Original operating instructions
IBS Parts Cleaning Device

Type F
Type F2/F2-D

All devices have been tested and certified.

Visit our website:
www.ibs-scherer.com
1. About the machine / technical data

<table>
<thead>
<tr>
<th>Dimensions and performance data</th>
<th>Type F</th>
<th>Type F2/F2-D</th>
</tr>
</thead>
<tbody>
<tr>
<td>External dimensions of the device:</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Length:</td>
<td>570 mm</td>
<td>800 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>555 mm</td>
<td>615 mm</td>
</tr>
<tr>
<td>Height:</td>
<td>1.145 mm</td>
<td>1.120 mm</td>
</tr>
<tr>
<td>Working area (internal dimensions):</td>
<td>560 x 430 mm</td>
<td>790 x 490 mm</td>
</tr>
<tr>
<td>Working height:</td>
<td>920 mm</td>
<td>920 mm</td>
</tr>
<tr>
<td>Weight without drum:</td>
<td>27 kg</td>
<td>43 kg/45 kg</td>
</tr>
<tr>
<td>Weight with drum (full):</td>
<td>77 kg</td>
<td>93 kg/95 kg</td>
</tr>
<tr>
<td>Carrying capacity:</td>
<td>40 kg</td>
<td>100 kg</td>
</tr>
<tr>
<td>Fill volume:</td>
<td>50 l</td>
<td>50 l</td>
</tr>
<tr>
<td>Noise emission level at the workstation:</td>
<td>&lt; 70 dB (A)</td>
<td>&lt; 70 dB (A)</td>
</tr>
<tr>
<td>Type class (in accordance with EN 12921-3):</td>
<td>A1</td>
<td>A1</td>
</tr>
</tbody>
</table>

**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 Securol
- 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

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

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

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).

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 and IBS special pump
- Remove the packaging
- Remove the screw fittings from the top of the 50-litre drum and store them in a safe place until they are needed again for return transport.
- Screw the pump (4) into the 2" hole (the outlet for the brush hose should be facing to the right)
- Screw the ¾” return connector (6) (supplied) into the ¾” return hole.
- Place the 50-litre drum (1) on the base plate (2). The 2” screw fitting must be facing towards the middle between the square-section tubular legs (3).
- Attach the return hose (8) with one end connected to the outlet connector on the tray (9) and the other end to the ¾” return connector (6).
- Feed the brush hose (7) through the round hole (12) in the rear wall of the tray and insert the cleaning brush (13).

Establish the electrical connections as follows:
- Connect the plug connector (10) on the right-hand square-section tubular leg to the pump motor. Secure the plug connector with the clip (this step is not necessary if compressed air is used).
- 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 mains plug (11) into the 230 V socket.
- Perform a function test.
6.2.2. **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**

<table>
<thead>
<tr>
<th>Fault</th>
<th>Cause</th>
<th>Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pump not working</td>
<td>• No power</td>
<td>• Check that mains plug is plugged in</td>
</tr>
<tr>
<td></td>
<td>• Pump is faulty</td>
<td>• Replace pump</td>
</tr>
<tr>
<td>Pump not pumping</td>
<td>• Liquid level in drum is too low</td>
<td>• Check liquid level, if necessary ask IBS Scherer to change the drum</td>
</tr>
<tr>
<td></td>
<td>• Pump is faulty</td>
<td>• Replace pump</td>
</tr>
</tbody>
</table>

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: ≥ 0.5 mm, max. breakthrough time: 4 hours
- Gloves made from nitrile rubber/nitrile latex (NBR), recommended material thickness: ≥ 0.35 mm
- Gloves made from fluororubber (Viton) (FKM), recommended material thickness: ≥ 0.4 mm, Permeation rate/breakthrough time: ≥ 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:

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th>Device type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BK 50</td>
</tr>
<tr>
<td>2222056</td>
<td>IBS special pump, with foot switch</td>
<td></td>
</tr>
<tr>
<td>2222040</td>
<td>IBS special pump, without foot switch</td>
<td></td>
</tr>
<tr>
<td>2222057</td>
<td>IBS special pump, with foot switch</td>
<td></td>
</tr>
<tr>
<td>2222080</td>
<td>IBS special pump, with foot switch</td>
<td></td>
</tr>
<tr>
<td>2222066</td>
<td>Splash guard</td>
<td></td>
</tr>
<tr>
<td>2222060</td>
<td>Support rack (slatted rack)</td>
<td></td>
</tr>
<tr>
<td>2222061</td>
<td>Support rack (slatted rack)</td>
<td></td>
</tr>
<tr>
<td>2222016</td>
<td>Support rack (slatted rack)</td>
<td></td>
</tr>
<tr>
<td>2222062</td>
<td>Support rack (slatted rack)</td>
<td></td>
</tr>
<tr>
<td>2222008</td>
<td>Cleaning brush, fine – 50 mm bristles</td>
<td></td>
</tr>
<tr>
<td>2222009</td>
<td>Cleaning brush, coarse – 50 mm bristles</td>
<td></td>
</tr>
<tr>
<td>2222022</td>
<td>Foot-operated switch with cover</td>
<td></td>
</tr>
<tr>
<td>2222024</td>
<td>Foot-operated switch without cover</td>
<td></td>
</tr>
<tr>
<td>2222026</td>
<td>Wheel, 1 only</td>
<td></td>
</tr>
<tr>
<td>2221012</td>
<td>Return hose</td>
<td></td>
</tr>
<tr>
<td>2222033</td>
<td>Return connector, ¾”</td>
<td></td>
</tr>
<tr>
<td>2222035</td>
<td>Threaded plug (return connector 2”)</td>
<td></td>
</tr>
<tr>
<td>2222059</td>
<td>Brush hose</td>
<td></td>
</tr>
</tbody>
</table>

