MANUAL BEVELLING AND DEBURRING SYSTEM B15 INOX



Order No. 25 250

Operating instructions

SUBJECT TO CHANGE

Contents:

General information	3
Description of the B15 INOX machine	3
Identification data	4
Tests	5
Warranties	5
Safety regulations	5
Technical specifications	6
Unpacking the device	7
Controls B15 INOX	8
Use	8
Setting the size of the deduction	9
Bevelling	11
Changing the angle or shape of the chamfer. Replacing the milling head	12
Replacing cutting inserts	14
Maintenance and operation	14
Spare parts	15
List of spare parts	15-20



Always read the operating instructions carefully before use

1. General information

Thank you for purchasing one of our machines. We hope you will be completely satisfied with it.

This manual contains all the instructions for installing, adjusting, operating, and maintaining the machine.

B15 INOX in accordance with applicable safety standards.

The information and data in this manual are subject to change as a result of further improvements to the machines. For the avoidance of doubt, please contact N.KO Machines if you find any discrepancies.

Never perform any operations on the machine before reading and understanding the instructions in the manual. A large proportion of accidents that occur in the workplace are caused by failure to follow the instructions and recommendations contained in the manual.

Graphic symbols in the manual are used to highlight important information regarding safety and machine operation.



Important information for the personal safety of the operator.

Important:

Instruction that must be followed to ensure proper operation of the machine.

2. Description of the B15 INOX machine

The B15 INOX machine is intended only for the following activities:

The B15 INOX is designed exclusively for chamfering and deburring metal materials in workshops or production halls. The B15 INOX was designed primarily for chamfering stainless steels.

The B15 INOX machine was designed primarily for use with the Xpipe fixture, a guide plate, and the appropriate handle for the Xpipe fixture.

However, it is also possible to use the machine independently, especially in cases where you need to chamfer shaped edges or various holes in the material.

The machining angle can be changed by replacing the milling head.

The B15 INOX can also round the edges of workpieces. A special tool is also required for this application, see text below.

Only use the machine in an environment protected from rain, snow, and other adverse weather conditions.

3. Identification data and CE declaration of conformity

The identification data for the B15 INOX machine is provided on a label attached to the machine body.

Manufacturer: N.KO spol. s r.o.

Address: Táborská 398/22, 29301 Mladá Boleslav, Czech Republic

Company ID: 26161109

Product:

Machine name / Model: Hand-held plate beveling machine

Type / Model: B15 INOX

Serial number: see machine nameplate

We hereby declare that the above-mentioned product conforms to the relevant provisions of the following EU

- 2006/42/EC Machinery Directive
- 2014/30/EU Electromagnetic Compatibility (EMC) Directive
- 2014/35/EU Low Voltage Directive

Applied harmonized standards:

- EN ISO 12100:2010 Safety of machinery General principles for design
- EN 60204-1:2018 Safety of machinery Electrical equipment of machines
- EN ISO 13849-1:2015 Safety of machinery Safety-related parts of control systems
- EN 55014-1 and EN 55014-2 EMC standards for machines with electric motors

Place and date of issue:

Mladá Boleslav, August 12, 2025

Name and function of the responsible person:

Milan Richtr, CEO

4. Tests

The edge bevelling machine is tested in our technical testing laboratory.

During this test, the correct functioning of chamfering sheets and profiles of various types and sizes is tested.

5. Warranties

The seller provides a warranty for the B15 INOX bevelling system that the goods will be free of material and manufacturing defects for a period of 12 months from the date of delivery.

A warranty is provided for the flawless functioning of the goods and the materials used for a period of 12 months from the date of delivery of the goods.

The seller undertakes to ensure the removal of any defects covered by the warranty free of charge and without undue delay so that the buyer can use the goods properly. If the buyer exercises their rights arising from liability for defects not covered by the warranty, they shall reimburse the seller for the costs associated with this.

The manufacturer considers the warranty invalid in the event of:

- improper use of the machine.
- use contrary to national or international standards
- incorrect installation
- defective power supply
- serious maintenance deficiencies
- Unauthorized modifications or interventions
- use of spare parts and accessories for the model in question that are not original and approved by the manufacturer
- complete or partial failure to follow the instructions in this manual
- exceptional events, natural disasters, or other events.

6. Safety regulations



To prevent injury, observe the following

Before chamfering, check that the machine is not mechanically or otherwise damaged.

