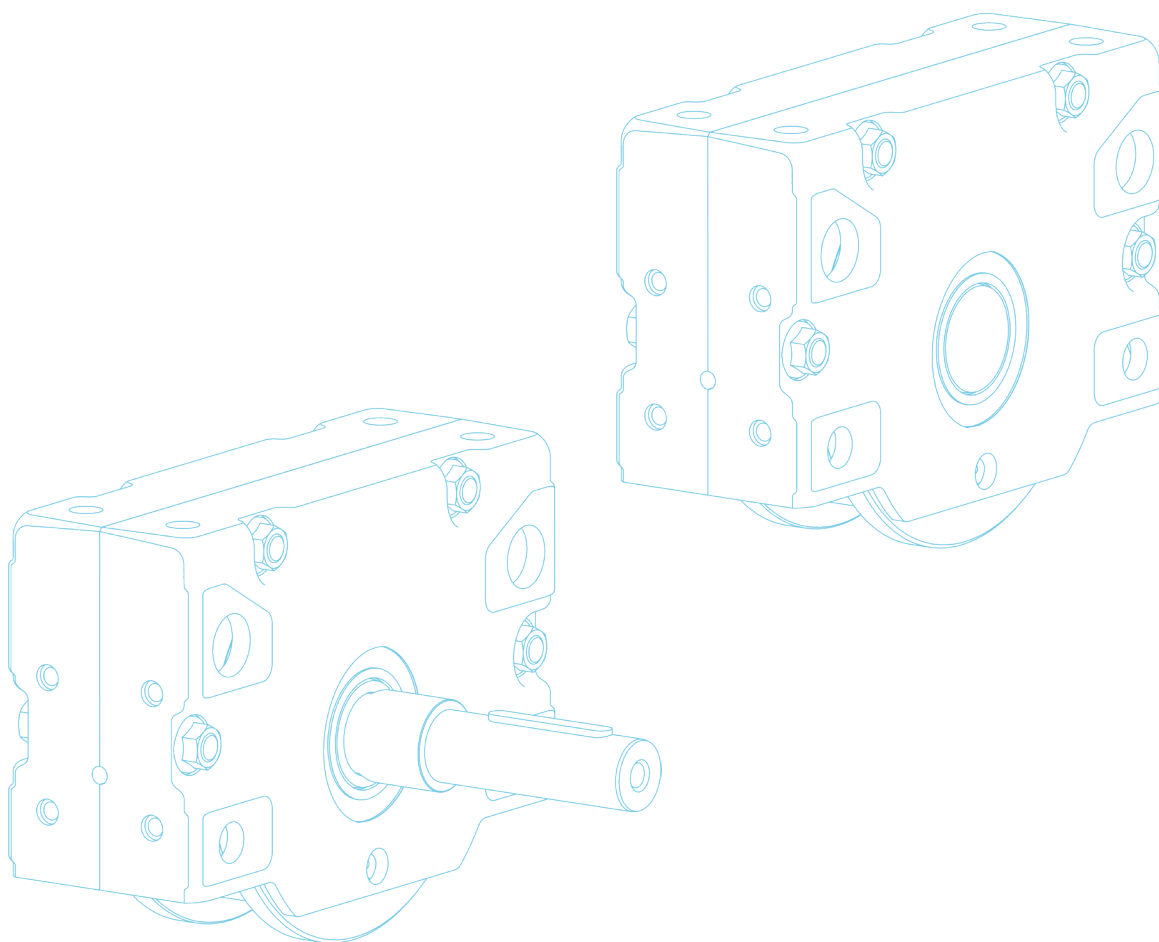


ATLAS

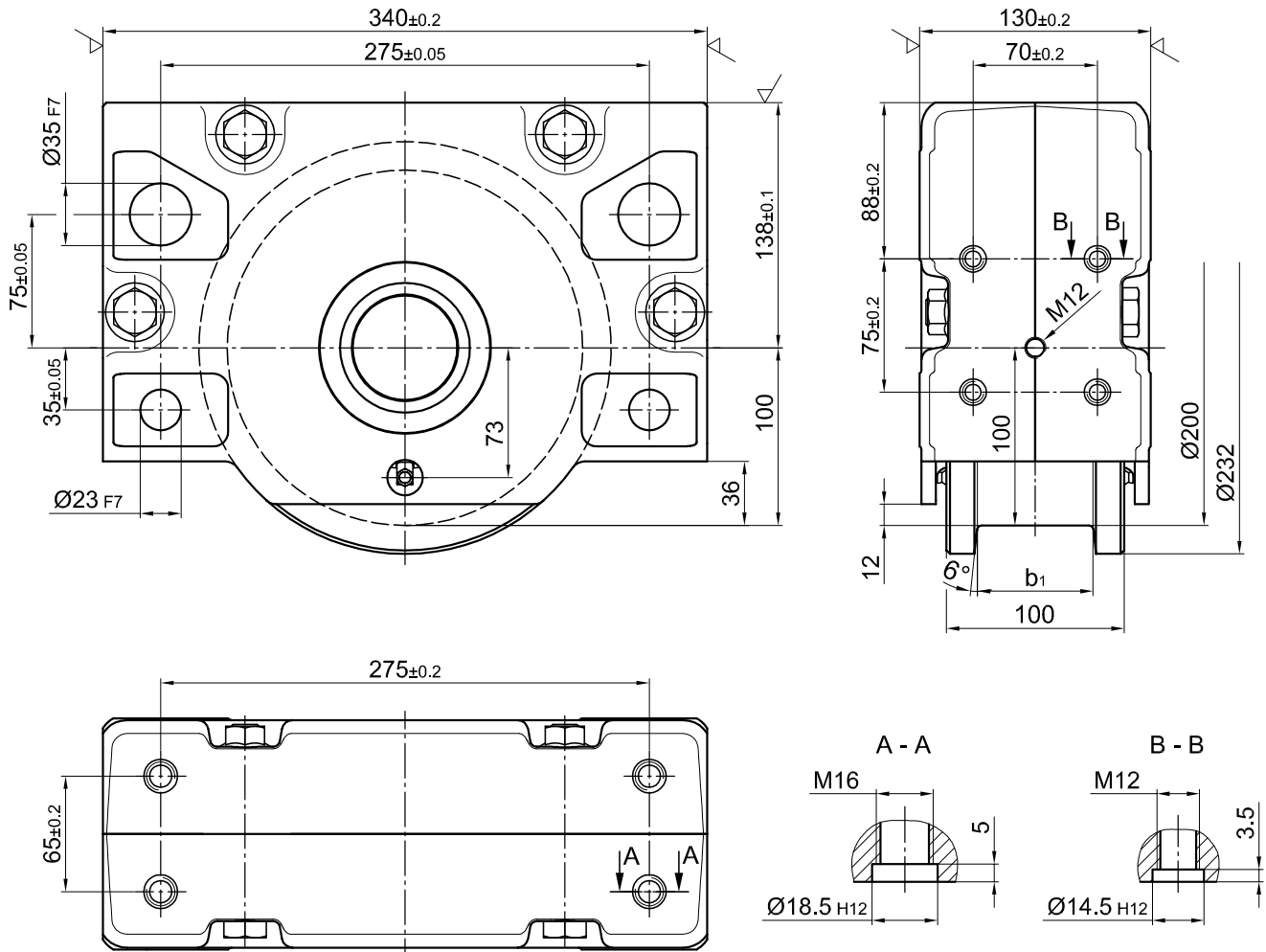
WHEEL BLOCK SYSTEM

RB 200



ATLAS WHEEL BLOCK SYSTEM RB 200

Primary dimensions



Weight: ca. 36 kg
max. wheel load: 10 000 kg

Ordering examples

RBA 200×60

Wheel block 200, driven, with internal taper, with two-sided wheel flange, design Form 1, running tread 60 mm

