fein BLK1.3TE Nibbler for Trapezoidal Instruction Manual

BLK1.3TE Nibbler for Trapezoidal Instruction Manual

Contents

BLK1.3TE Nibbler for Trapezoidal

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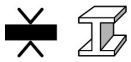
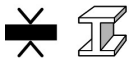
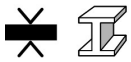
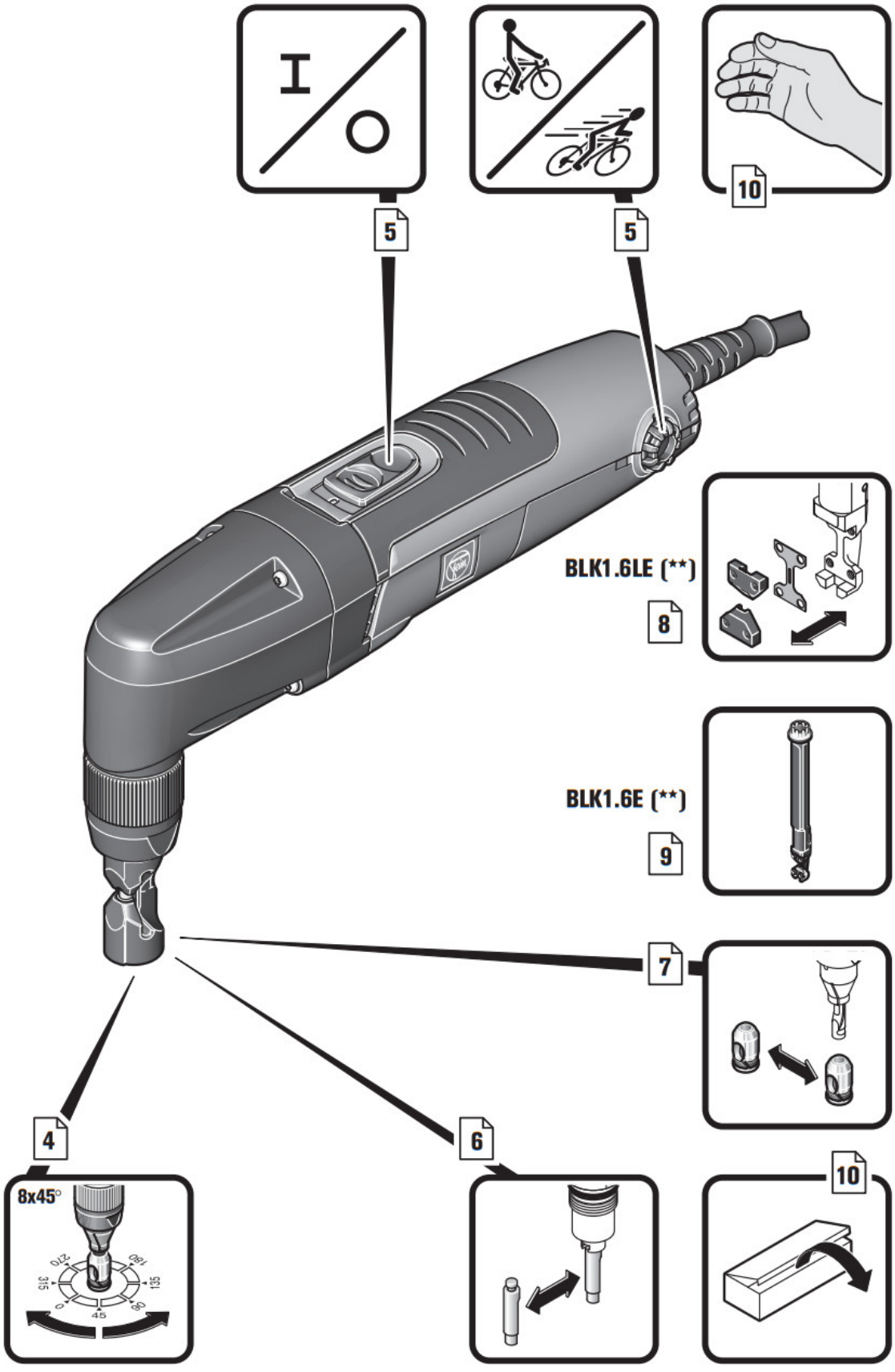
		BLK1.3TE (**)	**BLK1.3CSE (**)**	**BLK1.6E (**)**	**BLK1.6LE (**)**	**BLK2.0E (**)**
		7 232 ..	7 232 ..	7 232 ..	7 232 ..	7 232 ..
P1	W	350	350	350	350	350
P2	W	210	210	210	210	210
n0	/min	1000–1800	1000–1800	800–1500	800–1500	500–1000
nS	m/min	2,3	2,3	1,9	2,7	1,0
 Fe 400	mm	1,3	1,3	1,6	1,6	2,0
 Fe 600	mm	0,8	0,8	1,0	1,0	1,5
 Fe 800	mm	0,6	0,6	0,7	0,7	1,0
 Al 250	mm	2,0	2,0	2,5	2,5	2,5
	mm	19,0	19,0	22,0	24,0	18,0
	mm	25,0	15,0	30,0	65,0	4,0
	kg	1,75	1,75	1,8	1,9	1,8
LpA	dB	88,5	88,5	90,2	90,2	89,9
KpA	dB	3,0	3,0	3,0	3,0	3,0
LwA	dB	99,5	99,5	101,2	101,2	100,9
KwA	dB	3,0	3,0	3,0	3,0	3,0
LpCpeak	dB	107,1	107,1	114,4	114,4	112,6
KpCpeak	dB	3,0	3,0	3,0	3,0	3,0
ah	m/s^2	7,6	10,0	10,3	4,1	9,0
Ka	m/s^2	1,5	1,5	1,5	1,5	1,5


