www.rajenterprise.net

RAJ ENTERPRISE
Mechanical Seals & Sealing Component

INDIA'S
MOST TRUSTED
MANUFACTURER OF THE QUALITY
MECHANICAL SEALS & ROTARY JOINTS.

- MECHANICAL SEALS
- ROTARY JOINTS
- CHEMICAL PUMPS

We believe in Durability Reliability Excellency

Our
Profile

ABOUT US

RAJ ENTERPRISE
Mechanical Seals & Sealing Component

Raj Enterprise is best combination of advance technology & High Skilled Proffessionals

We, Raj Enterprise Seals are prominent manufacturers of high quality Mechanical Seals. Our product line includes Component Mechanical Seal, Bellow Mechanical Seal, and Cartridge Mechanical Seal, Agitators. We manufacture mechanical seals extending from simple water pump seal to highly sophisticated pressure balance and hydro dynamic balance seal. This product range include single, multiple and conical spring seal, rubber, Teflon and metal bellow seal, agitator seal, cartridge seal, compressor seal & dry seal etc. Owing to the qualitative fabrication, our range is widely known among the clients for its attributes such as dimensional accuracy, robustness, high tolerance capacity, leakage proofing, optimum performance, simple usability, rugged design, smooth finishing, high efficiency and longer shelf life, these products are made available in several technical specifications.

Apart from this, all our offered mechanical seals are quality assured against the industry set parameters to ensure their quality. We serve in various process industries including refineries, petrochemicals, food processing, beverage industries, paint industries & pharmaceuticals. Our products with high technology and excellent quality are in all over India with prompt services.

We manufacture as per our own design as well as equivalent to reputed international brand like john crance, sealol, duru metallic, eagle Bergman, flowseve, etc. as per sample or drawing.
We also under take repairing and maintenance of any type of Mechanical Seal and pumps.
Our products have got reputation of solving critical problem of mechanical seals and providing best quality goods at reasonable price with on time delivery.

We are running with flying colors in the race of success along with full support of technologies and resourceful workforce. We are always successful in satisfying the demands of client and at reliable cost.

We Believe

Aim to build a smart world through the best technology and ample experience.

Quality is the essential factors on which we concentrate most while follow quality checking process and strategies to maintain the same. With our innovative ideas and experienced and well–qualified employee we prove to be best in quality as well as in on-time delivery. Quality ensuring test are conducted which are based on various factors like...

- Specific Dimensions
- Final Assembly Testing
- Lapping Testing
- Compression
- Leak Testing
- Packaging

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE
KSMS107

MULTI SPRING MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	10 bar
TEMPERATURE	-20C to 200C
SPEED	3000 RPM(max)

SEAL FACE MATERIAL

Silicon Carbide, Tungsten Carbide, Ceramic, Carbon-M, Carbon-R.

SECONDARY SEALING

EPDM, TTV, Silicon, Viton, PTFE, Neoprene, Nitrile.

METAL COMPONENTS

SS 316, SS 304

APPLICATION

- Chemical Pumps.
- Petrochemical Industries.
- Corrosive Chemical Pumps.
- High Pressure Pump
- Acid Pump.

FEATURES

- Unbalance seal,
- Inside mounted,
- Maintenance Free,
- Multi spring design,
- Long life service.

SMAK MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	40mm
PRESSURE	7 bar
TEMPERATURE	-40C to 150C
VELOCITY	0.3 to 5,000mPas

SEAL FACE MATERIAL

Silicon carbide or zirconia, FDA-compliant

BEARINGS

Silicon nitride

METAL PARTS

Samarium cobalt

TYPE

FEATURES

- Chemical industry
- Pharmaceutical industry
- Food processing industry
- Agitators
- Mixers

APPLICATION

- Hermetically sealed
- Sterile design
- No contamination by buffer media
- No maintenance necessary

TYPE
KSRB103

RUBBER BELLOW MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	12 bar
TEMPERATURE	-20C to 180C
SPEED	3000 RPM(max)

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Viton, EPR, EPDM, NBR.

METAL COMPONENTS

SS 316, SS 304

APPLICATION

- Chemical Process Pump.
- Oil Refineries.
- Sewage Applications.
- Fuel Injection Pumps.
- Hot & Cold Water Pumps.
- Waste Water Pumps.

