



Sealing Solutions for Cement Industry

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- o Stacker & Reclaimer
- o Bucket Elevators
- Vertical Roller Mills
- o Rotary Kiln
- o Ball Mill
- Roller Presses

Customized Seals for different application

Compliant Materials

Standard Product Range for Cement Industry

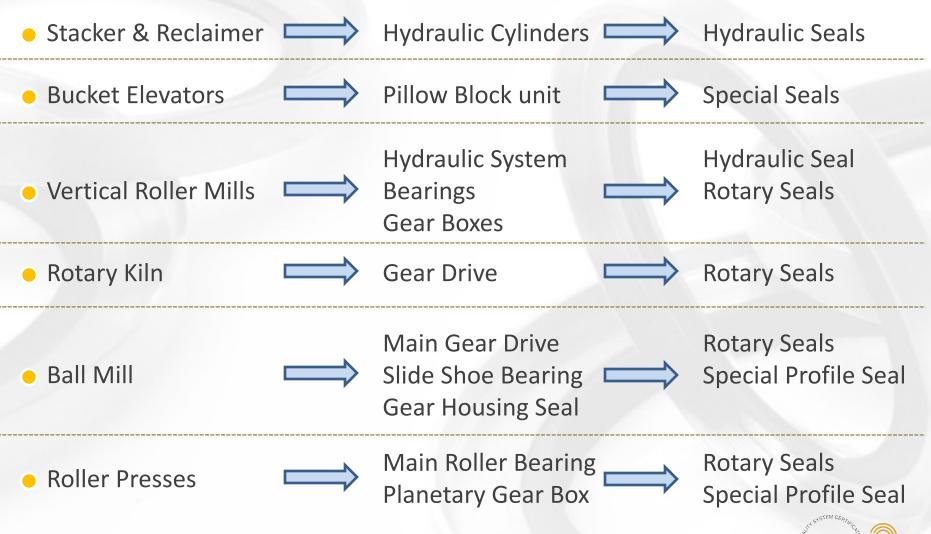












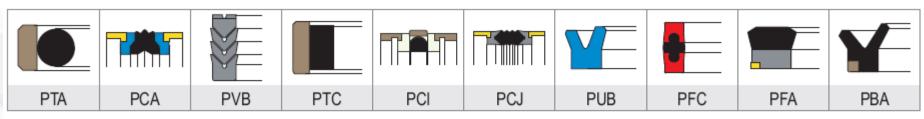




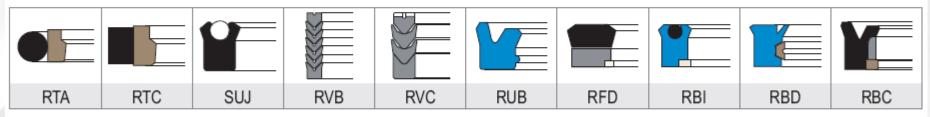
Spareage Product Line in Cement Industry

Hydraulic Seals :

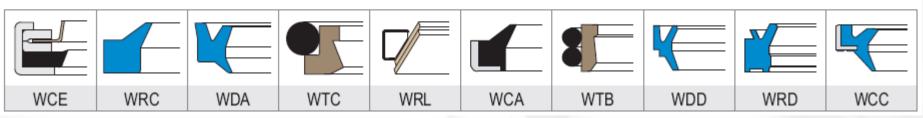
Piston Seal



Rod Seals



Wiper Seals

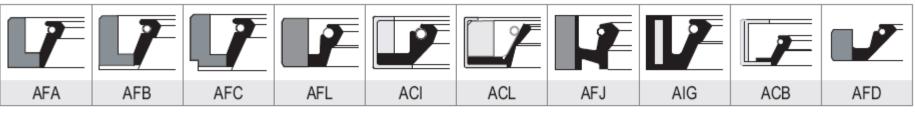


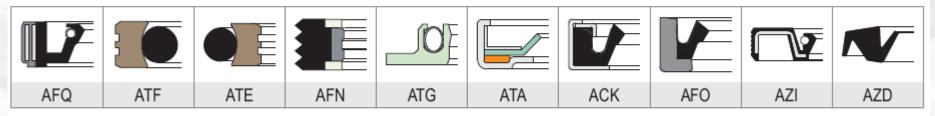




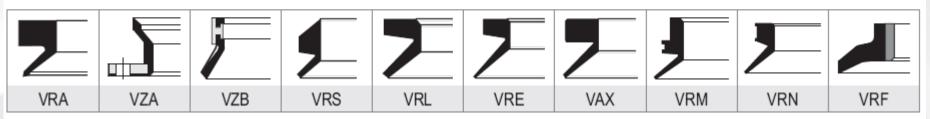


Rotary Seals :





