

"FK5" application single and double laminar sealing rings

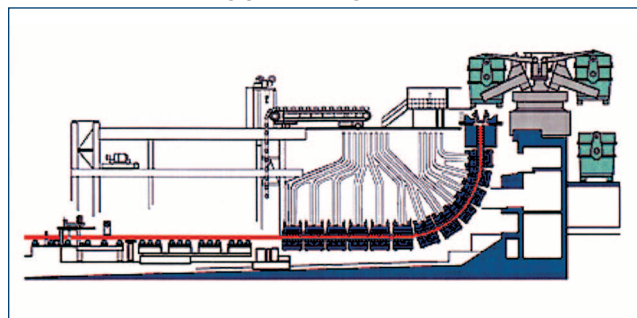
Single and double wound laminar sealing rings are used for sealing the roller and plain bearings on the segments rolls for continuous casting plants, industrial steam turbines, mobile and stationary power units. Basically everywhere the sealing system must meet severe requirements due to extreme operating conditions.

This includes corrosion or media resistance of the ring material, high operating temperatures and high contamination levels.

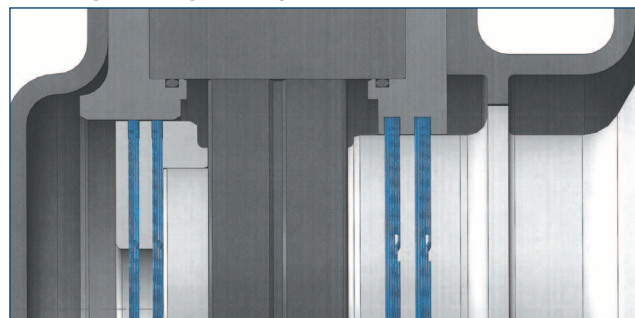
Ring materials

Steel type	Spring resistant up to	Hardness	Surface protection	Surface color
CrNi - DIN 1.4571	max. +500°C	on request ¹⁾	bright and dry	variable ²⁾
¹⁾ Variable depending on the thermal treatment type! Hardness values depending on ring cross section measured in Rockwell HRA or HRC. ²⁾ The surface color can vary depending on the thermal treatment type: bright, light brown or blackened.				

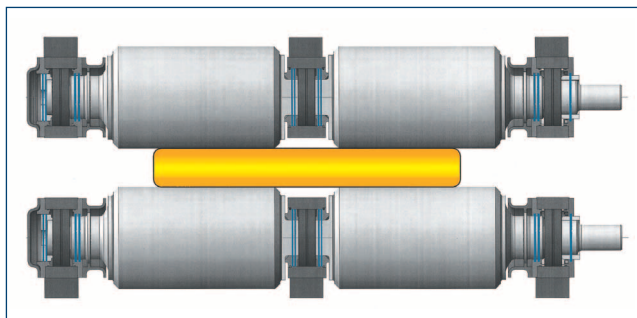
Continuous casting plant-diagram



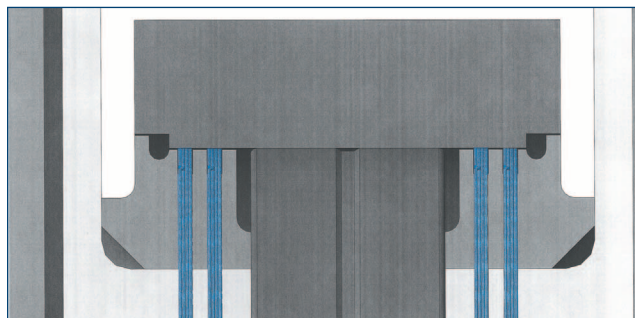
Floating bearing (example)



Drive roller (example)



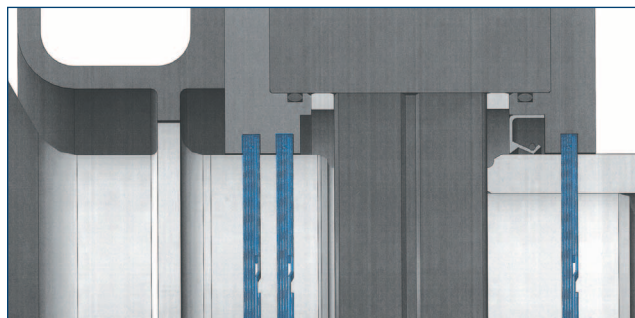
Support bearing (example)



Roller bed roller (example)



Fixed bearing (example)



Installation information:

See pages 38 and 39.

