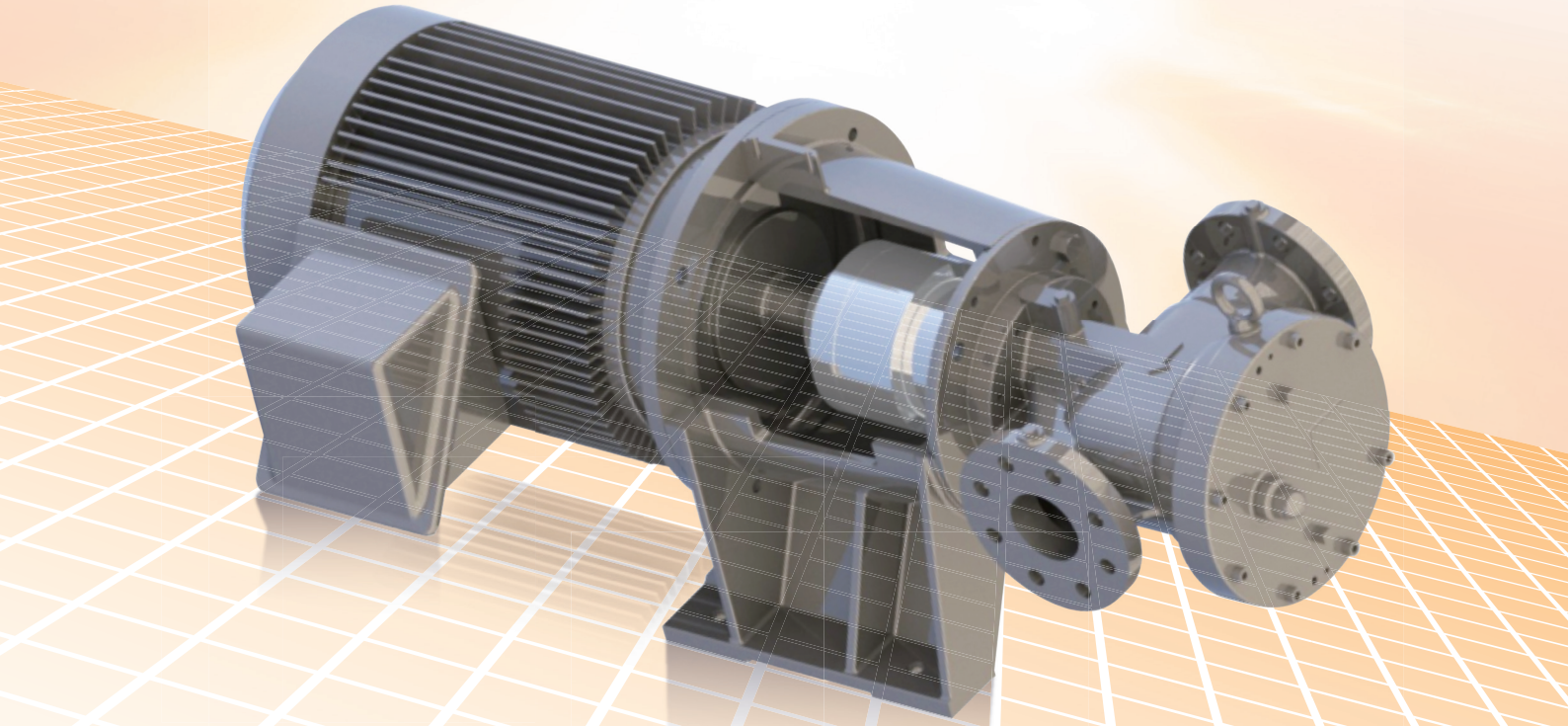
3 SCREW PUMP

MSDK-MG



Application Lubrication oil and fuel oil for M/E, A/E and G/E

Specification		
Capacity	4～35m³/h (below 4m³/h by 1800min⁻¹)	
Fluid	1.5～600 mm²/s	
	Lubrication oil	Turbine oil, Engine oil, Hydraulic oil, etc.
	Fuel oil	Kerosene, Diesel oil, Heavy oil Marine fuel ・MFO (Marine Fuel Oil) : CFO, MFO380 (ISO 8217) ・MGO (Marine Gas Oil) : DO, DMA & DMX (ISO 8217) ・MDO (Marine Diesel Oil) : AFO, DMB (ISO 8217)
Working Pressure	Max. total press. 1.0MPa (suc. press. -0.05 ～ +0.5MPa / dis. Press. ～1.5MPa)	
Standard Rotating Speed	3600min⁻¹ (60Hz×2P)	
Temperature	Max. 150℃ (Oil temperature)	
Flange	Both suction and discharge are JIS 10K FF (JIS B 2239) Discharge flange can be JIS 16K FF	

Structure

Main Parts Material

Casing : FC200
Power rotor : S45C
Idler rotor : FCD500
※Surface treatment is standardized due to expected severe operating conditions.

Non-Seal Structure by Magnetic Coupling

- Power Transmission:Contact-free torque transmission from the motor to the pump rotors.
- Hermetic sealing : Static sealing between the shround and the pump casing.

Bearing

Self-lubrication : The rotors run in handling oil lubricated bearings.

Simple Structure

- Easy assembling and elimination of shaft seal related parts.
- Easy overhauling and simple alignment procedure from spigot joint.

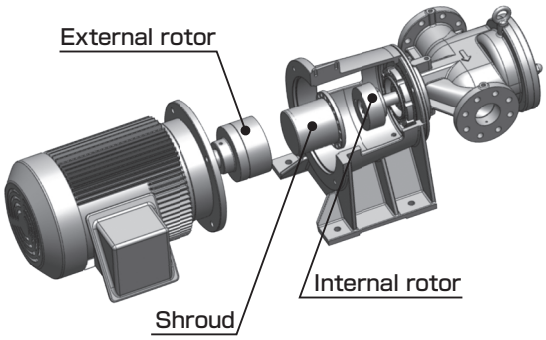
Comparison with The Conventional

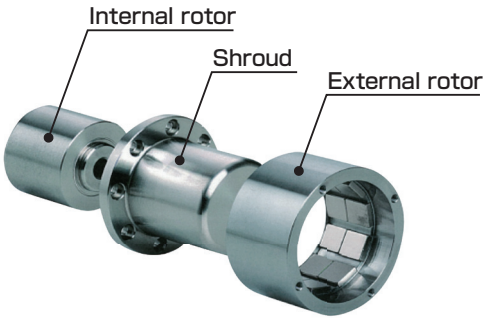
