MAINTENANCE

MSA Automatic Knife Ring Grinding System

**Application**
All industries using Knife Ring Flakers and MSF Strand Flakers

**Description**
The MSA Automatic Knife Ring Grinding System enables the automated PLC-controlled precise regrinding and adjusting of knives in all common types of knife rings.

**Customer benefits**
- Precise regrinding with adjustable relief angle
- Short regrinding time due to multi-disc grinding head
- Reduced operating costs
- Optimized flake quality due to precise and variable adjustment of knife protrusion
- Environmentally friendly due to emulsion cleaning system

**Technical features**
- Automatic identification of every knife ring due to coding
- Each process step, grinding speed and regrinding measure per stroke are individually adjustable
- Long-life grinding discs
- Cleaning system for grinding emulsion (see detail, photo above)
- Siemens PLC-control with comfort touch panel, remote maintenance unit and intuitive menu navigation for easy operation
- Recording of life cycle data of each knife ring
MSA Automatic Knife Ring Grinding System

<table>
<thead>
<tr>
<th>Type</th>
<th>Knife ring type</th>
<th>Knife ring Ø mm</th>
<th>Number of knives per knife ring pcs.</th>
<th>Regrindable knife angle °</th>
<th>Knife ring grinding time min.</th>
<th>Dimensions m (L x W x H)</th>
<th>Weight approx. t</th>
</tr>
</thead>
<tbody>
<tr>
<td>MSA 1400</td>
<td>MR 60</td>
<td>1,400</td>
<td>60</td>
<td>35 – 42</td>
<td>45 – 50</td>
<td>3.8 x 2.7 x 2.5</td>
<td>7.5</td>
</tr>
<tr>
<td>MSA 1500</td>
<td>MR 64</td>
<td>1,500</td>
<td>64</td>
<td>35 – 42</td>
<td>60 – 65</td>
<td>4.2 x 3.0 x 2.7</td>
<td>8.5</td>
</tr>
<tr>
<td>MSA 1600</td>
<td>MR 72</td>
<td>1,600</td>
<td>72</td>
<td>35 – 42</td>
<td>70 – 75</td>
<td>4.6 x 3.3 x 2.9</td>
<td>9</td>
</tr>
</tbody>
</table>

1) Values, achieved by regrinding measure of 0.5 mm