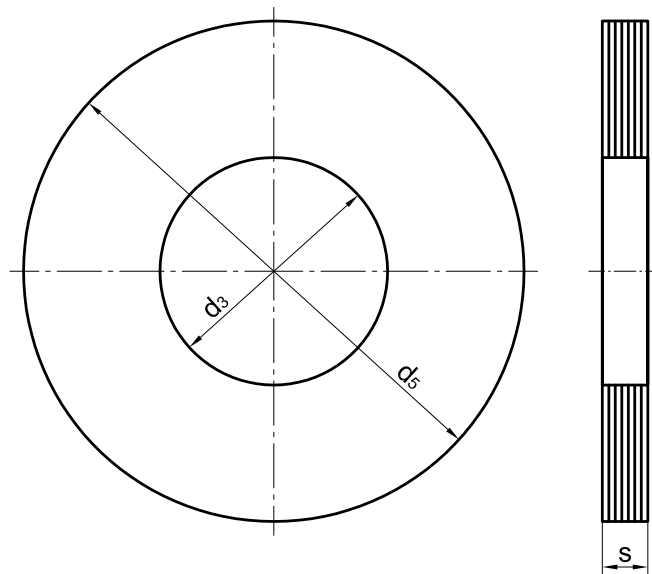
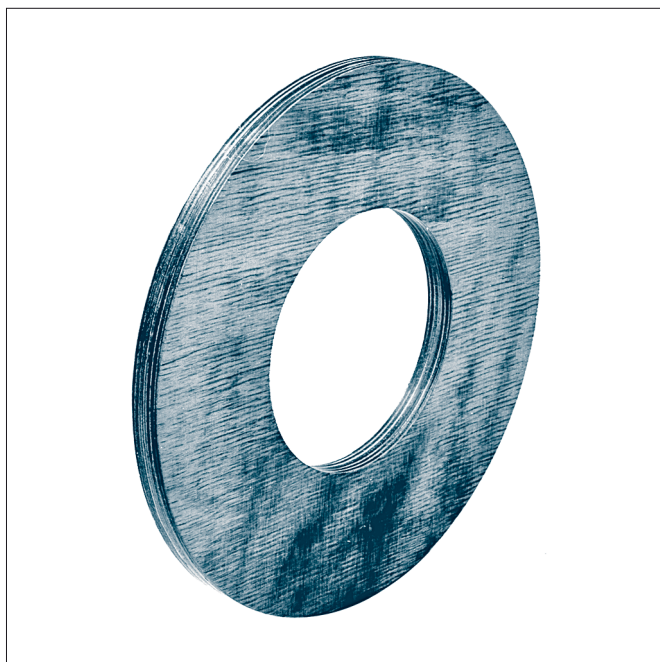


## Wearing washers

fitting to travel wheels according to KG 010.2, KG 014 and KG 015

similar to DIN 15 069

KG 010.3



Designation of a wearing washer for wheel- $\varnothing$   $d_1 = 300$  mm, axle- $\varnothing$   $d_3 = 50$  mm, thickness of the washer  $s = 10$  mm:

**Wearing washer 50 × 10 KG 010.3**

Material:

Laminated wood bound with synthetic resin  
(unsuitable for wet environment)

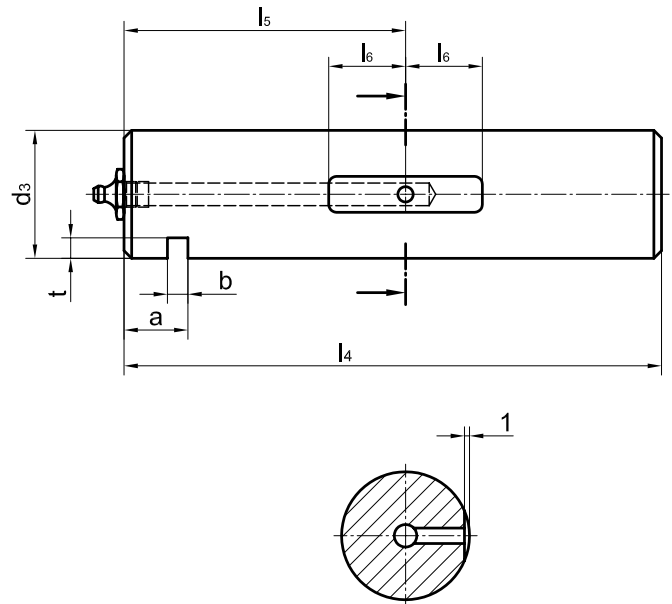
**Other material and dimensions on request.**

