



Triumph  
Engineers &  
Associates Pvt. Ltd.



**DESIGNER & MANUFACTURER OF ELASTOMERIC AND THERMOPLASTIC SEALS AND SEALING SOLUTIONS**

Static Seals ~ Piston and Rod Seals ~ Wipers and Scrapers ~  
Wear Rings ~ PTFE Lip Rotary Seals ~ Jacketed Spring  
Energised Seals ~ Custom Components



# PRODUCT PORTFOLIO

**120+**  
PROFILES

**32+**  
Materials

**TEMPERATURE**  
**-200 TO +260°C**

**PRESSURES**  
**VACUUM TO**  
**+1500 Kg/cm<sup>2</sup>**

**SIZE RANGE**  
**ID 2mm to**  
**1000mm OD**

**APPLICATIONS ON LAND, IN WATER AND AIR**  
**GAS, LIQUIDS AND PARTICULATES**  
**pH 0 - 14**



## BASIC SEALS

SEALS FOR GENERAL PURPOSE APPLICATIONS, LOW OPERATING PARAMETERS AND GENERALLY USED IN TANDEM WITH ANOTHER SEAL SUCH AS O-RINGS, X-RINGS AND BACK-UPS.

## PISTON & ROD SEALS

SEALS FOR RECIPROCATING APPLICATIONS INCLUDING BROAD RANGE OF U-CUPS, PTFE + O-RING PROFILES, BUFFER SEALS FOR A RANGE OF PRESSURES AND MEDIA.



## WIPERS & SCRAPERS

ELEMENTS USED TO PROTECT AGAINST INGRESS OF DUST, DEBRIS AND OTHER CONTAMINANTS INTO THE PRODUCT ASSEMBLY. AVAILABLE IN A RANGE OF MATERIALS INCLUDING RUBBERS, URETHANE AND PTFE IN MOULDED AND MACHINED PROFILES.

## GUIDE BANDS

SEALING ELEMENTS USED BALANCING SIDE LOADS AND GUIDING OF MACHINE ELEMENTS. AVAILABLE IN GRADES OF PTFE AND PHENOLIC RESIN MATERIALS BASED ON END USE APPLICATION, TEMPERATURE, MEDIA AND COMPRESSIVE LOADS.



## SPRING ENERGISED SEALS

ADVANCED SEAL DESIGN HAVING A THERMOPLASTIC JACKET & METAL SPRING ENERGISER. WIDE RANGE OF DESIGNS ARE AVAILABLE TO SUIT END APPLICATION NEEDS. TYPICALLY SUPPLIED IN FILLED PTFE / PEEK MATERIAL JACKET WITH STAINLESS STEEL INSERTS.

## THERMOPLASTIC ROTARY SEALS

RANGE COMPRISES OF BOTH JACKET WITH ELASTOMER ENERGISER AND PTFE LIP ROTARY SEALS. THE UNIQUE PTFE LIP ENSURES EXTREME PERFORMANCE AND OVERCOMES LIMITATIONS OF TRADITIONAL RUBBER BASED SEALS.



## CUSTOM ASSEMBLIES & COMPONENTS

CUSTOM PARTS AND ASSEMBLIES DESIGNED IN-HOUSE TO SOLVE UNIQUE CUSTOMER CHALLENGES OR BASED ON PRINT SUPPLIED BY CUSTOMER.



# OUR COLLABORATION PHILOSOPHY



## INTERACT

Understanding Requirements



## DESIGN

Select a standard seal / New solution



## PROTOTYPE

Validate the product / solution in field tests



## MASS PRODUCE

Standardise

# IMPACTING LIVES EVERYDAY



CHEMICAL AND  
PROCESS INDUSTRY



INDUSTRIAL  
AUTOMATION



HEAVY HYDRAULICS -  
JACKS / CYLINDERS



PHARMA & MEDICAL  
DEVICES



OIL & GAS



PUMP & VALVE



STEEL ROLLING MILLS



PAINT & PACK



FOOD & BEVERAGE



MACHINE TOOL

## WHY US?

- > STRONG DOMAIN KNOWLEDGE OF INDUSTRIES WE SUPPORT, MATERIALS & SEAL TECHNOLOGY
- > SEALS MANUFACTURED TO RELEVANT INTERNATIONAL STANDARDS
- > SEAL QUALITY THAT PERFORMS AROUND THE GLOBE
- > IN-HOUSE DESIGN AND DEVELOPMENT
- > CONTINUOUSLY TEST WHAT WE INTEND TO DELIVER
- > LOCAL AND GLOBAL MATERIALS SOURCING
- > ACCESS TO ADVANCED MATERIALS FOR THE BEST SOLUTIONS
- > PROCESS ORIENTED AND PROCESS DRIVEN OPERATIONS





## YOUR PARTNER FOR FLUID SEALING...

**TRIUMPH ENGINEERS & ASSOCIATES PVT LTD**, IS A BANGALORE, INDIA BASED, ISO 9001:2015 QUALITY SYSTEM CERTIFIED, ELASTOMERIC SEALING PRODUCTS AND SOLUTIONS PARTNER TO LEADING OEM'S IN OUR CHOSEN BUSINESS AREAS. WITH IN-HOUSE DESIGN, DEVELOPMENT AND MANUFACTURING ALONG WITH PARTNERSHIP TO LEADING RAW MATERIAL SUPPLIERS WE ARE UNIQUELY PLACED TO SUPPORT OUR PARTNERS EVER GROWING NEED FOR HIGH QUALITY, RELIABLE AND EFFICIENT SEALING SOLUTIONS.

TODAY WE HAVE OUR PRESENCE IN A RANGE OF HIGH TECHNOLOGY INDUSTRIES INCLUDING **OFF ROAD MOBILE HYDRAULICS, HEAVY ENGINEERING, PHARMA & MEDICAL DEVICES, OIL AND GAS** AS WELL AS **FOOD AND BEVERAGE** INDUSTRIES TO NAME A FEW. WE CONTINUE TO WORK ON DELIVERING PEACE OF MIND!



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