FEATURES

- Unbalance seal,
- Long service life,
- Unparalleled quality,
- Bendable.

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE

MAK685 MECHANICAL SEAL

OPERATING LIMITS

VELOCITY	0.3 to 5,000 mPas
PRESSURE	40 bar
TEMPERATURE	-40C to 250C
DIAMETER	40mm

SEAL FACE

Silicon carbide SiC (Q1),SiC-C-Si (Q3),

MAGNETS

Samarium Cobalt (Ma3),

APPLICATION

- Contact-free operation, no friction
- No differential pressure required
- Applicable as containment seal acc. to API 682

FEATURES

- Hermetically sealed
- No maintenance necessary
- Hastelloy® can available
- High efficiency can optional

SINGLE SPRING MECHANICAL SEAL

TYPE
KSSS105

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	10 bar
TEMPERATURE	-20C to 200C
SPEED	2900 RPM(max)

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Viton, EPR, EPDM, NBR.

METAL COMPONENTS

SS 316, SS 304,

APPLICATION

- Chemical Process Pump.
- Oil Refineries.
- Thermal Power Plants.
- Nuclear Plant.
- Petroleum & Paper Industries.
- Pulp Industries.
- Marine Inudustries.

FEATURES

- Unbalance seal, inside mounted,
- Maintenance free,
- Optimum thickness,
- Long life service.

TYPE
KSDT106

Dura Type MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	10 bar
TEMPERATURE	-20C to 200C
SPEED	3000 RPM(max)

SEAL FACE MATERIAL

Silicon Carbide, Tungsten Carbide, Ceramic, Carbon-M, Carbon-R

SECONDARY SEALING

EPDM, TTV, Silicon, Viton, PTFE, Neoprene, Nitrile.

METAL COMPONENTS

SS 316, SS 304

APPLICATION

- Chemical Pumps.
- Petrochemical Industries.
- Corrosive Chemical Pumps.
- High Pressure Pump.
- Acid Pump.

FEATURES

The Products served by us are acceptable for their matchless features like balanced, double acting and uniform face loading.

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE
KSTB101

TEFLON BELLOW MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	6 bar
TEMPERATURE	-45C to 120C
SPEED	2900 RPM(max)

SEAL FACE MATERIAL
Carbon, Silicon Carbide, Ceramic (99.5%)

SECONDARY SEALING
PTFE, Ceramic, GFT, CFT

METAL COMPONENTS
SS 316, SS 304

APPLICATION
- Chemical Process Pump.
- Oil Refineries.
- Thermal Power Plants.
- Acid Pumps.
- Petroleum
- Paper Industries.
- Pulp Industries.
- Marine Inudustries.

FEATURES
- Single acting, Outside Mounted Seal,
- Independent of direction,
- Unbalance seal.

ROTARY UNION MECHANICAL SEAL

TYPE
KSRU302

OPERATING LIMITS

PRESSURE	10 bar
TEMPERATURE	120º C
SPEED	3/8" to 2.0"

SEAL FACE MATERIAL
Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING
Kalrez, Viton, TTV, PTFE, EPR, EPDM, NBR.

METAL COMPONENTS
SS 316, SS 304

FEATURES
Rotor connection options : BSP, NPT, UNF, UNC, METRIC THREAD are available. Built in flange connection and quick change flange connection are also available.
No external support required : self supporting on two precision ball bearings far enough to reduce vibration & wobbling.
Balanced mechanical seal : minimises operating torque & enhances life.
Seal faces are self lubricating. Carbon (Resin impregnated) and silicon carbide with suitable elastomeric secondary sealing.
Or as per the requirement.

APPLICATION
- Chemical Process Pump.
- Oil Refineries.
- Thermal Power Plants.
- Acid Pumps.
- Petroleum & Paper Industries.
- Pulp Industries.
- Marine Inudustries.

TYPE
KSSC109

SINGLE CARTRIDGE MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	15 bar
TEMPERATURE	-20C to 200C
SPEED	2900 RPM(max)

SEAL FACE MATERIAL
Carbon, Silicon Carbide, Tungsten Carbide, Ceramic.

SECONDARY SEALING
Nitrile, Viton, EPDM, PTFE, GFT, TTV, EPR, Neoprene, Alfas, Karlez.

