The KREISEL rotary feeder is one of the most popular feeders for pneumatic conveyance. Depending on the bulk material, its hardness and the conveying pressure, the right type of rotary feeder is chosen.

There are mainly 3 executions:

1. KREISEL-WPS (Wear Protection Standard)
   - Housing: St 37-2
   - Rotor: St 37-2 with hardened wearing strips

2. KREISEL-WPH (Wear Protection High)
   - Housing: St 37-2 with tungsten carbide-lining (WC)
   - Rotor: chromated C45

3. KREISEL-WPU (Wear Protection Ultra)
   - Housing: St 37-2 with ceramic-lining
   - Rotor: St 37-2 with tungsten carbide-lining (WC)

A further advantage of the KREISEL ceramic rotary feeder is the lower installation height as shown in the following picture for a feeding capacity of 50 t/h of cement:

A simple installation as well as unbeatable low maintenance works and costs complete the advantages of the KREISEL ceramic rotary feeders in comparison with other pneumatic conveying systems.

The advantages of the KREISEL ceramic rotary feeder (WPU):

- lowest possible energy consumption
- insensitive to foreign bodies
- insensitive to changing bulk characteristics like Blaine or particle grain size distribution
- insensitive to grinding aid
- insensitive to overfilling of the inlet area
- no influence of the back pressure on the drive engine
- small size of motor control cabinet (MCC)
- shortest commissioning time
- smallest space requirements
- performance increase
- highest reliability

### Data for 150 t/h cement

<table>
<thead>
<tr>
<th></th>
<th>Screw Pump</th>
<th>ZSV 700x700</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating hours [h/a]</td>
<td>7500</td>
<td>7500</td>
</tr>
<tr>
<td>Energy costs [$/kWh]</td>
<td>0.08</td>
<td>0.08</td>
</tr>
<tr>
<td>Coupling power of feeding device [kW]</td>
<td>155</td>
<td>5</td>
</tr>
<tr>
<td>Coupling power of pressure generator [kW]</td>
<td>336</td>
<td>294</td>
</tr>
<tr>
<td>Total energy consumption [kW]</td>
<td>491</td>
<td>299</td>
</tr>
<tr>
<td>Total energy consumption per year [kWh/a]</td>
<td>3,682,500</td>
<td>2,242,500</td>
</tr>
<tr>
<td>Energy costs per year [$/a]</td>
<td>294,600</td>
<td>179,400</td>
</tr>
<tr>
<td>Saving of kW per year</td>
<td>1,440,000 kWh</td>
<td></td>
</tr>
<tr>
<td>Energy costs savings</td>
<td>115,200,– (-39%)</td>
<td></td>
</tr>
</tbody>
</table>
The replacement of the screw pump against the KREISEL ceramic rotary feeder is very simple and time-saving.

The picture below shows the exchange of a screw pump against a KREISEL ceramic rotary feeder. The exchange can be done without any modifications on the feeding system. By the adoption of the pump surge bin, the ceramic rotary feeder can be easily installed.

Our customers only have to exchange the screw pump against the rotary feeder and have to modify the existing dedusting hopper.

The conveying air compressor or blower as well as the conveying pipe remains the same and is unchanged. KREISEL Engineering supplies all required informations for the modification and is at our customer’s disposal from the very beginning until the end of operation.
WE ARE LOOKING FORWARD TO GET YOUR INQUIRY FOR AN EXCHANGE AND OPTIMISATION OF YOUR PNEUMATIC CONVEYING SYSTEM!

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Work efficiently with KREISEL's SCHLEUSENAPP - anytime and anywhere.

ZRS query: After only 5 steps with your specifications, you get a 3D model (.dxf) of your preconfigured rotary valve. Our sales staff will create an appropriate quotation based on your entries. Complete your conveyor system with components from our catalogue. Be inspired by the product overview.

For service enquiries, simply enter the serial number of your component with short description of the situation. If necessary, you can also send a photo. Your enquiry is sent directly to our service staff. If you want to speak to us in detail, please check our upcoming trade show appearances in the app or contact us directly.
Since 1912 KREISEL GmbH & Co. KG, located in Krauschwitz, Germany, has been well known as a supplier for tailor-made solutions for bulk handling technology.

THE MAIN WORLD-WIDE ACTIVITIES ARE THE FOLLOWING INDUSTRIES

- Aluminium industry
- Power plants
- Cement-/ Limestone- and Gypsum industry
- Potash & fertiliser industry
- Minerals
- Chemical industry
- Food industry
- Ceramical industry
- Glass industry
- Wood industry
- Recycling industry

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