Only start the machine if the power cord is not damaged in any way.

Check the power cord regularly. If damaged, have it replaced immediately by a service center authorized to perform such repairs. Contact your supplier.

Personal protection against injury

When working, wear safety goggles, sturdy work shoes, hearing protection, suitable headgear, or a protective helmet.

- Only connect the machine to the mains when the machine switch is in the off position.
- Before each use, check that the device and power supply are not damaged. Do not use the device if it is damaged in any way.
- Protect the device from moisture and do not use it in a damp environment.
- Ensure that the workplace is well lit to prevent the risk of injury or damage to your eyesight.
- Caution: the tool (cutter) is sharp and poses a risk of injury. Wear protective gloves when replacing it and **never touch the cutter when it is in motion.**
- The material being machined must always be securely clamped and in a horizontal position. The optimal height of the workpiece is 900 mm above the ground.
- During work, pay attention to the power cord; it should always be laid loosely on the ground away from the material being machined and other sharp objects.
- After work, disconnect the device from the power supply.
- Do not overload the machine's motor. The machine works best when it is not overloaded.
- Hold the device with both hands when working.
- Be aware of the risk of injury from hot splinters.

Important:

In case of damage, have the machine repaired by a service center authorized to perform such repairs. For more information, contact your supplier.

7. Technical specifications

Bevel angle	interchangeable head 30° / 37.5° / 45° / 50° / 52.5°/ 60° other angles on request
Bevel width	0 to 10mm / .4in (15mm / .6in with Xpipe attachment)
Round-off	R 2.5 mm (.09in) / R 3.5 mm (.13in) / R 4 mm (.15in)
Motor	Electric
Motor power	2850W
Speed	1950 rpm
Weight	10.5 kg (23lb)
Number of cutting plates	3

Chamfering holes and openings — minimum dimensions

Bevel angle a°	Minimum opening diameter Head type
30°	31 mm (1.22in)
37.5°	27 mm (1.06in)
45	27 mm (1.06in)
50	27 mm (1.06in)
60°	20 mm (.78in)
R 2.5 mm (R .09in)	38 mm (1.4in)
R 3.5/4 mm (R .13in / .15in)	38 mm (1.4in)

8. Unpacking the device

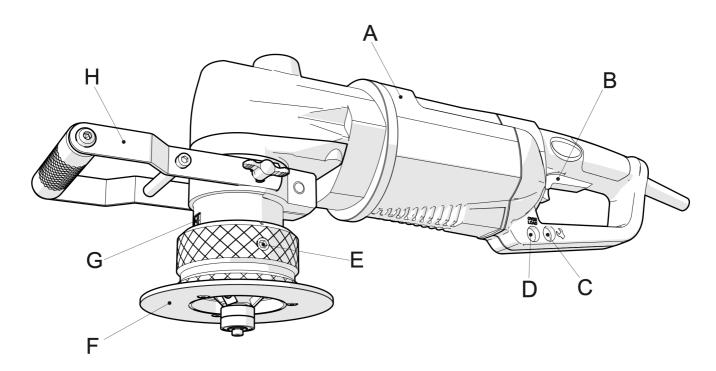
Unpack the machine from the cardboard box and check that everything is in order and that the machine is undamaged. If you have any questions, please contact your dealer.

The B15 INOX machine is supplied with the necessary tools for operation, but without the tool itself.

Tools can be purchased separately. An overview of tools and accessories can be found in the N.KO Machines catalog, on the website, or by contacting your supplier.

9. Controls B15 INOX

Fig. 9.0.1



- A. Motor housing
- B. Main switch
- C. Carbon brush status indicator light
- D. Machine overload indicator light
- E. Pressure plate clamp locking screws Securing the set feed rate
- F. Pressure plate with sleeve
- G. Bevel adjustment scale
- H. Auxiliary handle

10.Use

Important:

The device may only be used if it is fitted with original cutting inserts supplied by your supplier or the device manufacturer. It is prohibited to use inserts other than the original ones.

10.1 Setting the cutting depth

Important: The machine is primarily designed for use with the Xpipe device. To use with Xpipe, follow the instructions in the Xpipe manual. You received the Xpipe manual together with the Xpipe device.

