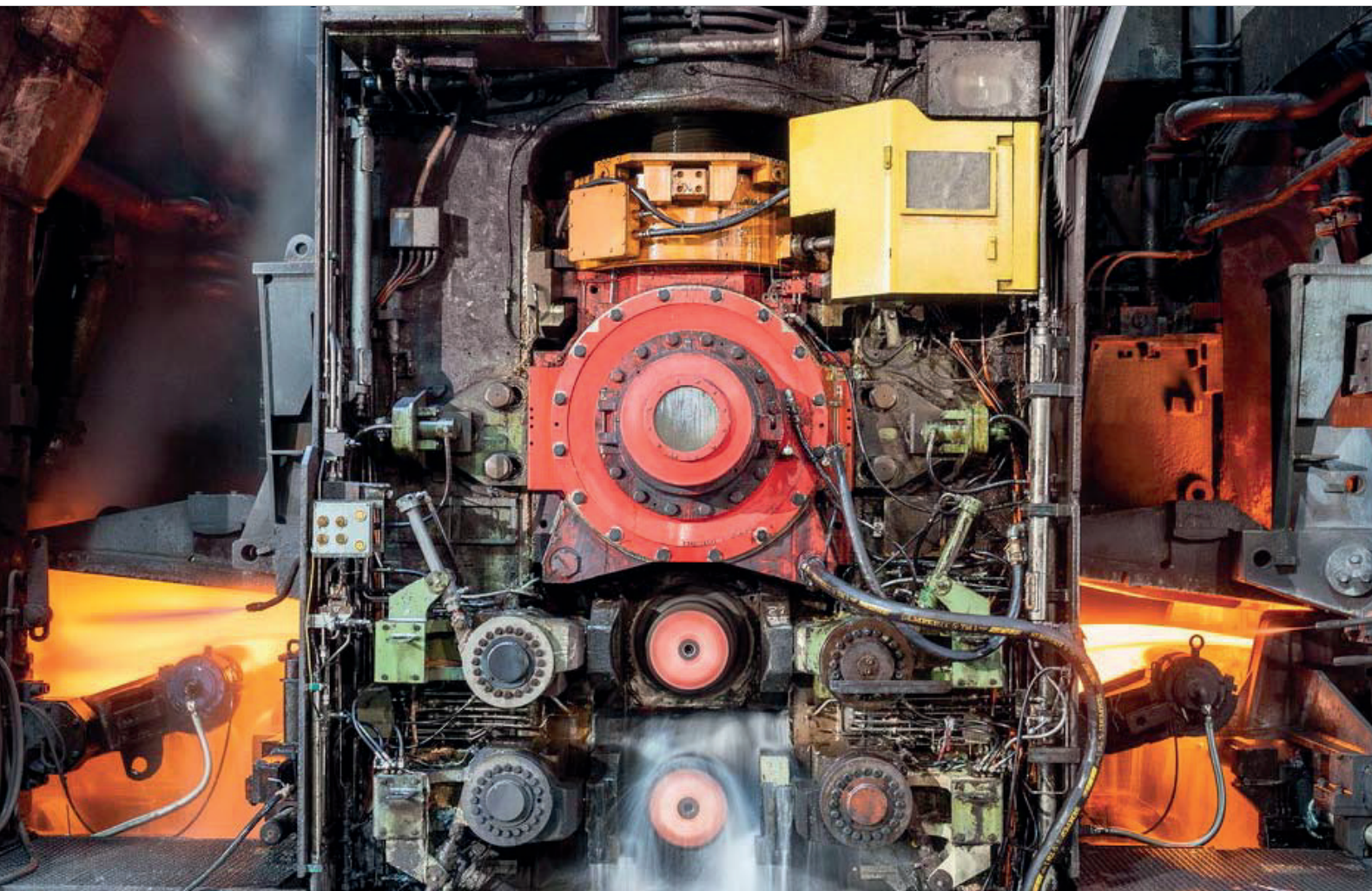


Sealing Solutions for Metal Processing Industries



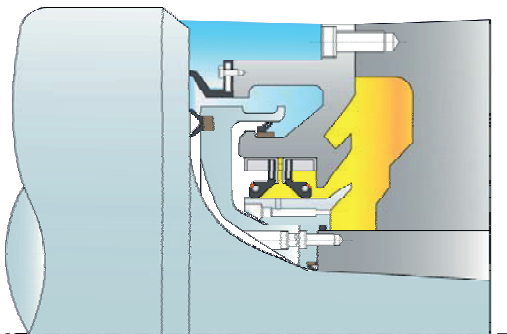
Hot & Cold Rolling Mill

Rotary Seals & V-rings (Water Guard Seals) arrangements in Bearing Chocks. In this range we offer wide range of fabric & metallic rotary seals in combinations of V-Ring as a coolant or water guard seals.