5
5
10
BLK1.6LE (**)
8
BLK1.6E (**)
9
7
4
6
10
8x45°


8x45°
225
180
270
135
315
90
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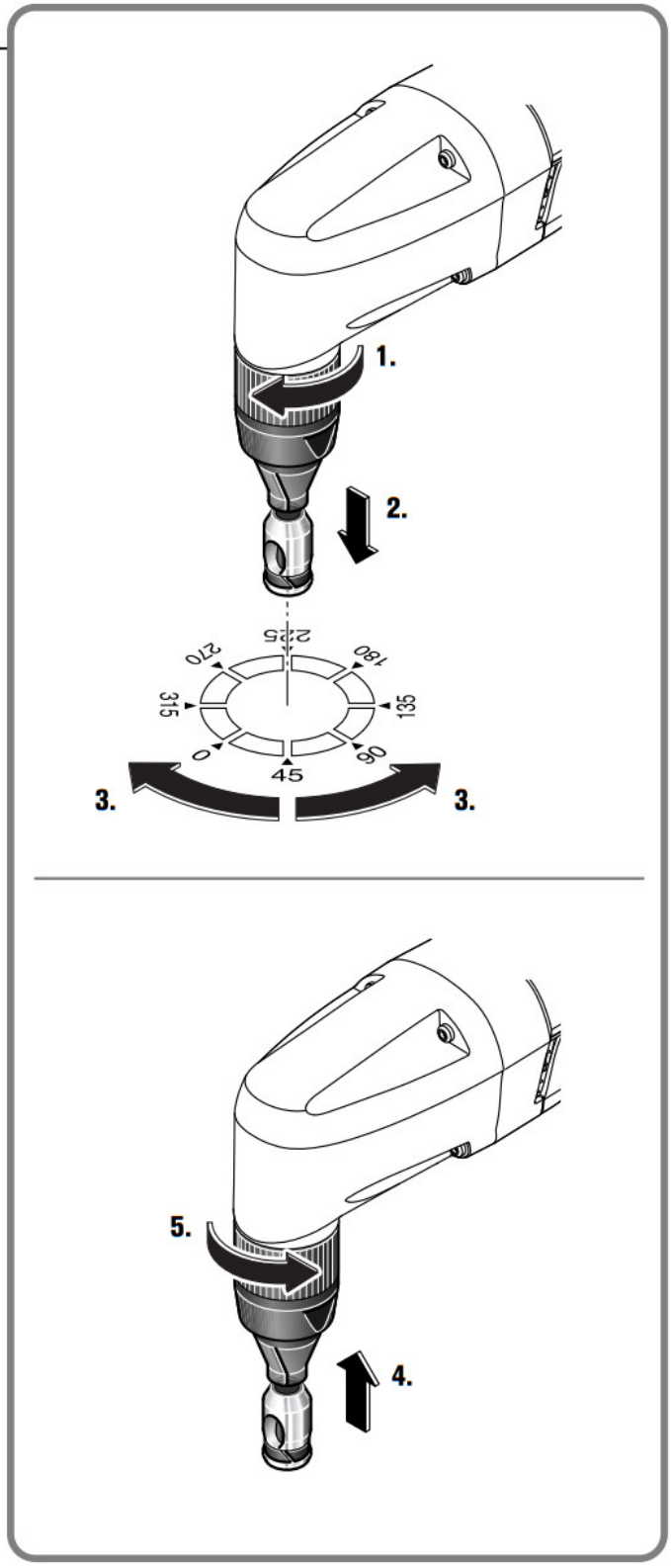
45