METAL COMPONENTS
SS 316, SS 304

APPLICATION
- Solids.
- High Viscosity.
- Abrasive.
- Sewage.
- Slurries.
- Sludge And Viscous Fluids

FEATURES
- Spring Product protected,
- Factory assembled tested with flushing
- without flushing,
- Independent of direction of rotation.

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE
KSDC110

DOUBLE CARTRIDGE MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	20mm to 100mm
PRESSURE	15 bar
TEMPERATURE	-40C to 180C
SPEED	2900 RPM(max)

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Viton, Karlez, Graphite, EPR, EPDM, NBR

METAL COMPONENTS

SS 316

APPLICATION

- Thermic Fluid.
- Fatty Acid.
- Hydrocarbons.
- Acid Pumps.
- Petroleum Refineries.

FEATURES

- Factory Assembled Tested,
- Flushing Quenching,
- Independent of Direction of Rotation,
- Metal Bellow.

DRY RUNNING MECHANICAL SEAL

TYPE
KSDR111

OPERATING LIMITS

SHAFT DIA	50mm to 150mm
PRESSURE	Vaccum to 10 bar
TEMPERATURE	Amb 200c

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Viton, TTV, FKM, TCV, PTFE, EPR, EPDM.

METAL COMPONENTS

SS 304, SS 316

FEATURES

Dry Mechanical Seals are outside mounted balanced mechanical seal, which require noshaft or sleeve step for balancing seal shows good performance in high vaccum conditions. Since no auxiliary equipments are needed for installation, it is very cost effective & economical. High run out side, single acting, reverse balanced, outside mounted, independent of direction of rotation dry running

APPLICATION

- Food Products.
- Pharmaceutical Products.

TYPE
KSAGS201

AGITATOR MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	25mm to 150mm
PRESSURE	Vaccum to 10 bar
TEMPERATURE	Amb 200C
SPEED	600 RPM(max)
Barrier Fluid Pressure	Vessel Pressure +1.5 bar

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Kalrez, Viton, TTV, PTFE, EPR, EPDM.

METAL COMPONENTS

SS 316, SS 304

APPLICATION

- General Chemicals and Its Vapours.
- Food Products.
- Pharmaceutical Products.
- Light Hydrocarbons & Its Vapours.
- Petrochemicals & Its Vapours.

FEATURES

For top / side entry agitators, vessels and mixers double acting seal, unbalance seal, double acting back to back seal, cartridge unit, direction of rotation, operated with pressurised barrier fluid.

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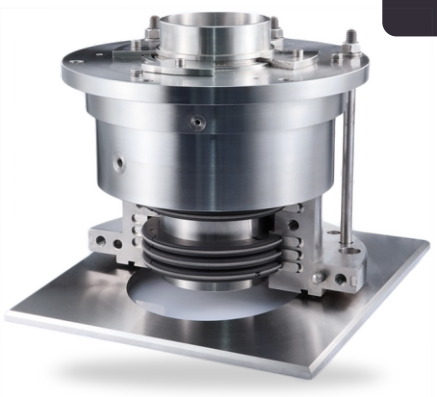
RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE



Espey WDMS500 MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	40mm to 220mm
PRESSURE	06 bar
TEMPERATURE	-40C to 500C

SEAL RING
Carbon, PTFE compound

HOUSING
1.4571, others

TENSION SPRING / DETENT
1.4571

APPLICATION
- Gases
- Dust / powder
- Oil mist / penetrating oil
- Water and waste water technology
- Petrochemical industry
- Food processing industry

FEATURES
- Split housing design
- Dry running
- Self-adjusting seal rings
- Lowest possible operation gap
- Seal rings bear radial shaft movemnts

Espey WKA802HD MECHANICAL SEAL

TYPE

OPERATING LIMITS

SHAFT DIA	420mm to 200mm
PRESSURE	140 bar
TEMPERATURE	-120C to 225C
VELOCITY	240 m/s

SEAL FACE MATERIAL
Carbon with titanium bandage

SECONDARDY SEA
Fluorocarbon rubber, Perfluorocarbon rubber

HOUSING
1.4021, 1.4571, Hastelloy®, Titan, Inconel®

FEATURES
- High reliability
- Maintainability
- Long-term operation time

APPLICATION
- Dry running
- Very small operation gap
- Compensates axial shaft movements
- Seal rings bear radial shaft movements