These combinations are widely use in Hot & Cold rolling mill in steel plants.



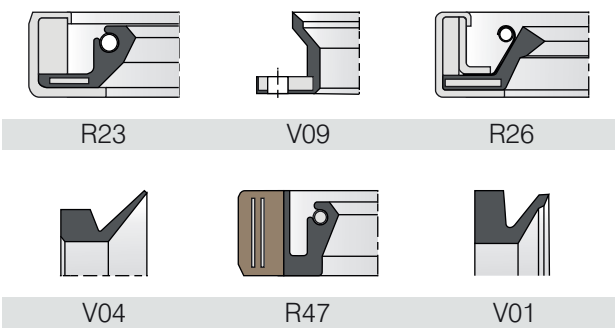
Rotary Seals for Backup Rolls Chocks



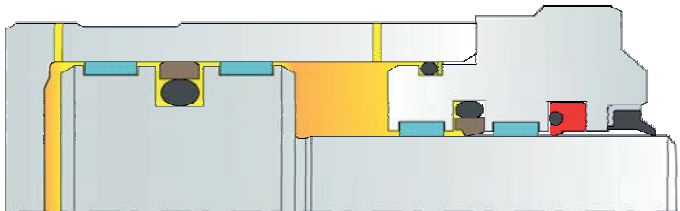
Working Parameters			
	NBR	HNBR	FKM
Temperature	-30°C to +100°C	-30°C to +140°C	-40°C to +220°C
Speed	20 m/s	25 m/s	30 m/s
Size Range	5" to 60"		

Some typical profiles :

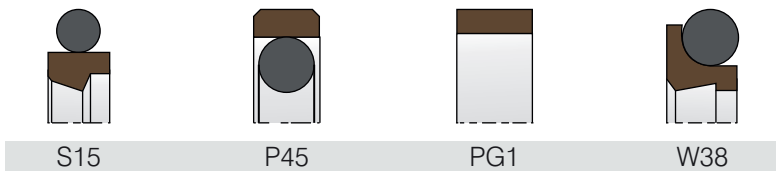
Some of the typical rotary seal profiles use in rolling mill applications. Our improved V-Ring design geometry gives maximum and effective water or coolant sealing efficiency compare to standard designs.



Seals for Balancing & Bending Cylinder (Typical Seal Combination)

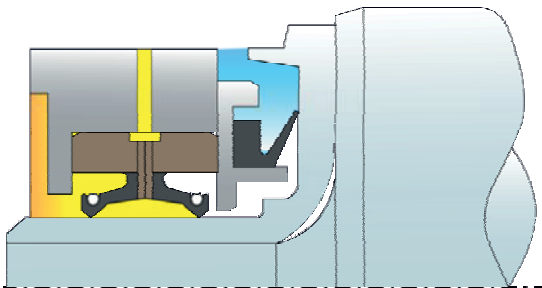


Working Parameters	
Pressure	Upto 300 Bar
Temperature	-30° C to +100° C (Viton matl. upto +220° C)
Speed	1 mtr/sec
Size Range	Upto 7"

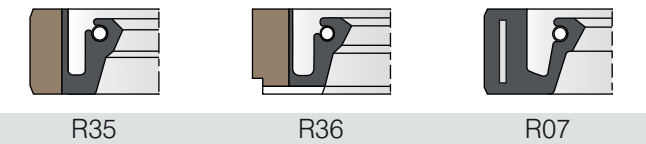


- Many special designed seal combinations are available.
- Customised development for improving work life without extra cost.