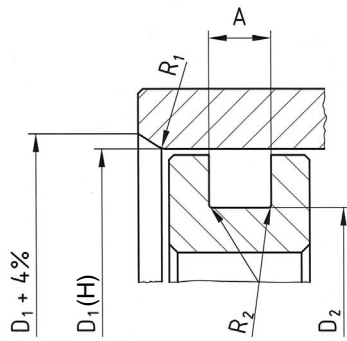
Order information:

The ring diameter information must match the housing or shaft diameter dimensions "D₁" for all inquiries and/or orders. The rings can be ordered individually or in sets.

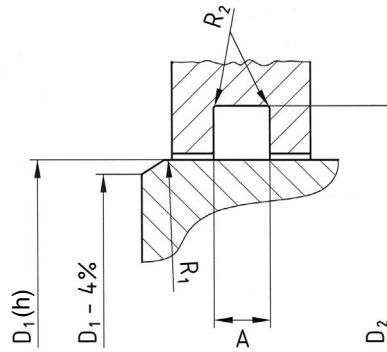
Run and installation tests:

Run and installation tests under operating conditions must be performed in each case before standard production of our laminar rings can begin to determine whether the desired sealing effects can be achieved.

For bore sealing



For shaft sealing



Nominal dimension		Ring dimensions				Groove dimensions					
Bore/shaft D ₁	Tolerance	RB	Tolerance	RD	Tolerance	D ₂ = D ₁ minus/plus	Tolerance	A	Tolerance	R ₁	R ₂
15 - 24.9	H/h 6 H/h 7	1.0	+ 0.1 - 0.1	1.3	+ 0.08 - 0.04						
25 - 29.9		1.2		1.3							
30 - 35.9		1.5		1.3							
36 - 42.9		1.8		1.3							
43 - 48.9		2.2		1.45							
49 - 51.9		2.4		1.45							
52 - 59.9		2.6		1.45							
60 - 69.9		2.8		1.65							
70 - 74.9		3.1		1.65							
75 - 79.9		3.3		1.65							
80 - 89.9	3.5	1.65									
90 - 99.9	3.8	1.65									
100 - 104.9	H/h 7 H/h 8	4.1	+ 0.1 - 0.2	1.65	+ 0.1 - 0.06						
105 - 109.9		4.3		1.96							
110 - 119.9		4.6		1.96							
120 - 129.9	H/h 8 H/h 9	5.0	+ 0.15 - 0.3	1.96	+ 0.12 - 0.08						
130 - 149.9		5.5		1.96							
150 - 170.9		6.0		2.0							
150 - 170.9	H/h 8 H/h 9	*6.0	+ 0.15 - 0.3	3.0	+ 0.12 - 0.08						
171 - 199.9		7.0		2.0							
171 - 199.9		*7.0		3.0							
200 - 259.9	H/h 8 H/h 9	8.0	+ 0.15 - 0.3	2.4	+ 0.12 - 0.08						
200 - 259.9		*8.0		3.0							
260 - 319.9		9.0		3.0							
320 - 399.9	H/h 8 H/h 9	10.0	+ 0.15 - 0.3	3.0	+ 0.12 - 0.08						
400 - 439.9		11.0		3.0							
440 - 600.9		12.0		3.0							
440 - 600.9	H/h 9 H/h 10	*12.0	+ 0.2 - 0.4	5.0	+ 0.14 - 0.1						
601 - 699.9		14.0		5.0							
700 - 799.9		16.0		5.0							
800 - 900.0	H/h 10	18.0	+ 0.2 - 0.4	5.0	+ 0.14 - 0.1						

Groove dimensions on request
Please contact our technical office!

All dimensions in mm
 *= reinforced ring design
 Note: Please refer to the information on pages 2, 38, 39, 40 and 41 (questionnaire).
 Please list exact bore or shaft diameter "D₁" for all inquiries and orders!