

Main Products

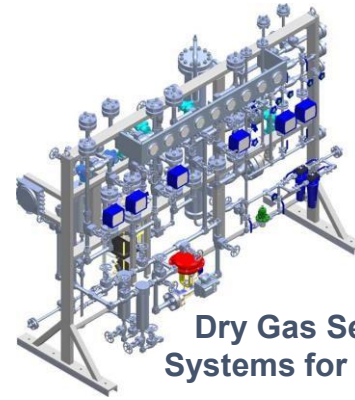


- **Dry Gas Seals for Compressors**
- **Dry Gas Seals for Pumps**
- **Mechanical Seals for Pumps**
- **Dry Gas Seals for Agitators**
- **Mechanical Seals for Agitators**
- **Dry Gas Seals for Blowers**
- **Carbon Floating Rings for Blowers & Compressors**
- **Dry Gas Seals Control Systems**
- **Supporting Systems for Mechanical Seals**

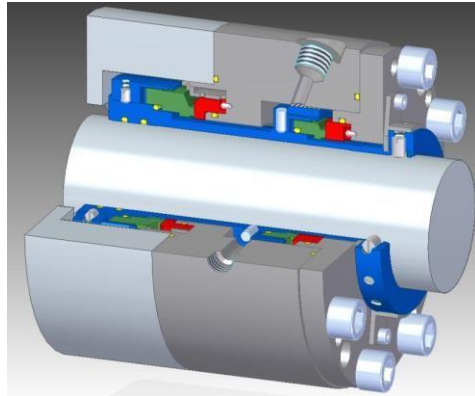
Typical Products



**High-Pressure/Large-Size
Dry Gas Seals for Compressors**



**Dry Gas Seals Control
Systems for Compressors**



API 682 Mechanical Seals



**High-Pressure/Large-size
Mechanical Seals for Agitators**

Workshop Product Exhibition Area



Product Technical Level

■ Dry Gas Seals for Compressors

- Pressure: Up to 20MPaG
- Speed: Up to 200m/s
- Shaft Diameter: Up to 350mm

■ Dry Gas Seals for Pumps

- Pressure: Up to 4.2MPaG
- Speed: 1,000 to 3,600rpm
- Shaft Diameter: 20-110mm(Standard), Up to 240mm(Engineering)

■ Mechanical Seals for Pumps

- Pressure: Up to 15MPaG
- Speed: 1,000 to 3,600rpm(Standard), Up to 20,000rpm(High-Speed Pumps)
- Shaft Diameter: 20-110mm(Standard), Up to 240mm(Engineering)

Product Technical Level

■ Dry Gas Seals for Agitators

- Pressure: Up to 1.6MPaG
- Speed: 20rpm(Minimum)
- Shaft Diameter: Up to 350mm

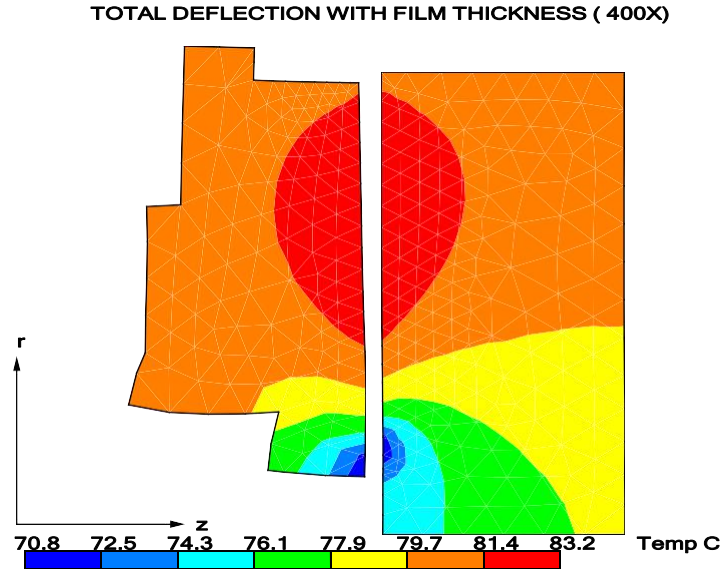
■ Mechanical Seals for Agitators

- Pressure: Up to 10MPaG
- Speed: Up to 500rpm(Normal)
- Shaft Diameter: Up to 480mm