TYPE

Espey WDKS-Eco MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	45mm to 160mm
PRESSURE	1.5 bar
TEMPERATURE	-120C to 500C
RADIAL	±2.5 … 5.0 mm

SEAL RING
Carbon, PTFE compound

HOUSING
1.4021, 1.4571

TENSION SPRING / DETENT
1.4571

APPLICATION
- installation by split design
- High reliability
- Long-term operation time
- Segmented seal rings for easy replacement

FEATURES
Multi-part seal rings, radially cut
Split housing design
Dry running
Self-adjusting seal rings

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE

AGSZ MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	40mm to 220mm
PRESSURE	06 bar
TEMPERATURE	-20C to 200C

SEAL RING

Silicon carbide, FDA conform
Secondary seals and metallic parts acc. to application and customers' requirement.

APPLICATION

- Ready-to-fit and factory
- Central rotating seat
- Non-contacting operation
- Torque transmission by clamping ring for large axial movements

FEATURES

- For top entry drives
- Double seal
- Balanced
- Independent of direction of rotation
- Gas-lubricated
- Cartridge unit

BT-PN MECHANICAL SEAL

TYPE

OPERATING LIMITS

SHAFT DIA	8mm to 40mm
PRESSURE	12 bar
TEMPERATURE	-20C to 120C
VELOCITY	10 m/s

SEAL FACE MATERIAL

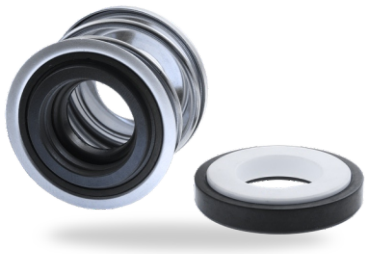
Carbon graphite antimony impregnated

SECONDARDY SEA

Aluminium oxide, Steatite,Silicon carbide

METAL PARTS

CrNi steel 1.4301 (F), CrNiMo steel 1.4401 (G)



FEATURES

- Rubber bellows mechanical seals
- Unbalanced
- Single spring

APPLICATION

- Food and beverage industry
- Water and waste water technology
- Pool and spa applications
- Household appliances

TYPE

AD510 / Ad520 MECHANICAL SEAL

OPERATING LIMITS

VELOCITY	1.0 M/S
PRESSURE	5 bar
TEMPERATURE	-30C to 175C
CONSUMPTION	2 Nl/h

SEAL FACE

PTFE, Carbon fiber and glass fiber reinforced

SEAT

Silicon carbide (Q1), Aluminium oxide (V)

APPLICATION

- Dry running
- Single seal
- Independent of direction of rotation

FEATURES

- Chemical industry
- Pharmaceutical industry
- Food and beverage industry
- Reactors

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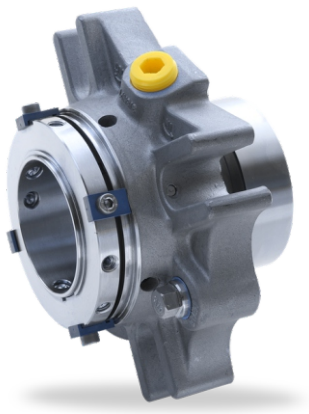


TYPE

Cartex Dual seals MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	25mm to 100mm
PRESSURE	25 bar
TEMPERATURE	-40C to 220C

SEAL FACE

Silicon carbide,Carbon graphite resin impregnated

SEAT

Silicon carbide (Q1)

METAL PARTS

CrNiMo steel (G), CrNiMo cast steel (G)

APPLICATION

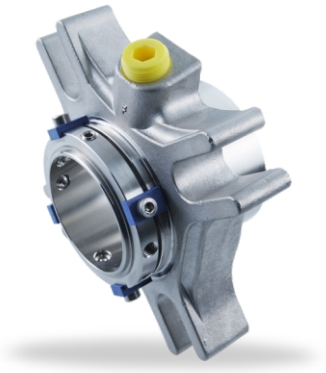
- Ideal seal for standardizations
- No damage of the shaft by dynamically loaded O-Ring
- Extended service life
- Customer specific versions available

FEATURES

- Petrochemical industry
- Chemical industry
- Pharmaceutical industry
- Power plant technology
- Mining industry
- Sugar industry