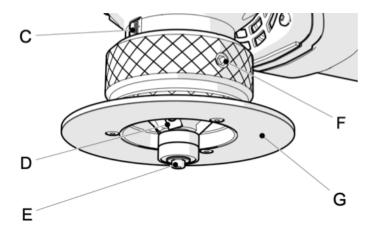
A Caution:

Wear work gloves and other personal protective equipment when adjusting the machine. Operations must only be performed when the machine is switched off and disconnected from the power supply.

If you are using the machine independently without the Xpipe device, proceed as follows:

- Disconnect the machine from the power supply.
- Loosen the adjustment locking screws (Fig. 10.1.1. position F).
- Turn the guide plate (Fig. 10.1.1. position G) to adjust the removal size. You can read the current setting on the scale (Fig. 10.1.1. position C). The scale is for reference only and the resulting removal may vary when using different milling head angles.
- After adjustment, tighten both screws again (Fig. 10.1.1. position F).

Fig. 10.1.1.



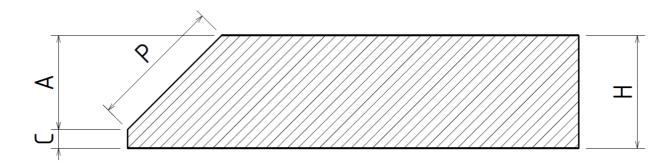
Important:

The maximum removal is 10 mm of bevel width (dimension P, Fig. 10.1.1). This removal must be achieved in several steps. It depends on the strength of the material. We recommend performing a test.

Start with a smaller removal and gradually increase the value until the machine is comfortable to work with and the inserts are able to remove material smoothly without increased vibration. Use the tables below for approximate settings.

We recommend keeping a work log where you can record the measured values and your own machining procedure.

Fig. 10.1.1



For approximate settings of the removal rate and the machining process itself, you can use the setting tables for individual chamfer angles.

Important:

The values in the table are derived from the so-called point 0. Point 0 is the point where the cutter first touches the edge of the material. This point can be determined by gradually rotating the pressure plate (Fig. 9.0.1 position G) and applying the tool to the edge of the material until the cutter touches the workpiece.

45° - For a full bevel (P=15mm), it is necessary to turn the pressure plate 5.2 turns

Chip no.	Hypotenuse P	Bevel height A	Number of turns of the pressure plate
I.	5mm	3.5	2 revolutions
II.	11 mm	7.8 mm	+ 2 turns
III.	15	10.6 mm	+ 1.2 turns

See Fig. 10.1.1.

30° - For a full bevel (P=15mm), it is necessary to turn the pressure plate by 6.2 turns

Chip no.	Hypotenuse P	Bevel height A	Number of turns of the pressure plate
I.	5mm	4.3	2 revolutions
II.	10 mm	8.6 mm	+ 2 turns
III.	15	13	+ 2.2 revolutions

See Fig. 10.1.1.

Important:

The machine was designed for preparing weld surfaces. The machining accuracy is within +/-1 mm. Perfect preparation of the material edges is a prerequisite for achieving satisfactory results. Unfortunately, the material is often burnt or undercut. These inaccuracies will naturally affect the machining result.

Important:

If it is difficult to machine the bevel in the number of steps we recommend, we recommend dividing the process into several chips. The reason may be wear on the cutting inserts or poorer machinability of the material.

10.2 Chamfering

- Connect the device to the power supply
- After carefully adjusting the first cut, see section 10.1, hold the device with both hands and turn on the machine using the main switch.
- Place the machine on the material so that the pressure/contact plate (Fig. 9.0.1 position G) is in contact with the material over the maximum possible area.
- Slowly move the machine closer to the material until you feel the cutter engaging. CAUTION!!! At this point, kickback may occur, so be careful.
- Continue pushing the machine in the direction of the material until the cutter is fully immersed in the material at the set chip profile. The contact roller (Fig. 9.0.1 position E) must now touch the edge of the workpiece. The pressure plate (Fig. 9.0.1 position G) must lie flat on the material.
- You can now start machining from left to right. Move the machine at a constant speed so that the cutter is able to remove material smoothly in the set chip profile. Otherwise, the cutter will be pushed out of the material and the bevel will be uneven.

A Caution:

Wear work gloves and other personal protective equipment when working. Maintenance operations must be performed on a machine that is at rest and disconnected from the power supply.

Important:

We recommend using a suitable cutting oil for machining. For example, MolyInox Art. No. 27256. MolyInox cutting oil significantly extends the service life of the cutting blades and contributes to a better surface quality after machining.