RBN 200×60

Wheel block 200, not driven, without internal taper, with two-sided wheel flange, design Form 1, running tread 60 mm

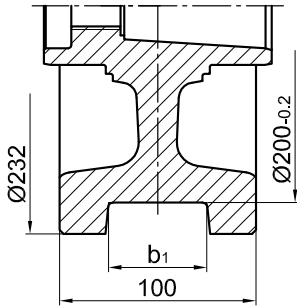
RBA 200×80

Wheel block 200, driven, with internal taper, with one-sided wheel flange, design Form 2, running tread 80 mm

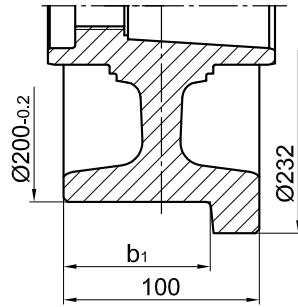
Design RBA and RBN refer to Page 5

ATLAS WHEEL BLOCK SYSTEM RB 200

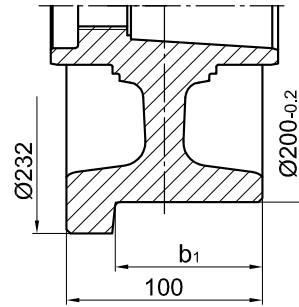
Standard models



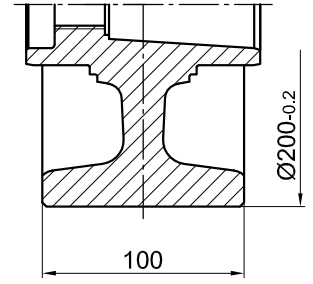
Form 1
two-sided wheel flange



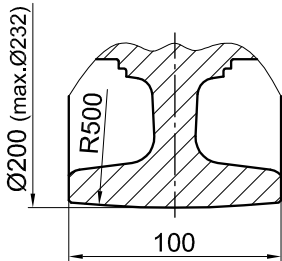
Form 2¹⁾
one-sided wheel flange
on the drive side



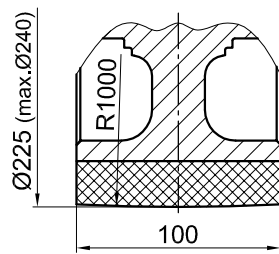
Form 3¹⁾
one-sided wheel flange
opposite to the drive side



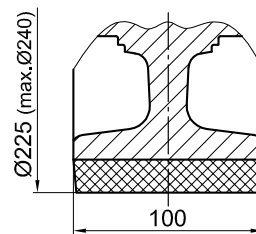
Form 4
no wheel flanges with
cylindrical running surface



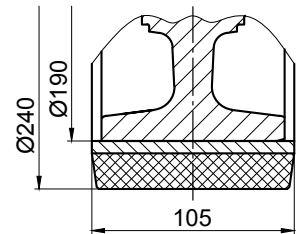
Form 5
no wheel flanges with
spherical running surface



Form 6
with coating
of PA 12 G

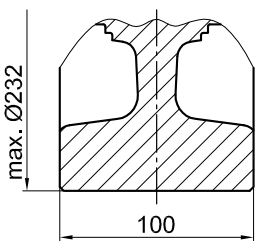


Form 7
with coating
of Vulkollan

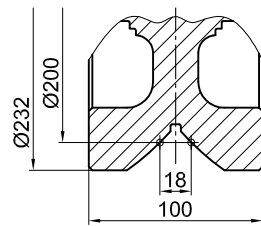


Form 8
with binding
of Vulkollan

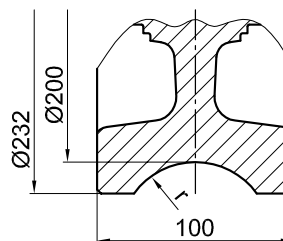
Special models



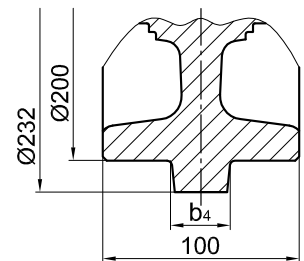
Form 9
no wheel flanges



Form 10
with prismatic guide



Form 11
with concave groove
 $r = 1.1 \times$ track radius
(recommended)



Form 12
with middle wheel flange

Form 1 Running tread b1 for two-sided wheel flange			Form 2 and 3 Running tread b1 for one-sided wheel flange	
minimal	maximal	Standard	minimal	maximal
20	75	65	60	87.5

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

ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Top connection KA 200.1

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

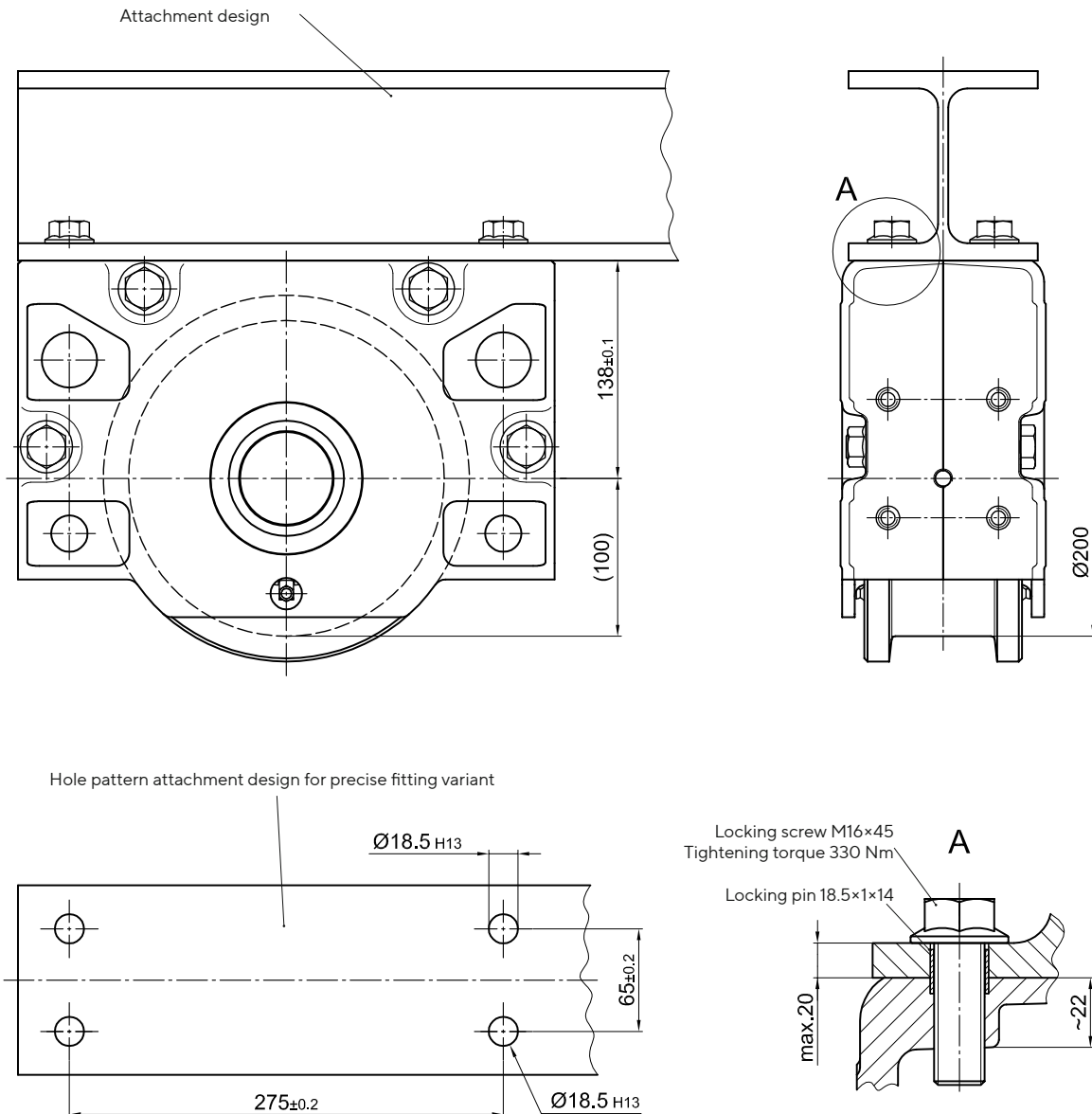
Top connection using locking screws for installation in accurately drilled connecting constructions. No adjustment of the wheel blocks is required.

