

Original operating instructions  
IBS Parts Cleaning Device

Type M  
Type MD



All devices have been tested and certified.



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Annexes

## 1. About the machine / technical data \_\_\_\_\_

<b>Dimensions and performance data</b>	<b>Type M</b>	<b>Type MD</b>
External dimensions of the device:		
Length:	1.145 mm	1.165 mm
Width:	670 mm	695 mm
Height:	1.050 mm	1.055 mm (1735 mm lid open)
Working area (internal dimensions):	1135 x 660 mm	1135 x 660 mm
Working height:	870 mm	870 mm
Weight without drum:	47 kg	60 kg
Weight with drum (full):	227 kg	240 kg
Carrying capacity:	250 kg	250 kg
Fill volume:	200 l	200 l
Noise emission level at the workstation:	< 70 dB (A)	< 70 dB (A)
Type class (in accordance with EN 12921-3):	A1	A1

### **Electrical connections**

Power supply:	1/N/PE 230 V ~	1/N/PE 230 V ~
Frequency:	50 Hz	50 Hz
Power draw:	45 W – 0,2 A	45 W – 0,2 A
Max. backup fuse:	6 A	6 A

## 2. Proper use \_\_\_\_\_

The IBS Parts Cleaning Device has been designed for cleaning of oily and greasy metal parts (e.g. machine parts, motors and housings) using IBS Special Cleaning Agents.

### *2.1. Approved cleaning agents*

- IBS Special Cleaning Agent, Type EL/Extra
- IBS Special Cleaning Agent, Type RF
- IBS Special Cleaning Agent, Type Purgasol
- IBS Special Cleaning Agent, Type Securoil
- IBS Special Cleaning Agent, Type 100 Plus

### *2.2. Approved cleaning agents with technical ventilation (exhaust system)*

- IBS Special Cleaning Agent, type Quick

NOTE When using solvents from third-party manufacturers, always read and follow the product information and the EC Safety Data Sheet.

Their use must be approved by IBS Scherer GmbH. Please also note the information given in section 2.3.

The 3-year extended warranty only applies when IBS Special Cleaning Agents are used.

### 2.3. Non-approved cleaning agents



- Halogenated solvents
- Flammable and highly flammable solvents with flash point < 55°C, except for cleaning agents with flash point > 40°C when technical ventilation (exhaust system) is installed

### 2.4. Standards

Always comply with EN 12921-1 and EN 12921-3.

## 3. Operating principle

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### 3.1. How the machine works

The IBS pump pumps the cleaning liquid through a hose to the IBS cleaning brush. The workpiece is placed on the support rack and is cleaned with the brush and cleaning liquid.

The dirty cleaning agent flows back into the drum. The dirt particles sink to the bottom of the drum. When the cleaning effect of the cleaning agent declines, the drum must be replaced with a new drum of IBS Special Cleaning Agent.

### 3.2. Safety information

See section 6

## 4. Transport

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### 4.1. Handling

- Take great care when transporting the device to the installation site at the customer's premises in order to prevent damage.
- Secure the device on the pallet to ensure that it does not slip off.
- When transporting the drum, read and follow the data sheet for the solvent.

### 4.2. Transport aids

#### 4.2.1. Transport using a crane

- Attach the crane cables to the pallet and lift the device carefully. Pay special attention to the centre of gravity. The device may tip.

NOTE The crane must have a carrying capacity of at least 200 kg.

#### 4.2.2. Transport using a fork-lift

- Insert the fork-lift between the longitudinal pieces on the wooden pallet.
- Lift the unit and transport it.

## 5. Setup / commissioning

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### 5.1. *Securing the device / stability*

The device must be installed in a stable, horizontal position on a solvent-resistant floor.

### 5.2. *Space required*

The device may be placed against a wall. There should be a clear area of approx. 1.5 m in front of the device.

### 5.3. *Acceptable ambient conditions*

The device will work optimally at temperatures between -15°C and +40°C.

### 5.4. *Preventing electrostatic charge*

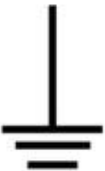
#### 5.4.1. *IBS pump*

Any electrostatic charge in the pump is discharged via the protective earth conductor for the pump motor.

#### 5.4.1.1. *Parts Cleaning Device*

The Parts Cleaning Device must be connected to an equipotential bonding system (which is connected to the building's earth connection) at the point marked. This work should be carried out by a qualified electrician.

#### 5.4.1.2. *Electrical connection by the customer*



Installation at the customer's premises must be carried out by an approved electrician in accordance with VDE requirements and any applicable power supply company regulations.