for wheel- $\varnothing$ $d_1$	$d_3$ <b>+1,0 +0,5</b>	$s$ <b>+0,2 -0,2</b>	$d_5$
<b>160 200</b>	40	5	90
		10	
<b>250 300</b>	50	5	110
		10	
<b>315</b>	55	5	120
		10	
<b>400</b>	60	5	140
		10	
<b>500</b>	70	5	160
		10	
<b>630</b>	80	5	170
		10	

# Wheel axles with lubrication bore

fitting to wheels according to KG 010.2 and KG 030

# KG 010.4



Designation of an axle for travel wheel -  $\varnothing d1 = 300$  mm,  
axle- $\varnothing d3 = 50$  mm, length 210 mm:

**Axle 50 × 210 KG 010.4**

Supplied with spherical grease nipple  
AM 10 × 1 DIN 71412.

Material: 42CrMo4+QT or C45

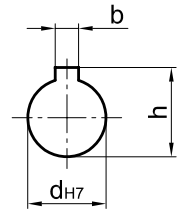
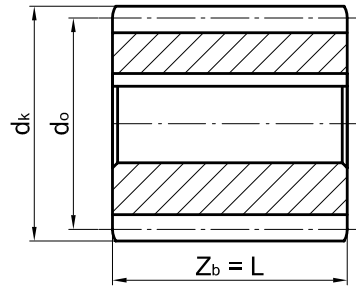
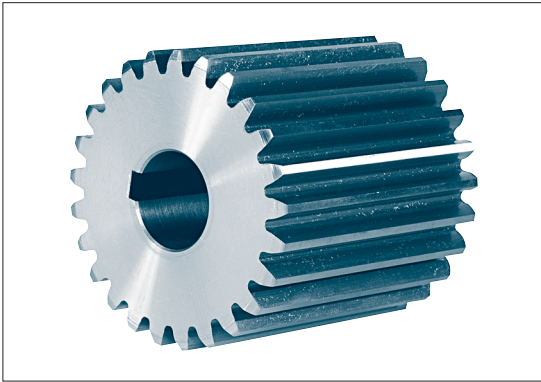
**Other material and dimensions on request.**

for wheel- $\varnothing$ d1	d3 f7	l4	l5	l6	a	b +0,5	t +0,5	unit weight ≈[kg]
<b>160</b> <b>200</b>	40	190	100	30	25	8	7	1,8
<b>250</b> <b>300</b>	50	210	110	30	25	8	8	3,1
<b>315</b>	55	265	135	40	25	8	9	4,8
<b>400</b>	60	265	135	40	25	8	9	5,7
<b>500</b>	70	285	150	50	25	10	10	8,5
<b>630</b>	80	335	170	50	25	10	10	13

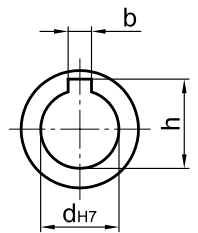
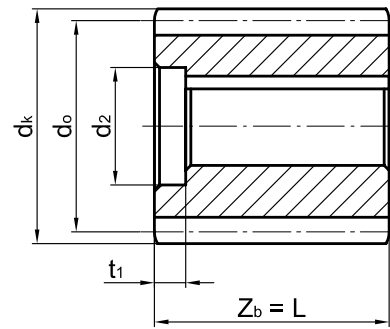
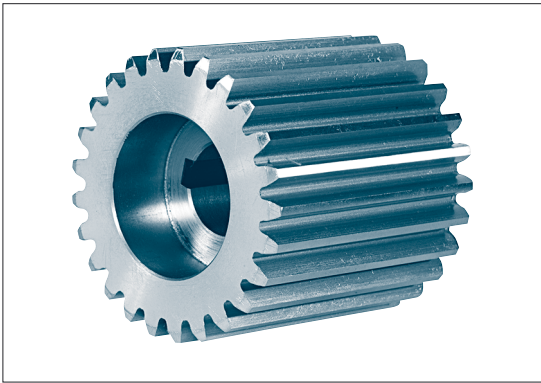
# Pinions

