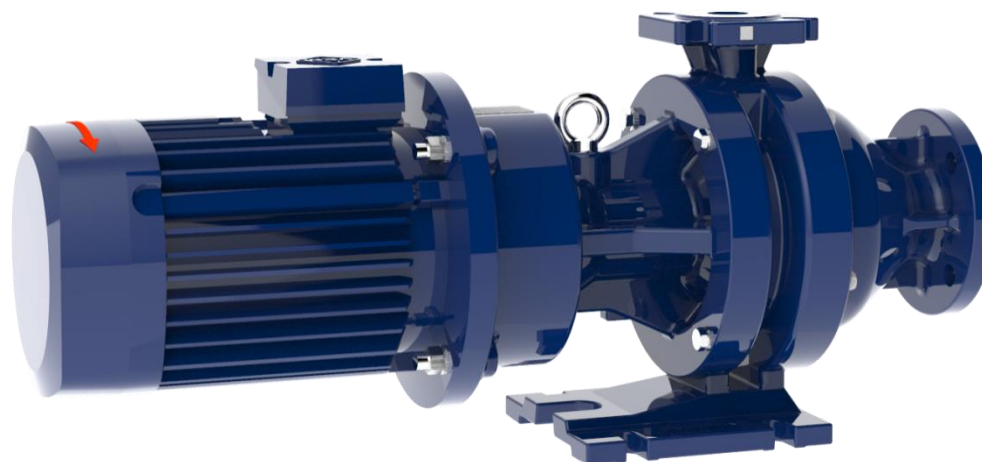


Disassembly/ Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Wear safety goggles and protective gloves
- Clean the pump from heavy soiling
- Place the pump with the intake upwards in a suitable device
- Remove the nuts 5x M8x30 and take off the intake

Additionally for the disassembly with end-face seal Tandem Version

- Drain the oil
- Completely remove the oil screw and collect oil in a suitable container

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Version with cyclone
- Unscrew cyclone with Allen key 8
- Hold the impeller with a lever

Disassembly of cutting system with mechanical seal at KM 100/ 2-6 polig



- Remove the screws 4x M8x16
- Evenly screw in 2 opposite studs M8x12 DIN 913
- Thereby the knife is lifted out of the pump housing
- Screw until the knife can be removed by hand

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Remove the knife by hand
- Be sure to wear protective gloves

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Slide the lever with claw 14x14 length 390 into the discharge port, minimum 200 mm
- Turn the cutter until the lever clamps in the rotary disk

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Loose the cutting with an Allen key 8 mm
- If necessary, hit the cutting with a hammer (wear protection goggles)
- if the cutting can not yet be loosened, smooth separation can be caused by heating
- For this purpose heat the cutting evenly in the area of the impeller
- After heating the cutting can be loosened
- Allow the cutting to cool down and disassemble

Note:

The more the cutting is worn out the more complicated is the disassembly

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Disassembly of the impeller retaining washer by loosening the countersunk screw with a hexagon socket
- After loosening, the countersunk screw M8x20 DIN 7991 and the impeller retaining washer need to be removed
- Remove the lever from the impeller now
- Pull of the impeller

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Dismantled rotary disk
- To disassemble the end-face seal the parallel key has to be removed from groove
- With a sharp punch it is no problem
- Replace the cross flow valve, if present, as well

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



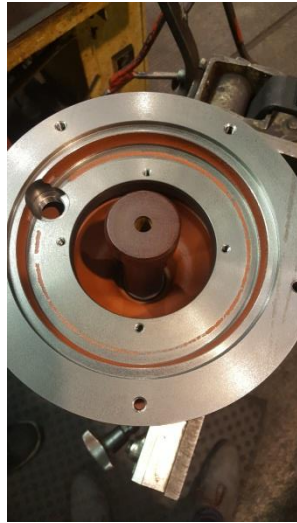
- With a suitable tool the end-face seal is pulled from the shaft
- The use of 2 stable slot screwdrivers has proven to be successful
- Remove the counter ring from the pump housing afterwards

Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Clean the sealing surface thoroughly with a suitable cleaner (brake cleaner has proven its reliability)
- For an easier installation of the counter ring, moisten the O-ring with detergent
- Use an assembly sleeve (170021) to assemble the end-face seal

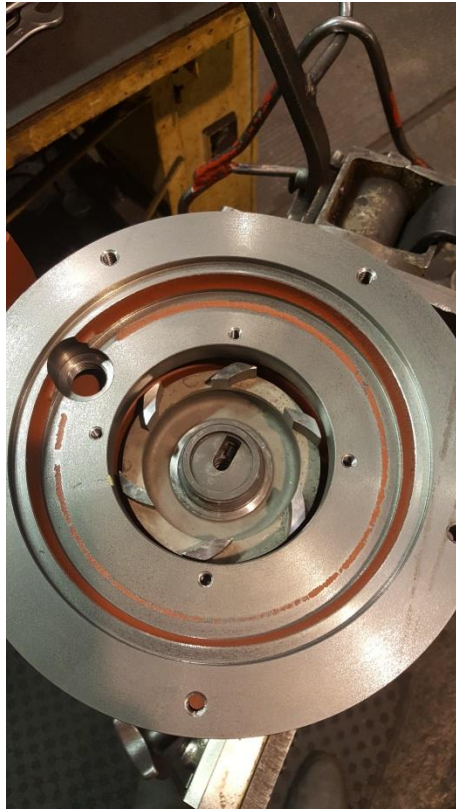
Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Press in the counter ring with ORPU tool 170017
- Place the thrust ring in the middle of the end-face seal
- Insert the parallel key into the shaft groove