1 Set KA 200.1 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 200.2 (Page 48).



ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Top connection KA 200.2

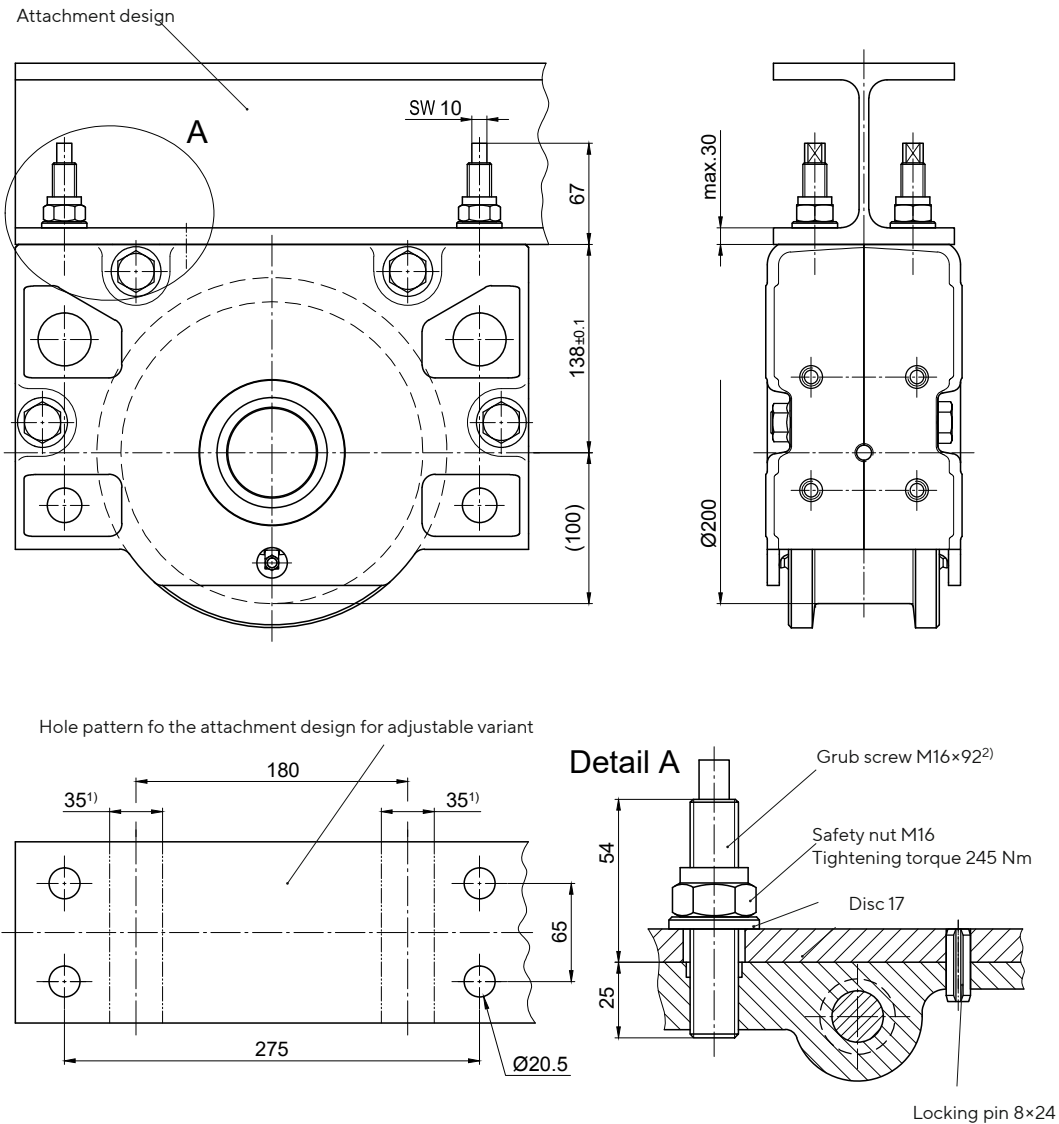
Precisely fitted or adjustable direct attachment as bolted connection (welded construction, roll section, etc.)

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 is prohibited in the area of the attachment bolts [1]. Alignment is not required for precisely drilled attachment holes.

1 Set KA 200.2 comprising of:

- 4 Grub screws M16×92 - 10.9 ZT
- 4 Safety nuts M16-10 DIN EN ISO 7042 (DIN 980)
- 4 Discs 17 DIN EN ISO 7090 (DIN 125)
- 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.



1) Pinning is not permitted in this area!
 2) Can be factory-glued in the wheel block housing on request

ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Pin attachment BA 200.2

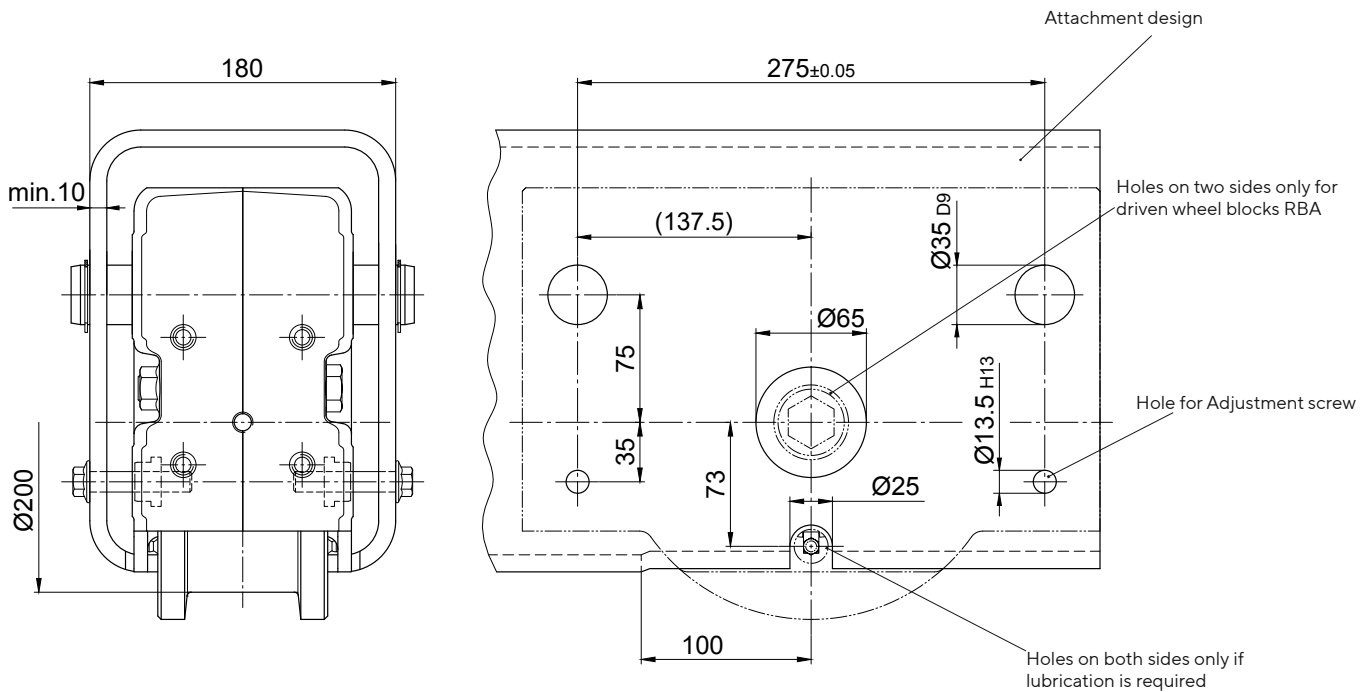
Adjustable pin attachment for installation in hollow profiles, floating levers, etc.