Important:

The feed during machining is always from left to right.

! Caution:

The operator must always hold the device with both hands.

10. 3. Changing the angle or shape of the bevel. Replacing the milling head

The B15 INOX machine is designed for use with multiple types of milling heads.

To replace the head, proceed as follows.

- Disconnect the machine from the power supply.
- Loosen the adjustment locking screws (Fig. 10.3.1 position A) using the supplied wrench (Fig. 10.3.1 position C).
- Turn the guide plate (Fig. 10.3.1 position B) until it is completely removed from the machine.
- Secure the spindle against rotation with the supplied pin (Fig. 10.3.2, position A).
- Now remove the milling head itself using the special double-ended tube wrench provided (Fig. 10.3.2, positions B and C).
- Use the same procedure to install the new head and reassemble the machine.
- Tighten all connections properly.

Fig. 10.3.1

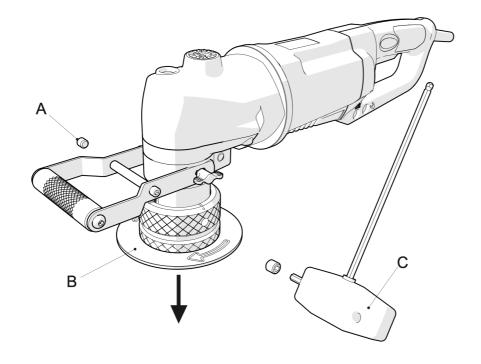
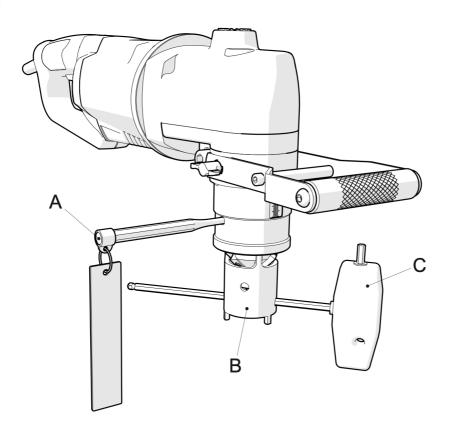


Fig. 10.3.2



Important:

Each time you replace the milling head, treat the head and screw threads with copper or graphite-based grease. This prevents the milling head threads from seizing and makes them easier to loosen in the future. For example, Special lubricating paste Art. No. 33005.

A Caution:

Wear work gloves and other personal protective equipment when making adjustments. Operations must be carried out on a machine that is at a standstill and disconnected from the power supply.

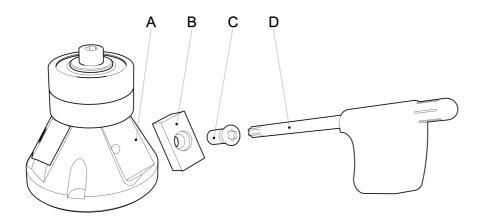
10. 4. Replacing cutting inserts

Important:

Only work with sharp and undamaged cutting inserts. This will prevent damage to the machine. Replace the cutting inserts if they are worn or broken.

- Use the enclosed wrench (Fig. 10.4.1, position D) to loosen the screws that secure the cutting inserts (Fig. 10.4.1, position C).
- Replace the cutting inserts (Fig. 10.4.1 position B) with new ones, different ones, or simply rotate them so that all cutting edges are used. Caution! Due to their specific shape, pay close attention to this operation.
- Tighten the cutting inserts properly with screws again (Fig. 10.4.1 position C).
- Install the guide plate assembly according to section 10.3.

Fig. 10.4.1



12. Maintenance and operation

Maintenance of the B15 INOX machine does not require any special tools and is very simple. Keep the machine clean and have the lubricating grease in the machine's gearbox replaced once every 1000 operating hours. This operation must only be performed by an authorized service center.

Check the power supply cable regularly. If damaged, have it replaced immediately by a service center authorized to perform such repairs. Contact your supplier.

Important:

Moving parts, threads, and mechanical moving joints must be cleaned regularly, preferably with compressed air, and preserved (lubricated).