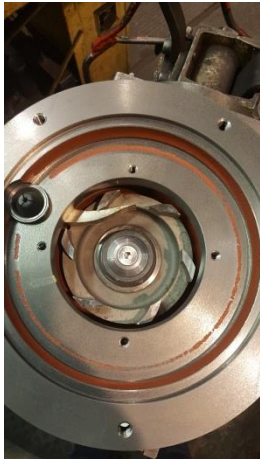


Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Slide the impeller onto the shaft by hand
- Consider the alignment of the parallel key
- Moisten the countersunk screw with screw locking medium strength

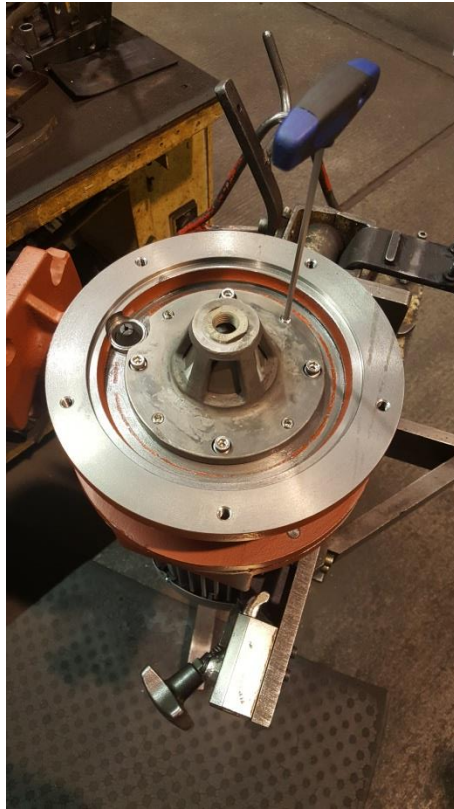
Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Pass the counter sunk screw through the impeller retaining washer and screw it into the shaft
- Hold the impeller with the help of the lever
- Screw the cutting in the impeller and tighten it with an Allen key 24

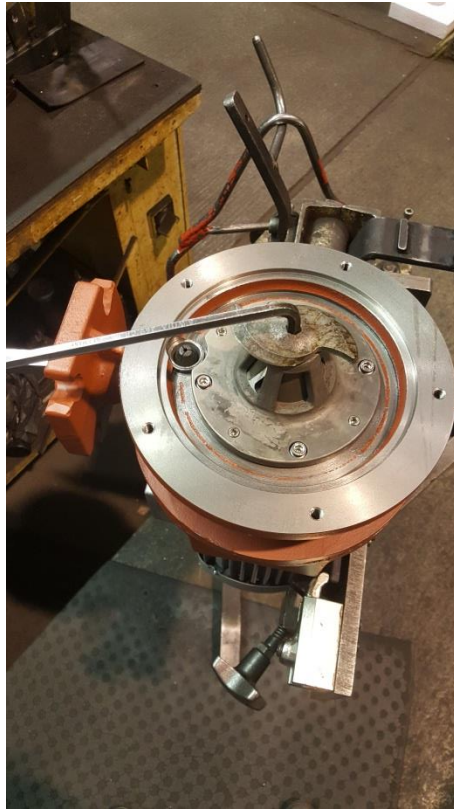


Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- Place the knife with O-ring 98x3 into the pump housing and grease it with graphite grease
- Screw the studs 8x12 into the knife
- Place spring lock washers 6 mm DIN 127 with screws DIN 6912 6x16
- Tighten the fastening screws M6x20
- By lifting the knife the cutting gap of 0,10-0,15 mm is adjusted
- Tighten the fastening screws after adjustment
- Assemble the cyclone with an Allen key 8

Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



- The adjustment must be carried out very conscientiously
- The cutting system is set well if a distance of 0.1-0.15 mm is set on all webs of the knife
- Only a cutting system, which is set according to the specifications, ensures a safe operation
- Assemble the intake

Assembly of cutting system with end-face seal at KM 100/ 2-6 polig



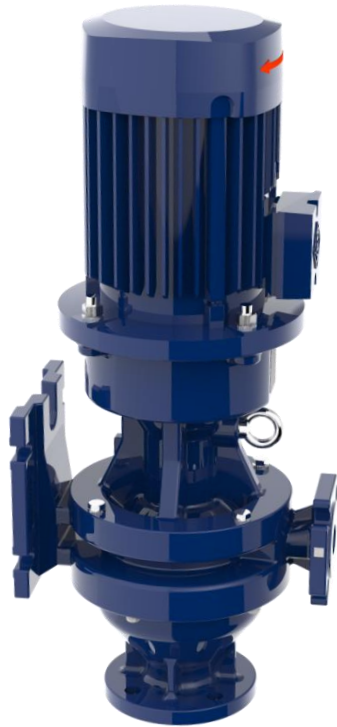
Note:

The cutting system of the KM 100 consists of:

1. Multiple knife
2. Multiple cutter
3. Rotary disk

For a safe operation of the pump all parts of the cutting system need to be replaced.

Disassembly of cutting system with end-face seal at KM 100/ 2-6 polig



If you have any questions or comments about this manual during disassembly, please contact:

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