Pin connection with option to align using adjustable hexagon screws. Alignment by releasing or tightening the hexagon screws is carried out in the installed condition.

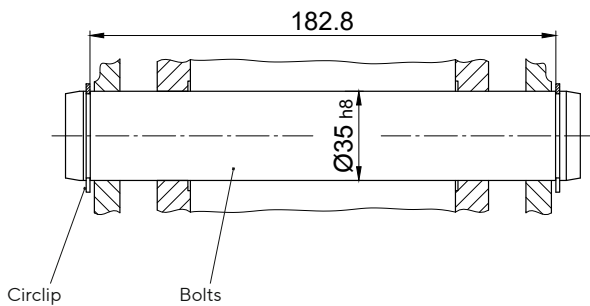
1 Set BA 200.2 comprising of:

- 2 Bolts Ø35
- 4 Circlipsen 35 x 1.5 DIN 471
- 4 Flange bushings with internal thread (bonded)
- 4 Adjustment screwn M 12 x 60 (coated)

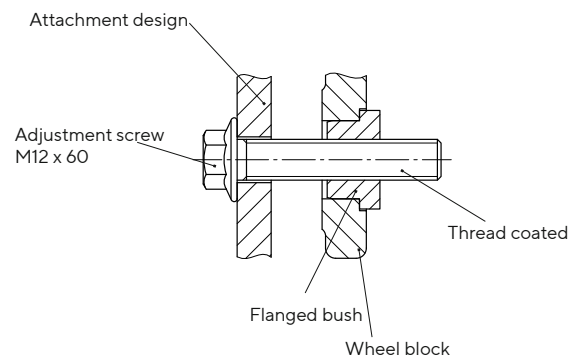
Pin connections are available in special design according to the customer drawing.



Upper suspension mounting



Lower support



ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Pin attachment BA 200.3

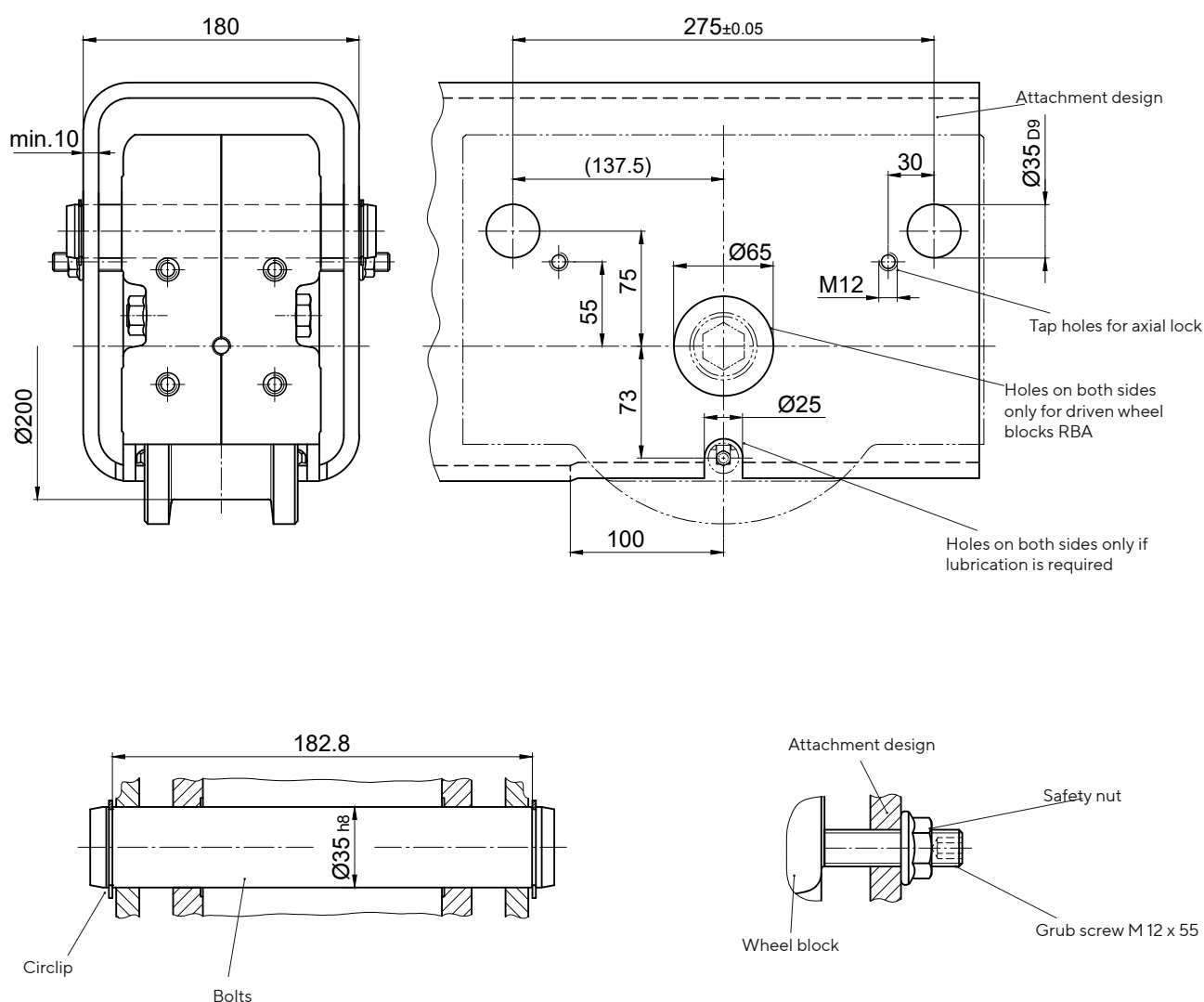
Pin connection adjustable by grub screws for installation in hollow profiles, swingarms, etc.

Pin connection with alignment possibility by adjustable grub screws. The alignment by tightening the grub screws is done in assembly mode.