1.
2.
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180
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135
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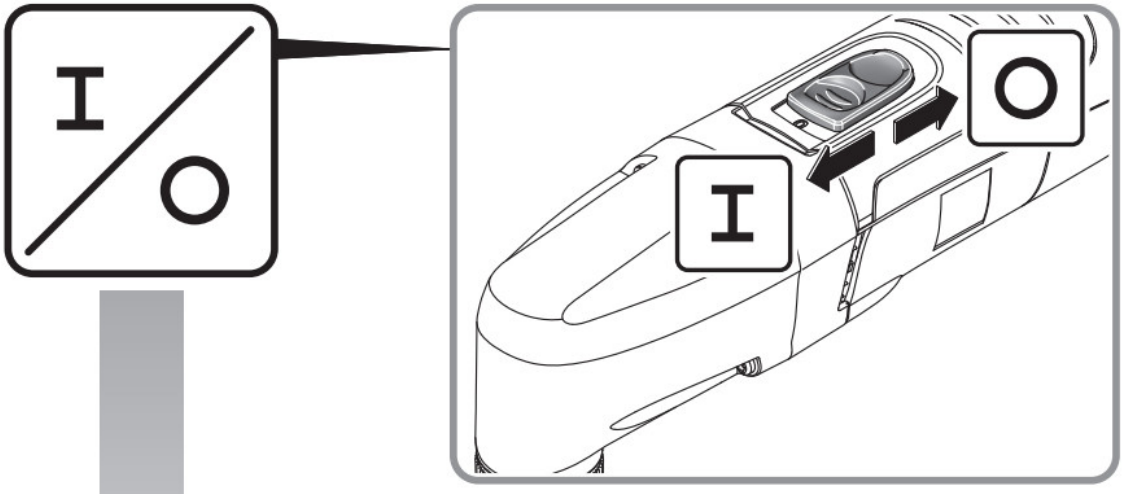
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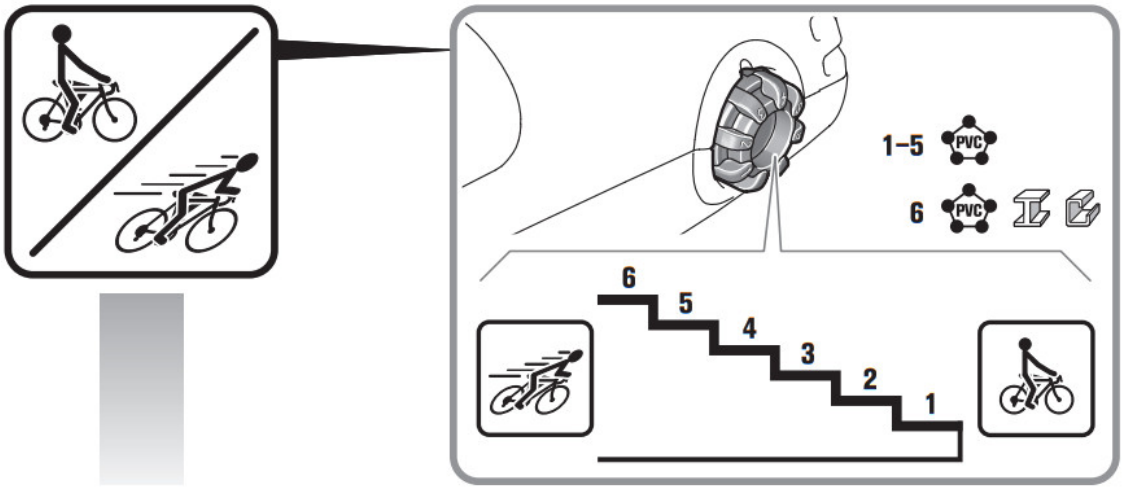
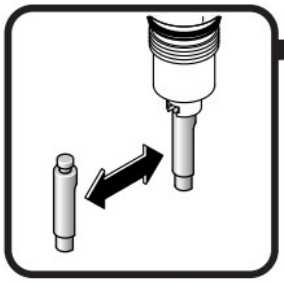
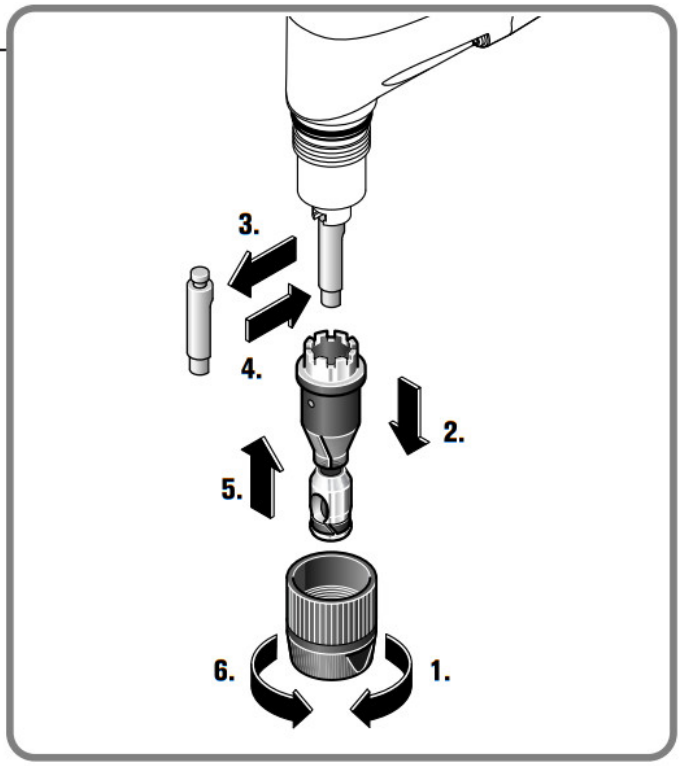

1–5
PVC
6
PVC
6
5
4
3
2
1



BLK1.3TE/CSE (**)
BLK1.6E (**)
BLK2.0E (**)



