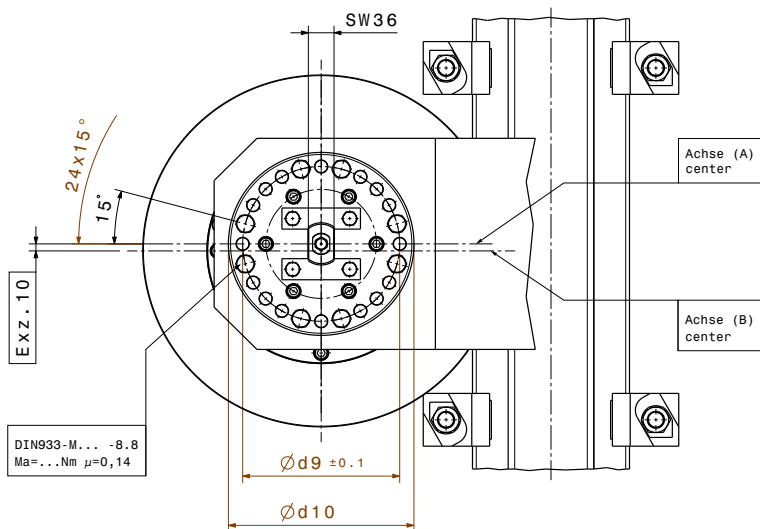
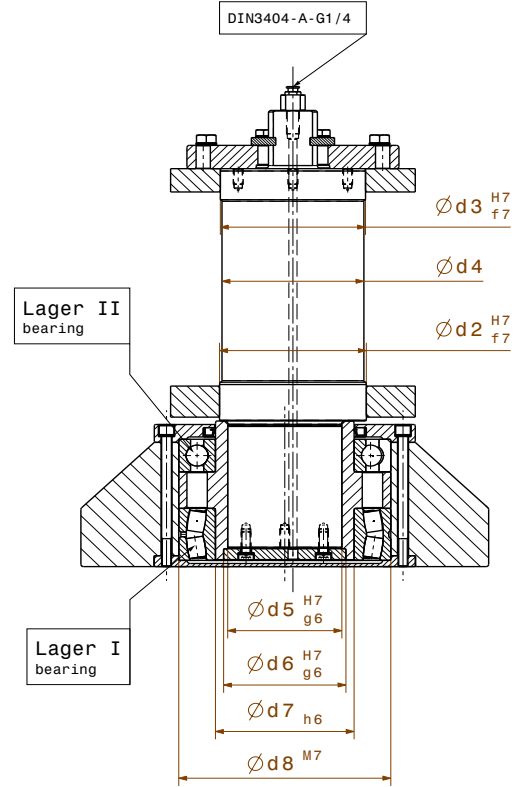
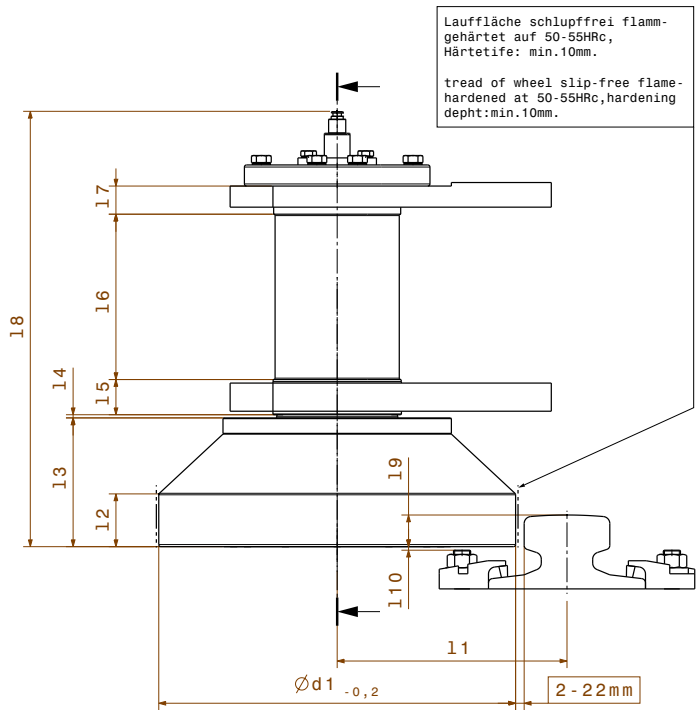


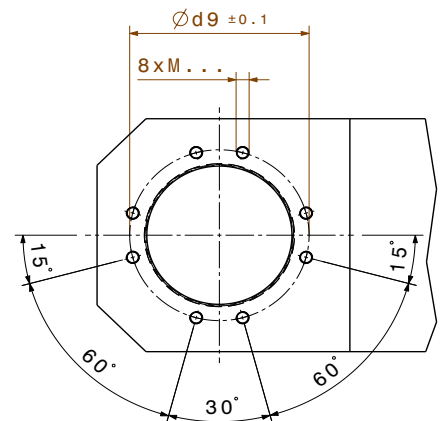
GUIDE ROLLERS

M 1501 498 E - EN - 2023-11

Guide rollers for crane wheel systems DIN 15090



Anschlußkonstruktion connecting construction



GUIDE ROLLERS

M 1501 498 E - EN - 2023-11

Rollers Ød1	Wheel Ø	Rail	Ød2 [mm]	Ød3 [mm]	Ød4 [mm]	Ød5 [mm]	Ød6 [mm]	Ød7 [mm]	Ød8 [mm]	Ød9 [mm]	Ød10 [mm]	l1 [mm]	l2 [mm]	l3 [mm]	l4 [mm]	l5 [mm]
250	315/400	A75	115	113	109	75	85	100	150	145	170	174,5	50	120	4,5	40
315	500/630	A100	140	138	134	100	110	130	200	180	210	219,5	60	132	4	40
400	710/800	A120	170	168	164	130	140	160	240	210	250	272	65	174	3,5	50
500	900/1000	A120	180	178	174	140	150	170	260	220	260	322	75	183	4,5	50

Rollers Ød1	l6 [mm]	l7 [mm]	l8 [mm]	l9 [mm]	l10 [mm]	Exz. [mm]	8xM... [Nm]	DIN 933 M... - 8.8	Ma [Nm]	Bearing I	Bearing II	max. perm. axial force [N]	m [kg]
250	150	30	437	35	5,5	10	10	M10x45	49	NCF3020V	6020	52000	58
315	165	30	464	40	10,5	10	12	M12x45	86	23026CC/W33	6026	112000	99
400	220	40	595	45	5	10	16	M16x60	210	23032CC/W33	6032	179000	194
500	235	40	620	45	5	10	16	M16x60	210	23034CC/W33	6034	224000	278

Notes:

- The rollers Ød1 were assigned to the corresponding impeller diameters.
- The following conditions were used as a basis for the max. permissible axial force of the guide rollers:
 - max. idler wheel load R_0 of the wide impeller design
 - wheel load $R = R_0 \times c_1 \times c_2 \times c_3$ ($c_1 \times c_2 \times c_3 = 2,0$)
 - max. axial wheel load $R_a = 0,2 \times R$
- With the max. axial wheel load R_a and an assumed running wheel speed $n = 31,5 \text{ min}^{-1}$, a dynamic bearing life for the bearing I $L_{10h} > 8000 \text{ h}$ is calculated.
- The guide rollers can be used on other rail types.
- The guide roller can be adjusted via the eccentric with a pitch of $24 \times 15^\circ$.
- The torque resulting from the max. axial force and the eccentric dimension is held by the frictional connection of the 8 connecting screws on the adjusting flange.