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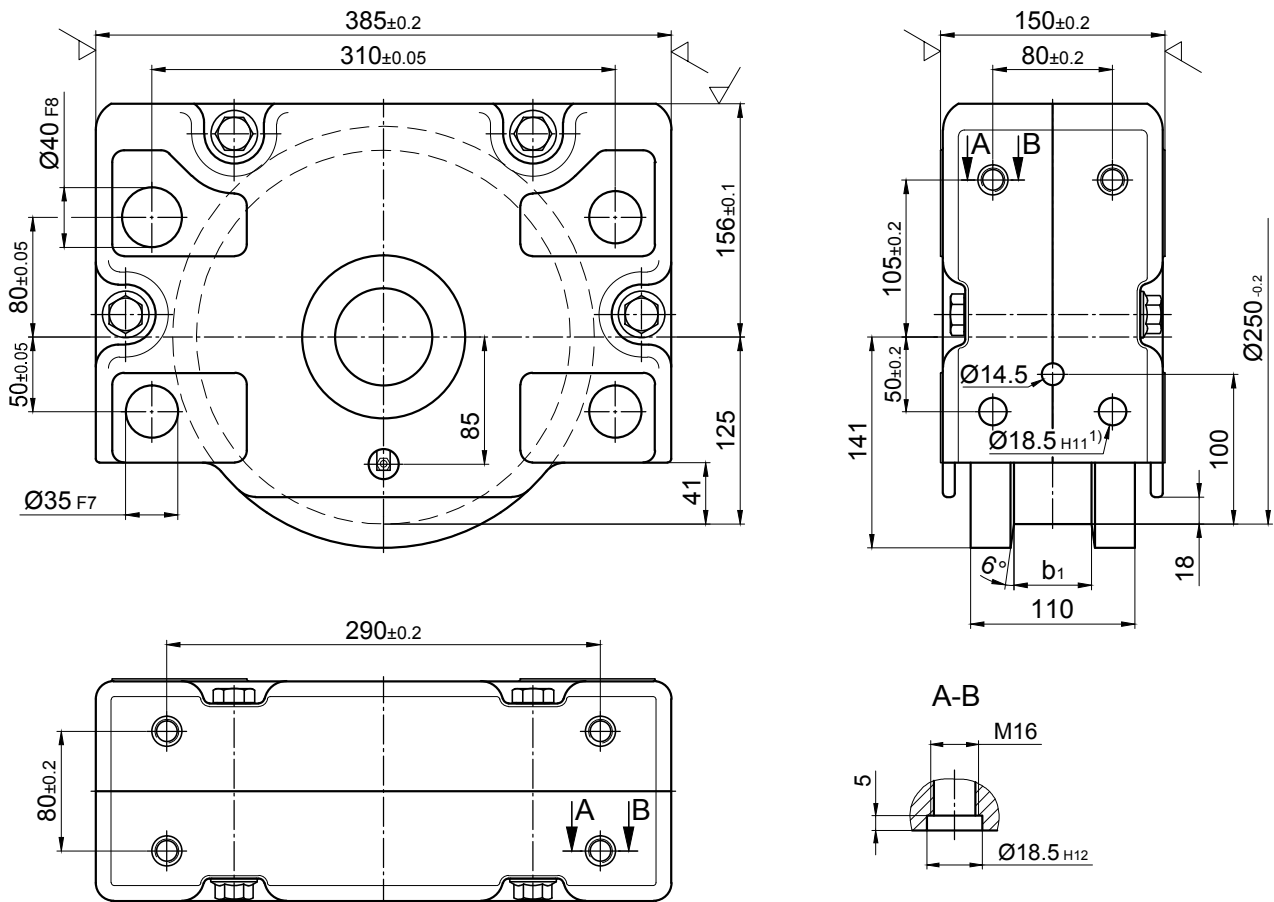
**Wheel block**

**RB 250-V**

**reinforced design**

# Wheel block RB 250-V

## Primary dimensions



1) Due to the use of retained nuts M16 in the holes 18,5H11, the threaded connection are attained as in section A-B

**Weight:** ca. 57 kg  
**max. wheel load:** 16 000 kg

## Ordering examples

### RBA 250×55

Wheel block 250, driven, with internal taper, reinforced design, with two-sided wheel flange, Design Form 1, running tread 65 mm

### RBN 250×55

Wheel block 250, non driven, without internal taper, reinforced design, with two-sided wheel flange, Design Form 1, running tread 65 mm

### RBA 250×110

Wheel block 250, driven, with internal taper, reinforced design, no wheel flanges, Design Form 4

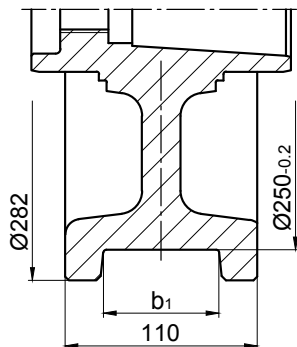
### RBA 250

Wheel block 250, driven, with internal taper, reinforced design, with Vulkollan-binding, Design Form 8

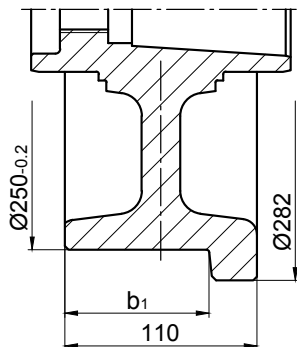
Design RBA and RBN refer to Page 5

# Wheel block RB 250-V

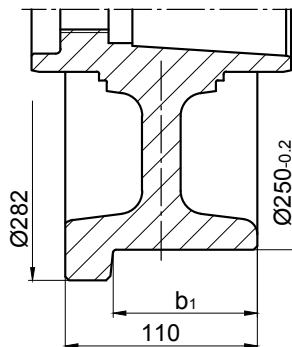
## Standard models



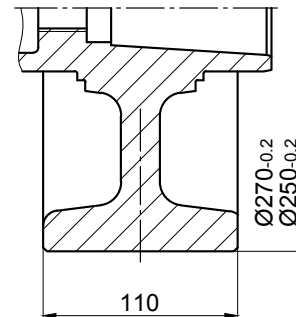
**Form 1**  
two-sided wheel flange



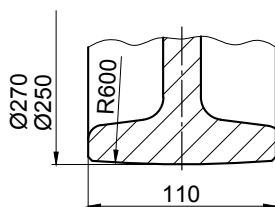
**Form 2¹)**  
one-sided wheel flange  
on the drive side



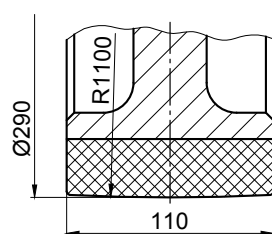
**Form 3¹)**  
one-sided wheel flange  
opposite to the drive side



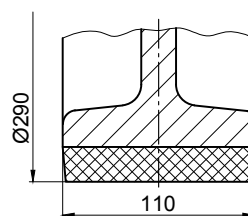
**Form 4**  
no wheel flanges with  
cylindrical running surface



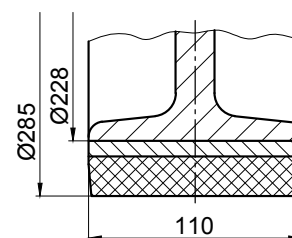
**Form 5**  
no wheel flanges with  
spherical running surface