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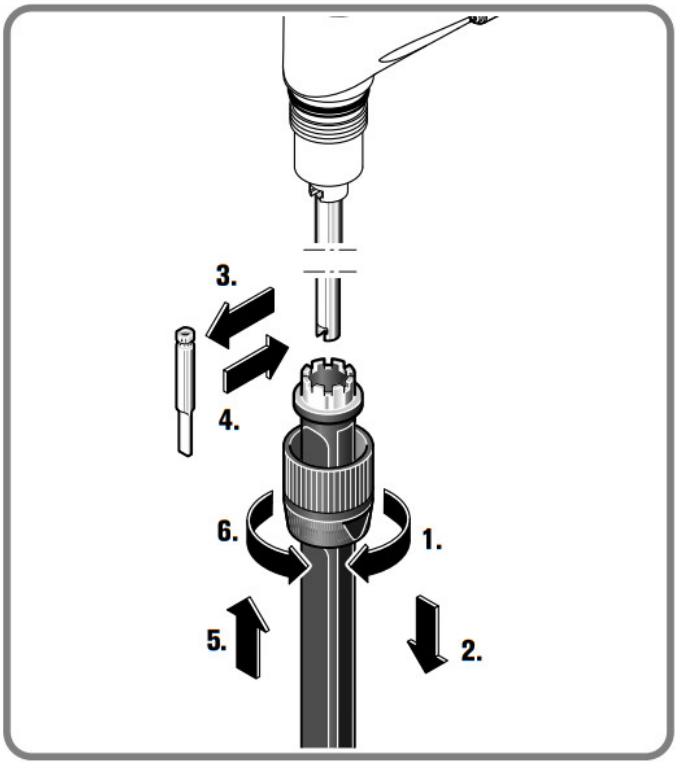

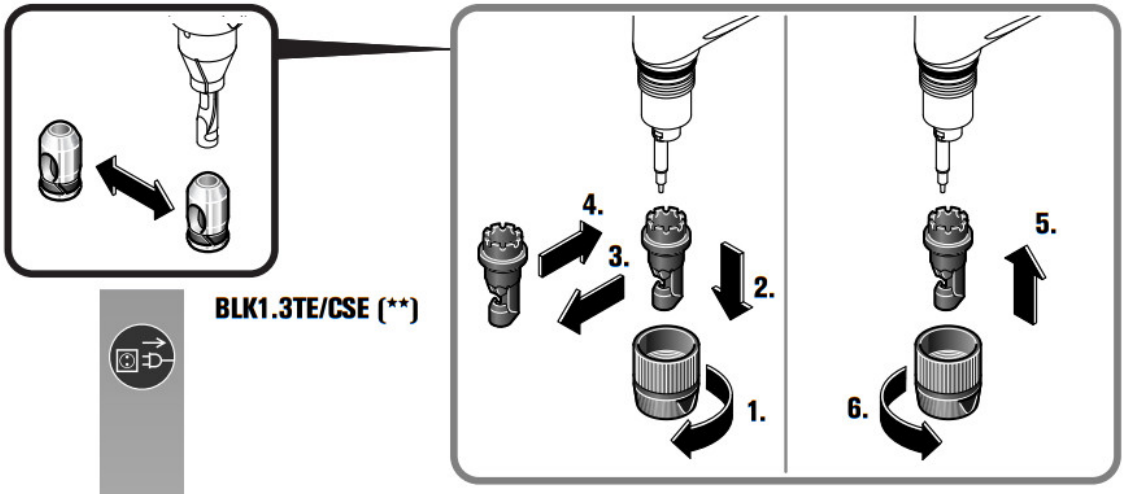

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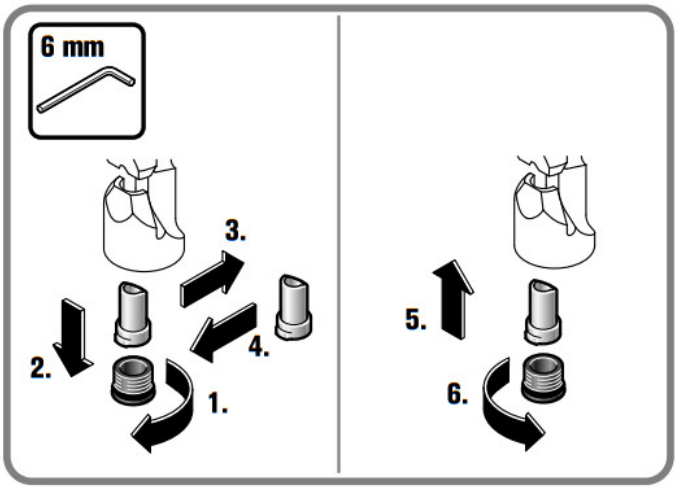
BLK1.6E (**)



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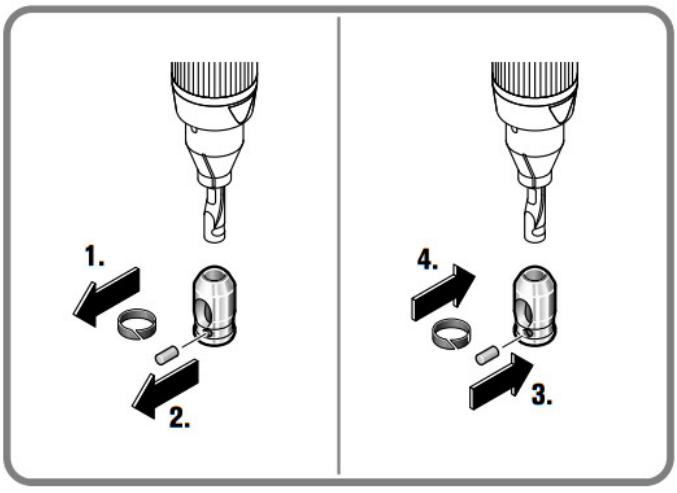