Cartex Single seals MECHANICAL SEAL

TYPE



OPERATING LIMITS

SHAFT DIA	25mm to 100mm
PRESSURE	25 bar
TEMPERATURE	-40C to 220C
VELOCITY	10 m/s

SEAL FACE MATERIAL

Silicon carbide,Carbon graphite resinimpregnated

SECONDARDY SEA

FKM, EPDM, FFKM, Perflourocarbon rubber/PTFE

METAL PARTS

CrNiMo steel (G), CrNiMo cast steel (G)

FEATURES

- Process industry
- Power plant technology
- Petrochemical industry
- Chemical industry
- Pharmaceutical industry

APPLICATION

- Single seal,Cartridge,Balanced
- Independent of direction of rotation
- Single seals without connections
- Additional variants available for ANSI pumps

TYPE

CGSH-K MECHANICAL SEAL

OPERATING LIMITS

VELOCITY	4m/s to 25m/s
PRESSURE	25 bar
TEMPERATURE	-20C to 170C
DIAMETER	28mm to 125mm

SEAL FACE

Carbon graphite antimony impregnated, Silicon

SEAT

Silicon carbide (Q1, Q2),

APPLICATION

- Contact-free operation, no friction
- No differential pressure required
- Applicable as containment seal acc. to API 682

FEATURES

- Chemical industry
- Refining technology
- Gases and liquids
- Small steam turbines

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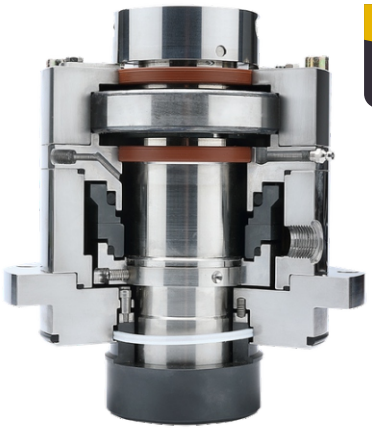


TYPE

AGSR MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	20mm to 200mm
PRESSURE	09 bar
TEMPERATURE	-20C to 200C

SEAL FACE MATERIAL

Seal faces and seats: Silicon carbide, FDA conformSecondary seals and metallic parts acc. to application and customers' requirement.

APPLICATION

- Chemical industry
- Dryers
- Pharmaceutical industry
- Mixers
- Special rotating equipment
- Food and beverage industry

FEATURES

- For top, bottom and side entry drives
- Double seal
- Balanced
- Stationary springs on product side
- Gas-lubricated

Espey Wd200 MECHANICAL SEAL

TYPE

OPERATING LIMITS

SHAFT DIA	40mm to 340mm
PRESSURE	20 bar
TEMPERATURE	-120C to 800C
VELOCITY	150 m/s

SEAL FACE MATERIAL

Carbon, PTFE compound

STANDARDS AND APPROVALS

FDA

HOUSING

1.4021, 1.4571, Hastelloy®, Titanium, Inconel®

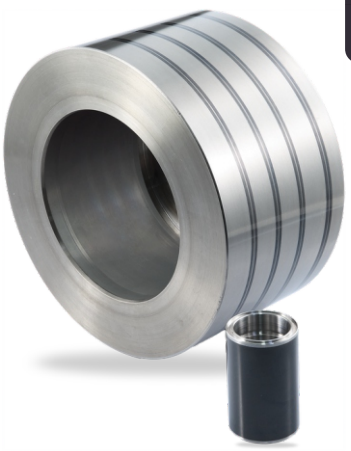
FEATURES

- Split housing design
- Dry running
- Self-adjusting seal rings
- Very small operation gap
- Multi-part seal rings, radially cut

APPLICATION

- Easy installation by split housing design
- Long-term operation time
- Maintainability
- Segmented seal rings for easy replacement

TYPE



Espey WDB200 MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	45mm to 340mm
VELOCITY	240 m/s
TEMPERATURE	1000C MAX
HARDNESS	>65 HRC

SEAL FACE MATERIAL

1.4021-FMP, 1.4086, 1.4462-FMP, 1.4571-FMP,

STANDARDS AND APPROVALS

DIN 42955

APPLICATION

- installation by split design
- Maintainability
- High reliability
- Long-term operation time

FEATURES

Torque transmission depending on application with set screw or as shrink fit
Design one- or two-piece

