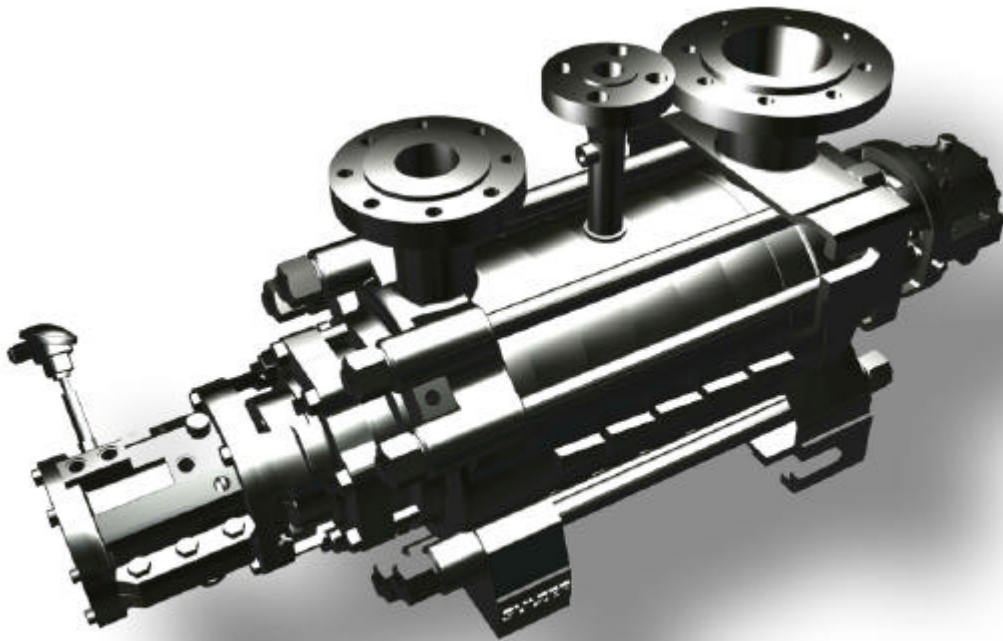


intMPE

MPMSMCP High Pressure Multi-Stage Casing Pumps



MPMSMCP Multi-Stage Casing Pumps

Type MC pumps are horizontal, radially split, ring-section pumps with modular design.

MC pumps are suitable for pumping clean or slightly polluted, hot or cold, chemically neutral or aggressive liquids.

The design is ideal for

- Boiler feed duties up to 210°C,
- Condensate service in power stations and industrial plants,
- Desalination (Reverse Osmosis),
- Service within combined-cycle power plants.



Ring section pump MC 50-220

Materials

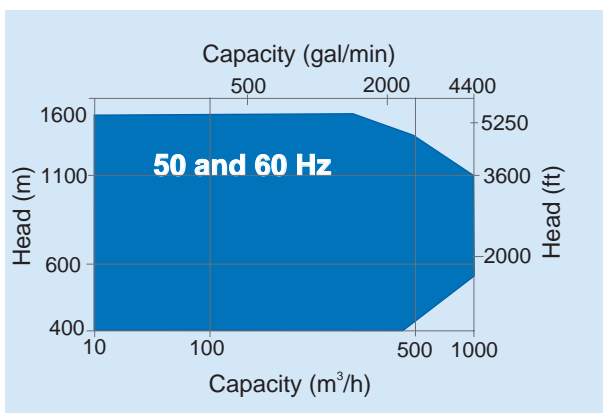
Different material options for pressure casings, impeller, diffuser and shaft depending on the operating conditions and pumped liquid.

shaft, pres. casing	impeller, diffusor
steel	cast iron
chrome steel	chrome steel
duplex steel	duplex steel