V-Rings



Pneumatic Seals :

				K					4	
PPB PUE PUG PUI PDC RUF RUK RUH WIE WDB	PPB	PUE	PUE PUG	PUI	PDC	RUF	RUK	RUH	WIE	WDB





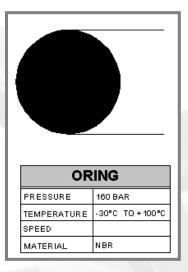
STACKER & RECLAIMER SEALS

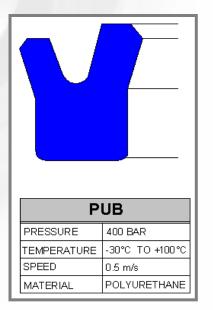
Spareage has developed seals in Stacker & Reclaimer applications in cement industries.

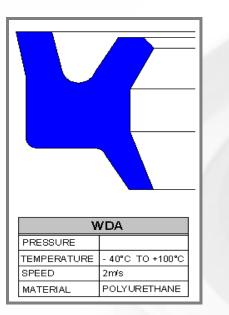
Material is deposited by the stacker moving to and fro over the centre line of the pile. The reclaimer is usually equipped with constant speed motors

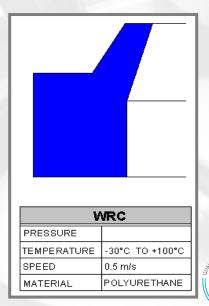
The reclaimed material is carried by belt conveyors driven by constant speed motors and discharged into a feed bin of a relatively large volume. And the following seals are used in these applications.











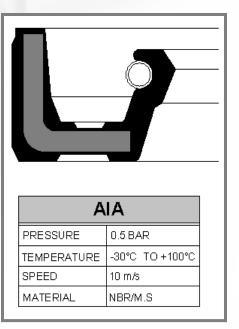


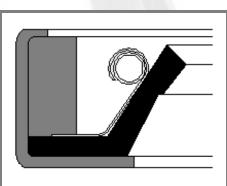


BUCKET ELEVATOR SEALS



- Spareage has developed seals for Bucket Elevators in cement industries.
- Bucket elevators used for vertical transport of bulk materials .
- Used to lift cement raw meal into plant pyro-processing systems and finish grinding mills,
- Following seals are used to transport the bulk material in Bucket Elevators





A	CL
PRESSURE	0.5BAR
TEMPERATURE	-30°C TO+100°C
SPEED	20m /s
MATERIAL	NBR/M.S





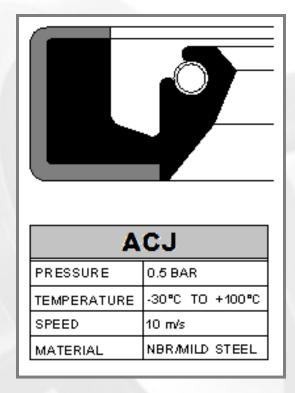
VERTICAL ROLLER MILLS



Spareage has developed seals for Vertical roller mills (VRM)in cement industries. Vertical roller mills used for grinding raw materials in the cement manufacturing process.

VRMs have the tendency to produce with a steep PSD curve resulting in cement.

This application includes rotary motion so following seal is used .



