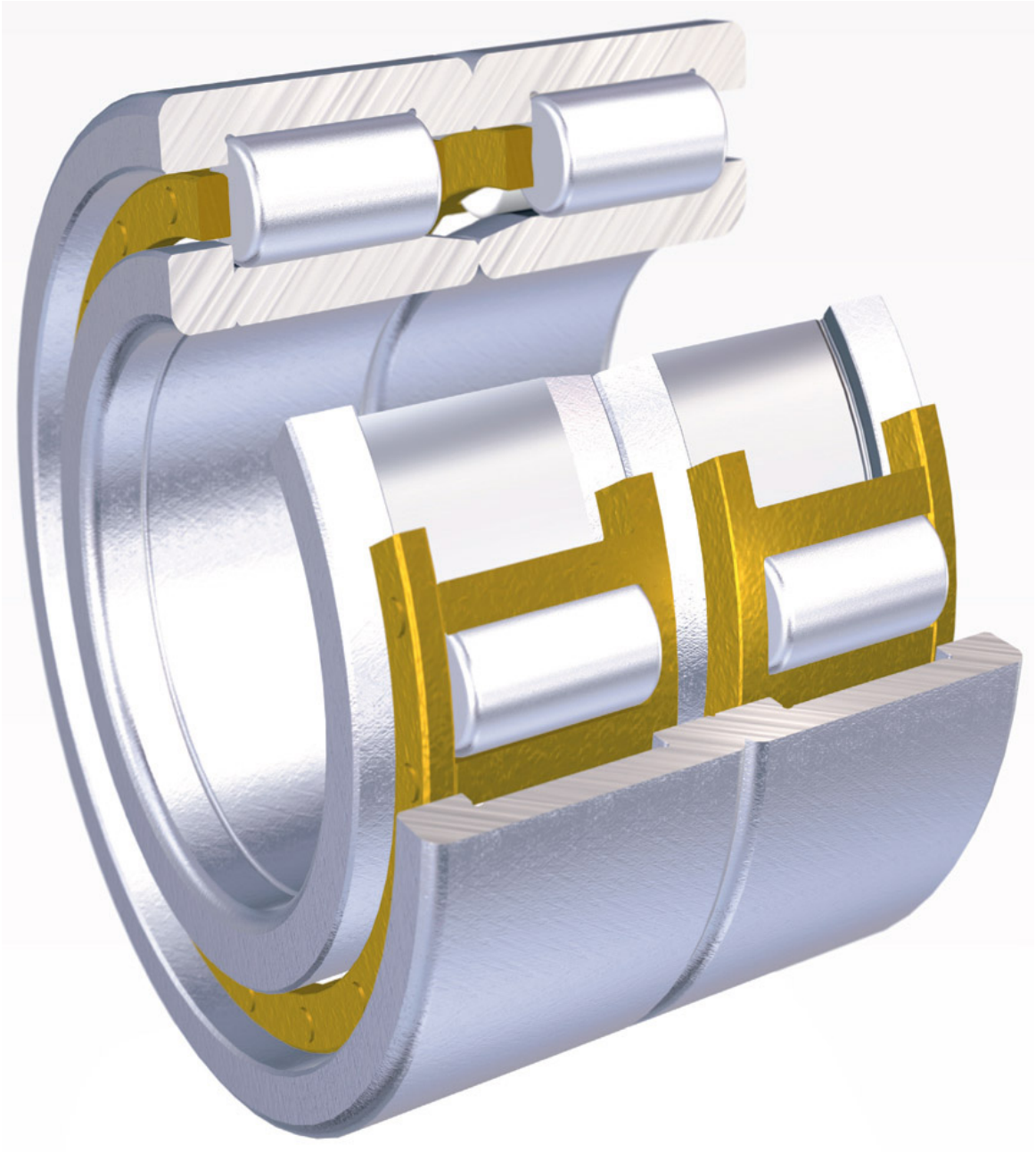
Special Cylindrical Roller Bearings for Railway Vehicles



KINEX bearings are used in railway vehicles for axleboxes, in traction motors and generators, in drives of blowers, in exciters and axle–driven generators, in compressors' motors and in gear–boxes.

For railway vehicle axleboxes the bearings with machined brass or plastic cages are manufactured. For higher speeds the internal design is specifically adapted.

