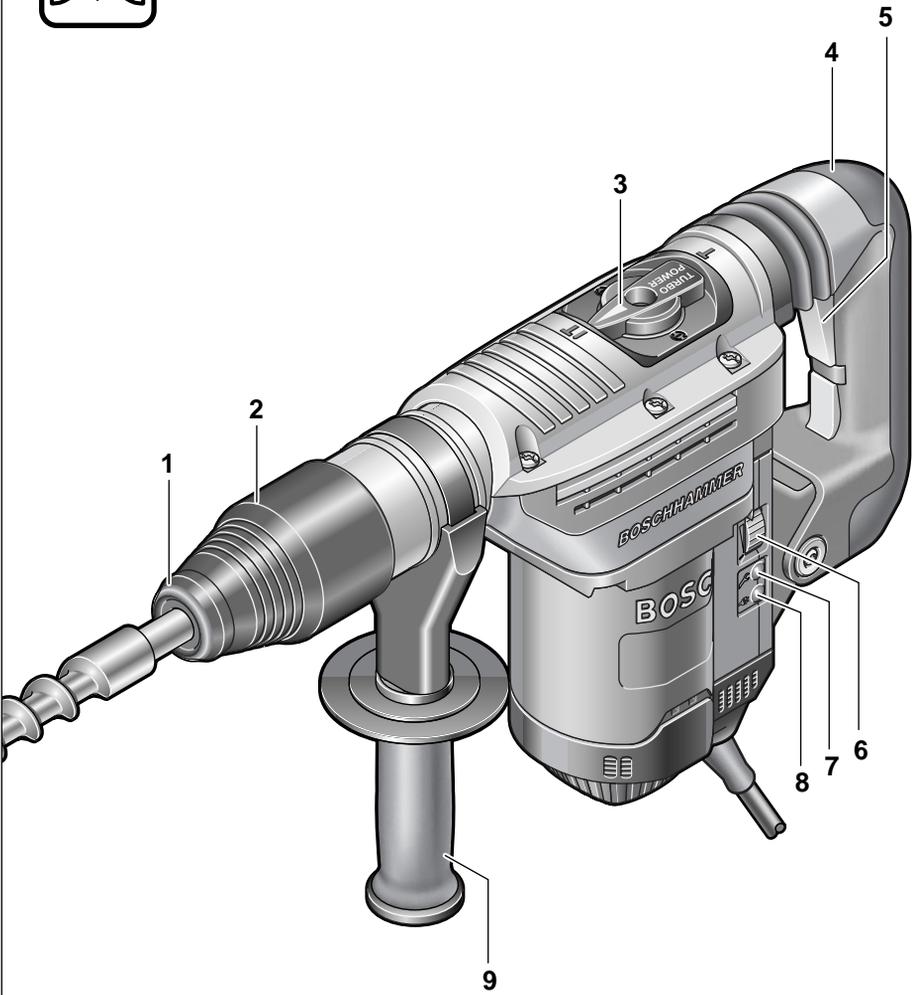
GBH 5-40 DE



Deutsch
English
Français
Español
Português
Italiano
Nederlands
Dansk
Svenska
Norsk
Suomi
Ελληνικά
Türkçe







Tool Specifications

Rotary Hammer	GBH 5-40 DE
Part number	0 611 241 7..
Rated power	1 100 W
Rated speed	340 rpm
Impact rate for drilling	3 100 bpm
Impact rate for chiselling	3 300 bpm
Impact energy per stroke	2–8.5/10 J
Chisel positions	12
Chiselling performance in concrete of medium hardness	145 kg/h
Tool holder	SDS-max
Lubrication	Oil lubrication
Drilling output:	
- Concrete (twist drill bit)	max. 40 mm
- Concrete (break through drill bit)	max. 55 mm
- Masonry (core bit)	max. 90 mm
Weight (without optional extras) approx.	6.1 kg
Safety class	<input type="checkbox"/> / II

Noise/Vibration Information

Measured values determined according to EN 50 144.

Typically the A-weighted noise levels of the product are: sound pressure level: 90 dB (A); sound power level: 103 dB (A).

Wear ear protection!

84/537/EEC: Noise level is lower than 108 dB (A).

The typical weighted acceleration is 6.8 m/s².

Machine Elements

- 1 Dust protection cap
- 2 Locking sleeve
- 3 Mode selector switch
- 4 Vibration damper
- 5 On/Off switch
- 6 Speed selector thumbwheel
- 7 Service indicator
- 8 Stand-by-indicator
- 9 Auxiliary handle

Not all of the accessories illustrated or described are included as standard delivery.