The electrical supply line must be installed in accordance with the regulations and must comply with the information (Technical data) given in the operating instructions.

### 5.5. *Additional equipment*

#### 5.5.1. *IBS collecting tray (see 9. Accessories list)*

This type-tested tray prevents solvents from seeping into the floor.

#### 5.5.2. *IBS exhaust system (see 9. Accessories list)*

### 5.6. *Disposal*

- The device is constructed primarily from steel (except the electrical components) and should be disposed of in accordance with the applicable local environmental regulations.
- Contaminated parts (e.g. hoses, cleaning brushes, cleaning cloths, etc.) should be disposed of in accordance with the applicable environmental regulations.

**Please contact IBS Scherer GmbH if you have any questions.**

- If you use solvents from other manufacturers, it is essential to read and follow the information and safety instructions provided by the manufacturer.

5.7. *Precautionary measures to be taken by the operator*

IBS Parts Cleaning Devices conform to type class A 1 (EN 12921-3; 3.15.1).



**Danger!**

A danger area which is appropriate for the operating conditions (e.g. geometry and surface area of workpieces, intensity of cleaning) must be defined. For normal cleaning processes, IBS recommends a danger area of 1 m around the device.

The danger area identified by means of a risk assessment:

- Must be designated a fire hazard area
- Must remain free of obstructions in order to allow unimpeded access at all times
- Must be equipped with effective natural ventilation
- Smoking is not permitted in the danger area
- Naked flames or other sources of ignition are not permitted in the danger area
- Keep everything as clean as possible when working with solvents, oils and lubricants
- Operating and maintenance personnel must receive proper training
- The operating instructions and the standard operating procedure must be attached to the device

## 6. Operating the machine

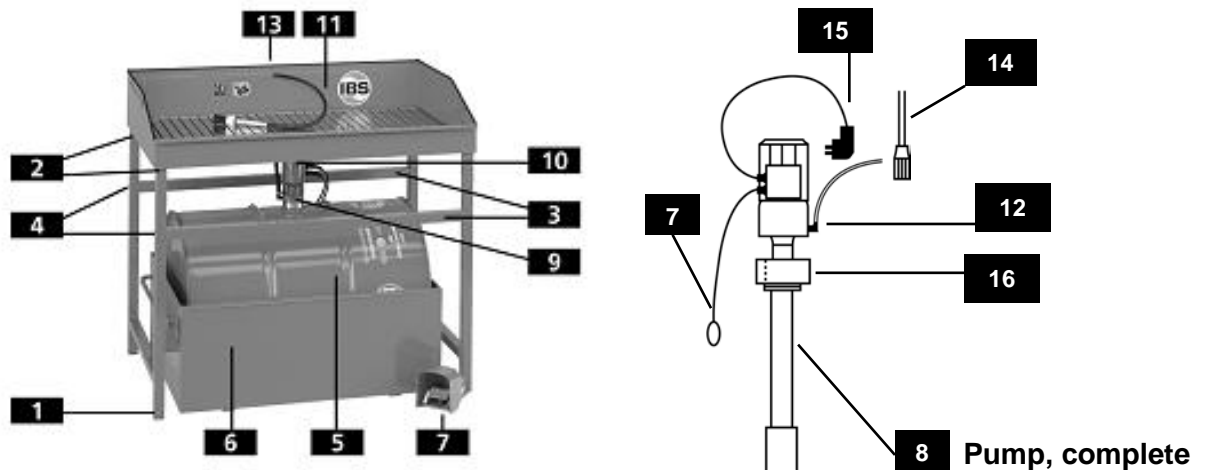
### 6.1. Controls

The device is switched on with a foot-operated safety switch.

### 6.2. Assembly and adjustment

#### 6.2.1. Assembling the Parts Cleaning Device

- We advise a two-man assembly to avoid damaging during the assembly of the Parts-Cleaner-Type M/MD
- Remove the packaging
- Insert the two base frames (1) into the round pipe sleeves (2) (located directly underneath the tray).
- Attach the two cross braces (3) to the base frames using the bolts supplied (4).
- Place the 200-litre drum (5) in the collecting tray (optional) (6) with the screw fitting facing upwards and remove the 2" bung adapter in the drum casing.
- Place the assembled device over the drum (5)



#### 6.2.2. Assembling the IBS special pump

- Tilt the drum (5) slightly. Insert the pump (8) into the drum and screw the 2" threaded plug (16) into the drum.  
Ensure that the pump outflow (12) is facing to the left and the terminal box is facing towards the rear.
- Insert the return hose (9) into the hole in the 2" threaded plug (16).
- Attach the top end of the return hose (9) to the outlet connector (10) on the tray and secure it with the hose clip supplied.
- Attach the brush hose (11) to the pump outlet (12).
- Feed the brush hose (11) through the round hole in the rear wall of the tray (13) and insert the cleaning brush (14).
- Place the foot-operated safety switch (7) in front of the device.
- Connect the device to the customer's equipotential bonding system (see section 5.4.1.2). Use the earth connection cables supplied to connect the Parts Cleaning device to the drum and collecting tray.
- Insert the plug (15) into the 230 V socket.
- Perform a function test: cleaning liquid must flow when the foot switch is pressed.