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

TYPE

LMF1 MECHANICAL SEAL

OPERATING LIMITS

VISCOSITY	0.3 to 5,000 mPas
SPEED	750 to 3,600 min-1
SOLIDS	0.01 mm (MAX)

SEAL FACE

Silicon carbide SiC, SiC-C-Si (Q3),Carbon graphite

METAL PARTS

CrNiMo steel 1.4462 (G1)

APPLICATION

- Sliding bearing for the shaft of an impeller in a pump
- Self lubrication through pump liquid
- Suitable for MAK66, MAK685 and NMB HE

FEATURES

- Chemical industry
- Oil and gas industry
- Refining technology
- Pharmaceutical industry
- Food processing industry
- Centrifugal pumps

METAL BELLOW MECHANICAL SEAL

TYPE
KSMB102

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	20 bar
TEMPERATURE	-20C to 400C
SPEED	3000 RPM(max)

SEAL FACE MATERIAL

Carbon-M, Lecrolloy, Silicon Carbide, Tungsten Carbide, Stellite.

SECONDARY SEALING

Garfoil, PTFE, GFT, CFT, Viton, EPDM, Aflas, Silicon.

METAL COMPONENTS

SS 316, SS 304, HAST-C, HAST-B

APPLICATION

- Dairy Industries.
- Beverages Industries.
- Dying Industries.
- Pigmenting Ind.
- Water Proofing Inudustries.
- Water Treatment Plants
- Marine Inudustries.
- Textile Inudustries.

FEATURES

Long life, Durability, Abrasive resistance, Slip free, Stick free, Simple installation, With standing a very high range of temperature and pressure, High abrasion resistance.

TYPE
KSCS104

CONICAL SPRING MECHANICAL SEAL

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	10 bar
TEMPERATURE	-20C to 200C
SPEED	2900 RPM(max)

SEAL FACE MATERIAL

Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING

Silicon, Viton, PTFE, Neoprene, EPDM

METAL COMPONENTS

SS 316, SS 304

APPLICATION

- Chemical Process Pump.
- Oil Refineries.
- Thermal Power Plants.
- Dairy.
- Pharmaceuticals
- Marine Inudustries.

FEATURES

- Maintenance Free,
- Optimum Thickness,
- Inside Mounted,
- Unbalanced.

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RAJ ENTERPRISE
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TYPE
KSRJ301

ROTARY JOINT MECHANICAL SEAL

OPERATING LIMITS

PRESSURE	10 bar
TEMPERATURE	120° C
SPEED	3/8" to 2.0"

SEAL FACE MATERIAL
Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING
Grafoil, Viton, TTV, PTFE, EPR, EPDM, NBR.

METAL COMPONENTS
SS 316, SS 304

APPLICATION
- Chemical Process Pump.
- Oil Refineries.
- Thermal Power Plants.
- Acid Pumps.
- Petroleum & Paper Industries.
- Pulp Industries.Marine Inudustries.

FEATURES
Rotor connection options : BSP, NPT, UNF, UNC, METRIC THREAD are available. Built in flange connection and quick change flange connection are also available. No external support required self supporting on two precision ball bearings far enough to reduce vibration & wobbling. Balanced mechanical seal : minimises operating torque & enhances life. Seal faces are self lubricating. Carbon (Resin impregnated) and silicon carbide with suitable elastomeric secondary sealing. Or as per the requirement.

WAVE SPRING MECHANICAL SEAL

TYPE
KSWS108

OPERATING LIMITS

SHAFT DIA	15mm to 100mm
PRESSURE	10 bar
TEMPERATURE	-20C to 200C
SPEED	3000 RPM(max)

SEAL FACE MATERIAL
Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING
Viton, TTV, PTFE, EPR, EPDM, NBR

METAL COMPONENTS
SS 316, SS 304

APPLICATION
- Paper & Pulp Industries.
- Sugar.
- Waste Water.
- Dairy industires.
- Clean Water.
- Sewage Water.

FEATURES
- Unbalance Seal Inside Mounted Seal,
- Universal Application Opportunities,
- Self Cleaning Effect.