For Your Safety



Working safely with this machine is possible only when the operating and safety information are read completely and the instructions contained therein are strictly followed. In addition, the general safety instructions in the enclosed booklet must be followed. Before using for the first time, ask for a practical demonstration.



If the mains cable is damaged or cut through while working, do not touch the cable but immediately pull the mains plug. Never use the machine with a damaged cable.



Wear ear protection.

Wear safety glasses and sturdy shoes.

- For long hair, wear hair protection. Work only with closely fitting clothes.
- Connect machines that are used in the open via a residual current device (RCD) with an actuating current of 30 mA maximum. Use only extension cables that are approved for outdoor use.
- During work pause, when not in use or when working on the machine (e. g. changing tool inserts, repairs, cleaning, adjustment), pull the mains plug.
- Always direct the cable to the rear away from the machine.
- Insert the mains plug only when the machine is switched off.
- Always switch off the machine and allow to come to a stop before placing it down.
- Use the machine only with the auxiliary handle 9.
- When working with the machine, always hold it firmly with both hands and provide for a secure stance.
- Never allow children to use the machine.
- Bosch is only able to ensure perfect functioning of the machine if the original accessories intended for it are used.

Intended Use

The machine is designed for drilling in concrete, brick and stone as well as for chiselling.

Changing the Tool

- **Before any work on the machine itself, pull the mains plug.**

With the SDS-max tool holder, simpler and easier tool changing is possible without additional aids.

-  **Grease the shank end of the tool regularly.**

The dust protection cap **1** largely prevents the entry of drilling dust during operation. When inserting the tool, take care that the dust protection cap **1** is not damaged.

A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.

A Inserting

Clean and grease the shank end of the tool.

Insert the tool in a twisting manner into the tool holder until it latches itself. Check the latching by pulling on the tool.

B Removing

Push back the locking sleeve **2** of the tool holder and remove the tool. Let go of the locking sleeve **2** again.

Auxiliary Handle

- **Use the machine only with the auxiliary handle **9**.**

Loosen the handle by turning to the left. Rotate the auxiliary handle **9** and adapt to the working position.

Firmly retighten the handle.

Vibration damper

VIBRATION CONTROL

The integrated vibration damper **4** reduces occurring vibrations.

The soft grip reduces any danger of slipping and thereby ensures a better grip and handling of the machine.

Initial Operation

- **Do not drill, fasten or cut into blind areas where electric, gas or water lines may exist. Use appropriate detectors to determine if these lines are hidden in the work area or call the local utility company for assistance.**

Contacting electric lines may cause fire or electric shock. Striking a gas line will probably result in explosion. Breaking into a water pipe will cause property damage or may cause an electric shock.



Hold tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord.

Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

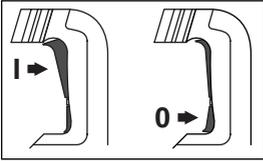
Check for correct mains voltage: The voltage of the power source must agree with the voltage specified on the nameplate of the machine. Equipment marked with 230 V can also be connected to 220 V.

Switching On/Off in drilling mode:

Switching on: Press the On/Off switch **5** and hold depressed.

Switching off: Release the On/Off switch **5**.

Switching On/Off in chiselling mode:



Switching on: Press the upper part of the On/Off switch **5** until it locks on (**I**).

Switching off: Press the bottom part (**0**) of the On/Off switch **5** and release.

 At low temperatures it is possible that the machine only reaches its full hammering or impact rate after a certain period of time.

Overload Clutch

 If the drill bit jams or edges, the drive to the drill spindle is interrupted.

Due to the arising forces **always hold the machine firmly with both hands and provide for a secure stance.**

If the drilling tool jams, switch the machine off and loosen the drilling tool. When switching the machine on with the drilling tool jammed, high reaction torques can occur!

Changing the Speed/Impact Rate

The electronic control enables continuous pre-selection of speed and impact rate in accordance with the material to be worked. Adjustment is carried out with the speed selector thumbwheel **6**.

The constant electronic control keeps the pre-selected speed and impact rate nearly constant between no-load and load conditions.

The speed must be selected in accordance with the material.

When inserting the mains plug into the outlet or after a power failure, the electronic control automatically adjusts to the maximum speed and impact rate. This avoids operation below optimum capacity, due to a low pre-setting of the speed selector thumbwheel **6**.