1 Set BA 200.3 comprising of:

- 2 Bolts Ø35
- 4 Circlipse 35×1.5 DIN 471
- 4 Grub screws with hexagon socket M 12×55-45H DIN EN ISO 4026 (DIN 913)
- 4 Safety nuts M 12-10

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



ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Side connection WA 200

Lateral connection option for low construction designs

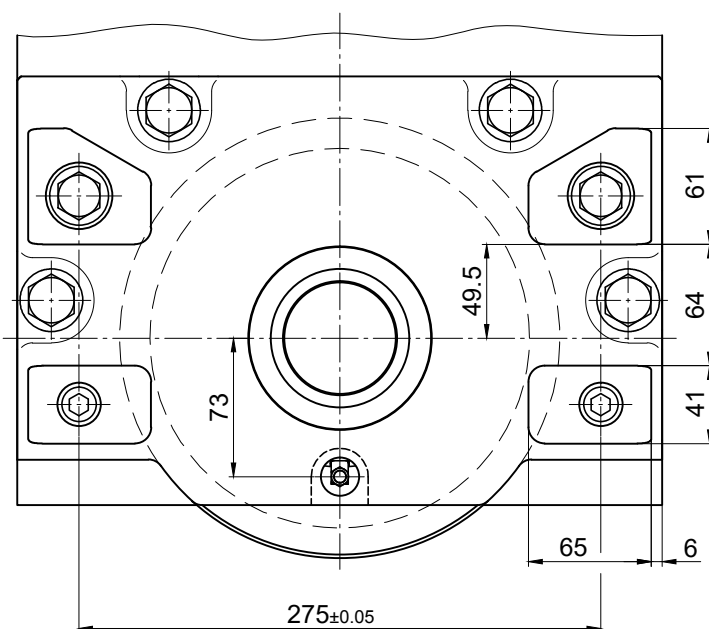
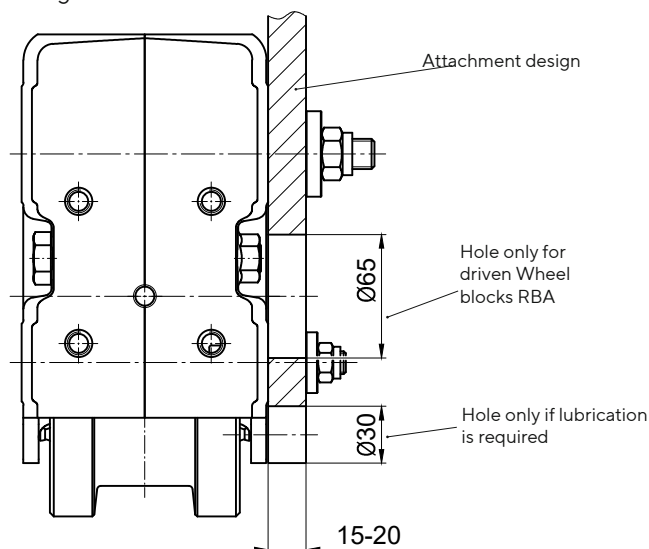
- 1 Set WAA 200** (Side connection on the drive side)
 - 1 Set WAN 200** (Side connection on the non-driven side)
 - 1 Set WA 200** (Side connection on non-driven wheel block RBN)
- comprising of:**

- 2 Flanged bushings Ø35 (bonded)
- 2 Locking screws M16×75 -10.9
- 2 Safety nuts M16 -10 DIN EN ISO 7042 (DIN 980)
- 2 Discs 17 / 45×8

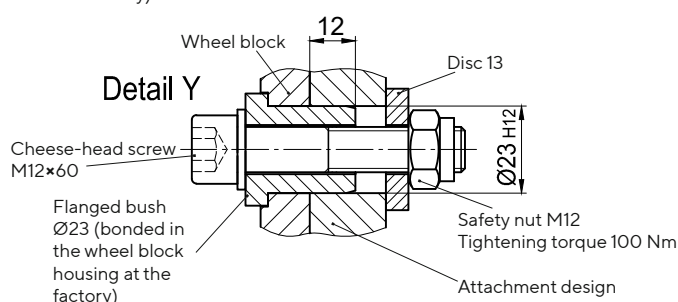
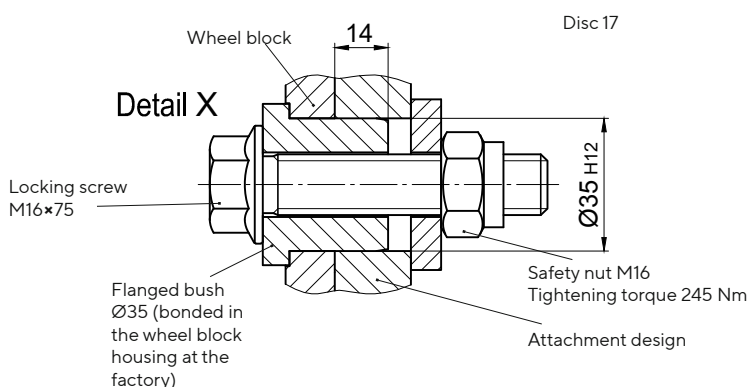
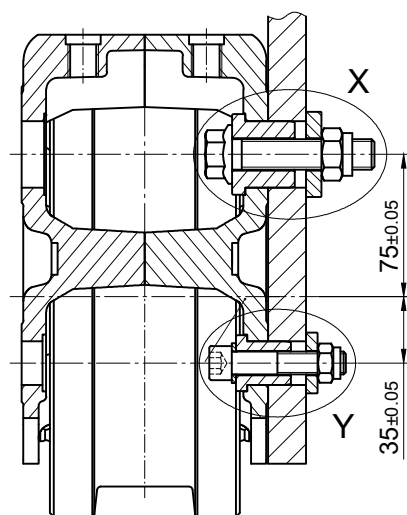
- 2 Flanged bushings Ø23 (bonded)
- 2 Cheese-head screws M12×60 -10.9 DIN EN ISO 4762 (DIN 912)
- 2 Lock washers 12
- 2 Safety nuts M12 -10, DIN EN ISO 7042 (DIN 980)
- 2 Discs 13 / 32×6

Attachment variant 1:

Attachment design is accessible from both sides
Trough-hole Ø35 H12
Trough-hole Ø23 H12