**KG 010.5**

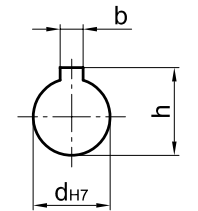
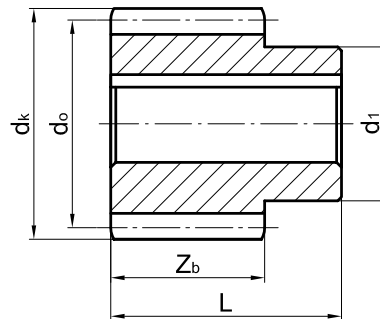
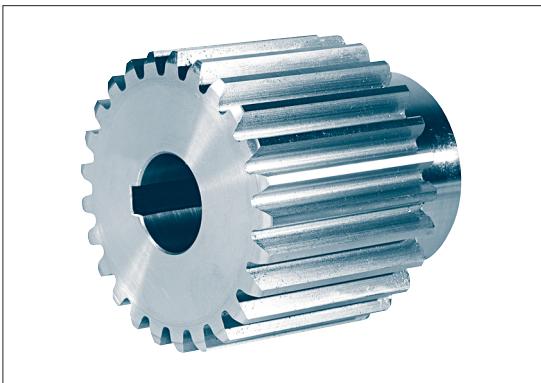
**Form 1**



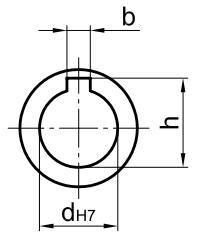
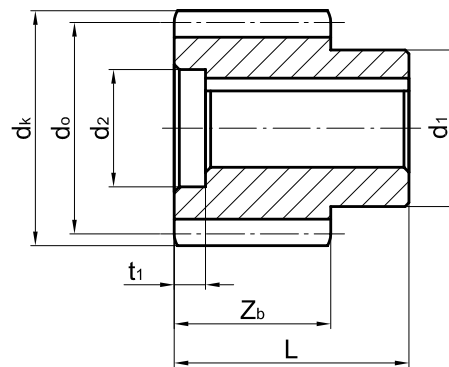
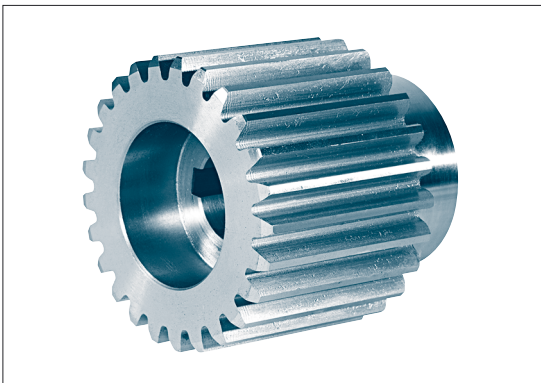
**Form 2**



**Form 3**



**Form 4**



Designation of a pinion form 1, module 3, number of teeth 18, length  $L = 60$  mm, bore- $\varnothing d = 20$  H7 with feather keyway according to DIN 6885-1:

**Pinions 3 × 18 × 60 × 20 H7 KG 10.5 form 1**

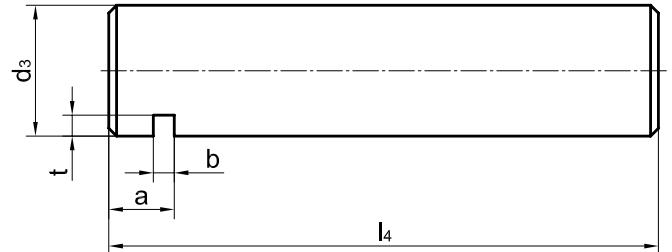
**Module:** 2-15  
**Minimum number of teeth:** 12  
 $d_{min} =$  16 H7  
**Material:** C45 or 42CrMo4+QT

All dimensions and material to be stated with order.