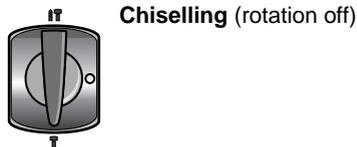
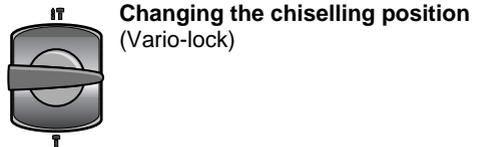
The values in the table are recommendations. Depending on application, the electronic control should be adjusted with the speed selector thumbwheel **6**.

Area of Application	Control Setting
Plaster/lightweight materials	Min.
Removing tiles	
Brick	
Concrete	Max.

Mode Selector Switch

■ Operate the mode selector switch **3** only when the machine is at a standstill.

Set the mode selector switch **3** to the required position.



Booster

In the “**Chiselling**” position, the selected impact rate is automatically increased when the machine is switched on. In this mode, the machine operates with increased performance during chiselling.

Changing the chiselling position (Vario-lock)

The chisel can be locked in 12 positions. In this manner, the optimum working position can be set for each application.

Insert the chisel in the tool holder.

Turn the mode selector switch **3** to “**Changing the chiselling position**” (Vario-lock).

Turn the tool holder to the desired chiselling position.

Allow the mode selector switch **3** to latch in the “**Chiselling**” position. The tool holder is locked in this position.

The mode selector switch 3 must always be locked in the “Chiselling” position when chiselling.

Sharpening Chisels

Good results are only achieved with sharp chisels, therefore sharpen the chiselling tools regularly. This prolongs the service life of the tools and ensures good working performance.

Re-sharpening the Chiselling Tools

Sharpen chiselling tools using grinding wheels (e.g. ceramic bonded corundum wheel) with a steady supply of water. Recommended values are shown in Fig. C. Take care that no annealing coloration appears on the cutting edges, otherwise the hardness of the chiselling tools will be impaired.

Forging and Hardening

Forging: Heat the chisel to between 850 and 1050 °C (bright red to yellow) and forge.

Hardening: Heat the chisel to 900 °C (bright red) and quench in oil, then anneal in an oven for approx. one hour at 320 °C (annealing colour = light blue).

Maintenance and Cleaning

■ **Before any work on the machine itself, pull the mains plug.**

☞ For safe and proper working, always keep the machine and the ventilation slots clean.

■ **Keep the tool holder clean at all times.**

Changing the dust protection cap

A damaged dust protection cap should be changed immediately. We recommend having this carried out by an after-sales service.

Lubrication

The machine is oil-lubricated. An oil change is only required during maintenance or repair by an authorized Bosch After-Sales Service. It is imperative to use the designated Bosch oil.

Service indicator 7 (red)

When the carbon brushes are worn out, the machine switches itself off. This is indicated approx. eight hours beforehand by the lighting or blinking of the service indicator **7**. The machine must then be sent to customer service for maintenance (for addresses, see Section “Service and Customer Assistance”).

Stand-by-indicator 8 (green)

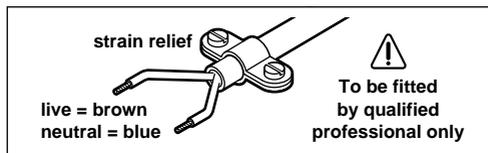
With the mains plug inserted and mains voltage available, the stand-by-indicator **8** must light up. If the machine can not be switched on despite the lit stand-by-indicator, it must be sent to an authorized customer service centre for Bosch power tools.

If the machine should fail despite the rigorous manufacturing and testing procedures, repair should be carried out by an authorised after-sales service centre for Bosch power tools.

In all correspondence and spare parts orders, please always include the 10-digit order number given on the nameplate of the machine.

WARNING! Important instructions for connecting a new 3-pin plug to the 2 wire cable.

The wires in the cable are coloured according to the following code:



Do **not** connect the blue or brown wire to the earth terminal of the plug.

Important: If for any reason the moulded plug is removed from the cable of this machine it must be disposed of safely.

Guarantee

We guarantee Bosch appliances in accordance with statutory/country-specific regulations (proof of purchase by invoice or delivery note).

Damage attributable to normal wear and tear, overload or improper handling will be excluded from the guarantee.

In case of complaint please send the machine, **undismantled**, to your dealer or the Bosch Service Centre for electric power tools.

Environmental Protection



Recycle raw materials instead of disposing as waste.