**Form 6**  
with coating  
of PA 12 G

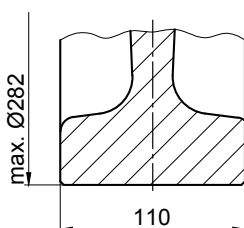


**Form 7**  
with coating  
of Vulkollan

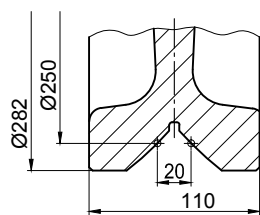


**Form 8**  
with binding  
of Vulkollan

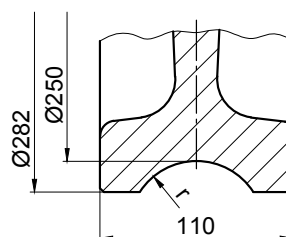
## Special models



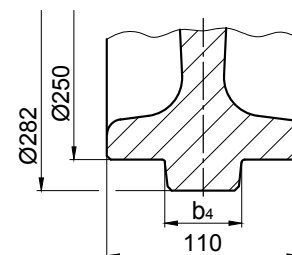
**Form 9**  
no wheel flanges



**Form 10**  
with prismatic guide



**Form 11**  
with concave groove  
 $r = 1,1 \times \text{track radius}$   
(recommended)



**Form 12**  
with middle wheel flange

Form 1			Form 2 and 3	
Running tread b1, or two-sided wheel flange			Running tread b1, or one-sided wheel flange	
minimal	maximal	Standard	minimal	maximal
20	85	65, 75	60	97,5

1) Forms 2 and 3 are identical for the non-driven wheel block RBN

# Wheel block RB 250-V

## Connection options

### Top connection KA 250.1

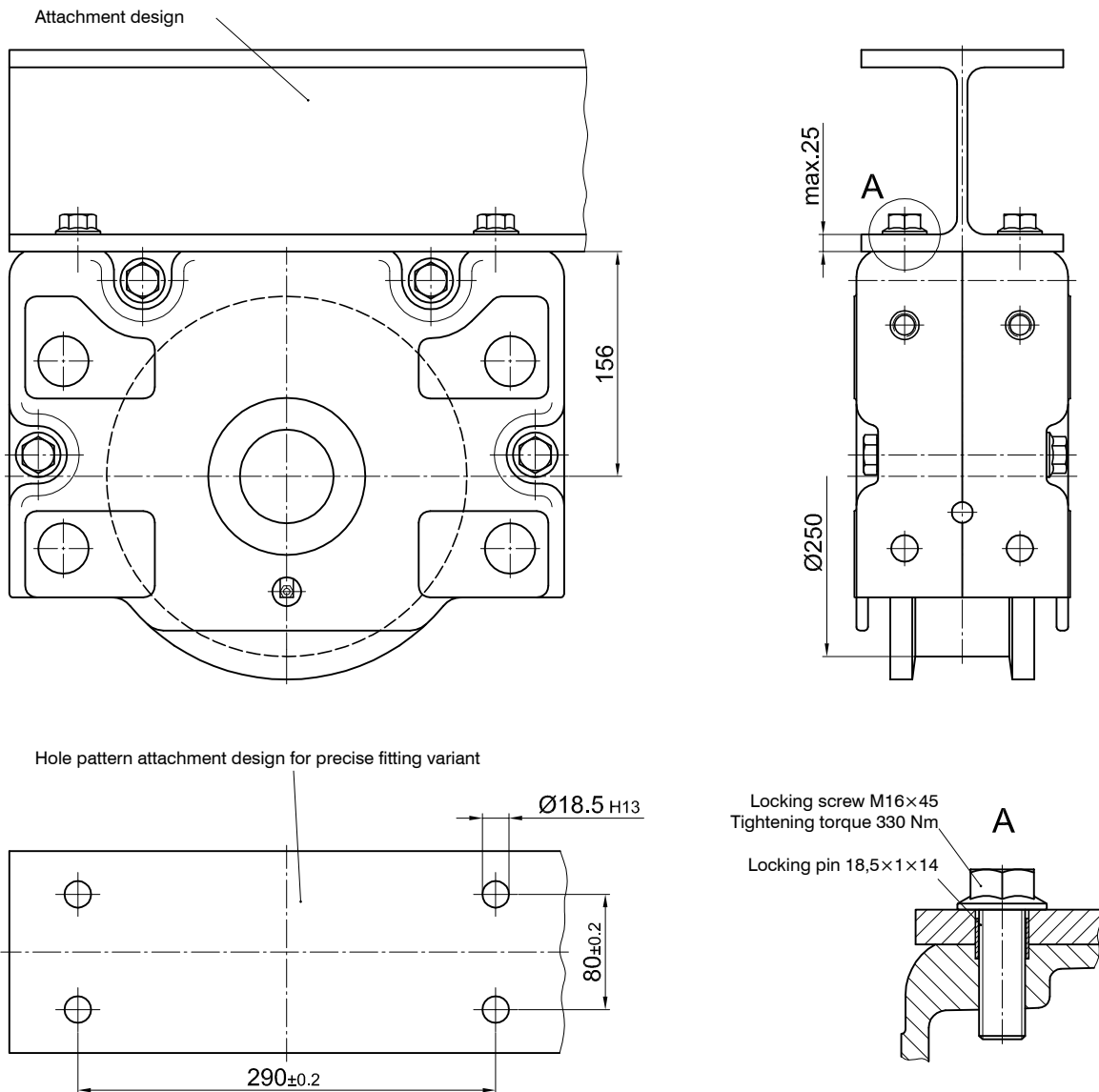
Precisely fitted direct attachment as bolted connection (welded construction, roll section, etc.)

Top connection using locking screws for installation in accurately drilled connecting constructions. No adjustment of the wheel blocks is required.

#### 1 Set KA 250.1 comprising of:

- 4 Locking screws M16×45 – 10.9
- 4 Locking pins 18,5×1×14

Mounting parts for larger steel plate thicknesses and/or adjustable direct connection are available on request.  
For the directional version refer to the pattern of drilling KA 250.2 (Page 86).



# Wheel block RB 250-V

## Connection options

### Top connection KA 250.2

Precisely fitted or adjustable direct attachment as bolted connection (welded construction, roll section, etc.)

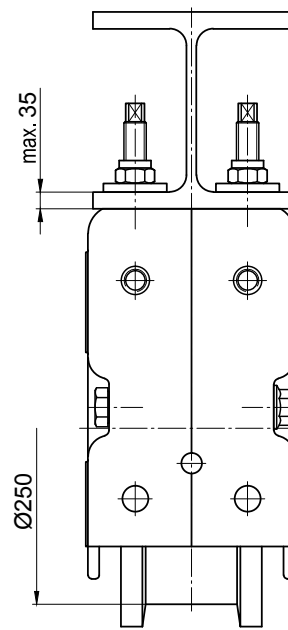
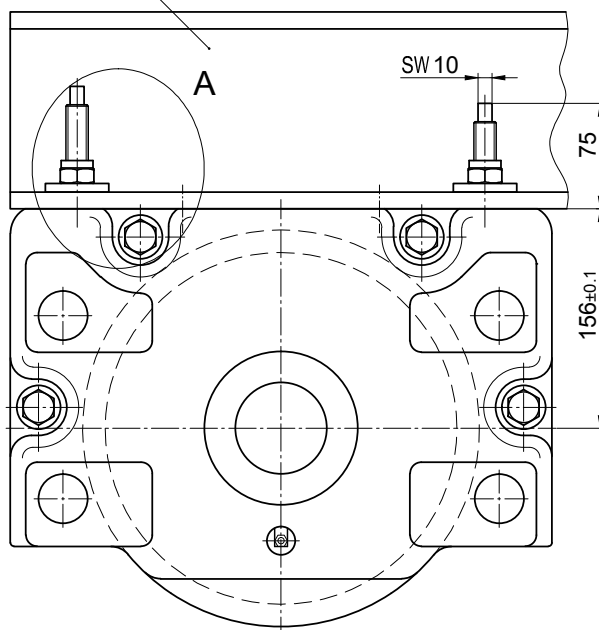
Top connection using locking pins for installation in attachment design with precisely or larger drilled attachment holes. For larger drilled attachment holes, the wheel block must be aligned. Subsequently, the wheel block is attached by bolts and should be drilled with the locking pins 8×24 supplied. However, this shouldn't be done in the area of the attachment bolts [1]). Alignment is not required for precisely drilled attachment holes.