### 9. Accessories list

Accessories list for IBS Parts Cleaning Devices:

<table>
<thead>
<tr>
<th>Item no.</th>
<th>Description</th>
<th>Device type</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>BK 50</td>
</tr>
<tr>
<td>2120022</td>
<td>IBS collecting tray, type WM/St</td>
<td></td>
</tr>
<tr>
<td>2120023</td>
<td>IBS collecting tray, type WK/St</td>
<td></td>
</tr>
<tr>
<td>2120024</td>
<td>IBS collecting tray, type WK-50</td>
<td></td>
</tr>
<tr>
<td>2120021</td>
<td>IBS collecting tray, type WF</td>
<td></td>
</tr>
<tr>
<td>2222063</td>
<td>IBS retrofit kit K-50</td>
<td></td>
</tr>
<tr>
<td>2222067</td>
<td>IBS basket system, type L</td>
<td></td>
</tr>
<tr>
<td>2120013</td>
<td>IBS exhaust system, type MA</td>
<td></td>
</tr>
<tr>
<td>2120017</td>
<td>IBS exhaust system, type KA</td>
<td></td>
</tr>
<tr>
<td>2222012</td>
<td>IBS protective gloves</td>
<td></td>
</tr>
</tbody>
</table>
EC Declaration of Conformity
as defined by Machinery Directive 2006/42/EC Annex II A

Herewith we declare that the Parts Cleaner

**Article Type:** F
**Article-No.:** 2120203

conforms to the following Directives and Standards, when installed in accordance with the manufacturer’s specifications:

**EC Directives**
EC Machinery Directive 2006/42/EC

**Applied Harmonised European Standards:**

- EN ISO 12100: Safety of machinery – General principles for design – Risk assessment and risk reduction
- EN 12921-1: Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 1: Common safety requirements
- EN 12921-3: Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 3: Safety of machines using flammable cleaning liquids
- EN 349: Safety of machinery - Minimum gaps to avoid crushing of parts of the human body
- EN 60 204-1: Safety of machinery - Electrical equipment of machines - Part 1: General requirements
- ISO 11200: Noise emitted by machinery and equipment

**Applied (German) Technical Specifications:**

- BGR 180 (ZH1/562): Guidelines for the safety of equipment used for cleaning work pieces with liquid cleaning agents
- BGV A1: Prevention Principles
- BGV A8: Graphical safety and risk prevention symbols for use at the work place

Authorized for collecting all technical documentation:
Mr. Torsten Bodtländer, IBS Scherer GmbH, Gewerbegebiet, 55599 Gau-Bickelheim

07.07.2014

Date
Axel Scherer, MSc. (General Manager)

If the above named equipment is modified without our consent, this declaration is no longer valid.
**EC Declaration of Conformity**

as defined by Machinery Directive 2006/42/EC Annex II A

Hereewith we declare that the Parts Cleaner

**Article Type:** F2  
**Article-No.:** 2120018

conforms to the following Directives and Standards, when installed in accordance with the manufacturer’s specifications:

**EC Directives**  
EC Machinery Directive 2006/42/EC

**Applied Harmonised European Standards:**

EN ISO 12100  
Safety of machinery – General principles for design – Risk assessment and risk reduction

EN 12921-1  
Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 1: Common safety requirements

EN 12921-3  
Machines for surface cleaning and pre-treatment of industrial items using liquids or vapours - Part 3: Safety of machines using flammable cleaning liquids

Safety of machinery - Minimum gaps to avoid crushing of parts of the human body

EN 60 204-1  
Safety of machinery - Electrical equipment of machines - Part 1: General requirements

ISO 11200:1995  
Noise emitted by machinery and equipment - Guidelines for the use of basic standards for the determination of emission sound pressure levels at a work station and at other specified positions; German version EN ISO 11200:1995

**Applied (German) Technical Specifications:**

BGR 180 (ZH1/562)  
Guidelines for the safety of equipment used for cleaning work pieces with liquid cleaning agents

BGV A1  
Prevention Principles

BGV A8  
Graphical safety and risk prevention symbols for use at the work place

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