# Wheel axle without lubrication bore

fitting to travel wheels according to KG 014

**KG 010.6**



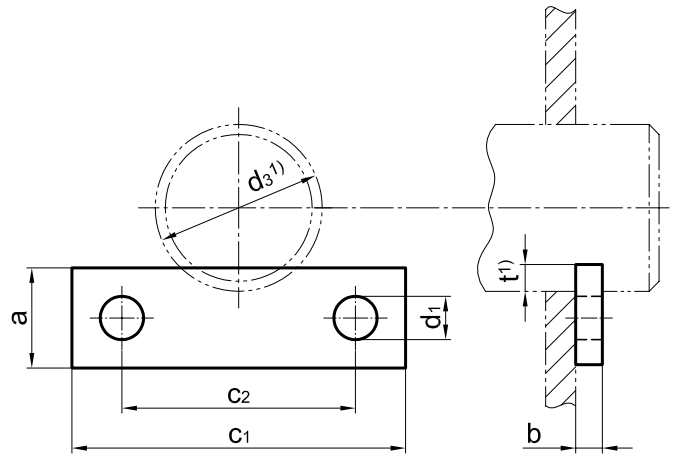
Designation of an axle for travel wheel -  $\varnothing d1 = 300$  mm,  
axle -  $\varnothing d3 = 50$  mm, length 210 mm:

**Axle 50 × 210 KG 010.6**

Material: 42CrMo4+QT or C45

**Other material and dimensions on request.**

for wheel - $\varnothing$ d1	d3 f7	l4	a	b +0,5	t +0,5	unit weight ≈[kg]
200	40	190	25	8	7	1,8
250 300	50	210	25	8	8	3,1
315	55	265	25	8	9	4,8
400	60	265	25	8	9	5,7



The axle brackets have to be placed in way, that the fastening screws are not stressed by the pressure of the axle.

Designation of an axle bracket width  $a = 30$  mm, thickness  $b = 8$  mm:

### Axle bracket 30 × 8 DIN 15 058

Material: S235JR (St 37)

**Other material and dimensions on request.**

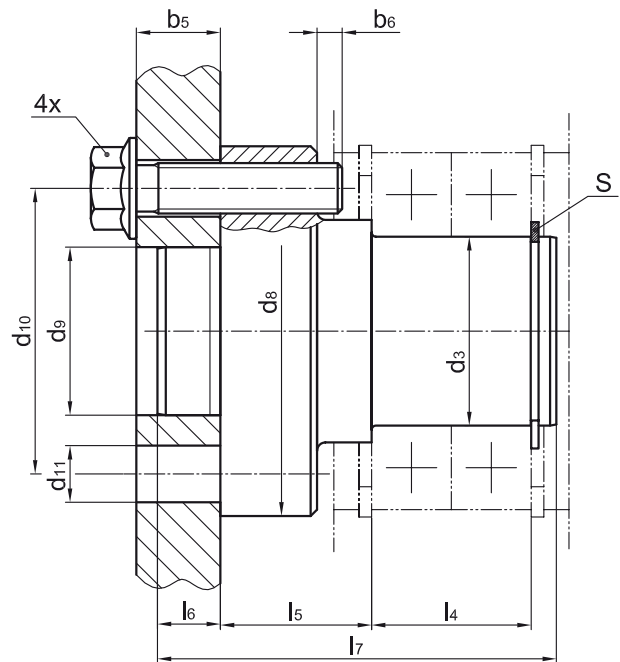
a	b	c1	c2	d1
20	5	60	36	9
25	6	80	50	11
30	8	100	70	13
40	10	140	100	17
50	12	190	140	21
60	16	250	200	25

1) Dimensions see wheel axles KG 010.4, KG 010.6 and KG 015.