#### 1 Set KA 250.2 comprising of:

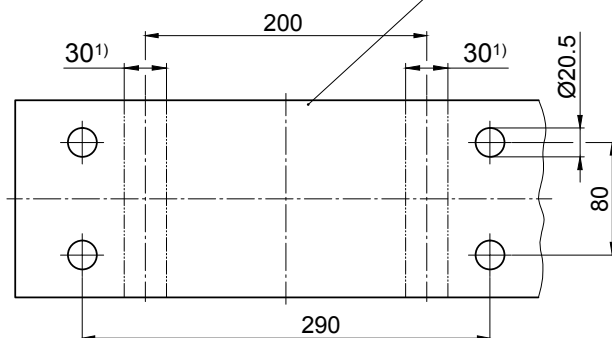
- 4 Grub screws M16×105 - 10.9 ZT
- 4 Safety nuts M16-10 DIN EN ISO 7042 (DIN 980)
- 4 Discs 17 DIN 6340
- 4 Locking pins 8×24 DIN EN ISO 8752 (DIN 1481), for adjustable connection
- 4 Locking pins 18,5×1×14, for precise connection

Longer locking pins are available for thicker plates.

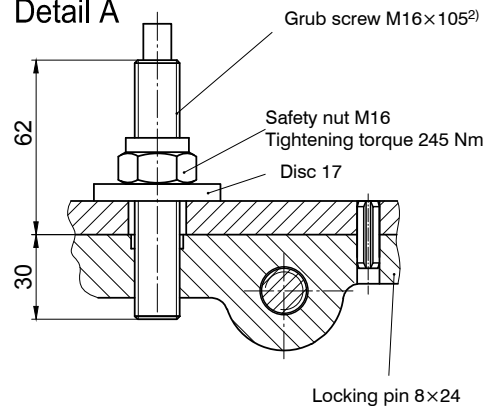
Attachment design



Hole pattern for the attachment design for adjustable variant



Detail A



1) Pinning is not permitted in this area !

2) Can be factory-glued in the wheel block housing on request

# Wheel block RB 250-V

## Connection options

### Pin attachment BA 250.1-V

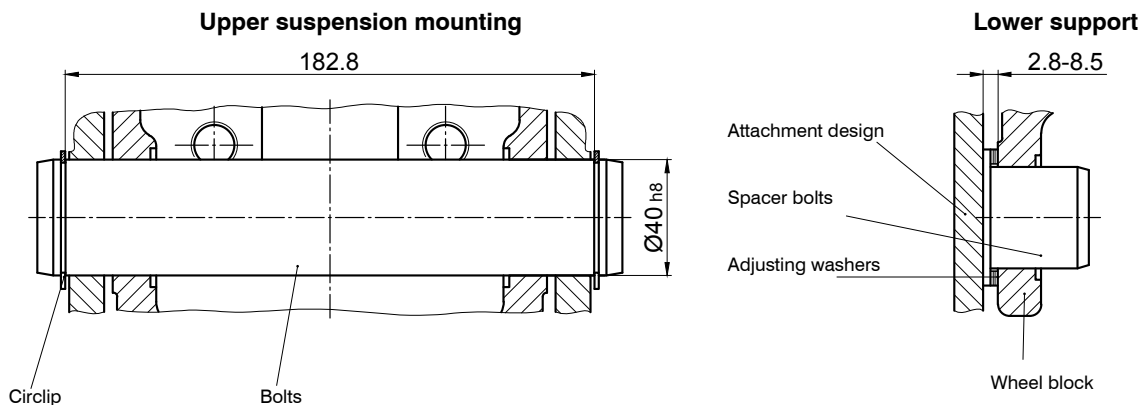
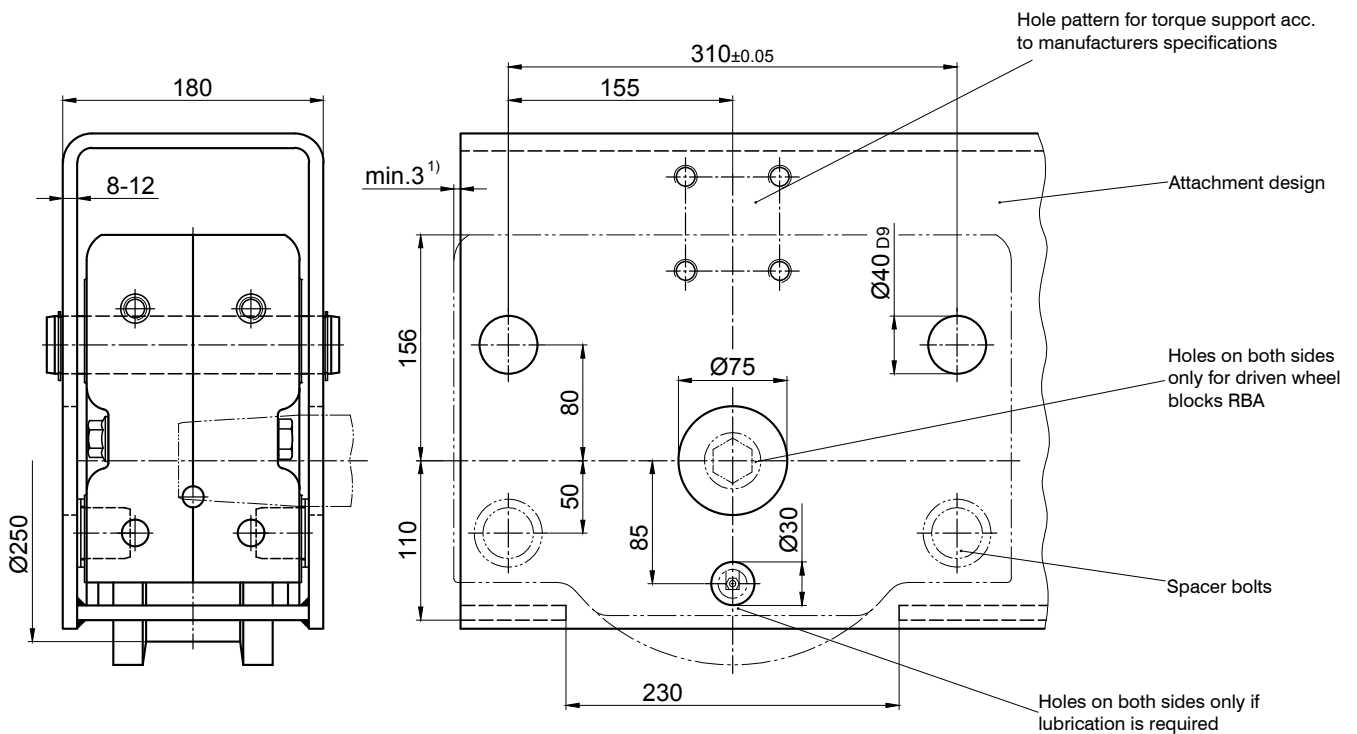
Pin attachment is adapted to the installation in hollow profiles, floating levers, etc. by means of adjusting washers.

Pin attachment with alignment option using adjusting washers. Alignment option by replacing the adjusting washers only in dismantled condition.

#### 1 Set BA 250.1-V

- 2 Bolts  $\text{Ø}40\text{h}8 \times 202$
- 4 Circlip  $40 \times 1,75$  DIN 471
- 4 Spacer bolts
- 24 Adjusting washers  $35 \times 45 \times 0,5$  DIN 988

Pin connections are available in special design according to the customer drawing.