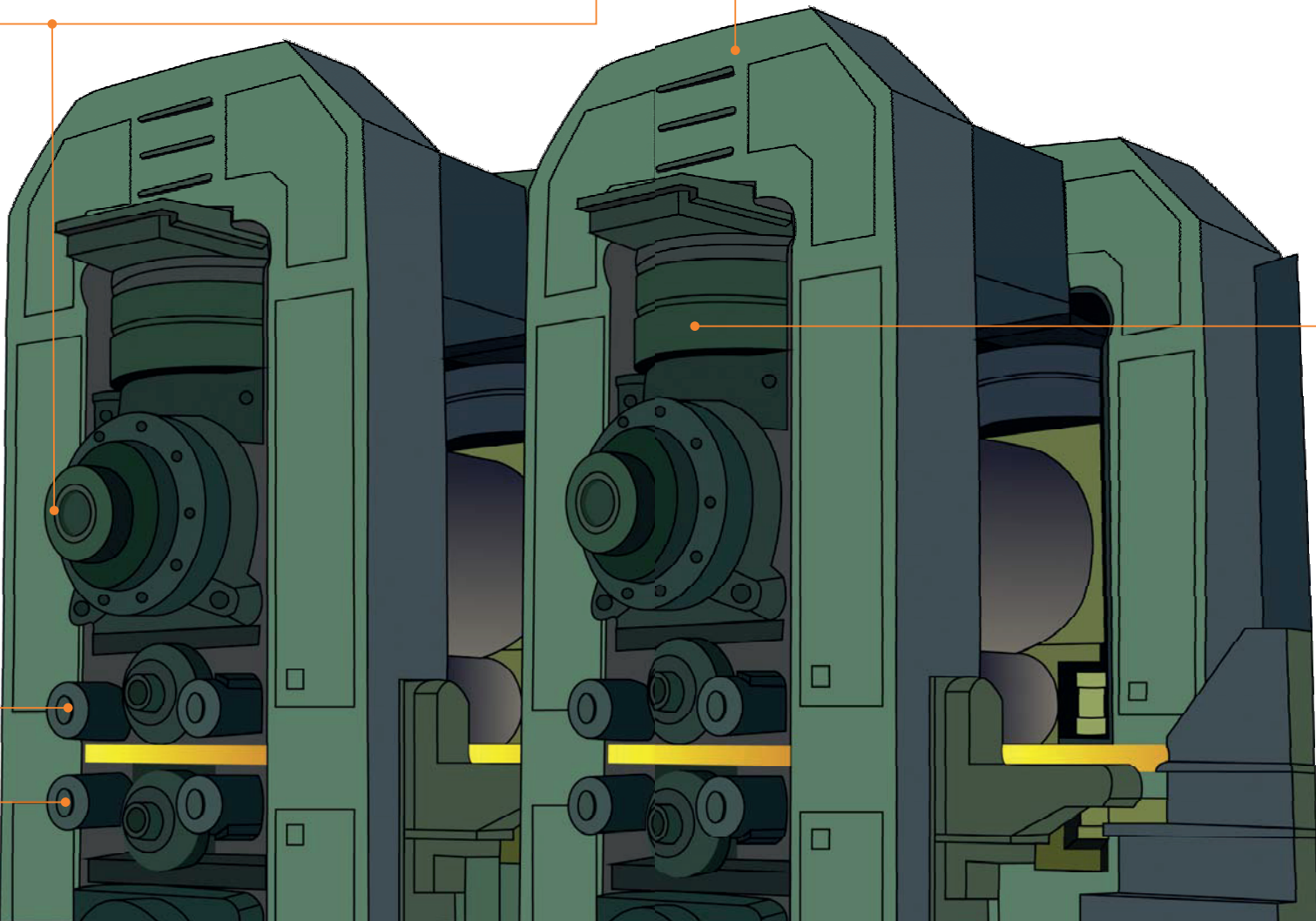
Rotary Seals for Work Roll Chocks (Typical Arrangemet)



Working Parameters			
	NBR	HNBR	FKM
Temperature	-30°C to +100°C	-30° C to +140° C	-40°C to +220°C
Speed	10 m/s	15 m/s	20 m/s
Size Range	1" to 40"		



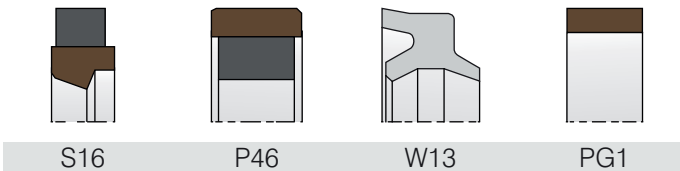
Standard Water Guard V-Ring recommended.