A Caution:

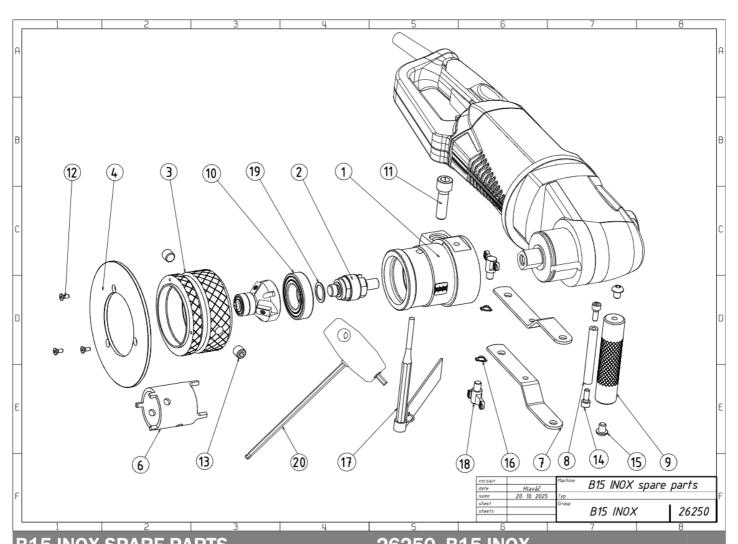
When using compressed air for cleaning purposes, wear safety goggles and never use a pressure exceeding 2 bar.

13. Spare parts

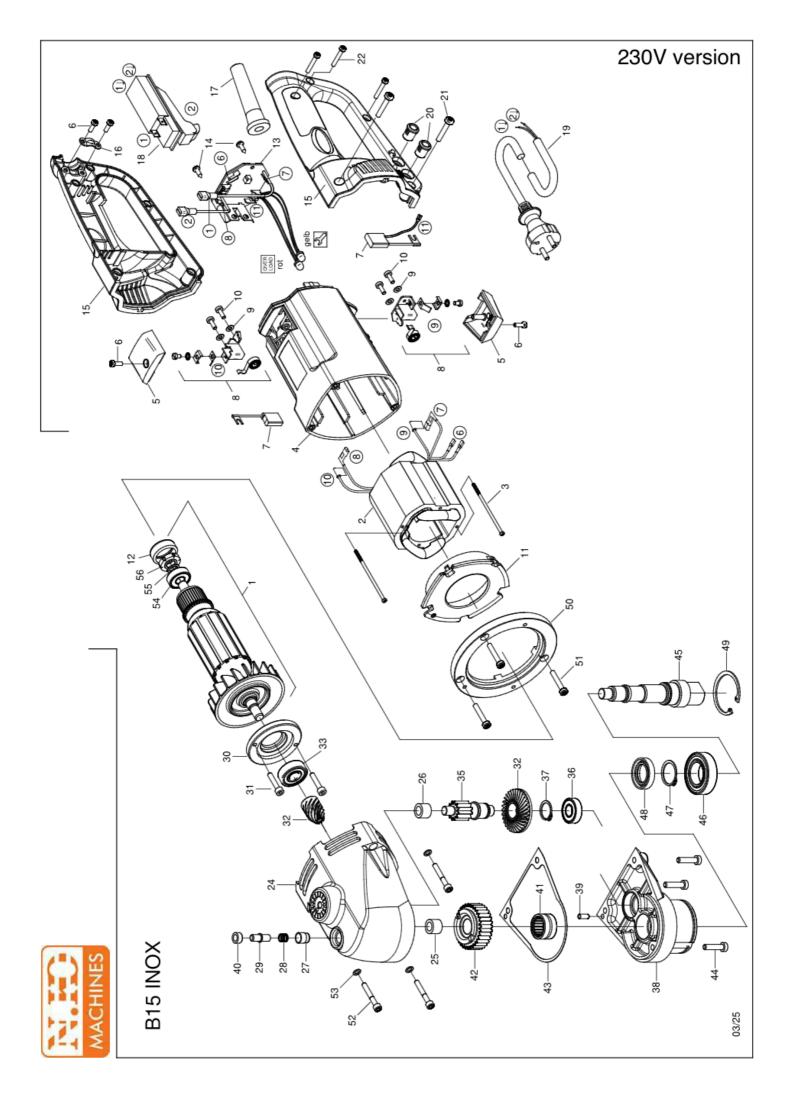
Spare parts orders must include the following information:

- machine type;
- serial number;
- description of the required part and its number
- quantity.