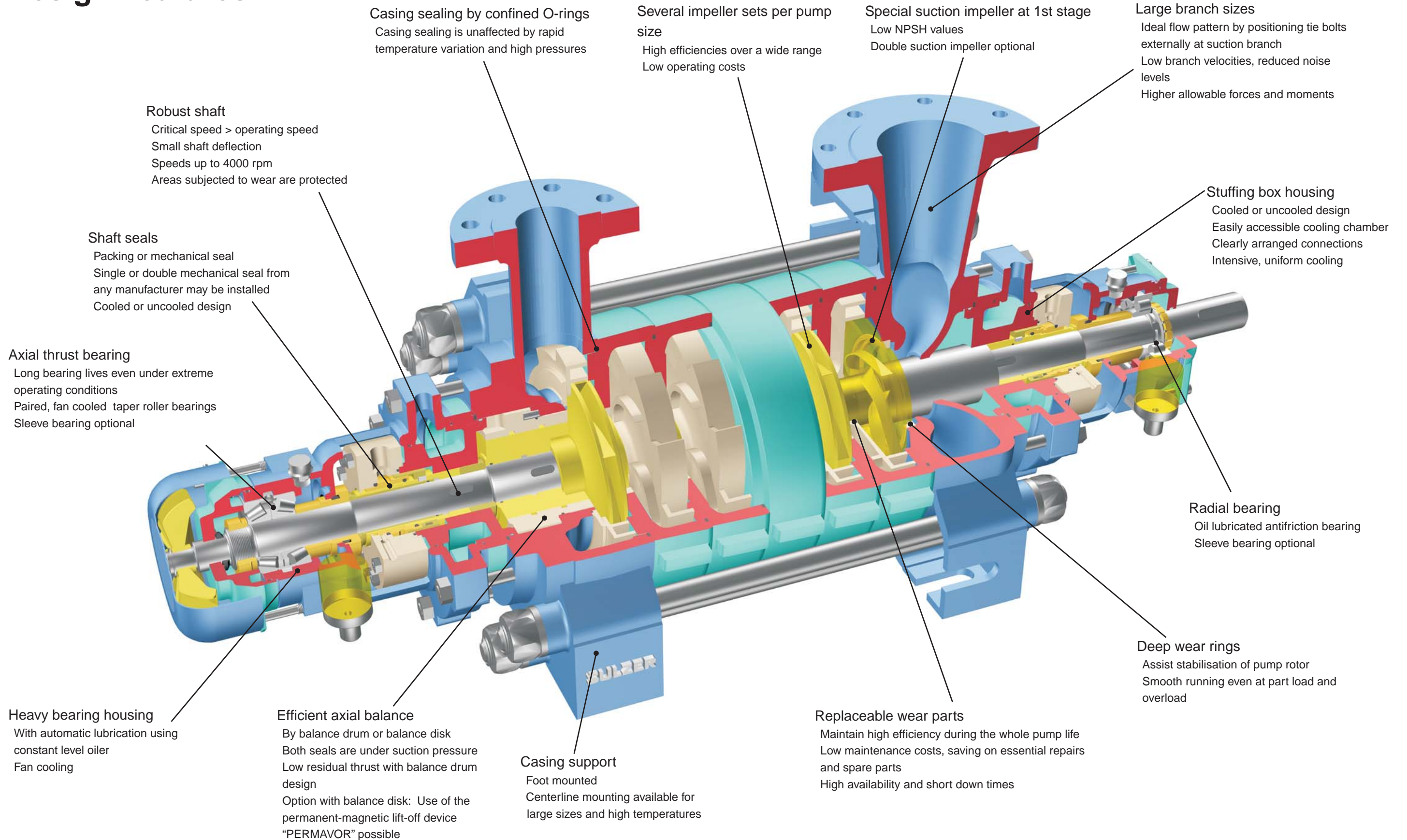
MC 80-260, 13 stages, Head 1360 m, Capacity 100 m³/h, 517 kW

Performance

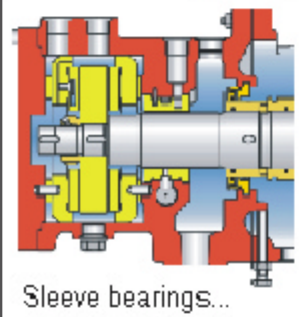
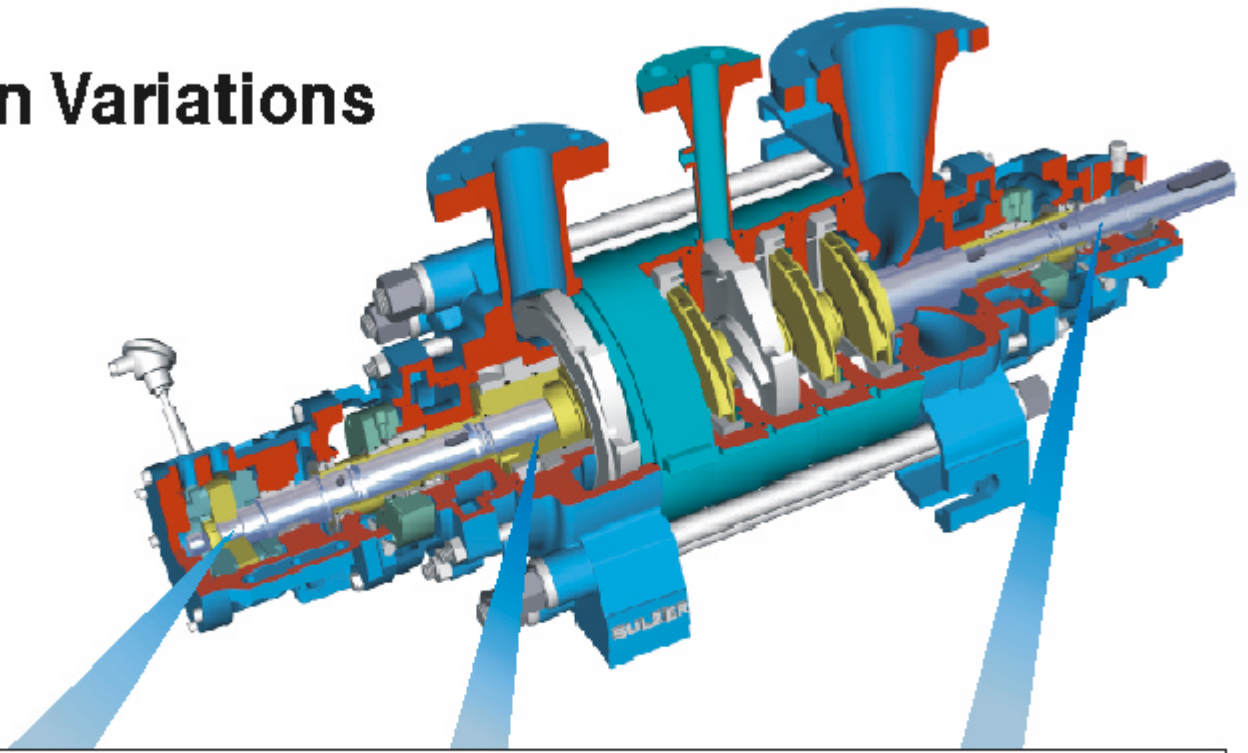