Sectional view



ATLAS WHEEL BLOCK SYSTEM RB 200

Connection options

Side connection WA 200

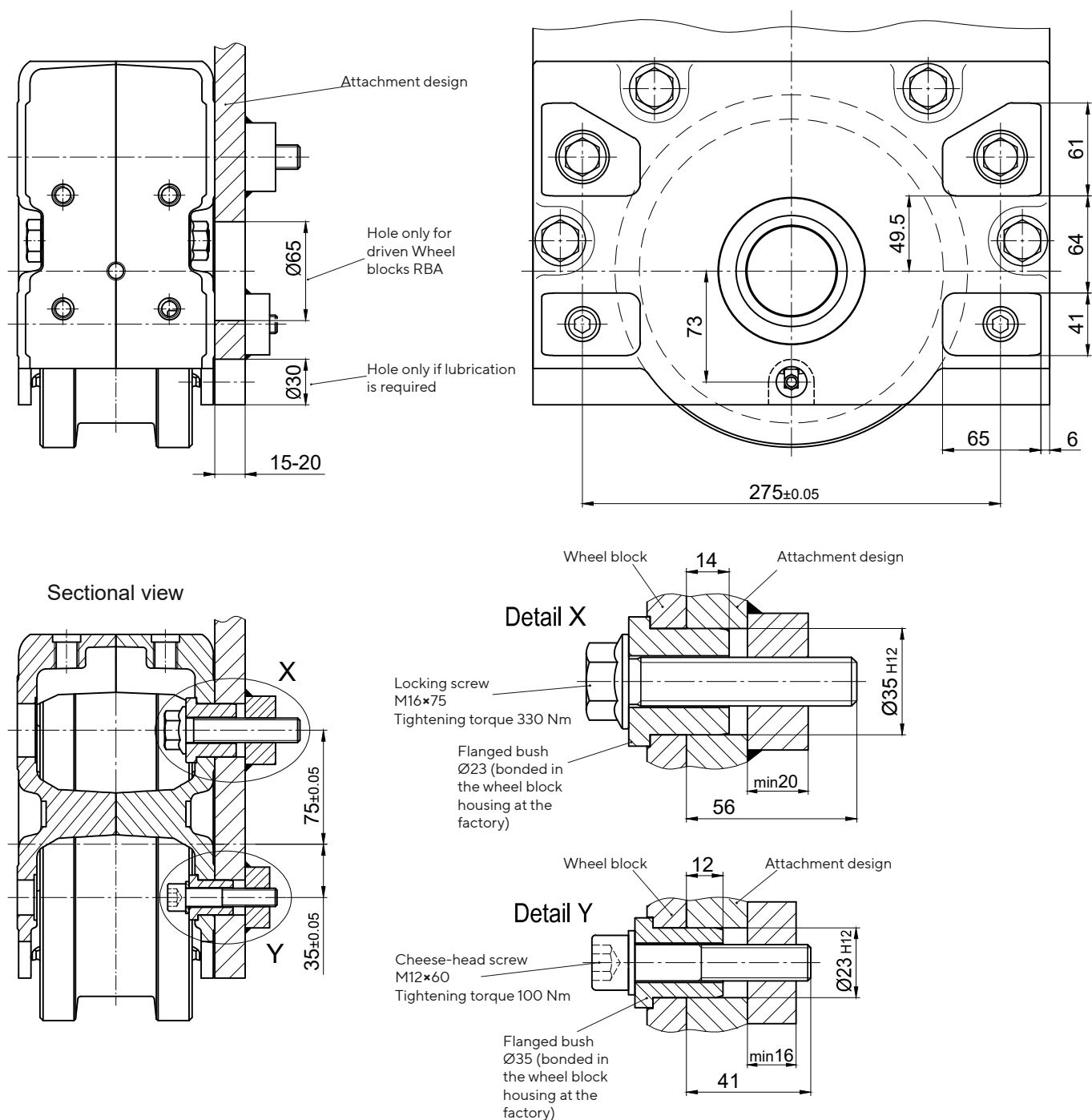
Lateral connection option for low construction designs

Attachment variant 2:

Attachment design (e.g. hollow profile) is not accessible from the inside

Blind hole $\varnothing 35$ H12×15 deep with thread M16

Blind hole $\varnothing 23$ H12×15 deep with thread M12

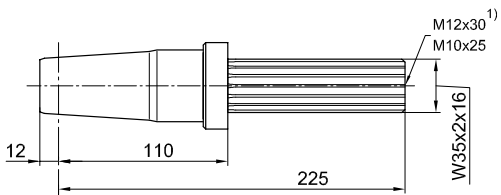
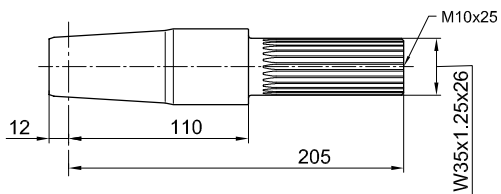
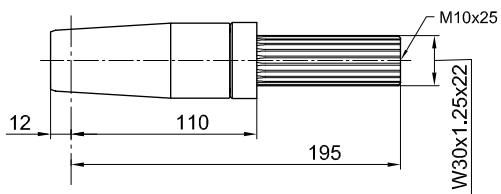


ATLAS WHEEL BLOCK SYSTEM RB 200

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 37 / KV 37	SEW	W30 x 1.25 x 22
SK 1282 EA	NORD	
SPZT 16	PREMIUM STEPHAN	

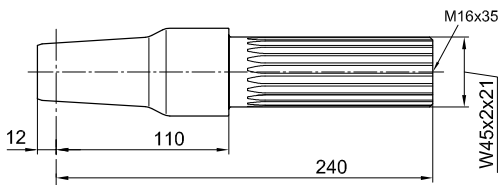
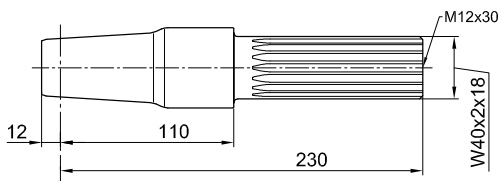
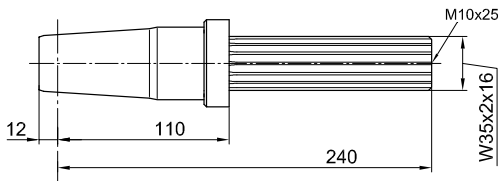
F.A.T 38 B	SIEMENS (FLENDER)	W35 x 1.25 x 26
K.A.T 38		
C.A.T 38		

FV 47 / KV 47	SEW	W35 x 2 x 16
SK 2282 EA ¹⁾	NORD	
SPZT 26..	PREMIUM STEPHAN	
SKZT 26..		

ATLAS WHEEL BLOCK SYSTEM RB 200

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

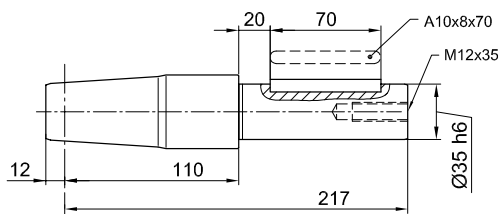
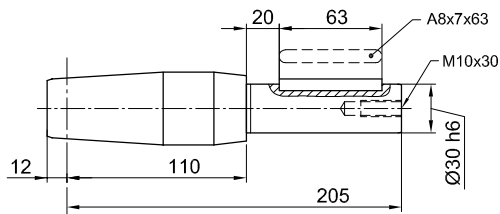
F.A.T 48 B	SIEMENS (FLENDER)	W40 x 2 x 18
K.A.T 48		
C.A.T 48		

FV 67 / KV 67	SEW	W45 x 2 x 21
SPZT / SKZT 36..	PREMIUM STEPHAN	

ATLAS WHEEL BLOCK SYSTEM RB 200

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
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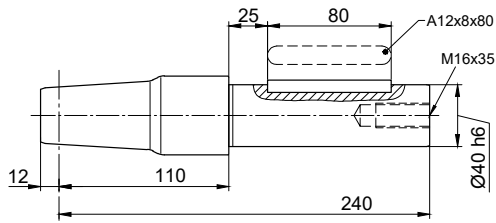
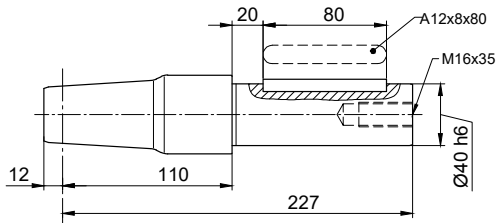
FA 37 / KA 37 SA 47	SEW	Ø30
FDA 38 B FZA 38 B	SIEMENS (FLENDER)	
KA 38 / CA 38		
O 32..H O 33..H K 33..H C 32..H	SIEMENS	
SK 0282 NBAB SK 1282 AB	NORD	
GFL 04..H GKS 04..H GSS 04..H	LENZE	
F3A	STÖBER	