13.1 List of spare parts



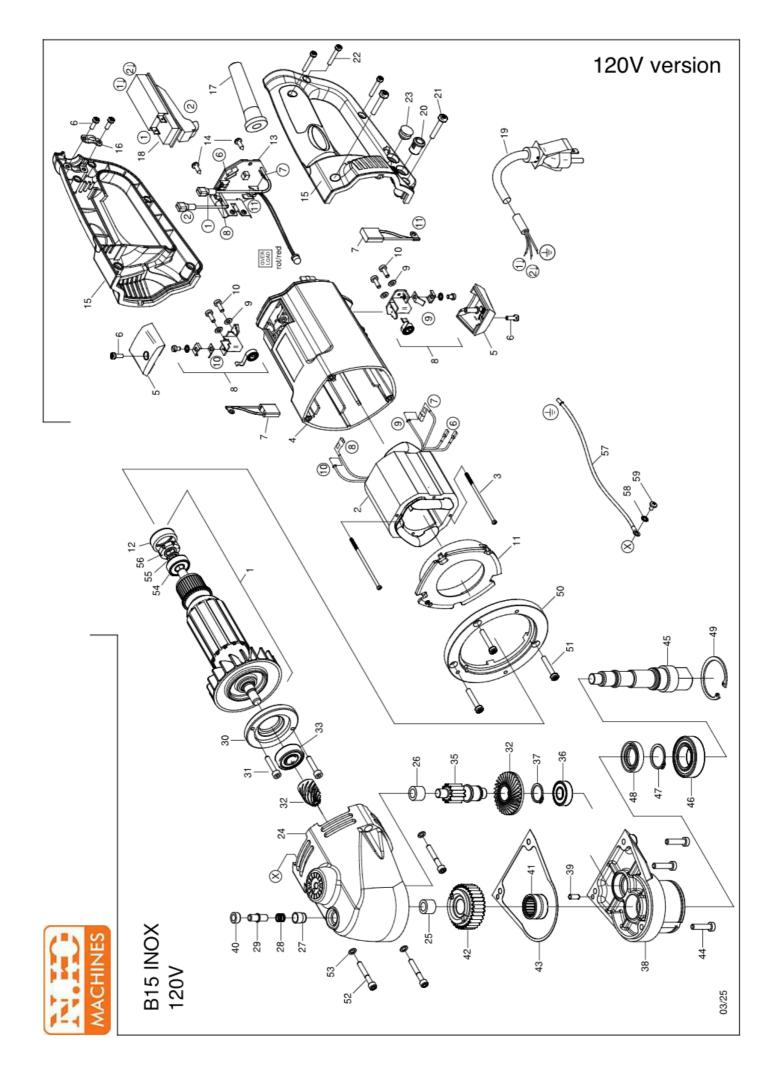
R19 IV	IUX S	PARE PARTS	drawing no. 26250 B15 INOX	
Number	Fig	Part name	Note	Pcs
26250.1	1	neck		1
26250.2	2	adapter		1
27220.50	3	backstop		1
27220.51	4	disk		1
25300.27	6	universal tube key		1
26250.7	7	handle sheetmetal		2
26250.8	8	handle tube		1
26250.9	9	handle		1
25250.36	10	ball bearing		1
26250.11	11	screw		1
27220.58	12	screw		3
27220.57	13	screw		2
26250.14	14	screw		2
26250.15	15	screw		2
26250.16	16	washer		2
25250.33	17	stop pin		1
26250.18	18	wing screw		2
26250.19	19	ring		1
27220.54	20	key		1



Pos.	Description	Item No.	pc. Price/pc. (
1	Rotor, compl. 230V	76815100	1
2	Stator, compl. 230V	73641150	1
3	Screw 3x78	80201234	2
4	Motor housing	73E31200	1
5	Cover pair	73E3121U	1
6	Screw 4x12	80201413	4
7	Carbon brush set	73E31220	1
8	Brush holder, compl.	73E3122S	2
9	Spring washer 4	80201385	4
10	Screw M4x12	80201180	4
11	Air guiding ring	73641145	1
12	Bearing cap	83000031	1
13	Printed circuit board 230V	76818280	1
14	Screw 4,2x13	80201270	2
15	Pair of handle halves	7682126U	1
16	Wire locking flange	85000020	1
17	Cable grommet	83000004	1
18	Switch	80600148	1
19	Connecting cable 2x1,5mm² 5m	80600403	1
20	LED holder	80601153	2
21	Screw 5x30	80201411	2
22	Screw 4x25	80201412	3
24	Gearbox housing	7682N400	1
25	Needle sleeve DL1212	80420129	1
26	Needle sleeve DL1012	80420116	1
27	Bush 1	75412554	1
28	Compression spring	80200802	1
29	Bolt	75412425	1
30	Disc	76815310	1
31	Screw M5x25	80201127	2
32	Bevel gear set	7681557S	1
33	Grooved ball bearing 6201 LUZ	80410101	1
35	Intermediate shaft	76825490	1
36	Grooved ball bearing 6001 2Z	80410031	1
37	Retaining ring 17x1	80201323	1
38	Gearbox cover	76819405	1
39	Parallel pin 5x14	80200579	1
40	Bush 2	75412555	1
41	Needle bearing 20/16	80420145	1
	0.1.1.1.1		