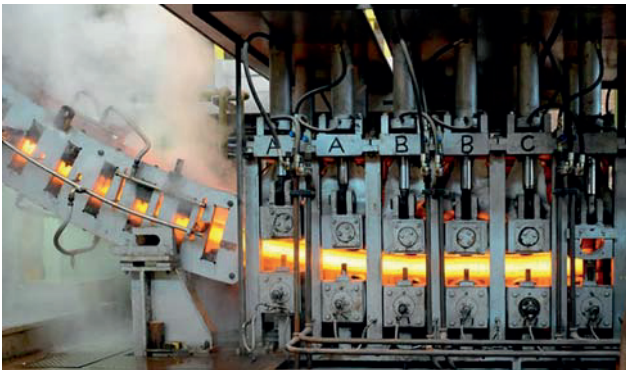
Hydraulic Seals for Automatic Gauge Control Cylinder



Working Parameters	
Pressure	Upto 500 Bar
Temperature	-30° C to +100° C (Viton matl. upto +220° C)
Speed	1 mtr/sec
Size Range	20" to 60"



Other application overview in Metal Processing Line

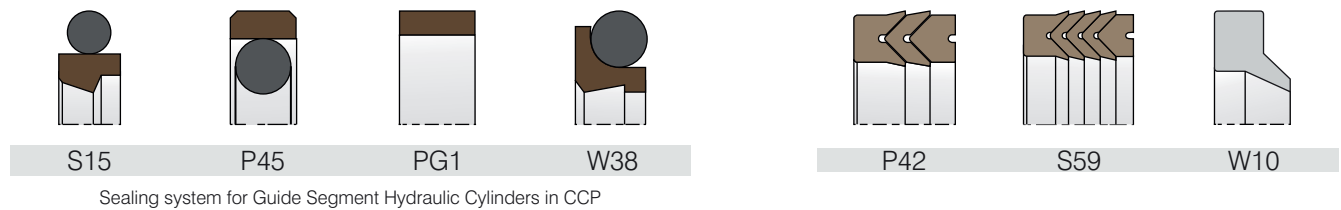


Continuous Casting

Continuous Casting Plant is operating 7 days a week. Thus required reliability of seals. Shutdown of this process leads to high production losses.

Seal Pool offers high end Rubber & Thermoplastic Material in combination of seal profile which given optimum life of the seals in working condition.

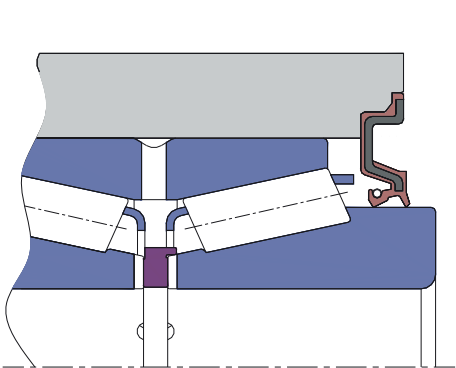
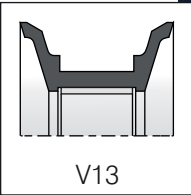
Working Conditions	
Pressure	400 Bar
Temperature	-40° C to + 250° C
Speed	10 mtr/sec



Front Vavle Seals

This seals are developed in WRM for module. Specially design sealing element with steel band offers high wear resistance and excellent performance.

- Material:Special HNBR compound
- Speed : from 2 mtr / sec upto 30 mtr / sec
- Size Range - 4" , 6" and 8"

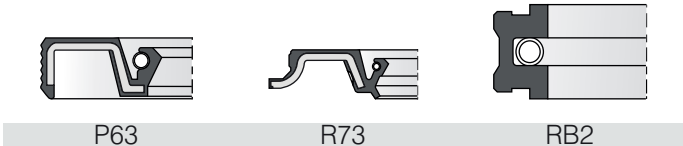


* Assembly shown is just for an example purpose, it may vary to the actual bearing assembly.

Taper Roller Bearing Seals -

Seal Pool had developed inner & outer seals for Taper Roller Bearings used in work roll and intermediate roll chocks. AZI & AZZ seals are constructed with a metal insert with rubber covered outer diameter. Spring loaded single and dual lip made out of FKM or HNBR elastomer.

