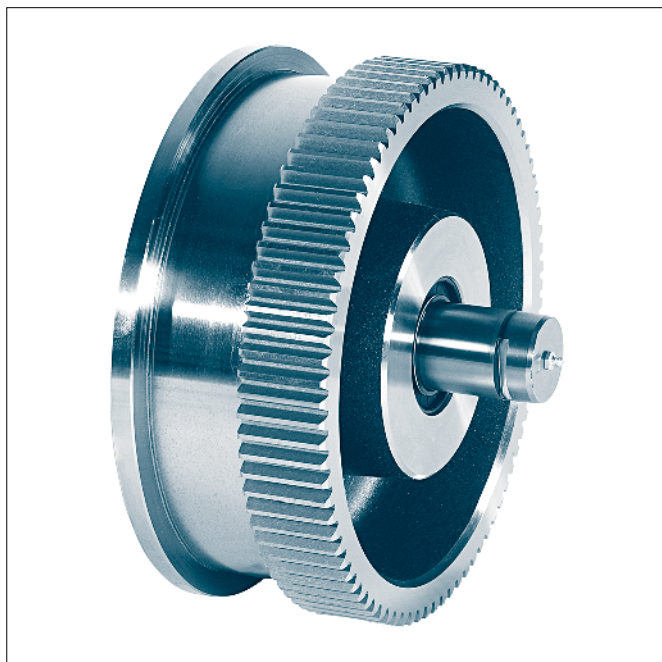


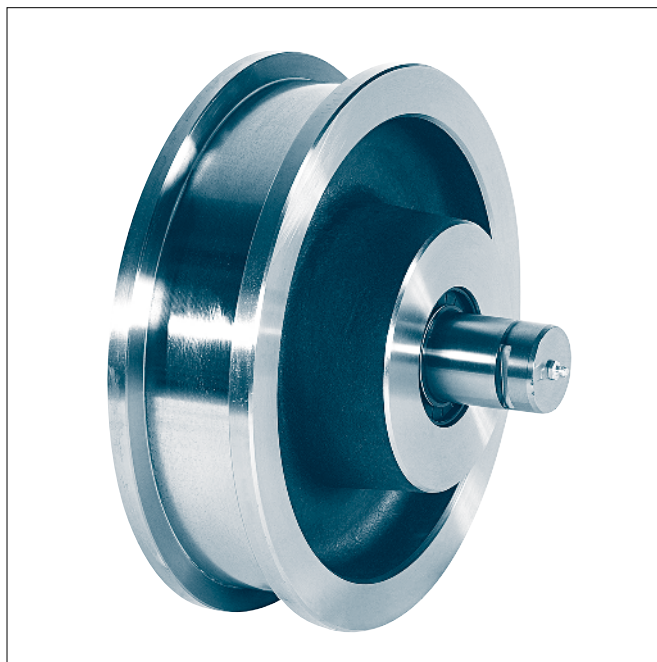
Crane wheels with precision cylindrical roller bearings

similar to DIN 15 049

KG 015



Form A with gear ring



Form B without gear ring

Description of a travel wheel form A with gear ring, nominal- \varnothing $d_1 = 300$ mm, gauge $b_1 = 50$ mm, complete with cylindrical roller bearings, radial shaft seal rings and hardened axle with $\varnothing d_3 = 50$ mm, module 3 and number of teeth 110:

Crane wheel A 300 × 50 - 3 × 110 KG 015

Form A with gear ring

Form B without gear ring

Other types of the running surfaces see KG 010.1.

The roller bearings are sealed with radial shaft seal rings on both sides and not greased

Material:

Wheel body- \varnothing 160-500 C45 drop forged

Wheel body- \varnothing 630 GE420 (GS-70) with ribs

Wheel axle 42CrMo4+QT

Surfaces hardened to HRc 56-59

Other material and dimensions on request.

