TECHNICAL FEATURES

- Knife Ring Flakers must generate enough centrifugal strength to maintain the chips constantly pressed against the knives and fight the shearing stress. Conventional Flakers are designed to refine chips of regular size and mass. But, they do not generate enough strength to refine material of small size-mass, i.e. micro-chips, oversize particles, sawdust cubes, etc. In this case the reduced centrifugal strength is not sufficient to fight the shearing stress and small material go on jumping into the knife ring, which transforms them in toothpicks and sub-cubes with a fast loss of cutting capacity of knives. Starting from these physics concepts, we re-invented the Knife Ring Flakers
  - Very high precision knife ring
  - High number of knives
  - Very high precision impeller provided with counter-knives
  - Minimized gap among knives and counter-knives
  - High flaking speed and special setting to refine small-size material, i.e. micro-chips, oversize particles and sawdust cubes
  - Feeding provided with protection devices to reject heavy pollutants
  - Machine parts getting in touch with chips are highly protected against wear
  - Easy and quick replacement of knife-ring.

BENEFITS

- Excellent flakes from regular chips, fresh and recycled
- Superior result from micro-chips, oversize particles and sawdust cubes
- High efficiency
- High reliability
- Minimized maintenance costs
- Low specific energy consumption.
<table>
<thead>
<tr>
<th>MODEL</th>
<th>OVERALL DIMENSIONS mm</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>A</td>
<td>B</td>
</tr>
<tr>
<td>SRC.10</td>
<td>1920</td>
<td>3120</td>
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<table>
<thead>
<tr>
<th>MODEL</th>
<th>INSTALLED POWER kW</th>
<th>WEIGHT</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>M1*</td>
<td>M2</td>
<td>M3</td>
</tr>
<tr>
<td>SRC.10</td>
<td>132 - 160</td>
<td>2 x 0,65</td>
<td>0,55</td>
</tr>
</tbody>
</table>

*Variable according to type of material

<table>
<thead>
<tr>
<th>MODEL</th>
<th>CAPACITY**</th>
<th>AUXILIARY SUCTION for MECHANICAL DISCHARGE</th>
<th>AUXILIARY SUCTION for 100% PNEUMATIC DISCHARGE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>t/h</td>
<td>THROUGHPUT m³/h</td>
<td>AIR SPEED m/s</td>
</tr>
<tr>
<td>THICK DRY PARTICLES</td>
<td>4</td>
<td>7500</td>
<td>24 - 26</td>
</tr>
<tr>
<td>WET CHIPS &amp; SAWDUST CUBES</td>
<td>4</td>
<td>7500</td>
<td>27 - 29</td>
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</tbody>
</table>

**Variable according to machine setting

Not binding data. IMAL-PAL Group reserves the right to make any modifications to the contents herein without prior notice. We kindly ask you to contact our technical department for eventual updates on the information provided.
TECHNICAL FEATURES

• Knife ring flakers is the basic machine for producing high quality particleboard
• Globus patented wobble spreader disc, is a unique system for a perfect distribution of the chips inside the machine
• The eccentric disc has independent drive speed
• Perfect distribution of the chips, allows a complete and total use of the knife cutting edge and therefore great energy saving and reduction of wear parts consumption
• A long and careful research time was spent in different plants, in order to determinate the best cutting edge and number of knives for these application i.e. 54 knives
• Oil lubrication system for main bearings
• Lengths knives mm 490.

BENEFITS

• Homogeneous granularity of the flakes and perfect cutting of the wood, in order to increase the physical/mechanical properties of particleboard
• A perfect cutting of the edges, allows a limited consumption of glue
• Very low specific energy consumption
• Regular consumption of wearing parts
• Adjustable exhaust flakes opening.
1 = INFEED MATERIAL
2 = FERROUS POLLUTANTS
3 = HEAVY POLLUTANTS
4 = FLAKES
M1 = MAIN MOTOR
M2 = VIBRATING FEEDER
M3 = MAGNETIC DRUM
M4 = WIND SELECTOR
M5 = HYDRAULIC UNIT

<table>
<thead>
<tr>
<th>MODEL</th>
<th>OVERALL DIMENSIONS mm</th>
<th>KNIFE RING DIAMETER mm</th>
<th>KNIVES No.</th>
<th>DIMENSION OF KNIVES mm</th>
<th>AVERAGE POWER REQUIRED kW</th>
<th>RECOMMENDED MOTOR kW</th>
<th>WEIGHT WITHOUT MAIN MOTOR kg</th>
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</thead>
<tbody>
<tr>
<td>SRC 14.490-AR</td>
<td>2500 x 2850 x 2350</td>
<td>1400</td>
<td>54</td>
<td>490 x 90 x 4</td>
<td>200</td>
<td>250</td>
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Rev. A dated 04/2013
KNIFE FLAKERS

SRC.14.690-AR

TECHNICAL FEATURES
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BENEFITS
• Homogeneous granularity of the flakes and perfect cutting of the wood, in order to increase the physical-mechanical properties of particleboard • A perfect cutting of the edges, allows a limited consumption of glue • Very low specific energy consumption • Regular consumption of wearing parts • Adjustable exhaust flakes opening.
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2 = FERROUS POLLUTANTS
3 = HEAVY POLLUTANTS
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M1 = MAIN MOTOR
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<th>WEIGHT WITHOUT MAIN MOTOR kg</th>
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</thead>
<tbody>
<tr>
<td>SRC 14.690-AR</td>
<td>2500 x 3200 x 2350</td>
<td>1400</td>
<td>54</td>
<td>690 x 90 x 4</td>
<td>250</td>
<td>315</td>
<td>10000</td>
</tr>
</tbody>
</table>

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HOW TO ACHIEVE THE PERFECT CHIPS DISTRIBUTION?

THE WOBBLE SPREADER: patented by GLOBUS

- The Wobble Spreader is an eccentric and inclined disc
- Separate drive at variable speed allows the fine tuning
- So wood chips are uniformly spread across the flaking ring
- Benefits are impressive: 20-30% higher flaking capacity
  - much better flakes
  - saving of electric energy
  - saving of wearing costs, i.e. knives, shoes, etc.