The machine, accessories and packaging should be sorted for environmental-friendly recycling.

These instructions are printed on recycled paper manufactured without chlorine.

The plastic components are labelled for categorized recycling.

Service and Customer Assistance

Great Britain

Robert Bosch Ltd. (B.S.C.)

P.O. Box 98

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Denham-Uxbridge

GB-Middlesex UB 9 5HJ

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☎ Advice line +44 (0) 18 95 / 83 87 91

Fax..... +44 (0) 18 95 / 83 87 89

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Fax..... +64 (0)9 / 47 82 914

CE Declaration of Conformity

We declare under our sole responsibility that this product is in conformity with the following standards or standardization documents: EN 50 144 according to the provisions of the directives 89/336/EEC, 98/37/EC.

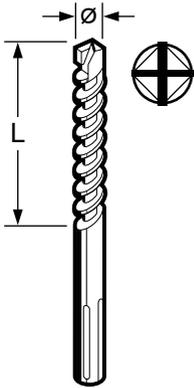
Dr. Gerhard Felten

Dr. Eckerhard Strötgen

ppa. Felten *i.v. Strötgen*

Robert Bosch GmbH, Geschäftsbereich Elektrowerkzeuge

Subject to change without notice

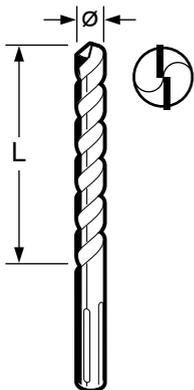


\varnothing L
(mm) (mm)

16	200	1 618 596 422
16	400	1 618 596 423
18	200	1 618 596 424
18	400	1 618 596 425
20	200	1 618 596 426
20	400	1 618 596 427
20	800	1 618 596 428
22	200	1 618 596 429
22	400	1 618 596 430
22	800	1 618 596 431
24	200	1 618 596 432
24	400	1 618 596 433
25	200	1 618 596 434
25	400	1 618 596 435
25	800	1 618 596 436

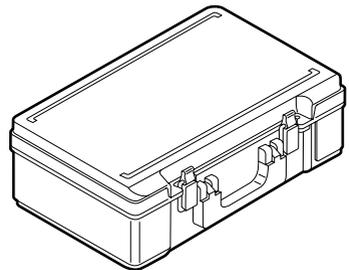
\varnothing L
(mm) (mm)

28	250	1 618 596 437
28	450	1 618 596 438
28	550	1 618 596 439
30	250	1 618 596 440
30	450	1 618 596 441
32	250	1 618 596 442
32	450	1 618 596 443
32	800	1 618 596 444
35	250	1 618 596 445
35	450	1 618 596 446
35	550	1 618 596 447
38	250	1 618 596 448
38	450	1 618 596 449
40	250	1 618 596 450
40	450	1 618 596 451
40	800	1 618 596 452



\varnothing L
(mm) (mm)

12	200	1 618 596 415
12	400	1 618 596 416
12	550	1 618 596 417
14	200	1 618 596 418
14	400	1 618 596 419
15	200	1 618 596 420
15	400	1 618 596 421

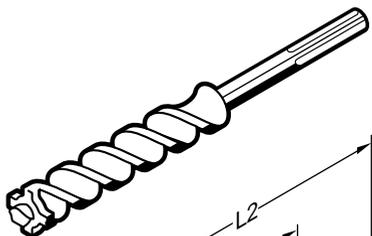


505 x 390 x 126 mm 2 605 438 461



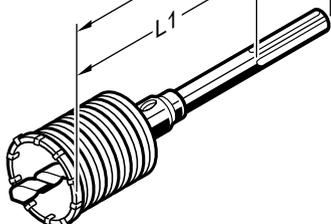
Ø L
(mm) (mm)

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45	850	1 618 596 456
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55	850	1 618 596 458



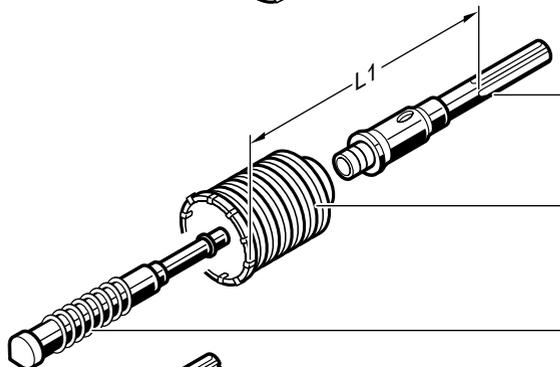
Ø L1 L2
(mm) (mm) (mm)