7 sizes	DN 40 up to 200 / 1½ - 8"
Capacities	up to 1000 m ³ /h / 4400 gal/min
Heads	up to 1600 m / 5250 ft
Max. Operating Pressure	up to 150 bar / 2175 psi.
Max. Temperature	up to 210°C / 410°F

Design Features

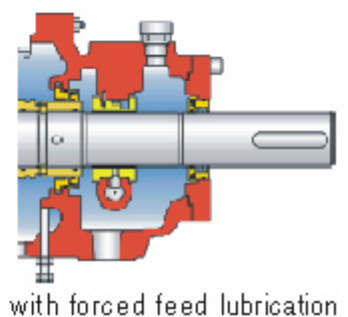
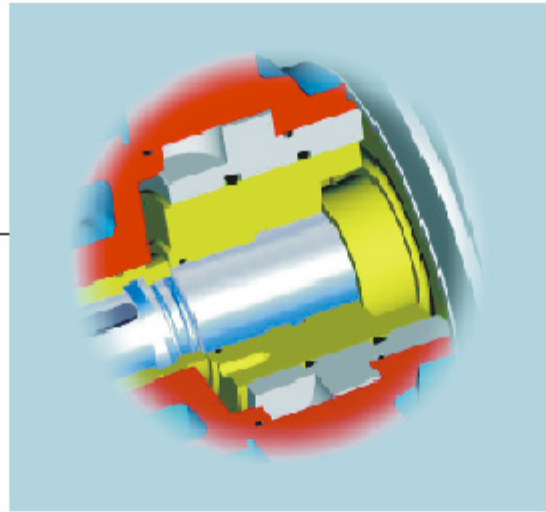


Design Variations

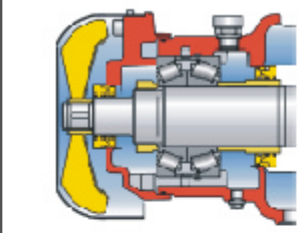


Sleeve bearings...

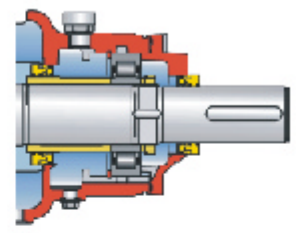
Axial thrust balanced by balance drum



with forced feed lubrication

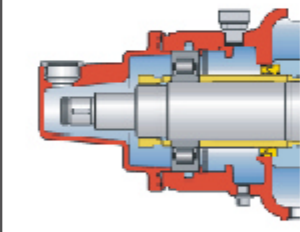
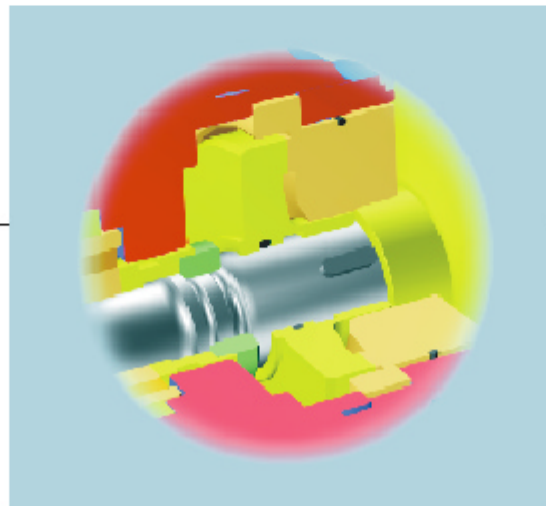


Taper roller bearings...