- Fewer parts and simpler structure.
- Non-leak structure by hermetic sealing: no shaft penetration.
- Simple alignment by the spigot jointed motor frame and the direct rigid coupling.

Warning And Caution

- Strong magnetic force.
  - Don't come close to the coupling who wearing healthcare products or instruments.
    ※Especially the person wearing heart pacemaker.
  - Don't locate equipment close to the coupling which are easily influenced.
  - Always use maker supply overhauling jig. Without them, working on the coupling is dangerous.
  - Avoid any substance stuck on the magnet.
    (Remove foreign substances such as iron particles and sludge in the oil and/or the pump surrounding as much as possible.)
    ※Periodical overhauling and cleaning is recommended.
- Larger coupling loss (Eddy current & Hydraulic loss)
  ※ Compare with conventional seal pumps, the motor power requirement is higher even if the same specification. Please contact us.

Magnetic Coupling





Component & Standard Material	
External rotor	Steel / permanent magnet
Internal rotor	Steel / permanent magnet
Shroud	Stainless

Max.Shroud Pressure
1.6MPa

Max. Magnet Temperature
150℃

Max. Rotation Speed
3600min^{-1}

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■ ISO 9001 certified For any inquiries, please refer to attached 【BUSINESS OFFICE NETWORK】 2015/08 MUTSUMI
● The sizes and specifications of the products in this catalog are subject to improvement.