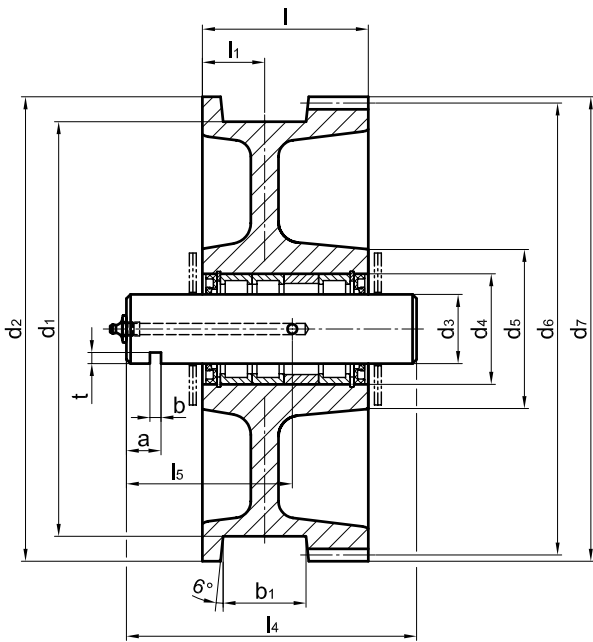
Dimensions of the appropriate wheel axle

for wheel- \varnothing d_1	d_3 f7	l_4	l_5	a	b +0,5	t +0,5	unit weight °[kg]
160 200	40	190	110	25	8	7	1,8
250 300	50	210	120	25	8	8	3,1
315	55	265	140	25	8	9	4,8
400	60	265	140	25	8	9	5,7
500	70	285	150	25	10	10	8,5
630	80	335	160	25	10	10	13,0

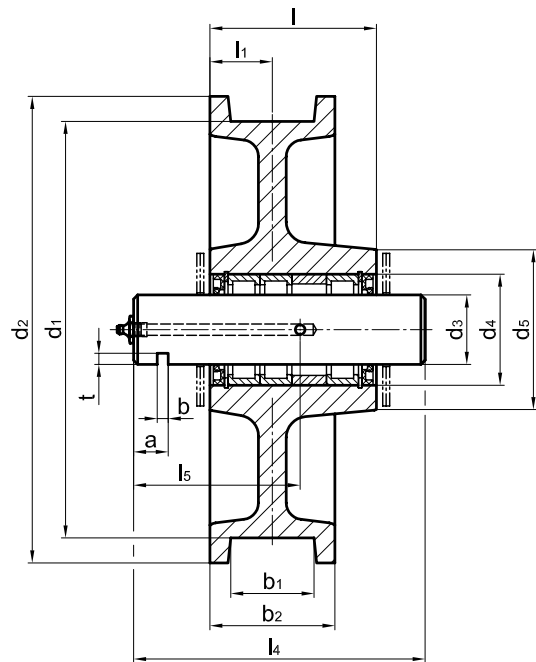
Crane wheels with precision cylindrical roller bearings

similar to DIN 15 049

KG 015



Form A with gear ring



Form B without gear ring

wheel- Ø d ₁	b ₁ ¹⁾	b ₂	d ₂	d ₃	d ₄	d ₅	l	l ₁	number of bea- rings	gear ring ²⁾ (Form A)				unit weight ^{a)} [kg]		wheel load [kg] ³⁾
										Mo- dule	Number of teeth	d ₆	d ₇	Form A	Form B	
h11					M7											
160	30-60	80	186	40	62	85	95	40	2	2,5	72	180	185	11	9,5	2 600
										3	60		186			
200	30-60	80	232	40	62	117	95	40	3	3	75	225	231	18,5	17	4 000
										4	56	224	232			
250	30-60	80	274	50	80	142	120	40	3	3	88	264	270	31	26	5 600
										4	66		272			
300	35-65	90	336	50	80	152	120	45	3	3	110	330	336	44	38	6 750
										4	82	328				
315	40-75	100	348	55	85	167	140	50	3	4	85	340	348	56	50	7 100
400	40-75	100	432	60	90	197	140	50	4	4	106	424	432	88	73	9 700
500	50-85	110	540	70	110	230	170	55	4	6	88	528	540	160	129	17 000
630	55-95	120	680	80	120	180	200	60	4	8	83	664	680	240	186	21 000

1) The dimension of the gauge recess b₁ to be stated with order.

2) Module and number of teeth to be stated with order.

Tooth form according to DIN 867 without profile correction.

Pressure angle 20 degree.

3) The wheel loads stated are valid for v ≈ 40 m/min with an endurance of approximately 10 000 hours and with maximum possible rail head width of the corresponding wheel.