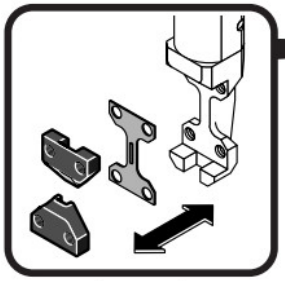

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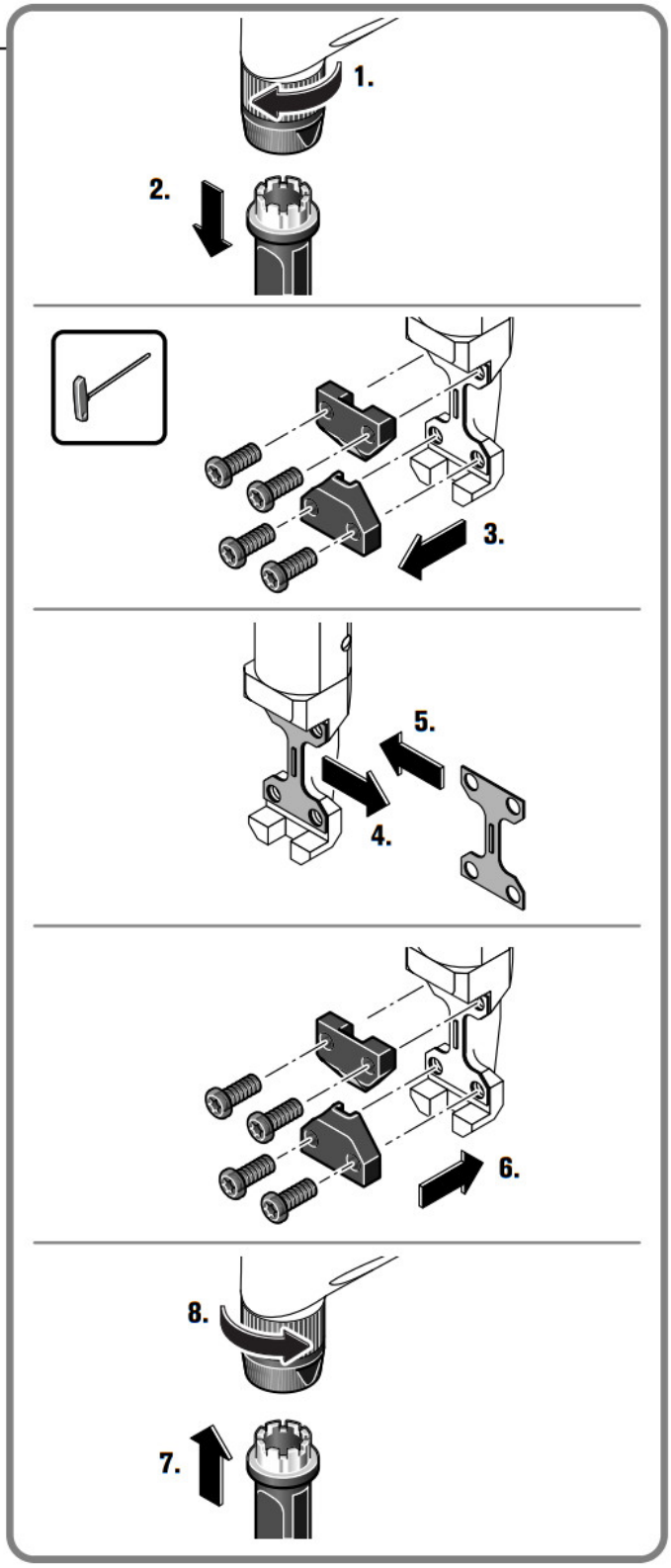

