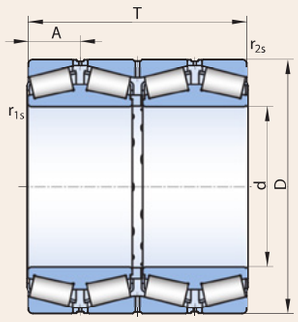
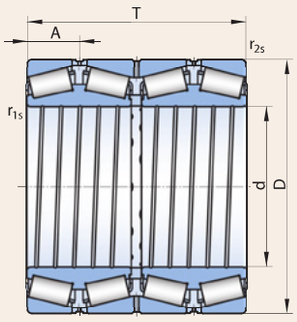
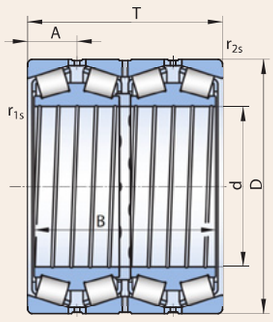
TAPERED ROLLER BEARINGS
four row



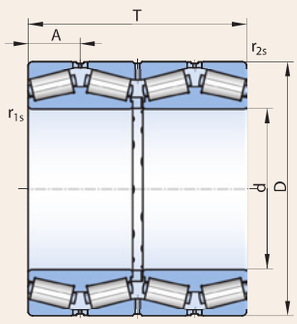
Pict. 1



Pict. 2



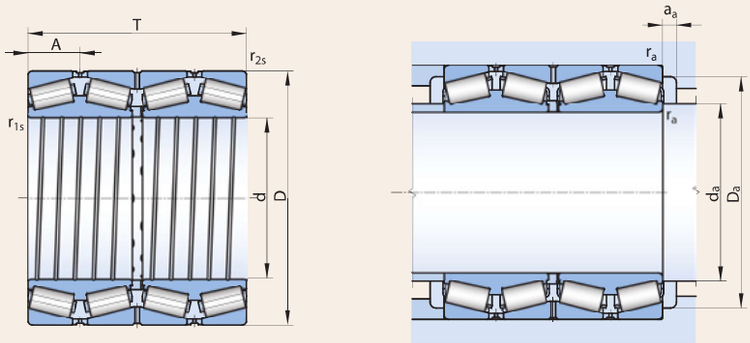
Pict. 3



Pict. 4

Dimensions						Basic Load Ratings		Limited Speed for Lubrication		Bearing Designation	Weight	Factors			
d	D	T	r_{1s} min	r_{2s} min	A	C_r dyn.	C_{0r} stat.	with grease	with oil			e	Y_1	Y_2	Y_0
[mm]						[kN]		[min^{-1}]			[kg]				
187.325	269.875	211.138	1.5	3.3	50.03	1492	3856	760	1090	**PSL610-310**	40.3	0.33	2.03	3.02	1.98
200	310	200	2.5	2.5	47.5	1415	3112	500	670	**PSL611-201**	53	0.44	1.5	2.3	1.5
220	340	305	3	4	73.25	2600	5600	420	560	**PSL611-15-1**	100	0.34	1.95	2.9	1.9
220	340	305	3	3	73.25	2794	6081	420	560	**PSL611-303**	103	0.34	1.95	2.9	1.9
220	340	305	3	3	73.25	3326	6842	420	560	**PSL611-307**	103	0.34	1.95	2.9	1.9
240	360	218	3	3	51.75	1704	3923	400	530	**PSL611-202**	76.3	0.48	1.4	2.1	1.4
260	400	217	5	6	52.75	1913	4163	480	690	**PSL612-358**	100.3	0.39	1.72	2.56	1.68
280	420	250	4	4	59.75	2267	5294	320	420	**PSL612-206-1**	117	0.47	1.4	2.1	1.4
280	420	345	5	5	82.5	4800	9700	380	500	**PSL612-209**	171	0.33	2.03	3.02	1.98
300	424	310	4	5	74	4000	9200	380	500	**PSL612-211**	141	0.36	1.87	2.79	1.83
300	460	290	4	4	69.25	2908	6755	290	380	**36060**	169	0.44	1.5	2.3	1.5
300	500	350	6	6	84	4940	10039	380	550	**PSL612-327**	288	0.4	1.69	2.52	1.65
304.902	412.648	266.7	3	3	64.29	2253	6202	300	400	**PSL612-32**	98.1	0.39	1.7	2.6	1.7
304.902	412.648	266.7	3	3	63.18	2730	7961	550	790	**PSL612-303**	102.2	0.39	1.74	2.59	1.7
360	480	218	3	3	51.75	2170	5992	240	320	**36972**	113	0.43	1.6	2.3	1.5
360	540	340	5	5	80.5	4324	10502	250	330	**PSL612-15**	274	0.29	2.3	3.5	2.3
395	545	288.7	5	7.5	71.45	3811	8871	310	440	**PSL612-317**	189	0.47	1.43	2.12	1.4
406.4	546.1	288.925 /268.288/	1.5	6.4	70.64	3175	8868	300	400	**PSL612-202**	186	0.48	1.4	2.1	1.4
406.4	546.1	288.925	1.5	6.4	69	4000	9730	310	440	**PSL612-362**	188.2	0.48	1.42	2.11	1.39
420	620	355	5	5	84.75	4666	11873	270	390	**36084W33**	358.1	0.46	1.46	2.18	1.43
420	620	355	5	5	84.75	4666	11873	270	390	**36084**	359.2	0.46	1.46	2.18	1.43
431.8	571.5	336.5	2.5	5	80.96	3942	13175	190	250	**PSL612-29-3**	241	0.44	1.5	2.3	1.5