## Wheel axles

fitting to travel wheels according to KG 020  
for an easy assembly into steel structures

## KG 020.1



Designation of an axle for travel wheel -  $\varnothing d1 = 200$  mm:

**Axle 200 KG 020.1**

The supply takes place supplied fully machined,  
including circlip and 4 locking screws.

Material: 42CrMo4+QT

**Other materials, dimensions or wheel axle for welding on  
Request.**

for wheel- $\varnothing$ d1	d3	d8	d9 - 0,1	d10	d11	l4	l5	l6	l7	locking screws (included)	b5 <sup>1)</sup>	b6 max.	S circlip DIN 471
130	30	67	25	48	4x $\varnothing 11$	32	23	10	70	M10x30 10.9	12-16	5	30x1,5
160	35	77	35	58	4x $\varnothing 11$	34	31,5	11	82	M10x35 10.9	12-20	6	35x1,5
200	45	88	40	68	4x $\varnothing 13,5$	38	36	12	92	M12x40 10.9	12-25	7	45x1,75
300	65	127	50	98	4x $\varnothing 17,5$	46	44,5	16	114	M16x50 10.9	16-30	11	65x2,5

1) For different metal gauge b5 other lengths of the screws are required.

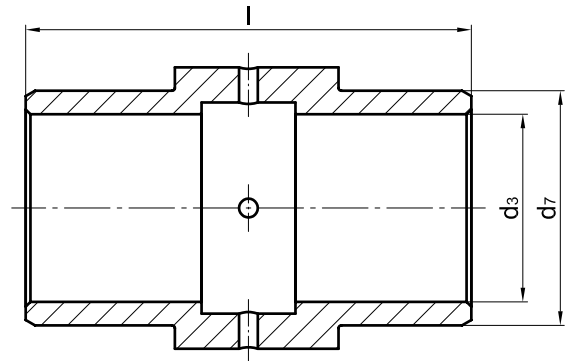
# Bushing for crane wheels KG 030

similar DIN 15 049

KG 030

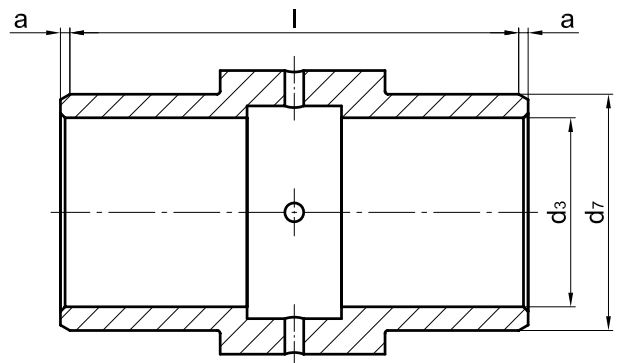
### Design 1

length of the bush correlates with the width of the wheel



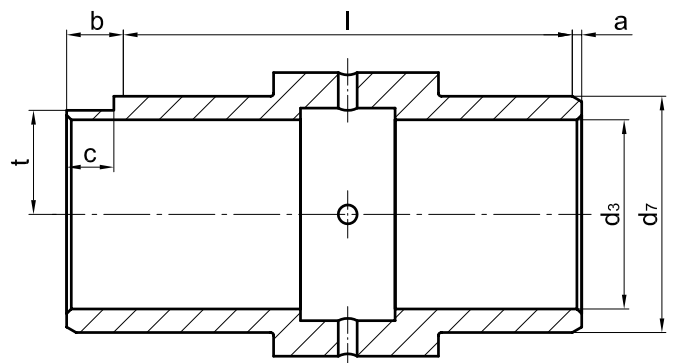
### Design 2

bush both-sided over laying at gauge, against wheelbody



### Design 3

bush both-sided over laying against wheel body and with flattening against rotation (mounted on flush hub side resp. opposite gear ring)



### dimensions of the bushing

for Rad-Ø d1	d3	d7	a	b	c	t	l
	E9	g6					
200	40	50	2	12	10	22	95
250	50	60	2	12	10	27,5	120
300	50	65	3	13	10	29	120
315	55	75	3	13	10	32,5	140
400	60	90	5	15	10	40	140
500	70	100	5	15	10	45	170
630	80	110	5	15	10	50	200