1) Dimension must be observed only with front mounting parts

# Wheel block RB 250-V

## Connection options

### Pin attachment BA 250.2-V

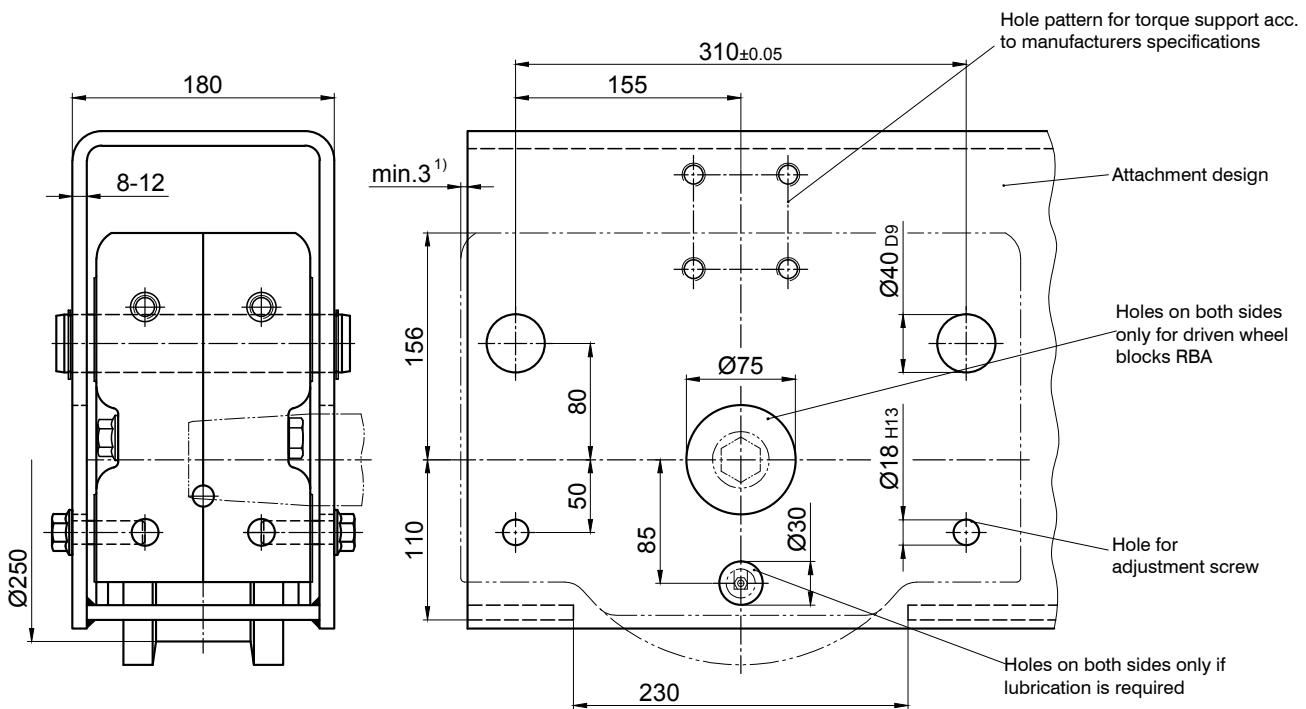
Adjustable pin attachment for installation in hollow profiles, floating levers, etc.

Pin connection with option to align using adjustable hexagon screws. The alignment is done in assembled and relieved mode.

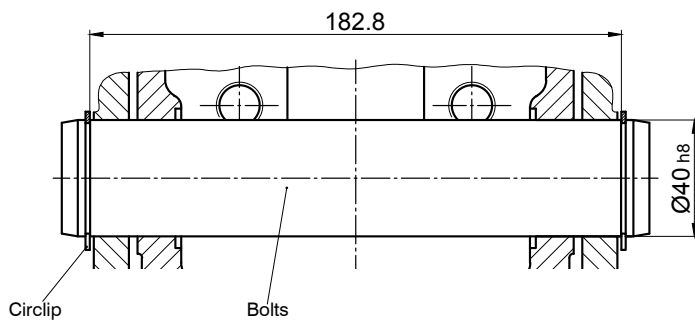
#### 1 Set BA 250.2-V comprising of:

- 2 Bolts  $\text{Ø}40$  h8 x 202
- 4 Circlipse  $40 \times 1,75$  DIN 471
- 4 Flanged bushings with internal thread (bonded)
- 4 Locking screws M16 x 50 (coated)

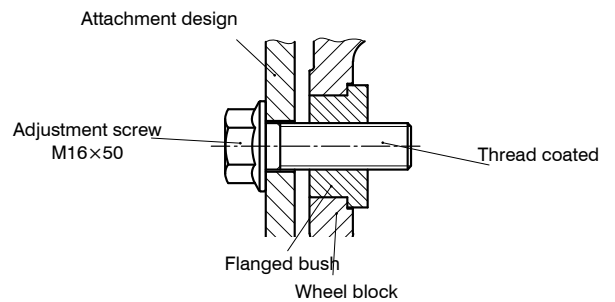
Pin connections are available in special design according to the customer drawing.



### Upper suspension mounting



### Lower support



1) Dimension must be observed only with front mounting parts

# Wheel block RB 250-V

## Connection options

### Pin attachment BA 250.3-V

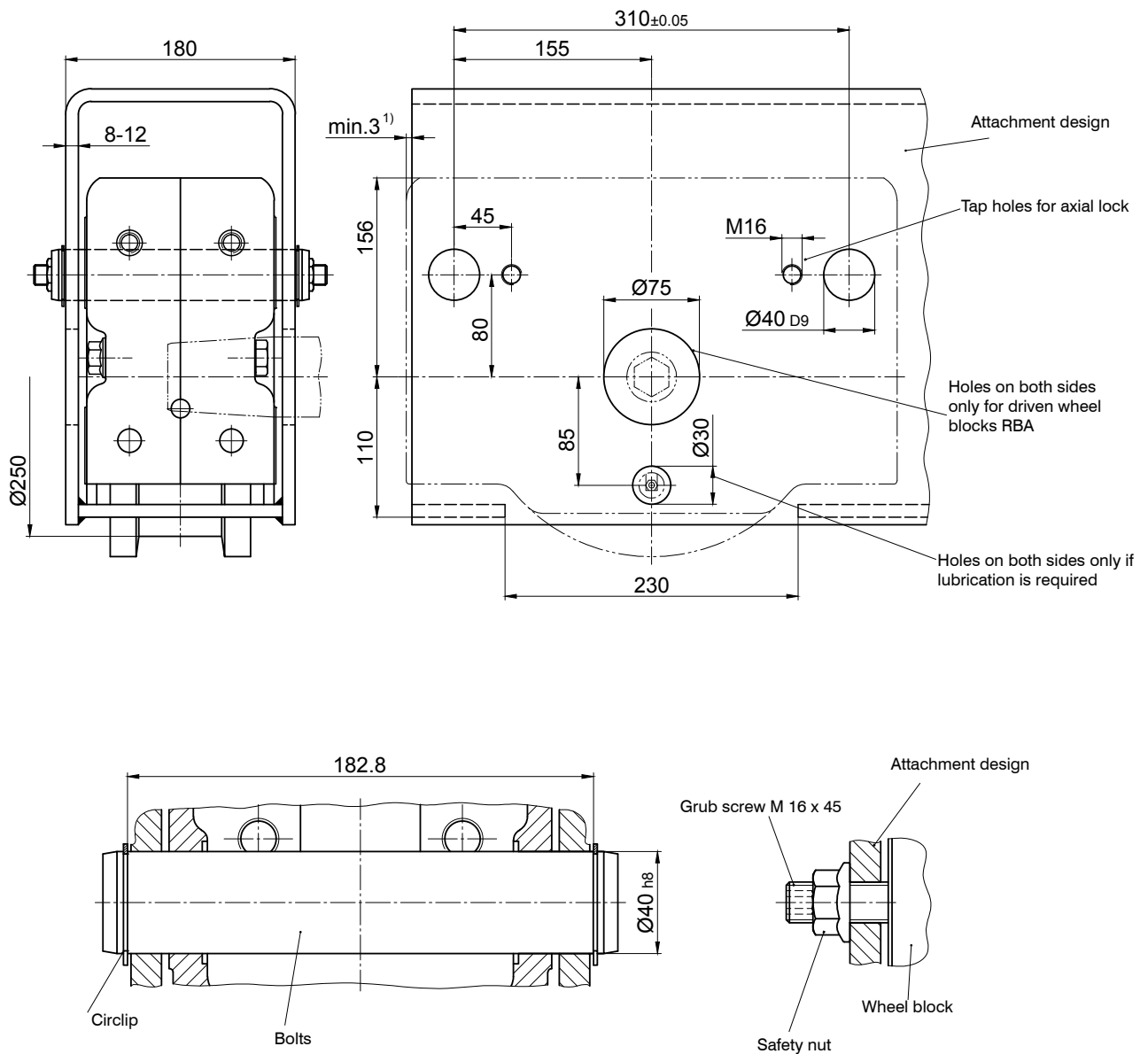
Pin connection adjustable by grub screws for installation in hollow profiles, swingarms, etc.