460	610	360	1.5	6	85.5	5960	15103	260	380	**PSL612-304**	281.9	0.33	2.03	3.02	1.98
489.026	634.873	320.675	4	4	76.17	5100	15197	240	350	**PSL612-302**	265.5	0.35	1.95	2.9	1.91
500	720	400	6	6	95	5387	14325	140	190	**360/500**	504	0.47	1.4	2.1	1.4
500	720	420	6	6	101.5	6984	18550	220	310	**PSL612-348**	569.5	0.48	1.41	2.09	1.37
500	720	420	6	6	101.5	6984	18550	220	310	**PSL612-348-1**	569.5	0.48	1.41	2.09	1.37
514.35	673.1	422.275	3.3	6.4	100	6445	20825	230	330	**PSL612-313**	395	0.31	2.2	3.27	2.15
530	782	450	6	6	106.5	6663	17558	160	200	**PSL612-22**	703	0.45	1.5	2.2	1.5
620	800	365	2.5	5	85.75	5463	16608	110	150	**PSL612-21-1**	441.6	0.33	2	3	2
630	920	515	7.5	7.5	125	8730	24230	94	126	**360/630**	1090	0.44	1.5	2.3	1.5
650	1030	560	7.5	10	136.5	15823	33590	140	190	**PSL612-318**	1834	0.31	2.21	3.29	2.16
660	1070	650	10	10	161	19910	41090	130	180	**PSL612-339**	2356	0.31	2.19	3.25	2.14

1) Bearing with seals
2) Bearing without spacer ring



Pict. 5

Abutment and Fillet Dimensions				Pict.
d_a min	D_a min	a_a min	r_a max	
205	244	11.9	1.5	1
220	280	6	2	1
238	298	8	2.5	2
238	298	8	2.5	2
238	298	8	2.5	5
262	330	8	2.5	1
297	363	1.4	4	1 [1)]
305	380	8	3	1
304	370	8	4	2
318	380	8	3	1
330	415	8	3	1
349	435	17.8	5	4
320	370	8	2.5	1
325	377	10.3	2.5	1
382	450	8	2.5	1
392	490	8	4	1
431	498		4	3
425	490	10	1.5	3
435	501	12	1.5	1 [2)]
465	555	17.4	4	1
465	555	17.4	4	1
460	515	10	2	2
489	564	13	1.5	2
518	590	16.7	3	2
540	660	10	5	1
540	648	16	5	4
540	648	16	5	4
543	623	18.8	2.5	2
575	710	14	5	1
650	745	14	2	2
680	840	16	6	1
739	922	16	6	4
754	953	25.6	8	4

Four-row tapered roller bearings are suitable for accommodating great radial forces and are used for rolling mill roll arrangements.

Suffixes

X – Difference in boundary dimensions from the international standards
W 1 – Cylindrical bore with conical end on both sides
W 28 – Spiral lubricating groove on the bore surface of the inner ring
W 128 – Combination of W1 and W28

Radial equivalent load:

- dynamic: $P_r = F_r + Y_1 F_a$ if $F_a/F_r \leq e$ [kN]
  $P_r = 0{,}67F_r + Y_2 F_a$ if $F_a/F_r > e$ [kN]
- static: $P_{0r} = F_r + Y_0 F_a$ [kN]

Cages

The tapered roller bearings have pressed steel cages.
Selected bearings are produced with pin type cages.