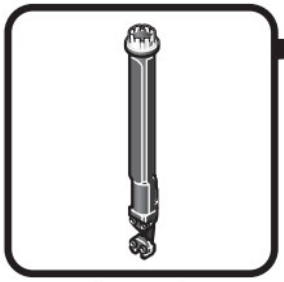

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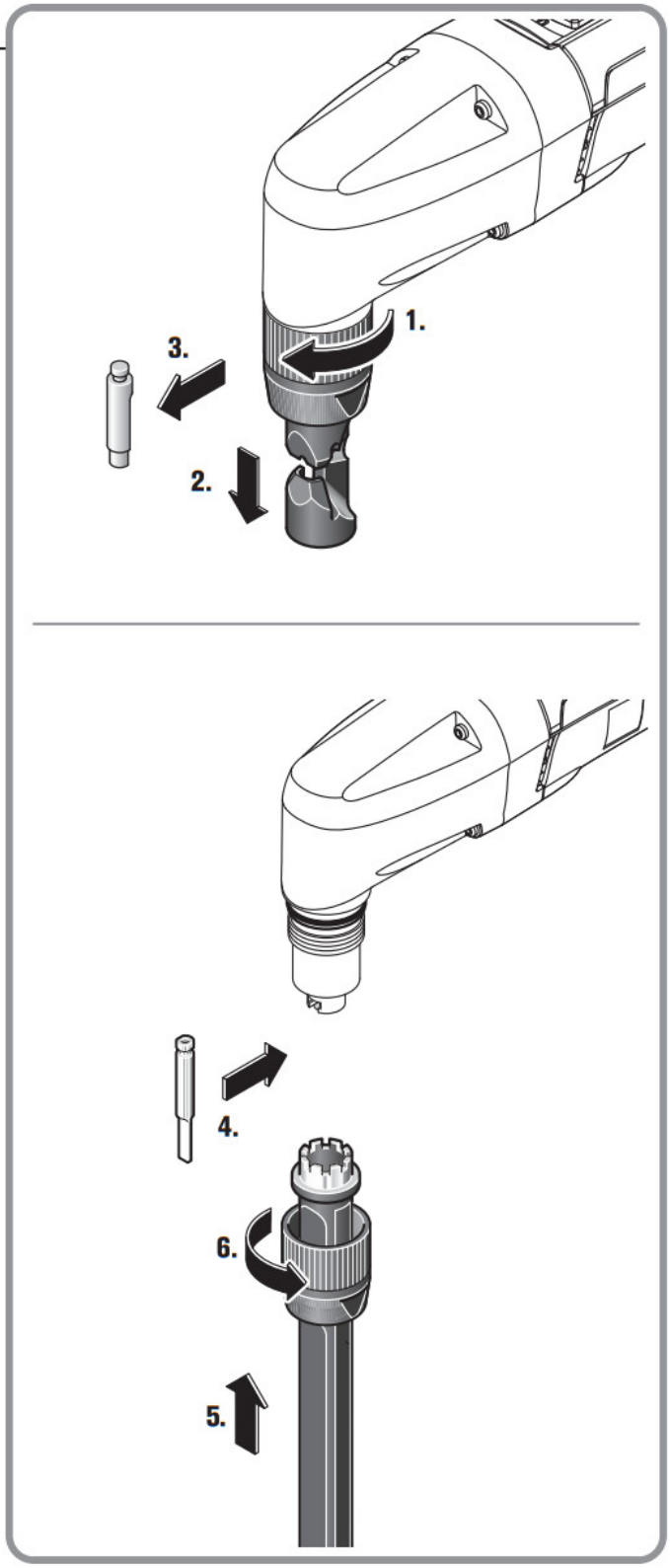
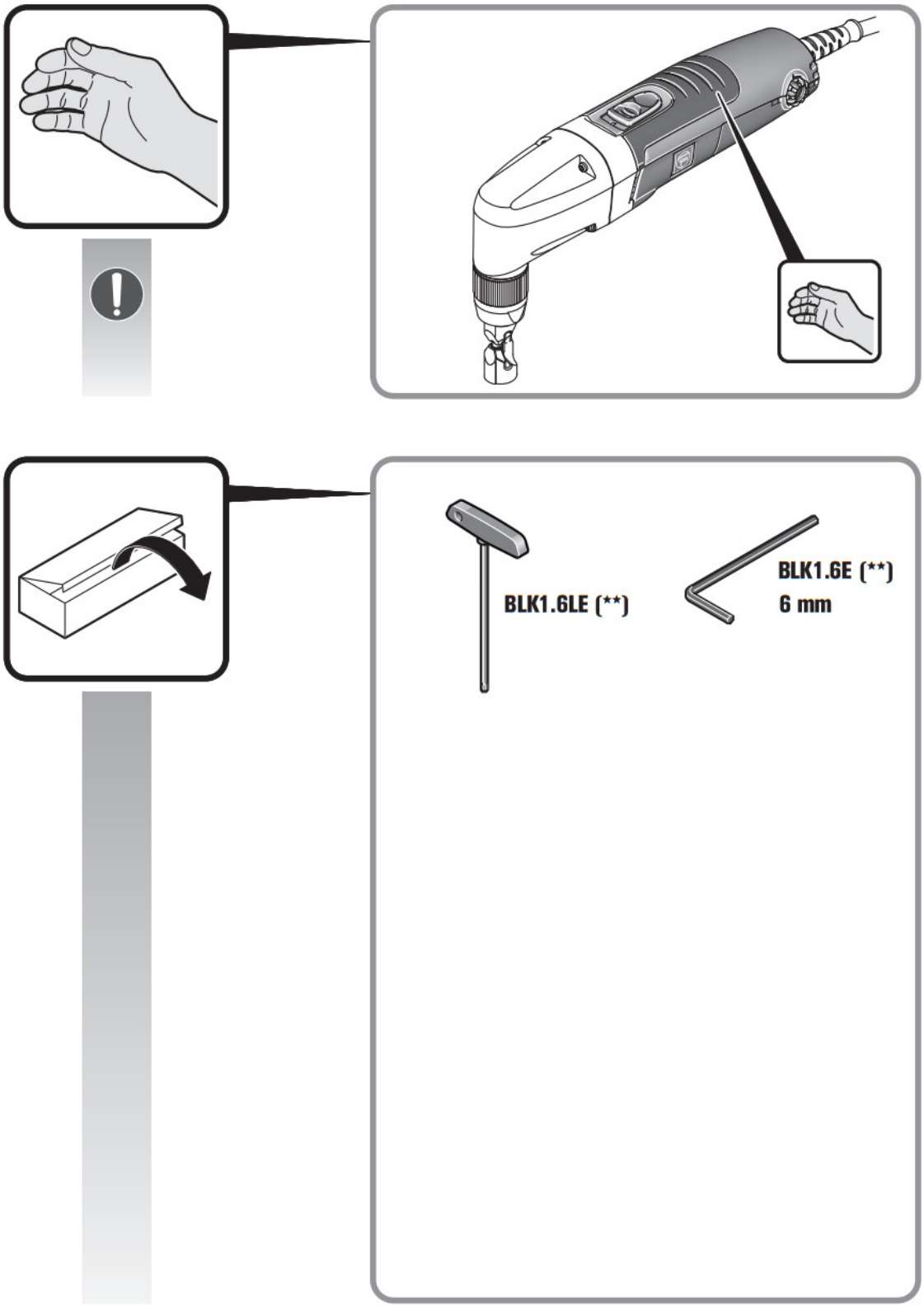




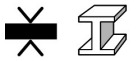
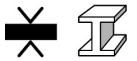
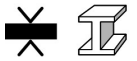
Translation of the Original Instructions.