Pin connection with alignment possibility by adjustable grub screws. The alignment is done in assembled and relieved mode.

#### 1 Set BA 250.3-V comprising of:

- 2 Bolts  $\text{Ø}40 \text{ h}8 \times 202$
- 4 Circlipse  $40 \times 1,75 \text{ DIN } 471$
- 4 Grub screws with hexagon socket  $\text{M } 16 \times 45\text{-}45\text{H DIN EN ISO } 4026 \text{ (DIN } 913)$
- 4 Safety nuts  $\text{M } 16\text{-}10$

Pin connections are available in special design according to the customer drawing.



1) Dimension must be observed only with front mounting parts





# Wheel block RB 250-V

## Connection options

### Side connection WA 250-V

Lateral connection option for low construction designs

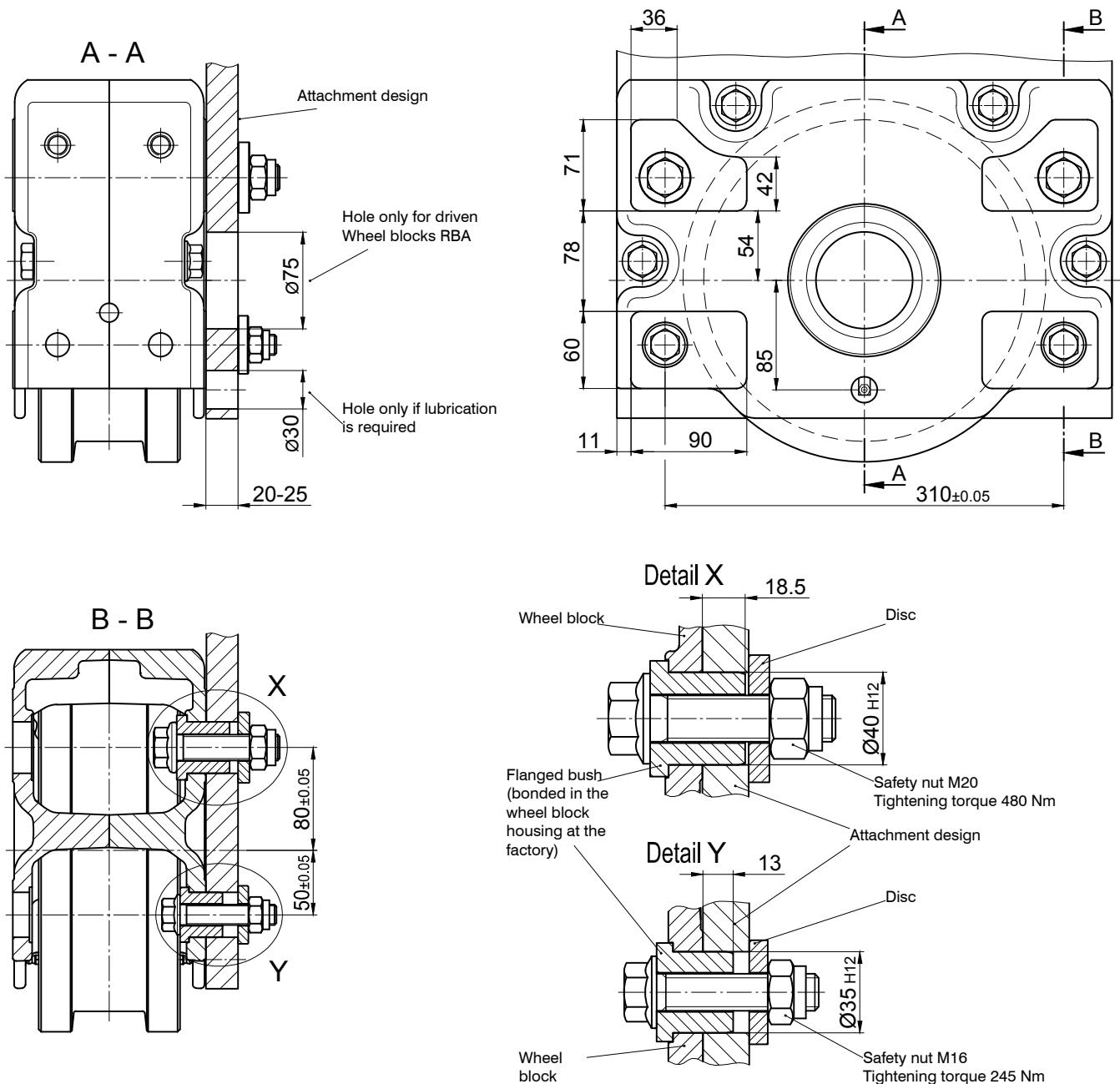
- 1 Set WAA 250-V (Side connection on the drive side)
- 1 Set WAN 250-V (Side connection on the non-driven side)
- 1 Set WA 250-V (Side connection on non-driven wheel block RBN) comprising of:

- 2 Flanged bushings 40, bonded
- 2 Locking screws M 20 x 80, 12.9
- 2 Safety nuts M 20 DIN EN ISO 7042
- 2 Discs 21

- 2 Flanged bushings 35, bonded
- 2 Locking screws M 16 x 75, 10.9 DIN EN ISO 4762
- 2 Safety nuts M16 DIN EN ISO 7042
- 2 Discs 17

### Attachment variant 1:

Attachment design is accessible from both sides  
Trough-hole  $\varnothing 40$  H12 and  $\varnothing 35$  H12



