Operating instructions and spare parts list

MRS Intermediate hopper
Documentation MRS Intermediate hopper

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General safety regulations

This chapter specifies the fundamental safety regulations that must be followed by the user and third parties using the MRS Intermediate hopper.

These safety regulations must be read and understood before the MRS Intermediate hopper is used.

Safety symbols (pictograms)

The following warnings with their meanings can be found in the ITW Gema operating instructions. The general safety precautions must also be followed as well as the regulations in the operating instructions.

DANGER!
Danger due to live electricity or moving parts. Possible consequences: Death or serious injury

WARNING!
Improper use of the equipment could damage the machine or cause it to malfunction. Possible consequences: minor injuries or damage to equipment

INFORMATION!
Useful tips and other information

Conformity of use

1. The MRS Intermediate hopper is built to the latest specification and conforms to the recognized technical safety regulations. It is designed for the normal application of powder coating.

2. Any other use is considered as non-conform. The manufacturer is not responsible for damage resulting from improper use of this equipment; the end-user alone is responsible. If the MRS Intermediate hopper is to be used for other purposes or other substances outside of our guidelines then ITW Gema GmbH should be consulted.

3. Observance of the operating, service and maintenance instructions specified by the manufacturer is also part of conformity of use. The MRS Intermediate hopper should only be used, main-
tained and started up by trained personnel, who are informed about and are familiar with the possible hazards involved.

4. Start-up (i.e. the execution of a particular operation) is forbidden until it has been established that the MRS Intermediate hopper has been set up and wired according to the guidelines for machinery (98/37 EG). EN 60204-1 (machine safety) must also be observed.

5. Unauthorized modifications to the MRS Intermediate hopper exempts the manufacturer from any liability from resulting damage.

6. The relevant accident prevention regulations, as well as other generally recognized safety regulations, occupational health and structural regulations are to be observed.

7. Furthermore the country-specific safety regulations must be observed.

NOTE!
For further information, see the more detailed ITW Gema Safety regulations!

Special security measures

- The installation work, to be done by the customer, must be carried out according to local regulations
- Before starting up the plant, check if no foreign objects are in the booth or in the ducting (input and exhaust air)
- It must be observed, that all components of the plant are grounded according to the local regulations
About this manual

General information

These operating manual contains all important information which you re-
quire for working with the MRS Intermediate hopper. It will safely guide
you through the start-up process and give you references and tips for the
optimal use of your new powder coating system.

Information about the function mode of the individual system components
- reciprocators, booths, powder gun controls, powder guns etc. - you will
find in the corresponding enclosed documentations.
Technical data

MRS Intermediate hopper

General data

<table>
<thead>
<tr>
<th>MRS Intermediate hopper</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Volume</td>
<td>190 dm³</td>
</tr>
<tr>
<td>Number of pumps</td>
<td>max. 4 powder pumps/enamel pumps</td>
</tr>
<tr>
<td>Air consumption</td>
<td>19 Nm³/h</td>
</tr>
</tbody>
</table>
Dimensions and connections

Guide values of dimensions:
A = > according to order
UH = min. 500 mm, max. 750 mm

Connections:

1. Spiral hose (order no. 104 434)
   Hose clamp (order no. 211 125)

2. Quick release connection (order no. 239 267)
   Hose (order no. 100 498)
   Hose clamp (order no. 203 386)
Spare parts list

Ordering spare parts

When ordering spare parts for powder coating equipment, please indicate the following specifications:
- Type and serial number of your powder coating equipment
- Order number, quantity and description of each spare part

Example:
- **Type** MRS Intermediate hopper
  **Serial number** 1234 5678
- **Order no.** 203 386, 1 piece, Clamp - Ø 18/15 mm

When ordering cable or hose material, the required length must also be indicated. The spare part numbers of this yard/meter ware is always marked with an *.

The wear parts are always marked with a #.

All dimensions of plastic hoses are specified with the external and internal diameter:

Example:
Ø 8/6 mm, 8 mm outside diameter (o/d) / 6 mm inside diameter (i/d)

WARNING!
Only original ITW Gema spare parts should be used, because the hazardous location approval will be preserved that way! The use of spare parts from other manufacturers will invalidate the ITW Gema guarantee conditions!
## MRS Intermediate hopper - spare parts list

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Fluidizing plate</td>
<td>394 505</td>
</tr>
<tr>
<td>3</td>
<td>Container cover</td>
<td>394 530</td>
</tr>
<tr>
<td>4</td>
<td>Service cover</td>
<td>394 548</td>
</tr>
<tr>
<td>7</td>
<td>Rubber cuff - Ø 70x80 mm</td>
<td>354 570</td>
</tr>
<tr>
<td>10</td>
<td>Leveling pad - Ø 110 mm, M20, L=196 mm</td>
<td>246 522</td>
</tr>
<tr>
<td>11</td>
<td>Hexagon nut - M20, galv.</td>
<td>215 635</td>
</tr>
<tr>
<td>13</td>
<td>Hexagon ratchet screw - M8x16 mm</td>
<td>244 457</td>
</tr>
<tr>
<td>14</td>
<td>Hexagon shakeproof nut - M8</td>
<td>244 449</td>
</tr>
<tr>
<td>16</td>
<td>Hexagon shakeproof nut - M6</td>
<td>244 430</td>
</tr>
<tr>
<td>18</td>
<td>Hose clamp - 70-90 mm</td>
<td>211 214</td>
</tr>
<tr>
<td>22</td>
<td>Adhesive sealing strip - 3.85m, 19x4 mm</td>
<td>103 926</td>
</tr>
<tr>
<td>25</td>
<td>Elbow - 1/4&quot;i-1/4&quot;i</td>
<td>265 608</td>
</tr>
<tr>
<td>26</td>
<td>T-piece - 1/4&quot;i-1/4&quot;i-1/4&quot;i</td>
<td>261 173</td>
</tr>
<tr>
<td>27</td>
<td>Screw-in nipple - 1/4&quot;a, Ø 8 mm</td>
<td>265 136</td>
</tr>
<tr>
<td>28</td>
<td>Connector - NW7,4-1/4&quot;a</td>
<td>256 730</td>
</tr>
<tr>
<td>30</td>
<td>Plastic hose - 0.3 m, Ø 8/6, black</td>
<td>103 152</td>
</tr>
</tbody>
</table>
MRS Intermediate hopper - spare parts