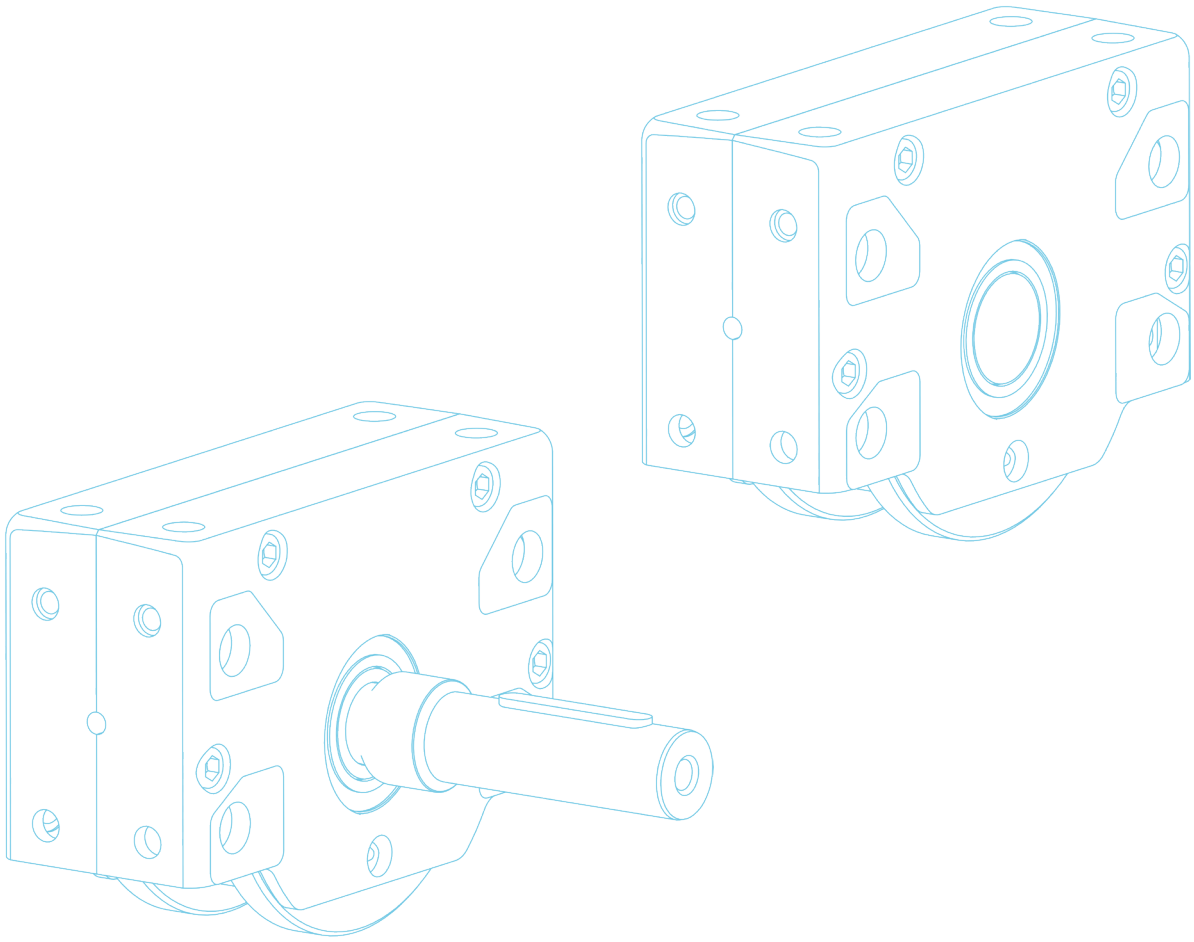
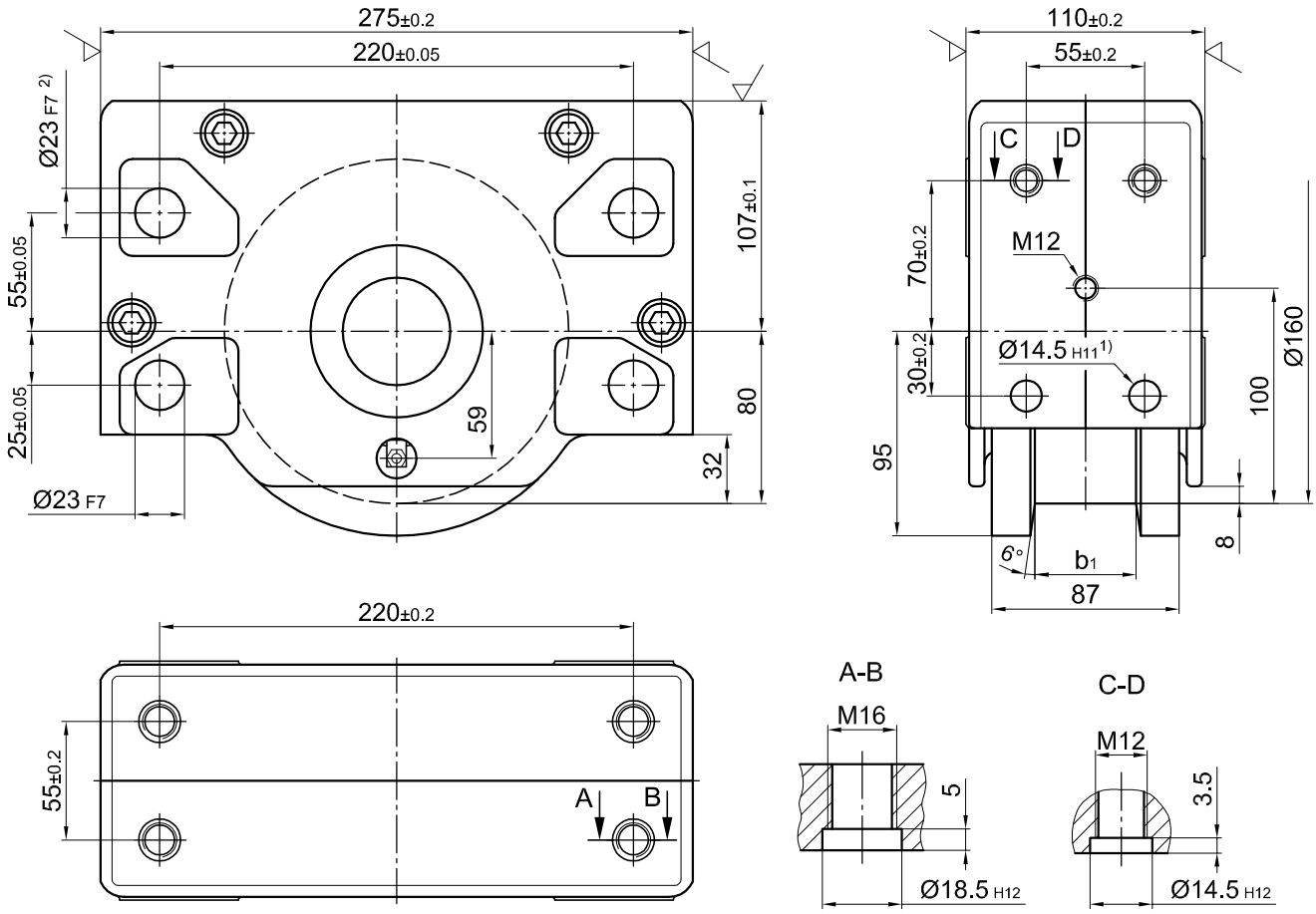
ATLAS