The roller bearings with machined brass cages, in various design versions, are used mostly for traction motors and drives arrangements.
The axle box bearing production is assured in complience with the European standard EN 12080. The axle bearings correspond to the requirements of the European standard EN 12082, UIC 515-5.
Detailed information on bearings for railway vehicles (calculations,mounting, dismounting, maintenance...) are given in a special publication “Bearings for Railway Vehicles”.

Download the current general catalogue EN

Dimensions				Basic load rating		Maximum speed of rail vehicle	Mass of a pair of bearings	Bearing designation		Radial clearance µm		Tolerance class
				dynamic	static							
d	D	B	b_1	C_r	C_{or}					min	max	
mm				kN		km/h	kg					
100	180	60	-	333.5	444.4	160	12	PLC 49-200-2	PLC 49-201-2	105	140	P6
110	215	73	-	494.5	668.6	160	24.9	PLC 410-207-1	PLC 410-208-1	105	160	P6
118	215	80	-	519.8	740.9	160	25.7	PLC 410-213-3	PLC 410-214-3	125	165	P0
118	240	80		553.8	742.5	160	32.3	PLC 410-13-2-3	PLC 410-14-2-3	120	160	P6
118	240	80	-	553.8	742.5	160	34.2	PLC 410-23	PLC 410-24	120	160	P0
119	240	80	-	553.8	742.5	160	32.1	PLC 410-13-2-4	PLC 410-14-2-4	120	160	P6
119	240	80	-	553.8	742.5	160	42216	PLC 410-13-2-5	PLC 410-14-2-5	120	160	P6
120	200	62	-	372.8	549.1	120	16	PLC 49-202	PLC 49-203	125	165	P0
120	215	80	-	519.8	740.9	160	42060	PLC 410-213	PLC 410-214	125	165	P0
120	240	80	-	553.8	742.5	160	33.7	PLC 410-13	PLC-410-14	120	160	P0
120	240	80	-	553.8	742.5	160	33.7	PLC 410-13-1	PLC 410-14-1	120	160	P6
120	240	80	-	553.8	742.5	160	42216	PLC 410-13-2	PLC 410-14-2	120	160	P6
127	240	80	-	516.3	752.1	160	30.05	PLC 410-15-2-5	PLC 410-16-2-5	135	180	P6
128	240	80	-	516.3	752.1	160	30.28	PLC 410-15-2-3	PLC 410-16-2-3	135	180	P6
129	240	80	-	516.3	752.1	160	30.42	PLC 410-15-2-4	PLC 410-16-2-4	135	180	P6
129	240	80	-	539.6	775.4	160	30.2	PLC 410-33-2-4	PLC 410-34-2-1	135	180	P6

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				dynamic	static							
d	D	B	b_1	C_r	C_{or}					min	max	
mm				kN		km/h	kg					
129	240	80	-	539.6	775.4	160	42246	PLC 410-33-2-9	PLC 410-34-2-9	135	180	P6
130	220	73	-	505.0	761.7	160	-	PLC 410-223-2	PLC 410-224-2	135	180	P6
130	240	80	-	516.3	752.1	160	32.7	PLC 410-15	PLC 410-16	135	180	P0
130	240	80	-	516.3	752.1	160	30.65	PLC 410-15-2	PLC 410-16-2	135	180	P6
130	240	80	-	539.6	775.4	160	32.7	PLC 410-33-1	PLC 410-34-1	135	180	P6
130	240	80	-	539.6	775.4	160	30.2	PLC 410-33-2	PLC 410-34-2	135	180	P6
130	240	80	-	539.6	775.4	200	30.6	PLC 410-215	PLC 410-216	130	180	P6
130	250	80	-	580.0	800.3	160	36.6	PLC 410-17	PLC 410-18	135	180	P0
130	250	80	-	580.0	800.3	160	34.2	PLC 410-17-2	PLC 410-18-2	135	180	P0
158	300	84	15	869.5	1214.3	160	58.3	PLC 411-200	PLC 411-201	130	195	P0
159	300	84	15	869.5	1214.3	160	57.9	PLC 411-20	PLC 411-21	130	195	P0
160	300	84	15	869.5	1214.3	160	57.5	PLC 411-10	PLC 411-12	130	195	P0