TYPE
KSANF202

AGITATED NUTSCHE FILTERS

OPERATING LIMITS

SHAFT DIA	50mm to 150mm
PRESSURE	Full vaccum to 7 bar
TEMPERATURE	-80C to 200° C
VELOCITY	1 m/sec

SEAL FACE MATERIAL
Carbon-M, Carbon-R, Silicon Carbide, Tungsten Carbide.

SECONDARY SEALING
Kalrez, Viton, TTV, PTFE, EPR, EPDM.

METAL COMPONENTS
SS 316, SS 304

FEATURES
Agitated nutsche filters (ANF). These seals are used for ANF filters & dryers, Rotary vacuum paddle dryers and Horizontal reactors with expanding shafts.

APPLICATION
- General Chemicals and Its Vapours.
- Food Products.Pharmaceutical Products.
- Light Hydrocarbons & Its Vapours.
- Petrochemicals & Its Vapours.

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

CHEMICAL PROCESS PUMP

We are a leading manufacturer of vertical centrifugal chemical process pump, horizontal centrifugal chemical process pump, stainless steel chemical process pump, chemical process pump, horizontal chemical process pump and centrifugal chemical process pump.

SPECIFICATIONS

CAPACITY	Up to 110 Cu Mt / Hr
HEAD	Up to 55 Meters
TEMPERATURE	0° C to 150° C
SPEED	Up to 3500 RPM(max)
PRESSURE	Up to 5 kg/cm2

MATERIALS

Casing :
PP , GFPP , PVDF
Shaft :
st. steel (SS 410 / SS 316 / SS 304)
Impeller :
PP , GFPP , PVDF.

RELIABILITY

The pump are hydraulically designed for maximum efficiency. Every pump passes through stringent process & quality control plans and is designed to give longer life with consistent performance and trouble free service.

APPLICATION

- Water transfer hot & cold water.
- Cooling tower heat exchanger.
- Sea water textile id Paper ind.
- Food ind Laminate ind Salt ind.
- Circulation transfer petroleum ind.
- Pharmaceutical ind dyes & pigments ind.
- Jet dyeing chemical process.
- Chemical Process Industries.
- Cement Agriculture Fiber.

FEATURES

High capacity, Less maintenance, Low electricity consumption, Long functional life, Robust construction, Insulated surface finish.

CHEMICAL PROCESS PUMP

Our chemical pumps are specially manufactured to assure that they are able to handle aggressive and corrosive liquids. Mainly chemicals pumps are used to transfer liquids from one container to another container. We have a large range of chemical pumps as per the chemical properties with different functional principles.

We are well known for manufacturing a variety of chemical pumps for improving the operation and efficiency of process systems.

SPECIFICATIONS

CAPACITY	up to 48 m3/hr
HEAD	up to 60 Meter
TEMPERATURE	up to 135° C
SPEED	up to 3500 rpm(max)
PRESSURE	up to 6 kg/cm2

MATERIALS

CI, CS, SS304
316, SS 304 L
316L, Alloy 20,
Hast alloy B or
C,CD4MCU, etc

RELIABILITY

The pump are hydraulically designed for maximum efficiency. Every pump passes through stringent process & quality control plans and is designed to give longer life with consistent performance and trouble free service.

APPLICATION

- Hot and cold water transferring
- Cooling Tower
- Heat Exchanger
- DM Water
- Steel Industries
- Ceramic Industries
- Chemical Plants
- Pharmaceutical Industries
- Dyes and Pigment Industries
- Petroleum Industries
- Purpose of liquid transfer
- Slurry transfer
- Acid transfer

FEATURES

Develop higher pressure, Robust construction, High efficiency, Low maintenance, Able to run at lower motor speed.

RAJ ENTERPRISE
Mechanical Seals & Sealing Component

PUMP SPARES & COMPONENTS

We are one of the leading manufacturer and supplier company. We are making all kind of fabricating pump seal spare parts for the various industries application. We have an expertise team in making water pump seal as well as dewatering pump.

FEATURES

- Durable, Standard quality,
- Low maintenance cost,
- Modern technology,
- Reliable,
- High strength.

APPLICATION

- Chemical Pumps.
- Pharmaceuticals Pumps.
- Oil Pumps.
- Water Pumps.
- Vacuum Pumps.
- Gear Pumps etc.

MECHANICAL SEALS SPARES

Material Used
Aluminum 5052, 6061, 6063, 7075, Copper, Brass, Stainless Steel, Mild Steel,SS 304, SS 3016.