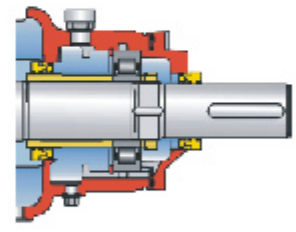


with splash oil lubrication

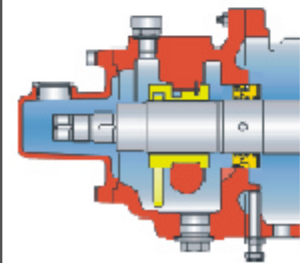
Axial thrust balanced by balance disk



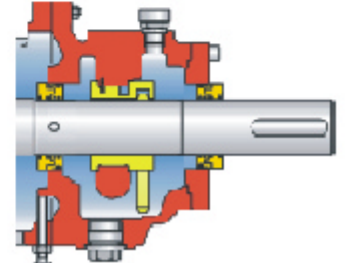
Roller bearings...



with splash oil lubrication

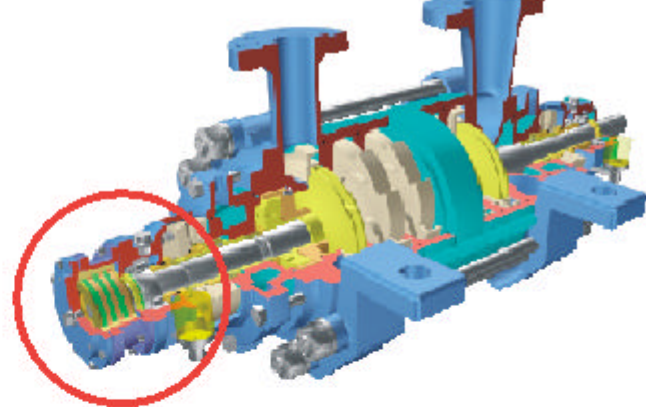


Sleeve bearings...



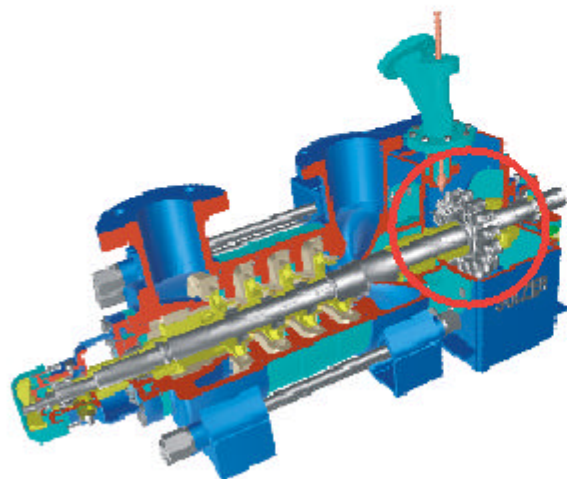
with oil ring lubrication

Design Options



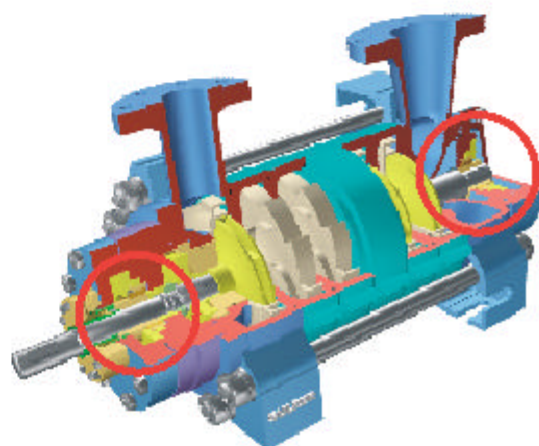
Permanent-Magnetic Lift-Off Device

With frequent start-stop operations the installation of a PERMAVOR lift off device is recommended, preventing a touching of the balancing parts and therefore wear.



Pelton Wheel for Energy Recovery

This unique design combines the hydraulic components from the M range with a Pelton wheel for energy recovery for desalination applications.



Product Lubricated Bearings

The bearing is lubricated by the pumped medium. This design offers a reduction of investment and operating costs as only one shaft seal is required on the driven end.

Multistage Pumps MB, MC, MD and ME

The M-line pump series provides a modular and proven design for different pressure ranges:

MB-pumps: up to 80 bar, 1160 psi

MC-pumps: up to 150 bar, 2175 psi

MD-pumps: up to 270 bar, 3915 psi

ME-pumps: up to 380 bar, 5510 psi