Working Conditions	
Pressure	400 Bar
Temperature	-40° C to + 250° C
Speed	10 mtr/sec



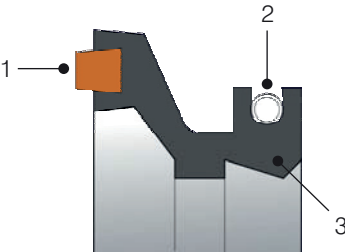
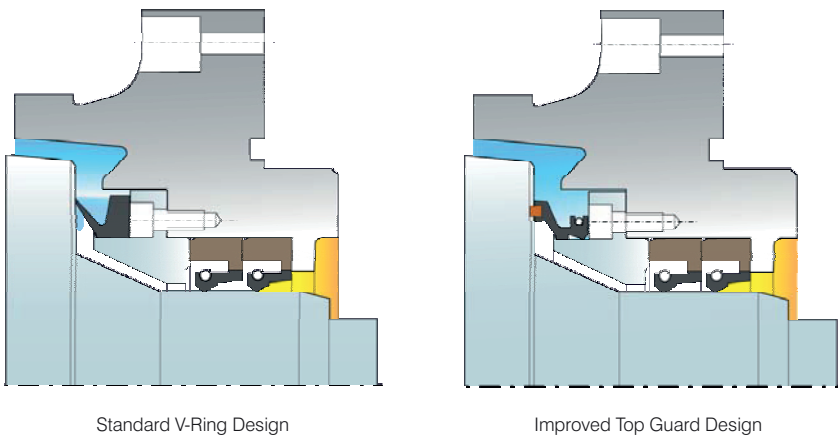
Success Stories

Improving performance & sealing with different customised creations.



Development of Topguard :

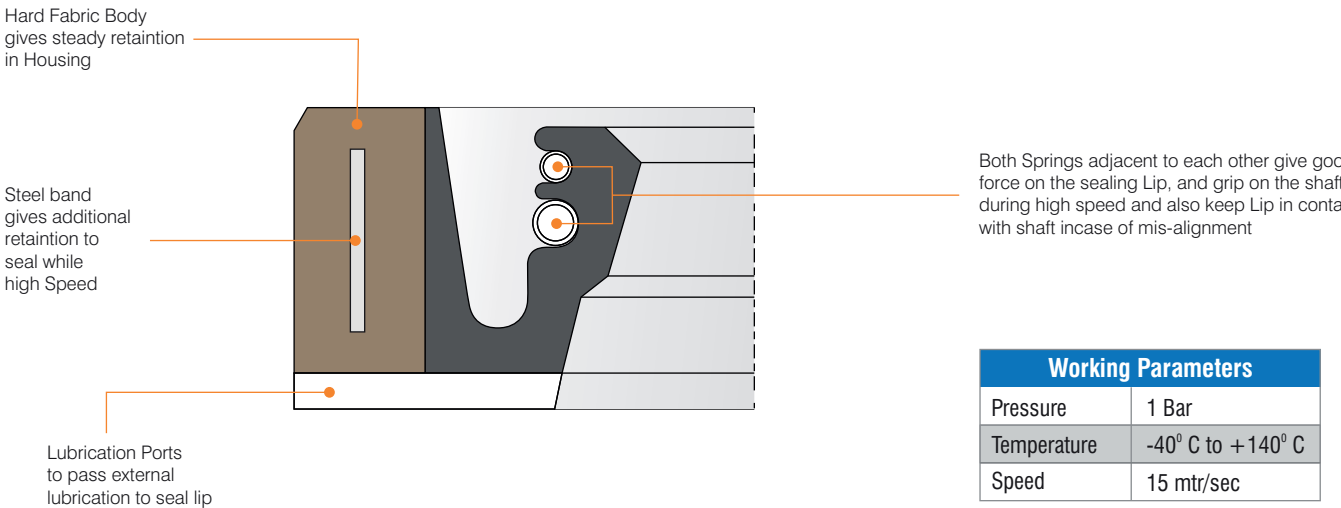
Seal Pool is offering customised sealing solution in steel mill according to the requirement and encountering the problems by giving best sealing solution without doing major modification in existing assembly. Below shown design is one of an example of such development.



1. Bronze filled PTFE insert Lip for good wear resistance.
2. Spring to hold the Lip tight on flange
3. Sealing lip profile to seal coolant from opposite side

Force - 2K10 type Rotary Seal for Backup Roll Chock. (Hot Rolling & Cold Rolling Mill)

Designed for high excentring (± 5 mm)



Working Parameters	
Pressure	1 Bar
Temperature	-40° C to + 140° C
Speed	15 mtr/sec



Give us a challenge & we will make it to a success story

Sealing Solutions for Aluminum Processing Line



Aluminum processing areas :