Symbols, abbreviations and terms used.

Symbol, character	Explanation
	Make sure to read the enclosed documents such as the Instruction Manual and the Ge neral Safety Instructions.

	Observe the instructions in the text or graphic opposite!
	Observe the instructions in the text or graphic opposite!
	General prohibition sign. This action is prohibited.
	Before commencing this work step, pull the mains plug out of the socket. Otherwise th ere will be danger of injury if the power tool should start unintentionally.
	Use eye protection during operation.
	Use ear protection during operation.
	Use protective gloves during operation.
	Gripping surface
CE	Confirms the conformity of the power tool with the directives of the European Commun ity.
UK CA	Confirms the conformity of the power tool with the directives of Great Britain (England, Wales, Scotland).
⚠ **WARNING**	This sign indicates a possible dangerous situation that could cause severe or fatal inju ry.
	Worn out power tools and other electrotechnical and electrical products should be sort ed separately for environmental-friendly recycling.
	Switching on
	Switching off
	Product with double or reinforced insulation
	Steel
	Aluminium
	Plastic

	Low stroke rate
	High stroke rate
(**)	may contain numbers and letters
(Ax – Zx)	Marking for internal purposes

Character	Unit of measurement, international	Unit of measurement, national	Explanation
P1	W	W	Power input
P2	W	W	Output
n0	/min, min, rpm, r/min	rpm	Stroke rate at no-load
nS	m/min	m/min	Cutting speed
U	VV	VV	Rated voltage
f	Hz	Hz	Frequency
M…	mm	mm	Size of metric thread
Ø	mm	mm	Diameter of a round part
 Fe 400	mm	mm	Max. work-piece thickness for steel with up to 400 N/mm²
 Fe 600	mm	mm	Max. work-piece thickness for steel with up to 600 N/mm²
 Fe 800	mm	mm	Max. work-piece thickness for steel with up to 800 N/mm²
 Al 250	mm	mm	Max. work-piece thickness for aluminium with up 250 N/mm²
	mm	mm	Diameter of pilot-drill for inside cut-outs
	mm	mm	Min. inside curve radius
	kg	kg	Weight according to EPTA-Procedure 01
LpA	dB	dB	Sound pressure level
LwA	dB	dB	Sound power level
LpCpeak	dB	dB	Peak sound pressure level
K…			Uncertainty
a	m/s²	m/s²	Vibrational emission value according to EN 62841 (vector sum of three directions)
ah	m/s²	m/s²	Vibrational emission value
	m, s, kg, A, mm, V, W, Hz, N, °C, dB, min, m/s²	m, s, kg, A, mm, V, W, Hz, N, °C, dB, min, m/s²	Basic and derived units of measurement from the international system of units SI.

For your safety.

⚠ **WARNING**

Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric

shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

 Do not use this power tool before you have thoroughly read and completely understood this Instruction Manual and the enclosed “General Safety Instructions” (document number 3 41 30 465 06 0). The documents mentioned should be kept for later use and enclosed with the power tool, should it be passed on or sold.

Please also observe the relevant national industrial safety regulations.

Intended use of the power tool:

Hand-guided nibbler for cutting sheet metal, cut-outs and tight curves in weather-protected environments without water supply using the application tools and accessories recommended by FEIN.

Special safety instructions.

Use auxiliary handle(s), if supplied with the tool. Loss of control can cause personal injury.

Wear personal protective equipment. Depending on application, use face shield, safety goggles or safety glasses. Where appropriate, wear dust mask, hearing protectors, gloves and workshop apron capable of stop-ping small abrasive or workpiece fragments. The

eye protection must be capable of stopping flying debris generated by various operations. The dust mask or respirator must be capable of filtrating particles generated by your operation. Prolonged exposure to high intensity noise may cause hearing loss.

Secure the work piece firmly. A work piece that is gripped tightly in a clamping device or vice, is more secure than if held by hand.

Do not rivet or screw any name-plates or signs onto the power tool. If the insulation is damaged, protection against an electric shock will be ineffective. Adhesive labels are recommended.

Do not use accessories which are not specifically designed and recommended by the power tool manufacturer. Safe operation is not ensured merely because an accessory fits your power tool.

Clean the ventilation openings on the power tool at regular intervals using non-metal tools. The blower of the motor draws dust into the housing. An excessive accumulation of metallic dust can cause an electrical hazard.

Before putting into operation, check the mains connection and the mains plug for damage.

Recommendation: The tool should always be supplied with power via a residual current device (RCD) with a rated current of 30 mA or less.

Hand/arm vibrations

The vibration emission level given in this information sheet has been measured in accordance with a standardised test given in EN 62841 and may be used to compare one tool with another. It may be used for a preliminary assessment of exposure.

The declared vibration emission level represents the main applications of the tool. However, if the tool is used for different applications, with different accessories or poorly maintained, the vibration emission may differ. This may significantly increase the exposure level over the total working period.

An estimation of the level of exposure to vibration should also take into account the times when the tool is switched off or when it is running but not actually doing the job. This may significantly reduce the exposure level over the total working period.