# Wheel block RB 250-V

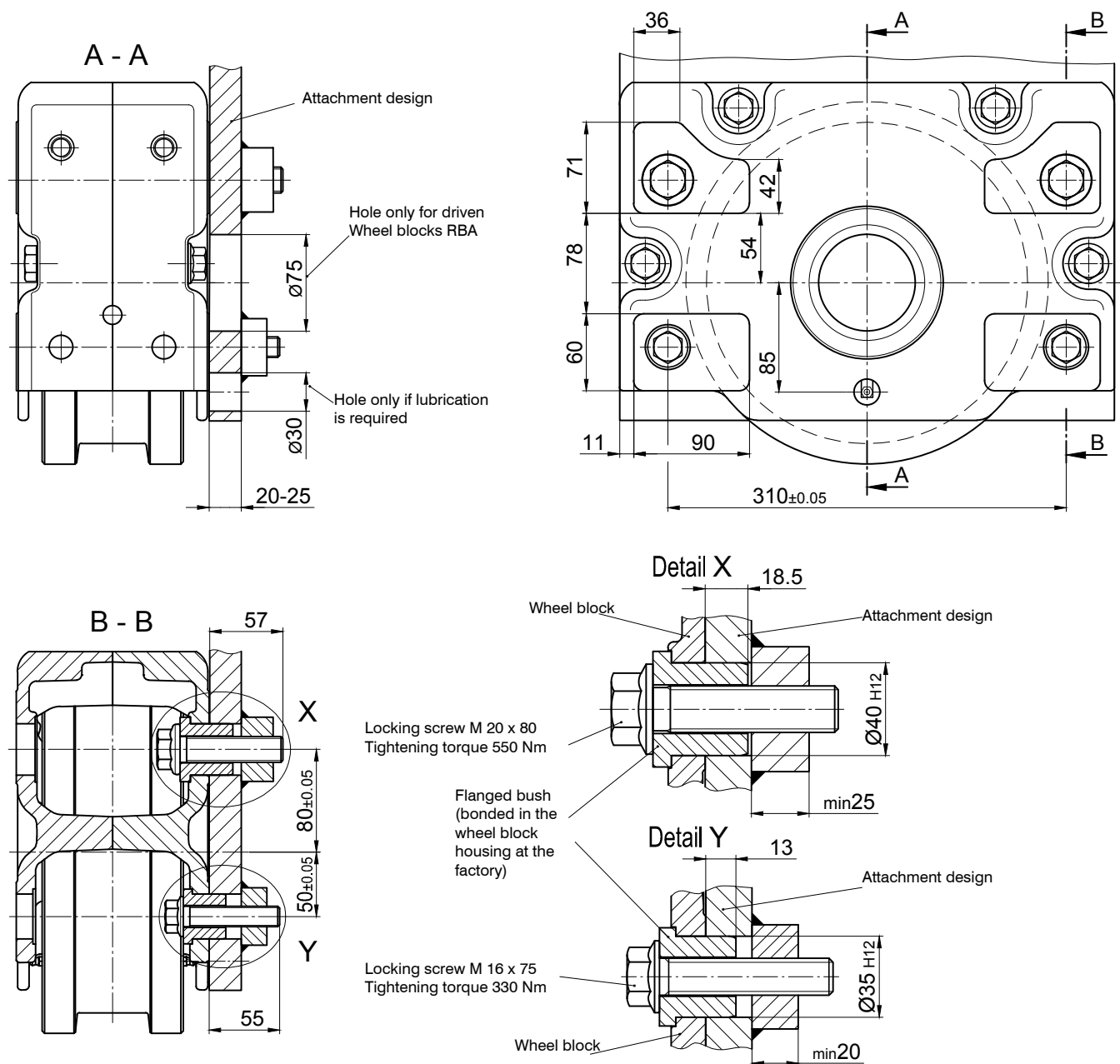
Connection options

## Side connection WA 250-V

Lateral connection option for low construction designs

### Attachment variant 2:

Attachment design (e.g. hollow profile) is not accessible from the inside  
 Blind hole  $\varnothing 40$  H12 x 20 deep with thread M20 and  
 Blind hole  $\varnothing 35$  H12 x 15 deep with thread M16

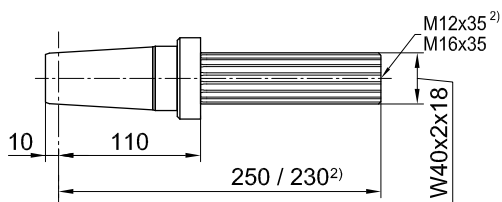
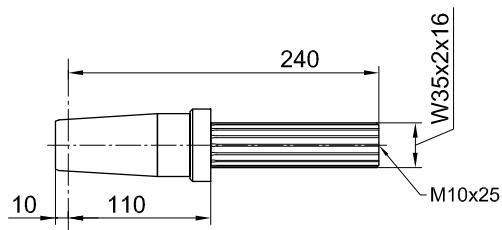
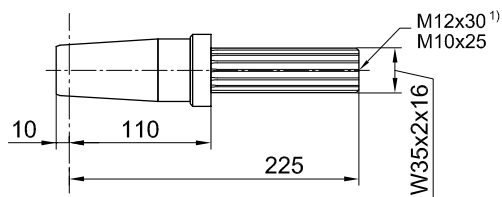


# Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

## Single drive unit

Drive shaft suitable for slip-on gear mechanism with splined-shaft profile in accordance with DIN 5480



Slip-on gear mechanism		
Model	Manufacturer	Splined-shaft profile in acc. with DIN 5480
FV 47 / KV 47	SEW	W35 x 2 x 16
SK 2282 EA <sup>1)</sup>	NORD	
SPZT / SKZT 26..	PREMIUM STEPHAN	

FV 57 / KV 57	SEW	W35 x 2 x 16
---------------	-----	--------------

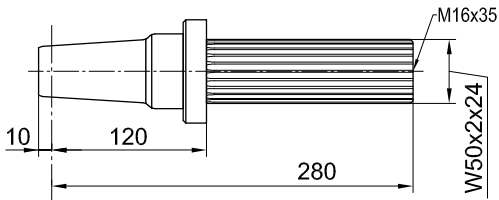
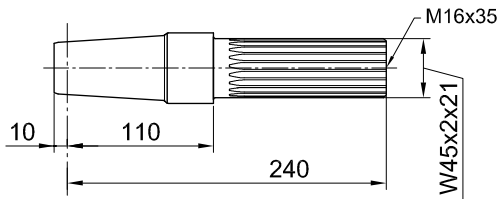
F.A.T 48B <sup>2)</sup>	SIEMENS (FLENDER)	W40 x 2 x 18
KA.T 48 <sup>2)</sup>		
CA.T 48 <sup>2)</sup>		
SK 3282 EA	NORD	
SK 9023.1A.EA		

# Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

## Single drive unit

Drive shaft suitable for slip-on gear mechanism with splined-shaft profile in accordance with DIN 5480



Slip-on gear mechanism		
Model	Manufacturer	Splined-shaft profile in acc. with DIN 5480
FV 67 / KV 67	SEW	W45 x 2 x 21
SPZT / SKZT 36..	PREMIUM STEPHAN	

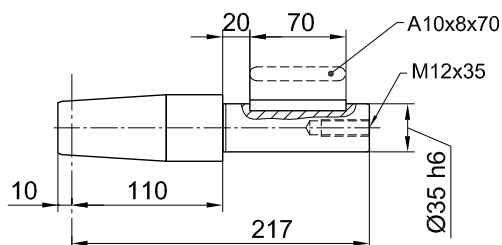
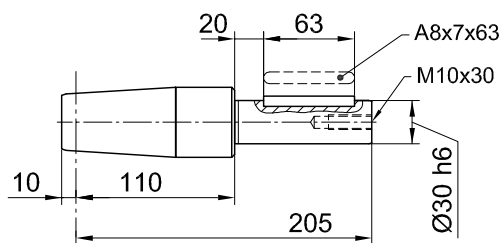
FV 77 / KV 77	SEW	W50 x 2 x 24
SK 4282 EA	NORD	
SPZT / SKZT 46..	PREMIUM STEPHAN	

## Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

### Single drive unit

Drive shaft suitable for slip-on gear mechanism with feather key connection in accordance with DIN 6885



Slip-on gear mechanism		
Model	Manufacturer	Shaft journal

FA / KA 37 SA 47	SEW	Ø 30
FDA / FZA 38 B KA / CA 38	SIEMENS (FLENDER)	
O 32..H O 33..H K 33..H C 32..H	SIEMENS	
SK 0282 NBAB SK 1282 AB	NORD	
GFL 04..H GKS 04..H GSS 04..H	LENZE	
F 3..A	STÖBER	
SPZ 16H	PREMIUM STEPHAN	

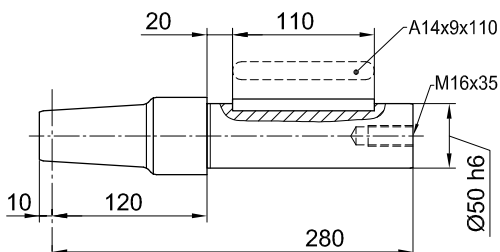
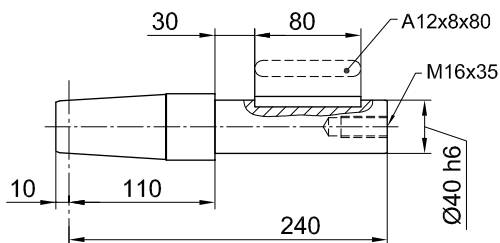
FA / KA 47 SA 57	SEW	Ø 35
SK 2282 AB	NORD	
FDA / FZA 48 B KA / CA 48	SIEMENS (FLENDER)	
O 42..G O 43..G K 43..H C 42..H	SIEMENS	
GFL 05..H GKS 05..H GSS 05..H	LENZE	
K1..A S2..A	STÖBER	
SPZH 26.. SKZH 26..	PREMIUM STEPHAN	

# Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

## Single drive unit

Drive shaft suitable for slip-on gear mechanism with feather key connection in accordance with DIN 6885



Slip-on gear mechanism		
Model	Manufacturer	Shaft journal

FA 57 / KA 57 FA 67 / KA 67 SA 67	SEW	Ø 40
SK 3282 AB	NORD	
FDA 68 B FZA 68 B KA 68 / CA 68	SIEMENS (FLENDER)	
O 62..G O 63..G K 63..G C 62..G	SIEMENS	
K4..A	STÖBER	
SPZH 36.. SKZH 36..	PREMIUM STEPHAN	