42 Spindle wheel

Pos	. Description	ltem No.	рс.	Price/pc.	
43	Gearbox seal	82000513	1		
44	Screw M6x20	80201124	3		
45	Work spindle	76815420	1		
46	Grooved ball bearing 6005 2RS	80410061	1		
47	Retaining ring 25x1,2	80201327	1		
48	Shaft seal 20x35x7	83000078	1		
49	Retaining ring 47x1,75	80201336	1		
50	Intermediate ring	7682N410	1		
51	Screw 5x30	80201394	3		
52	Screw M5x35	80201135	3		
53	Lock washer S5	80201620	3		
54	Grooved ball bearing 6000 2Z	80410021	1		
55	Seal ring 10x14x1	83000507	1		
56	Magnetic ring 24x10x6	73641325	1		



Pos.	Description	Item No.	рс.
1	Rotor, compl. 110V	7682P100	1
2	Stator, compl. 110V	73643150	1
3	Screw 3x78	80201234	2
4	Motor housing	73E31200	1
5	Cover pair	73E3121U	1
6	Screw 4x12	80201413	4
7	Carbon brush 6,3x16x20	80700040	2
8	Brush holder, compl.	73E3122S	2
9	Spring washer 4	80201385	4
10	Screw M4x12	80201180	4
11	Air guiding ring	7682P141	1
12	Bearing cap	83000031	1
13	Printed circuit board 110V	7682G280	1
14	Screw 4,2x13	80201270	2
15	Pair of handle halves	7682126U	1
16	Wire locking flange	85000020	1
17	Cable grommet	83000004	1
18	Switch	80600158	1
19	Connecting cable 120V	7682P340	1
20	LED holder	80601153	1
21	Screw 5x30	80201411	2
22	Screw 4x25	80201412	3
23	Plug	80900202	1
24	Gearbox housing	7682P400	1
25	Needle sleeve DL1212	80420129	1
26	Needle sleeve DL1012	80420116	1
27	Bush 1	75412554	1
28	Compression spring	80200802	1
29	Bolt	75412425	1
30	Disc	76815310	1
31	Screw M5x25	80201127	2
32	Bevel gear set	7681557S	1
33	Grooved ball bearing 6201 LUZ	80410101	1
35	Intermediate shaft	76825490	1
36	Grooved ball bearing 6001 2Z	80410031	1
37	Retaining ring 17x1	80201323	1
38	Gearbox cover	76819405	1
39	Parallel pin 5x14	80200579	1
40	Bush 2	75412555	1
41	Needle bearing 20/16	80420145	1

Pos.	Description	Item No.	pc.
42	Spindle wheel	76825430	1
43	Gearbox seal	82000513	1
44	Screw M6x20	80201124	3
45	Work spindle	76815420	1
46	Grooved ball bearing 6005 2RS	80410061	1
47	Retaining ring 25x1,2	80201327	1
48	Shaft seal 20x35x7	83000078	1
49	Retaining ring 47x1,75	80201336	1
50	Intermediate ring	7682N410	1
51	Screw 5x30	80201394	3
52	Screw M5x35	80201135	3
53	Lock washer S5	80201620	3
54	Grooved ball bearing 6000 2Z	80410021	1
55	Seal ring 10x14x1	83000507	1
56	Magnetic ring 24x10x6	73641325	1
57	Ground wire	73E25185	1
58	Tooth lock washer 4,3	80200752	1
59	Screw M4x5	80201448	1

A copy of this manual is supplied with every B15 INOX Beveler. All rights reserved.

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Manufacturer's and Distributor's Address:

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