FA 47 / KA 47 SA 57	SEW	Ø35
SK 2282 AB	NORD	
FDA 48B FZA 48B KA 48 / 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	
K3..A S2..A	STÖBER	
SPZH 26.. SKZH 26..	PREMIUM STEPHAN	

ATLAS WHEEL BLOCK SYSTEM RB 200

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
-------	--------------	---------------

FDA 48B FZA 48B KA 48 CA 48	SIEMENS (FLENDER)	Ø40
O 42..H O 43..H K 43..G C 42..G	SIEMENS	
GFL 06..H GKS 06..H GSS 06..H	LENZE	

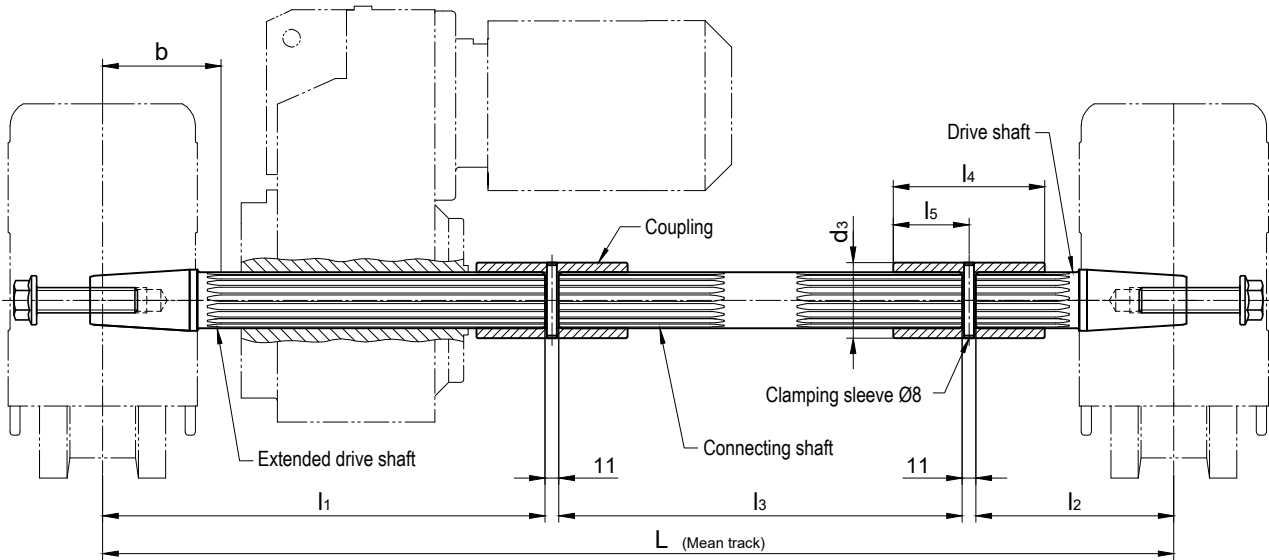
FA 57/FA 67 KA 57/KA 67 SA 67	SEW	Ø40
SK 3282 AB	NORD	
FDA 68B FZA 68B KA 68 CA 68	SIEMENS (FLENDER)	
O 62..G O 63..G K 63..G C 62..G	SIEMENS	
SPZH 36.. SKZH 36..	PREMIUM STEPHAN	
K4..A	STÖBER	

ATLAS WHEEL BLOCK SYSTEM RB 200

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)



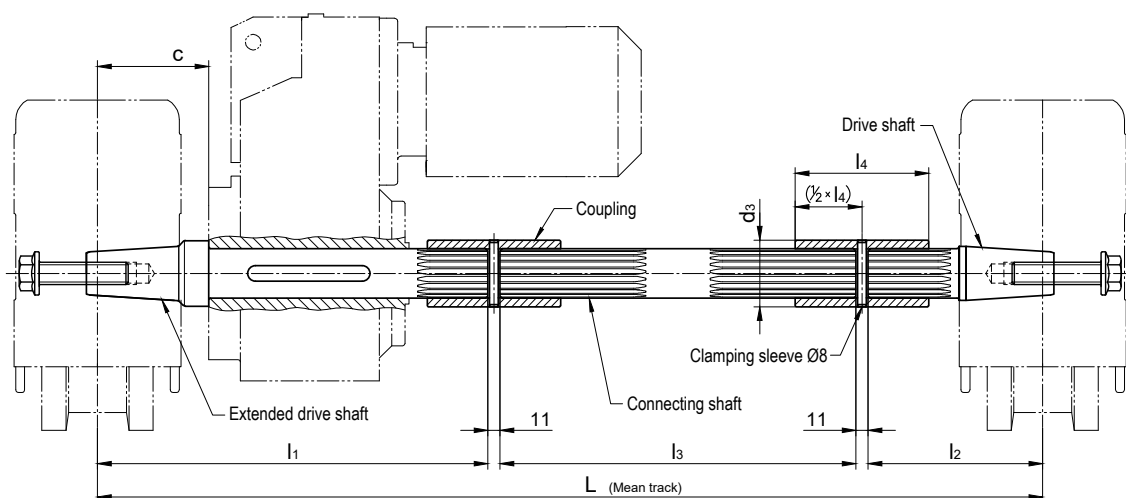
Model	Manufacturer	Splined-shaft-profile DIN 5480	L	l1	l2	l3	Centre RB to gearing b	l4	l5	d3	Clamping sleeve DIN 1481
AF 05 AUK 30/ WUK 30	DEMAG	W35 x 2 x 16	For ordering, please provide	330	138	Dimensi- on L minus 490	90	100	50	50	8 x 50
FV 47 / KV 47 FV 57 / KV 57	SEW										
SK 2282 EA	NORD										
SPZT 26.. SKZT 26..	PREMIUM STEPHAN	W35 x 1.25 x 26		290	138	Dimensi- on L minus 450	90	100	50	50	8 x 50
F.A.T 48 B K.A.T 48 C.A.T 48	FLENDER (SIEMENS)			W40 x 2 x 18	350	148	Dimensi- on L minus 520	90	100	50	55
SK 3282 EA SK 9023.1A.EA	NORD	W45 x 2 x 21			350	148	Dimensi- on L minus 520	90	120	60	60
AF 06 / AF 08 AUK 40	DEMAG										
FV 67 KV 67	SEW										
SPZT 36.. SKZT 36..	PREMIUM STEPHAN										

ATLAS WHEEL BLOCK SYSTEM RB 200

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	l ₁	l ₂	l ₃	c Getriebe- anschlag	Feather key DIN 6885	Coupling Internal gearing/ d3 x l4
Inner-Ø	Length							
Ø30	≤ 150	For ordering, please provide	310	128	Dimension L minus 460	110	A 8 x 7 x 70	N30 x 1,25 x 22 Ø40 x 80
Ø35	≤ 160		330	138	Dimension L minus 490	110	A 10 x 8 x 80	N35 x 2 x 16 Ø50 x 100
Ø40	≤ 180		350	148	Dimension L minus 520	110	A 12 x 8 x 100	N40 x 2 x 18 Ø55 x 100
Ø50	≤ 210		410	148	Dimension L minus 580	120	A 14 x 9 x 110	N45 x 2 x 21 Ø60 x 120

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.