FA 77 KA 77 SA 77	SEW	Ø 50
SK 4282 AB	NORD	
FDA 88 B FZA 88 B KA 88 CA 88	SIEMENS (FLENDER)	
O 82..G O 83..G K 83..G C 82..G	SIEMENS	
GFL 07..H GKS 07..H GSS 07..H	LENZE	
K 5..A K 6..A	STÖBER	
SPZH 46.. SKZH 46..	PREMIUM STEPHAN	

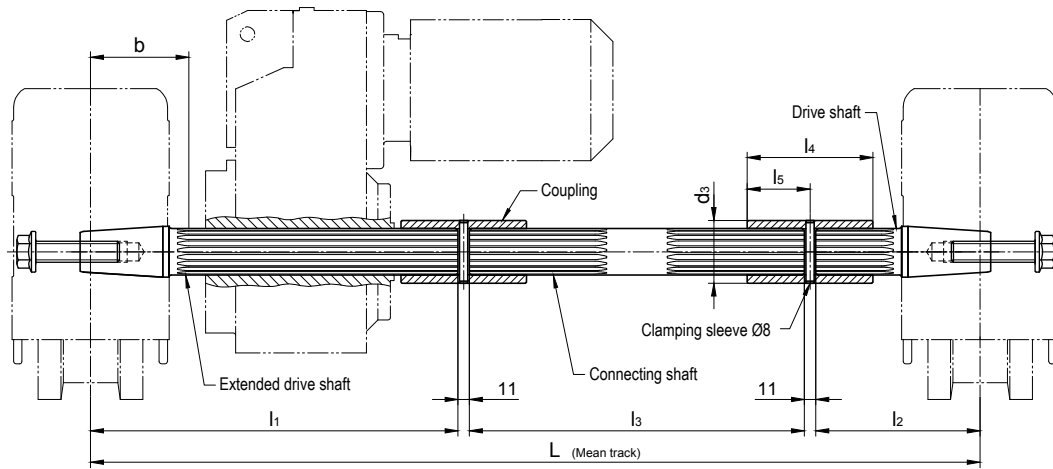
# Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

## Central drive unit

Both wheel blocks are driven with only one gear motor

(Splined-shaft profile, feather key connection and shrink disc attachment)



Model	Manufacturer	Splined-shaft-profile DIN 5480	L	l1	l2	l3	Centre RB to gearing b	l4	l5	d3	Clamping sleeve DIN 1481
AF 05 AUK 30/ WUK 30	DEMAG	W35 x 2 x 16	For ordering, please provide	350	225	Dimension L minus 597	105	100	50	50	8 x 50
FV 47 / KV 47 FV 57 / KV 57	SEW										
SK 2282 EA	NORD										
SPZT 26.. SKZT 26..	PREMIUM STEPHAN	W40 x 2 x 18		350	148	Dimension L minus 520	105	100	50	55	8 x 55
F.A.T 48 B KA.T 48 CA.T 48	SIEMENS (FLENDER)										
SK 3282 EA SK 9023.1A.EA	NORD										
AF 06 / AF 08 AUK 40	DEMAG	W45 x 2 x 21		351	157	Dimension L minus 530	105	120	60	60	8 x 60
FV 67 KV 67	SEW										
SPZT 36.. SKZT 36..	PREMIUM STEPHAN										
AF 08 AUK 50	DEMAG	W50 x 2 x 24		400	158	Dimension L minus 580	110	120	60	65	8 x 65
FV 77 KV 77	SEW										
SK 4282 EA SK 9033.1A.EA	NORD										
F.A.T 68 B KA.T 68 CA.T 68	SIEMENS (FLENDER)										
SPZT 46.. SKZT 46..	PREMIUM STEPHAN										

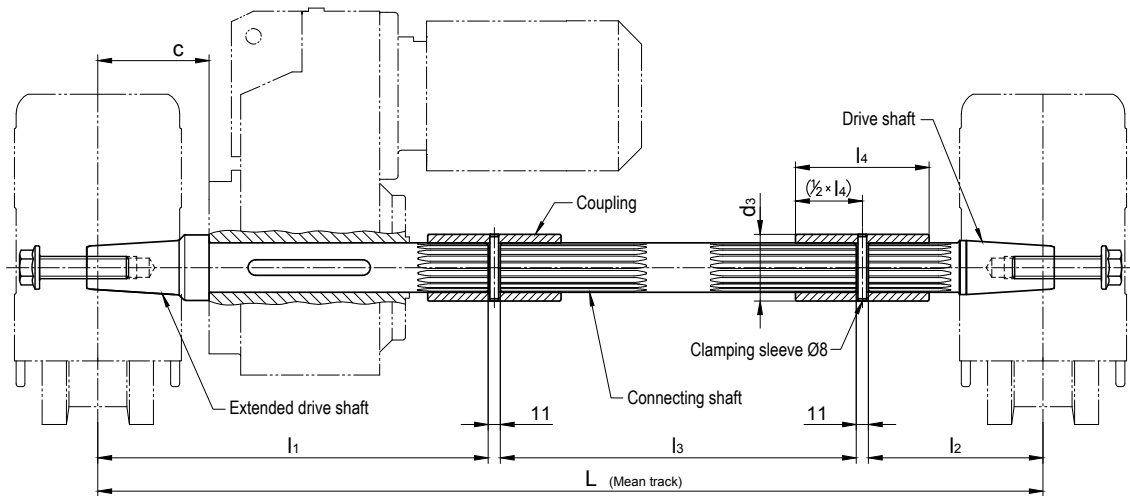


# Wheel block RB 250-V

Drive shafts suitable for slip-on gear mechanisms from other manufacturers on request.

## Central drive unit

Both wheel blocks are driven with only one gear motor  
(Splined-shaft profile, feather key connection and shrink disc attachment)



For gearboxes with hollow shaft and feather key connection in acc. with DIN 6885

Suitable for gearboxes with hollow shaft		L	I1	I2	I3	c gearbox stop	Feather key DIN 6885	Coupling Internal gearing/ d3 x l4
Inner-Ø	Length							
Ø 35	≤ 150	<b>For ordering, please provide</b>	330	225	Dimension L minus 577	110	A 10 x 8 x 70	N35 x 2 x 16 Ø 50 x 100
Ø 40	≤ 180		350	148	Dimension L minus 520	110	A 12 x 8 x 100	N40 x 2 x 18 Ø 55 x 100
Ø 50	≤ 210		400	158	Dimension L minus 580	120	A 14 x 9 x 110	N50 x 2 x 24 Ø 60 x 120
Ø 60 *	≤ 240		430	158	Dimension L minus 610	120	A 18 x 11 x 125	N60 x 2 x 28 Ø 75 x 125

Suitable for gearboxes of the following manufacturers:

Siemens Motox (Flender), Bauer (Danfoss), KEB, Lenze, Nord, PREMIUM STEPHAN, SEW, Siemens, Stöber, Demag

Et.al. suitable type designations, refer to the single drive unit.

Drive shafts without gearbox stop and with adapted distance (c) on request.