■ Carbon Floating Rings for Blowers & Compressors

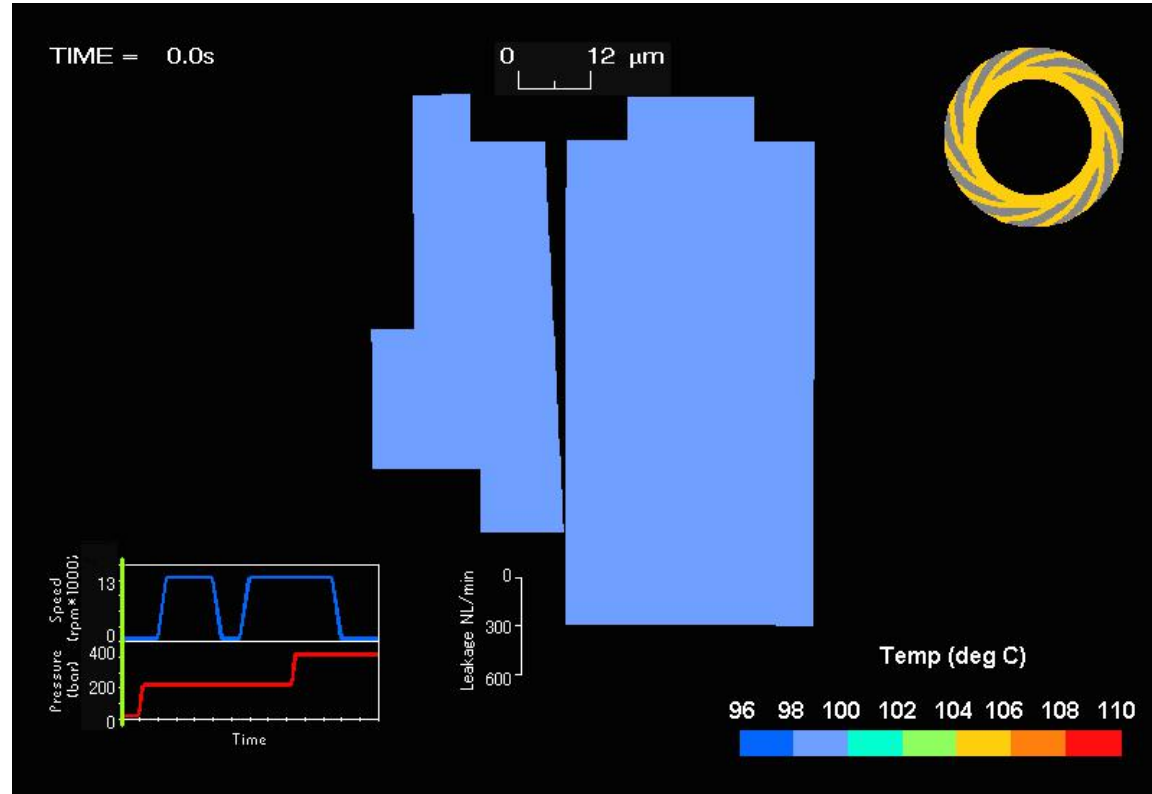
- Pressure: Up to 15MPaG
- Speed: Up to 240m/s
- Shaft Diameter: Up to 400mm

International Advanced Design & Analysis Software on Sealing Performance



- Mechanical seal / dry gas seal performance prediction
- Utilising proprietary software
- Steady state & transient fluid film modelling
- Real time mechanical seal / gas seal behaviour
- Exclusively includes:
 - FEA;
 - CFD;
 - And reasonable correction based on lots of tests.

Dynamic Simulation of Dry Gas Seals Comprehensive Performance



Key Production & Processing Capacity

■ 5-Axis Machining Center

- Brand: MAZAK
- Model: INTEGREX 300II Y
- Precision:

■ Laser Grooving Device

- Brand: Hanslaser
- Model:
- Precision: 0.1 μm (Groove Depth),
Ra 0.2 μm (Groove Bottom)。



Key Production & Processing Capability

■ Lapping & Polishing Machine

- Brand: GNM
- Model: GNM1200/GNM800
- Diameter of Grinding Disc: 1200mm/800mm



Detection & Test Capability

■ CMM

- Brand: Carl Zeiss
- Model: SPECTRUM 776 RDS
- Precision: $1.9 + L/250 \mu\text{m}$

■ Contour Roughness Measuring Instrument

- Brand: Taile
- Model: CL-1A
- Precision: $0.1 \mu\text{m}$ (Groove Depth Detection)



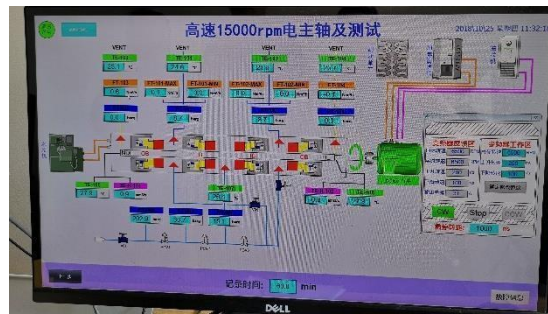
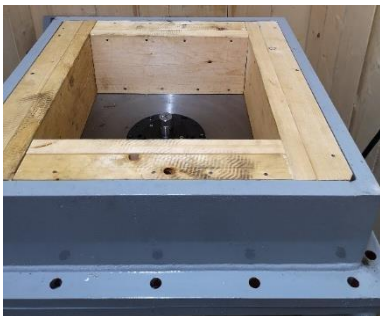
Detection & Test Capability

■ Test Rigs for Compressor Dry Gas Seals

- Pressure: Up to 25MPaG
- Speed: 20000/15000rpm (2 in All)
- Shaft Diameter: Up to 300mm, Up to 400mm(Base Need to Adjust)
- Power: 50/40KW Rated, 120/80KW Max.
- Break-Out Torque: 70/128N.m Rated, 168/254N.m Max.

■ Spin Test Rig, Up to 36000rpm

■ Dynamic Balancing Machine



Detection & Test Capability

■ Test Rig for Pump Mechanical Seals

- Pressure: Up to 25MPaG(Oil) , 5 MPaG(Water) , 4 MPaG(Air)
- Speed: Up to 6000rpm
- Shaft Diameter: Up to 300mm
- Power: 45KW Rated
- Break-Out Torque: 145N.m Rated



Detection & Test Capability

■ Test Rig for Agitator Mechanical Seals

- Pressure: Up to 25MPaG(Oil) , 5 MPaG(Water) , 4 MPaG(Air)
- Speed: 20 to 300rpm
- Shaft Diameter: 100 to 480mm
- Power: 45KW Rated
- Break-Out Torque: 291N.m Rated



Detection & Test Capability

■ API 682 Static Pressure Test Device

- Pressure: 25PSI
- Time: 300S
- Acceptance Criterion: Pressure Drop ≤ 2 PSI