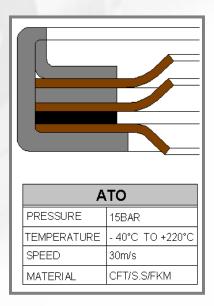


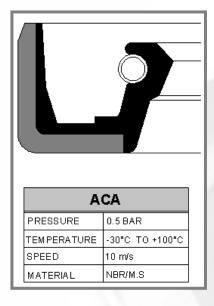


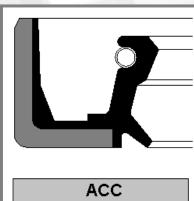
ROTARY KILN SEALS



- Spareage has developed seals for Rotary Kiln in cement industries.
- Rotary Kiln are long cylinder which rotates slowly.
- Rotary Kiln are used to move the raw material from upper end to lower end.
- Following seals are used in this application.







ACC					
PRESSURE	0.5 BAR				
TEMPERATURE	-30°C TO +100°C				
SPEED	10 m/s				
MATERIAL	NBR/M.S				





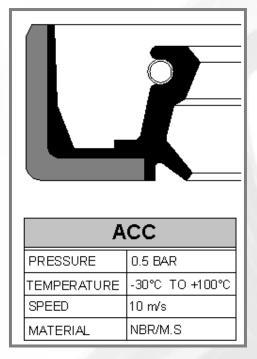
BALL MILL

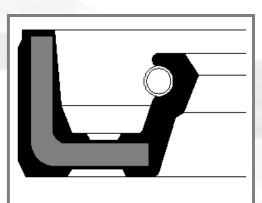


Spareage has developed seals for Ball Mill in cement industries.

Ball mill is used for recrushing the materials after they are primarily crushed. Ball mill is widely used for the dry type or wet type grinding of all kinds of ores and other grind able materials in cement.

Following are the seals used in this application





AIA				
PRESSURE	0.5 BAR			
TEMPERATURE	-30°C TO+100°C			
SPEED	10 m/s			
MATERIAL	NBR/M.S			





ROLLER PRESSES

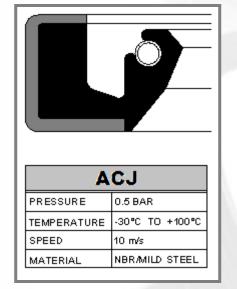


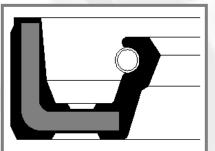
Spareage has developed seals for Roller Presses in cement industries.

The roller presses are used to grind the cement .

Two sets of motor rotate two mill rollers via gear reducers and material extracted in between two rollers due to action of gravity.

This application includes rotary motion so following seal is used .





AIA			
PRESSURE	0.5 BAR		
TEMPERATURE	-30°C TO+100°C		
SPEED	10 m/s		
MATERIAL	NBR/M.S		

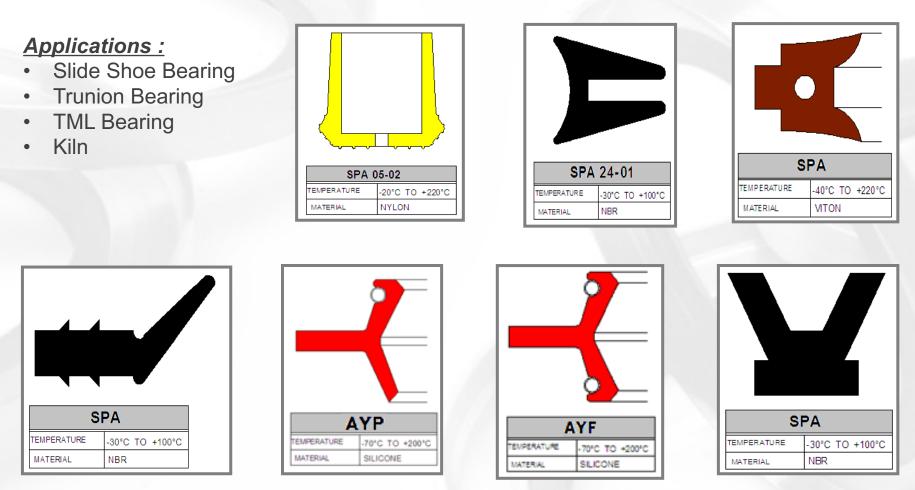




CUSTOMIZED SEALS



Spareage has developed customized seals for cement industry in different applications.









Thank you for this opportunity.