FEATURES

Invisible leakage, Less friction/power loss, No to little wear on the shafts or sleeves, Flexibility - to accommodate shaft deflections and "End Play", No period maintenance, Long Life.

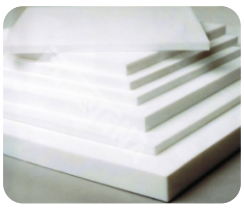
APPLICATION

- Aerospace
- Defense
- Industrial
- Medical
- Pharmaceutical
- Military
- Oil Field markets

"O" RINGS GASKETS & MOULDED PRODUCTS

O-Rings continue to be the most widely utilized sealing product. While the 'Donut' shaped profile has by and large been kept intact since their inception, continued elastomeric development has pushed O-ring temperature and chemical compatibility to limits unimaginable several decades ago.

The following advantages of O-rings are as relevant today as they were at their inception. O-Rings seal over a wide range of pressure, temperatures and tolerances. They also have tremendous ease of service over the course of product life and use a small percentage of hardware space. O-Ring failure is typically gradual and easily identified. Finally, they are a cost-effective sealing solution relative to their product counter parts.



PTFE Machined Parts

Plastic or Fluoropolymer components are moulded and machined to meet customers particular requirements. Although all products are made to customer specific drawings, typical components include ball valve seats, gaskets, washers, filter baskets etc and materials range from simple plastics such as Nylon, Delrin, UHMWPE to specialist fluoropolymers such as PEEK, PCTFE and obviously PTFE. Duflon can cater for one-off quantities upto large scale mass production quantities.

Its often used in various industries like Sugar, Paper Industries, Chemical process pumps, Petrochemical industries, Electrical Industries, Pharmaceuticals , textile.

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RAJ ENTERPRISE
Mechanical Seals & Sealing Component

WHY WE ARE...?

We manufacture highly efficient and reliable Mechanical Seals for Pumps, Compressors, Agitators, Mixers, Reactors, Dyeing Machines and all other equipments having rotating shafts. We have got all the necessary plant & machineries and other infrastructure to manufacture quality products.

We will constantly endeavor to satisfy our customers by understanding their requirements through active participation and effective communication. We will develop creative solutions to meet these requirements and explore new technologies in anticipation of the changing times.

We will achieve this through the following objectives :

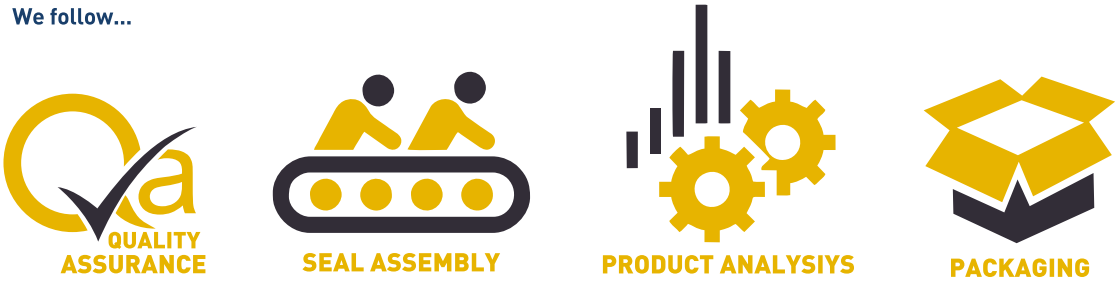
- Supplying products complying to agreed specifications free of errors.
- Developing customer focus in our employees.
- Development of our employees by technical and quality training.
- Developing vendors' quality by providing them with technical support.
- Standardisation to reduce inventory and lead times.
- Reducing our costs through technology, productivity and quality improvements.
- Providing emergency support to the customer at his site and at our works in case of failures.

QUALITY CONTROL

We apply ourselves to perform the right quality and the right time to all customers. Kreatik Seals believes that the correct raw material is very important factor for the execution of quality of products.

We believe..

We follow...



Thus, this way we serve with 100% Best Quality & Service Management.

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RAJ ENTERPRISE

Mechanical Seals & Sealing Component

Industries We Serve...

- PETROCHEMICALS
- PHARMACEUTICALS
- DAIRY PLANTS
- FERTILIZERS
- OIL REFINERIES
- TEXTILES

Let's talk here...

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