Identify additional safety measures to protect the operator from the effects of vibration such as: maintain the tool and the accessories, keep the hands warm, organisation of work patterns.

Operating Instructions.

 Guide the power tool toward the work piece only when switched on.

While cutting, hold the power tool as upright as possible to the work-piece surface.

Guide the power tool uniformly and with light feed in the cutting direction. Excessive feed reduces the tool life of the application tools.

Do not cut steel sheets where welded. Do not cut layered sheets exceeding the max. work-piece thickness.

To increase the tool life of punch and die, it is recommended to apply a lubricating agent alongside the intended cutting line:

- For cuts in steel sheet: Cutting paste or cutting oil,
- For cuts in aluminium: Petroleum.

For inside cuts, a pilot hole is required; see “Technical Data” for diameters.
Do not switch the power tool off until after having removed it from the cutting path.
The symptom for worn punches and dies are a clearly increased feed force at lower working progress.
BLK1.3TE (**)/BLK1.3CSE (**)/BLK1.6E (**)/BLK1.6LE (**): Punch and die cannot be reground.
BLK2.0E (**): The punch – not the die – can be reground as long as the length of the reground punch does not fall below the minimum die length.

Die	**Minimum punch length**
BLK2.0E (**):	
3 13 09 040 00 2	45 mm

BLK2.0E (**): For template cuts, the template is traced via the lower cylindrical part of the punch guide. The clearance between template and the actual cutting edge is 2.5 mm.
The template should be at least 2 mm thick; the total thickness of template and work piece may not exceed 5.5 mm.
BLK1.6E (**): For cutting deep-channel trapezoidal sheet metal, the optionally available profile set 160 can be mounted. (see page 9)

Repair and customer service.

 When working metal under extreme operating conditions, it is possible for conductive dust to settle in the interior of the power tool. The total insulation of the power tool can be impaired. Blow out the interior of the power tool via the ventilation slots frequently with dry and oil-free compressed air, and connect a residual current device (RCD) on the line side.

 Lightly grease the sliding surfaces between die holder and punch.
Products that have come into contact with asbestos may not be sent in for repair. Dispose of products contaminated with asbestos according to the applicable country-specific regulations for such disposal.
When the machine’s power supply cord is damaged, it must be replaced by the manufacturer or their representative.
If required, you can change the following parts yourself: Application tools

Warranty and liability.

The warranty for the product is valid in accordance with the legal regulations in the country where it is marketed. In addition, FEIN also provides a guarantee in accordance with the FEIN manufacturer’s warranty declaration.
The delivery scope of your power tool may include only a part of the accessories described or shown in this Instruction Manual.

Declaration of conformity.

This CE declaration is only valid for European Union and EFTA (European Free Trade Association) countries and only for products intended for the EU- or EFTA market. After placing the product on the EU market the UKCA mark loses its mark validity.
The UKCA declaration is only valid for the Great Britain market (England, Wales and Scotland) and only for products intended for the Great Britain market. After placing the product on the Great Britain market the CE mark loses its mark validity.
FEIN declares itself solely responsible for this product conforming with the relevant provisions given on the last

page of this Instruction Manual.
Technical documents at: C. & E. Fein GmbH,
D-73529 Schwäbisch Gmünd

Environmental protection, disposal.

Packaging, worn out power tools and accessories should be sorted for environmental-friendly recycling.

This CE declaration is only valid for European Unionand EFTA (European Free Trade Association) countries and only for products intended for the EU- or EFTA market. After placing the product on the EU market the UKCA mark loses its mark validity.

CE

DIN EN 62841-1:2015 + AC:2015
DIN EN 62841-2-8:2016
DIN EN 55014-1:2017 + A11:2020
DIN EN 55014-2:2015
DIN EN 55014-2:1997+A1:2001+
A2:2008+AC:1997
DIN EN 61000-3-2:2014
DIN EN 61000-3-2:2019
DIN EN 61000-3-3:2013+A1:2019
2006/42/EG, 2014/30/EU, 2011/65/EU

i. V. S. Böhm Director of Quality Management	i. V. Dr. M. Hergesell Director of Product Development

Schwäbisch Gmünd-Bargau, 28.05.2021

The UKCA declaration is only valid for the Great Britain market (England, Wales and Scotland) and only for products intended for the Great Britain market. After placing the product on the Great Britain market the CE mark loses its mark validity.

BS EN 62841-1:2015 + AC:2015
BS EN 62841-2-8:2016
BS EN 55014-1:2017 + A11:2020
BS EN 55014-2:2015
BS EN 55014-2:1997+A1:2001+A2:2008+AC:1997
BS EN 61000-3-2:2014
BS EN 61000-3-2:2019
BS EN 61000-3-3:2013+A1:2019
Suppl y of Machinery Regulations 2008,
EMC Regulation 2006, The Restriction of the Use of Certain Hazardous Substances In ectrical and Electronic Equipment Regulations 2012

i. V. S. Böhm Director of Quality Management	i. V. Dr. M. Hergesell Director of Product Development

Schwäbisch Gmünd-Bargau, 28.05.2021

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3 41 01 334 06 0. 2023-05-25.

Documents / Resources

	fein BLK1.3TE Nibbler for Trapezoidal [pdf] Instruction Manual BLK1.3TE Nibbler for Trapezoidal, BLK1.3TE, Nibbler for Trapezoidal, Trapezoidal

References

- High quality power tools and accessories | C. & E. Fein GmbH