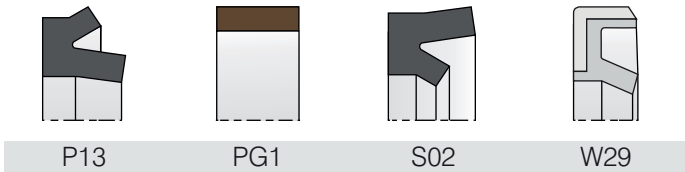
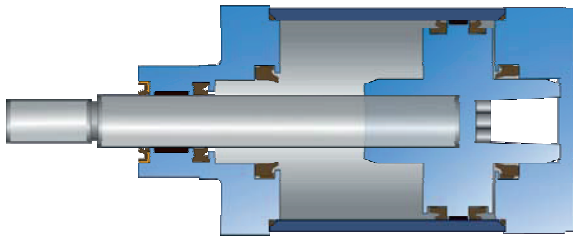
- Pot Shop
- Auto Shop
- Billet Casting
- Smelter
- Rolling Mill
- Cast House



POT Shop :

Crust Breaker Cylinder / Feeder Cylinder Seal Kit :

Crust Breaker Cylinder are use in harsh environment in an aluminum reduction in +150°C and intermittent temperature upto +200°C. We supply seals in FKM material having excellent wear resistant property inn high temperature. Also improved bearing rings on piston and rod for side load performance. All bearing materials are electrically non-conductive.



PTM Crane

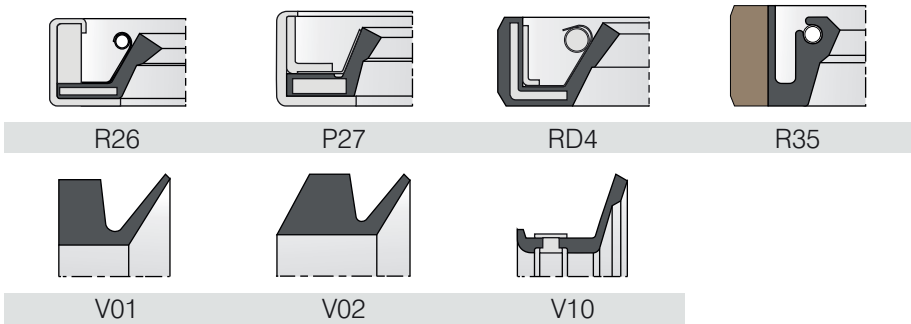
Other seal applications :

- Bath Grab Hydraulic Cylinder Seal Kit
- Hopper Gate Cylinder
- Anode Column Hydraulic & Rotary Seals
- Breaker lowering Hydraulic Cylinder
- Transfer & Intermediate hopper cylinder
- Rodding bench bracket pneumatic cylinder

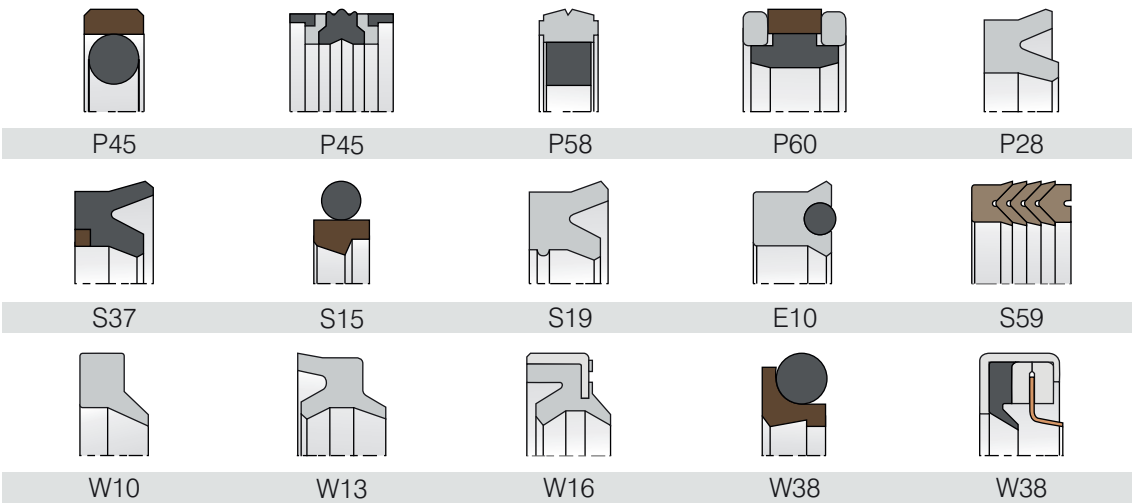
Rotary Seals for Aluminum Rolling Mills :

Many special Rotary Seals are also possible after analysis. We will offer you our best options.

Some common profiles



Hydraulic Cylinder Seals :





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