45	160	290	F 00Y 145 188
45	420	550	F 00Y 145 189
50	160	290	F 00Y 145 190
50	420	550	F 00Y 145 191
55	160	290	F 00Y 145 192
55	420	550	F 00Y 145 193
68	160	290	F 00Y 145 194
68	420	550	F 00Y 145 195
82	160	290	F 00Y 145 196
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90	160	290	F 00Y 145 198
90	420	550	F 00Y 145 199



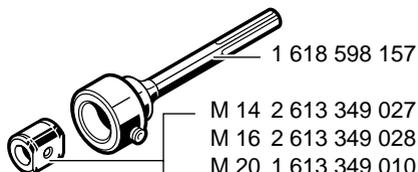
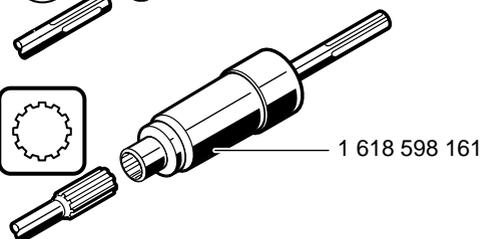
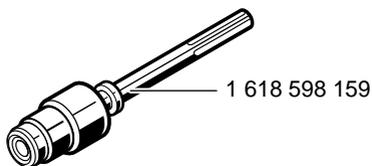
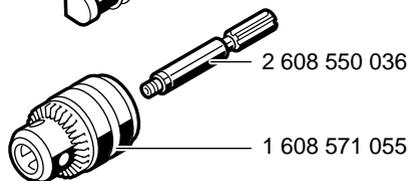
Ø L1
(mm) (mm)

L=225	1 618 598 156
L=570	1 618 598 155



40	170	500	1 618 550 079
50	170	500	1 618 550 080
65	170	500	1 618 550 081
80	170	500	1 618 550 082
90	170	500	1 618 550 083

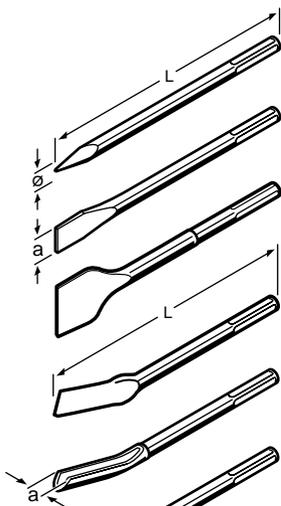
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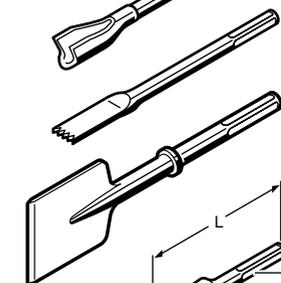
M 14	2 613 349 027
M 16	2 613 349 028
M 20	1 613 349 010
M 22	1 613 349 011
M 24	1 613 349 012
M 27	1 613 349 013
M 30	1 613 349 014



**Ø/a L
(mm) (mm)**

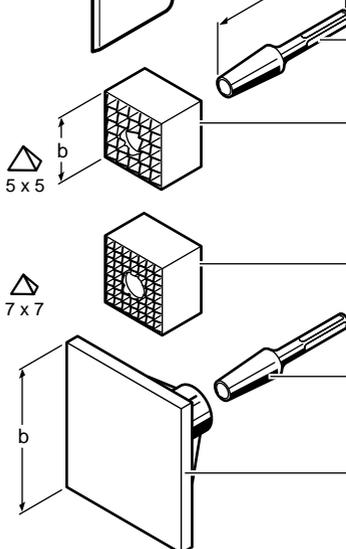


Ø18	280	1 618 600 023
Ø18	400	1 618 600 011
Ø18	600	1 618 600 012
25	280	1 618 600 210
25	400	1 618 600 202
25	600	1 618 600 203
50	400	1 618 601 006
80	300	1 618 601 008
115	300	1 618 601 007



10	300	1 618 601 303
26	300	1 618 601 101
32	300	1 618 601 102
35	380	2 608 690 000
32	300	1 618 601 302
90	400	2 608 690 003

**b/L
(mm)**



220 mm	1 618 609 003
60 x 60 mm	1 618 623 205
60 x 60 mm	1 618 623 206
220 mm	1 618 609 003
120 x 130 mm	1 618 633 101
150 x 150 mm	1 618 633 102