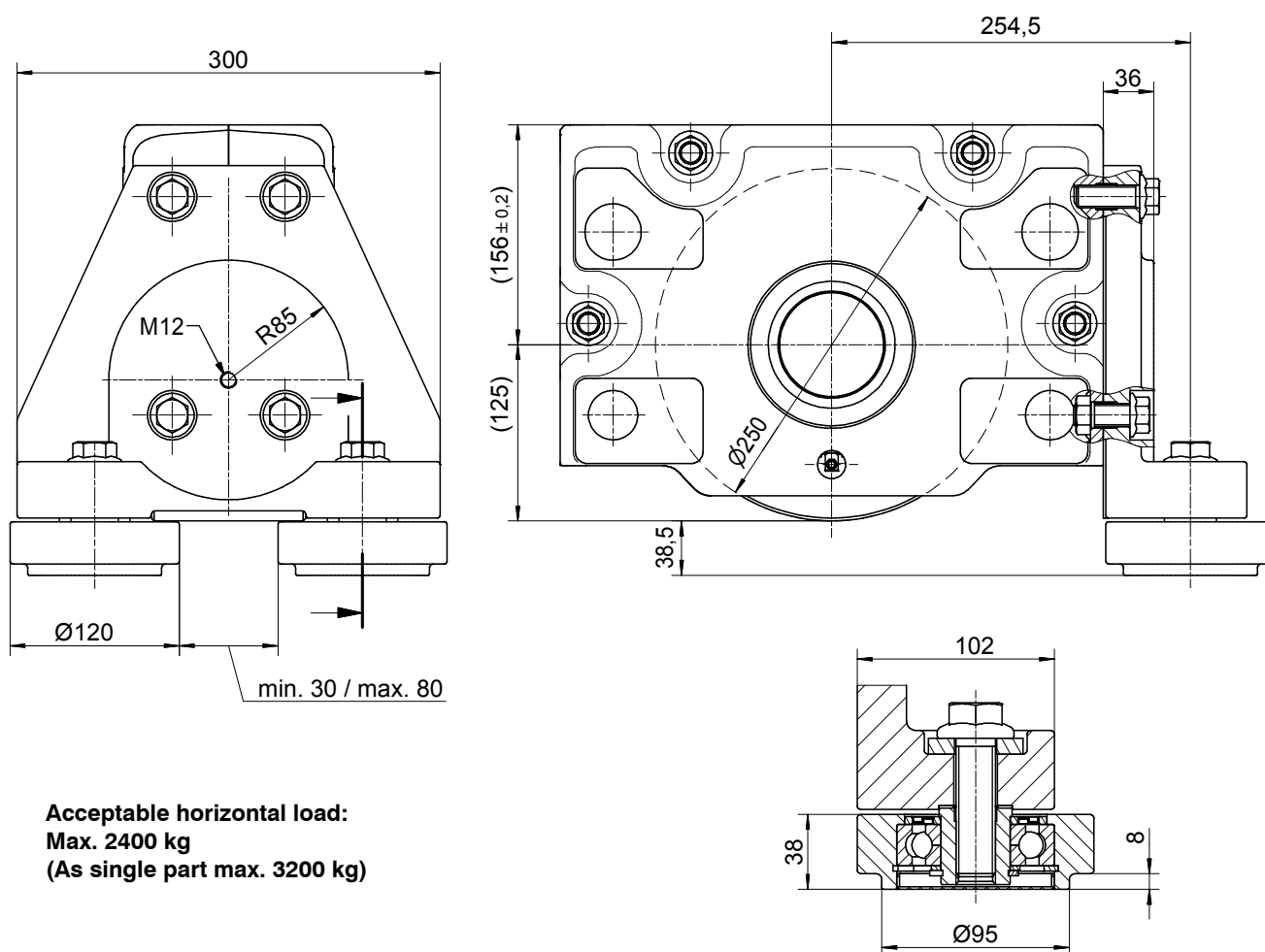
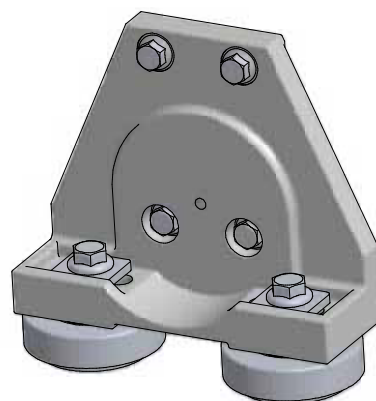
\* Auf Anfrage, mit Angabe des max. Antriebsdrehmomentes.

# Wheel block RB 250-V

## Horizontal roller guide for wheels of $\varnothing 250$ (Form 1-5)

Horizontal roller guide with adjustable guide rollers made of 42CrMo4+QT.

The installation of a cellular plastic buffer (page 144) is possible without spacer discs. Parallel operating wheel blocks without horizontal roller guide can be installed with spacer discs for length compensation (see fig.).



**Acceptable horizontal load:**  
Max. 2400 kg  
(As single part max. 3200 kg)

All necessary fastening elements are included in the scope of delivery.

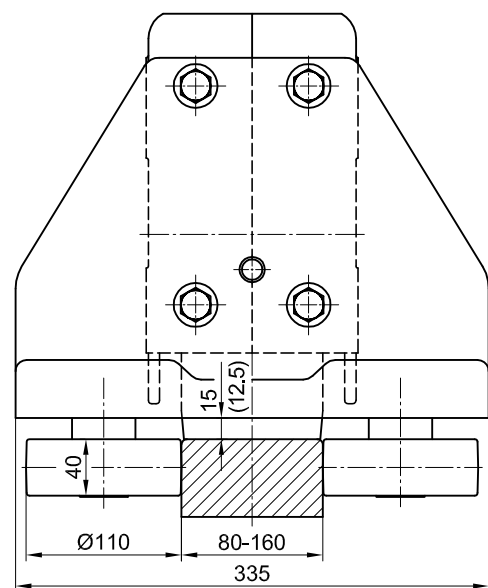
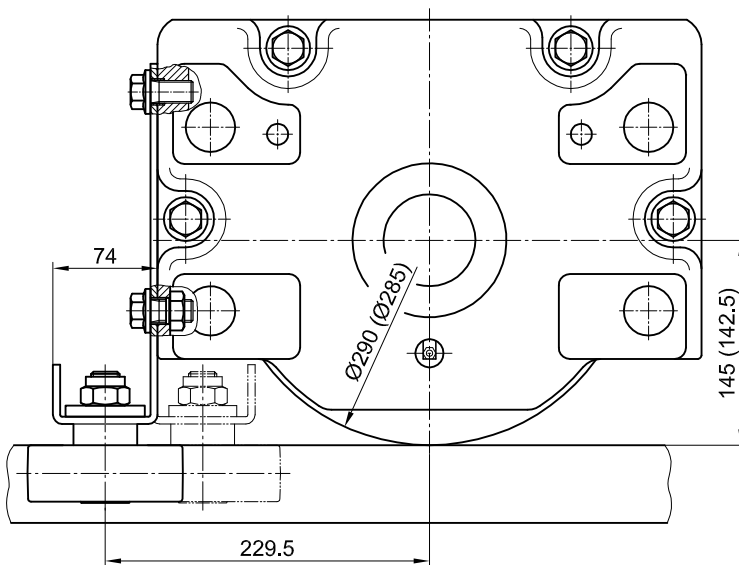
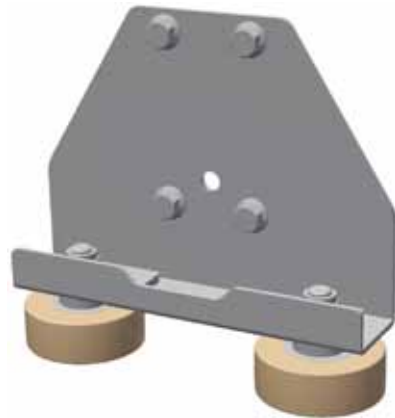
Horizontal roller guide for other rail profiles are available on request.

# Wheel block RB 250-V

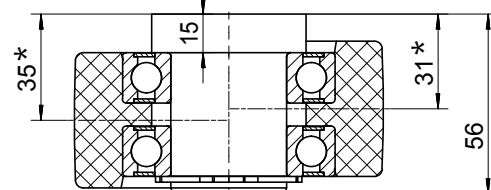
**Horizontal roller guide**  
 for wheels of  $\varnothing 290$  and  $\varnothing 285$   
 with coating made of vulkollan or PA12G

Horizontal roller guide with adjustable guide rollers made of PA12G.

The installation of a cellular plastic buffer is possible by using an additional spacer discs.



Magnified detail drawing of the guide roller



By turning the unsymmetrical guide roller, two clearances\* can be adjusted.

Acceptable continuous load: 700 kg  
 Maximum short-term load: 1100 kg

All necessary fastening elements are included in the scope of delivery.

Horizontal roller guide for other rail profiles are available on request.