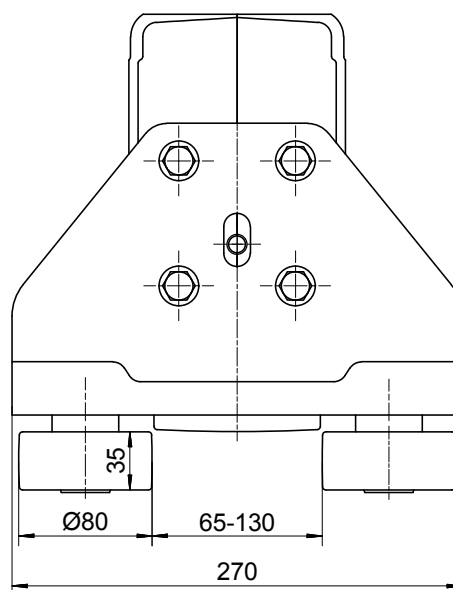
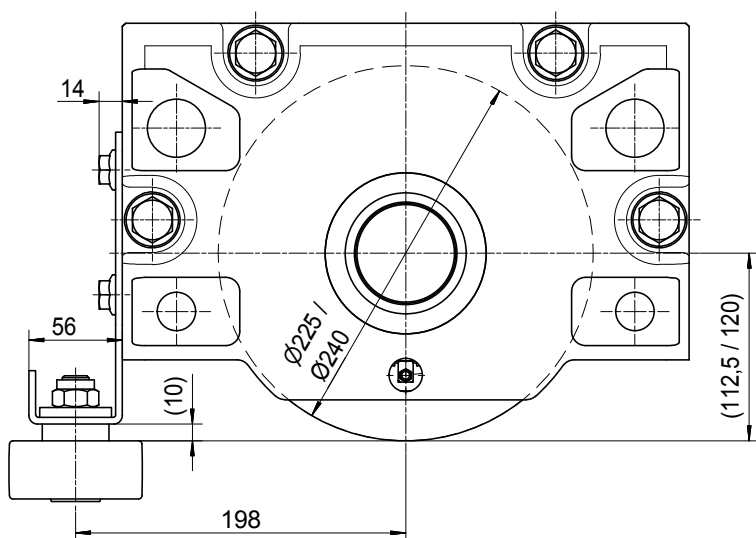
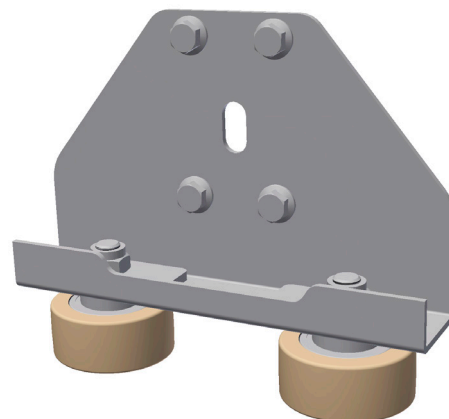
Drive shafts without gearbox stop and with adapted distance (c) on request.

ATLAS WHEEL BLOCK SYSTEM RB 200

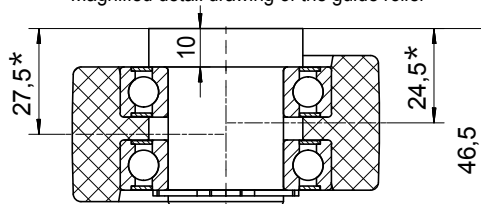
Horizontal roller guide for wheels of $\varnothing 225$ and $\varnothing 240$ with coating made of vulkollan or PA12G

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 horizontal load: max. 480 kg

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

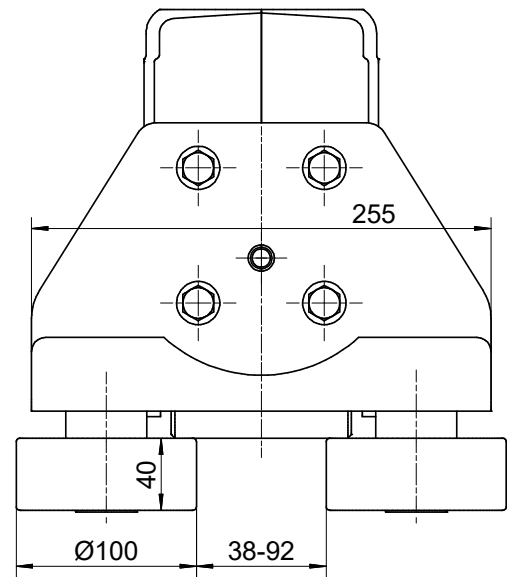
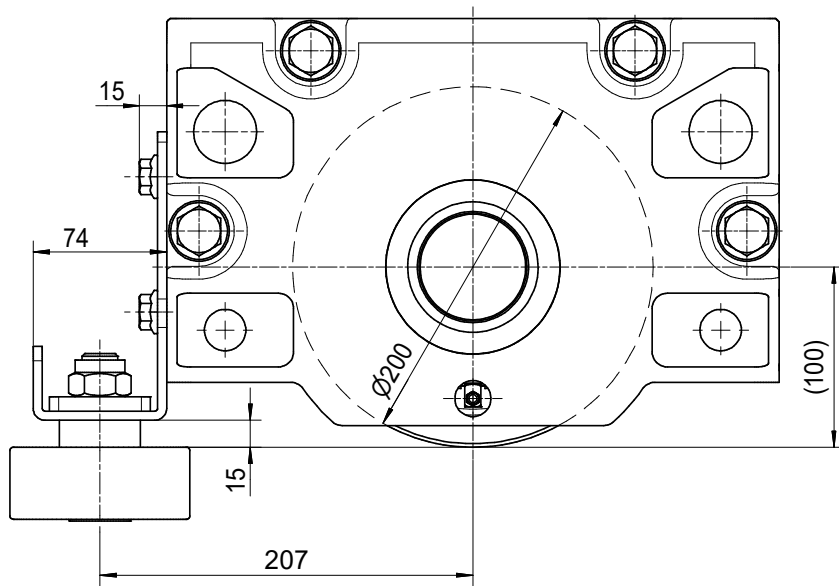
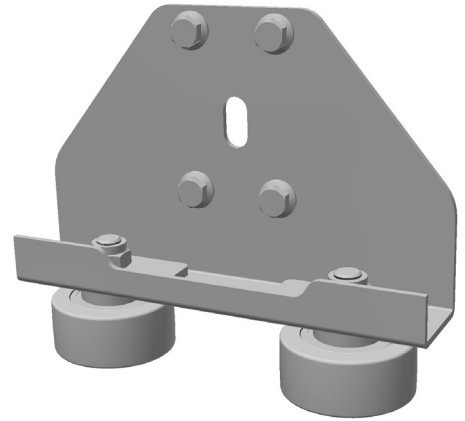
Horizontal roller guide for other rail profiles are available on request.

ATLAS WHEEL BLOCK SYSTEM RB 200

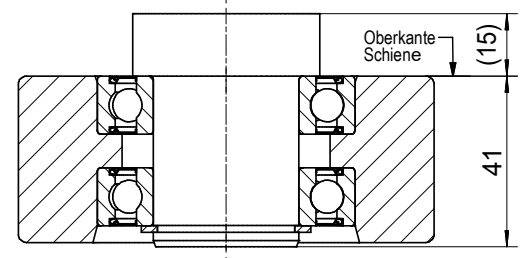
Horizontal roller guide for wheels of Ø200 (Form 1-5)

Horizontal roller guide with adjustable guide rollers made of C45.

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



Vergrößerte Detailzeichnung der Führungsrolle



Acceptable horizontal load: max. 850 kg

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

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