### 6.2.3. Operation

- Place the workpiece to be cleaned on the support rack.
- Press the foot switch to turn the device on.
- Clean the workpiece with the brush.
- Release the foot switch to turn the pump off.

NOTE Please complete the **warranty card** (form) which you will find at [www.ibs-scherer.com](http://www.ibs-scherer.com).

### 6.3. Fault identification and troubleshooting

<b>Fault</b>	<b>Cause</b>	<b>Solution</b>
Pump not working	<ul style="list-style-type: none"><li>• No power</li><li>• Pump is faulty</li></ul>	<ul style="list-style-type: none"><li>• Check that mains plug is plugged in</li><li>• Replace pump</li></ul>
Pump not pumping	<ul style="list-style-type: none"><li>• Liquid level in drum is too low</li><li>• Pump is faulty</li></ul>	<ul style="list-style-type: none"><li>• Check liquid level, if necessary ask IBS Scherer to change the drum</li><li>• Replace pump</li></ul>

**If the steps described above do not resolve the problem, please contact IBS Scherer GmbH.**

### 6.4. Personal protective equipment

When handling solvents, protective clothing must be worn in accordance with the safety data sheet for the industrial cleaner used. Solvent-resistant gloves, safety glasses and aprons must be used with all IBS Special Cleaning Agents.

#### Glove material:

- Gloves made from polychloroprene (CR), recommended material thickness:  $\geq 0.5$  mm, max. breakthrough time: 4 hours
- Gloves made from nitrile rubber/nitrile latex (NBR), recommended material thickness:  $\geq 0.35$  mm
- Gloves made from fluororubber (Viton) (FKM), recommended material thickness:  $\geq 0.4$  mm Permeation rate/breakthrough time:  $\geq 8$  hours (DIN EN 374)

The exact breakthrough time must be ascertained from the protective glove manufacturer and must be observed. Protective gloves should be replaced when they show the first signs of wear.

## 7. Maintenance / cleaning \_\_\_\_\_

### 7.1. Maintenance / cleaning work

The mains plug must be removed before carrying out any maintenance or cleaning work.



## 8. Spare parts list

Spare parts list for IBS Parts Cleaning Devices:

Item no.	Description	Device type								
		BK 50	F	F2/F2-D	G-50-W/I	K	KP	L	M	MD
2222056	IBS special pump, with foot switch								•	•
2222040	IBS special pump, without foot switch		•	•						
2222057	IBS special pump, with foot switch					•	•			
2222080	IBS special pump, with foot switch	•			•					
2222066	Splash guard								•	
2222060	Support rack (slatted rack)								•	•
2222061	Support rack (slatted rack)					•				
2222016	Support rack (slatted rack)			•						
2222062	Support rack (slatted rack)		•							
2222008	Cleaning brush, fine – 50 mm bristles	•	•	•	•	•	•	•	•	•
2222009	Cleaning brush, coarse – 50 mm bristles	•	•	•	•	•	•	•	•	•
2222022	Foot-operated switch with cover	•			•	•	•	•	•	•
2222024	Foot-operated switch without cover		•	•						
2222026	Wheel, 1 only		•	•						
2221012	Return hose	•	•	•	•			•	•	•
2222033	Return connector, ¾"		•	•	•					
2222035	Threaded plug (return connector 2")								•	•
2222059	Brush hose	•	•	•	•	•	•	•	•	•

## 9. Accessories list

Accessories list for IBS Parts Cleaning Devices:

Item no.	Description	Device type								
		BK 50	F	F2/F2-D	G-50-W/I	K	KP	L	M	MD
2120022	IBS collecting tray, type WM/St							•	•	•
2120023	IBS collecting tray, type WK/St					•	•			
2120024	IBS collecting tray, type WK-50	•								
2120021	IBS collecting tray, type WF			•	•					
2222063	IBS retrofit kit K-50					•				
2222067	IBS basket system, type L							•		
2120013	IBS exhaust system, type MA								•	
2120017	IBS exhaust system, type KA					•				
2222012	IBS protective gloves	•	•	•	•	•	•	•	•	•