WHEEL BLOCK SYSTEM

RB 160



Primary dimensions



Weight: approx. 22 kg
max. wheel load: 6 800 kg

1) Due to the use of retained nuts M12 in the holes 14.5H11, the threaded connection is attained as in section C-D

2) available with hole Ø30 F8

Ordering examples

RBA 160×47
Wheel block 160, driven, with internal taper, with two-sided wheel flange, design Form 1, running tread 47 mm

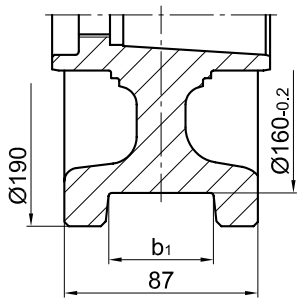
RBN 160×47
Wheel block 160, not driven, without internal taper, with two-sided wheel flange, design Form 1, running tread 47 mm

RBA 160×67
Wheel block 160, driven, with internal taper, with one-sided wheel flange, design Form 2, running tread 67 mm

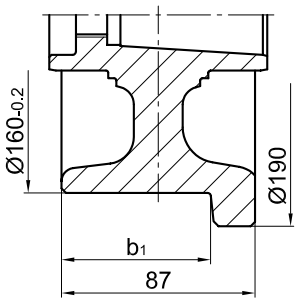
RBA 160
Wheel block 160, driven, with internal taper, with coating of PA12G, design Form 6

Design RBA and RBN, refer to page 5

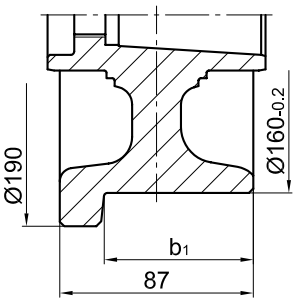
Standard models



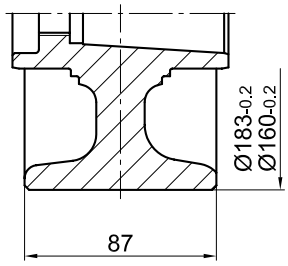
Form 1
two-sided wheel flange



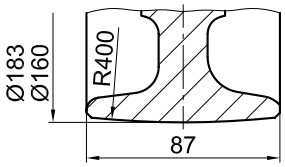
Form 2[1)]
one-sided wheel flange
on the drive side



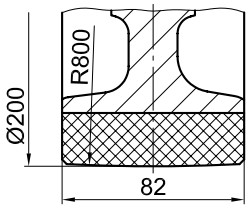
Form 3[1)]
one-sided wheel flange
opposite to the drive side



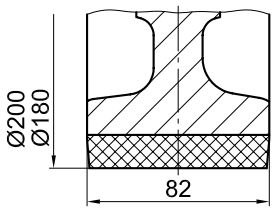
Form 4
no wheel flanges with
cylindrical runnning surface



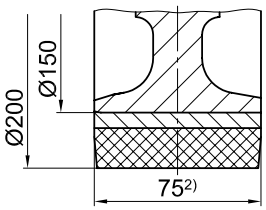
Form 5
no wheel flanges with
spherical running surface



Form 6
with coating
of PA 12 G

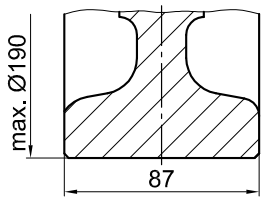


Form 7
with coating
of Vulkollan

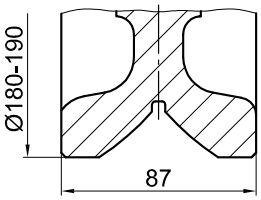


Form 8
with binding
of Vulkollan

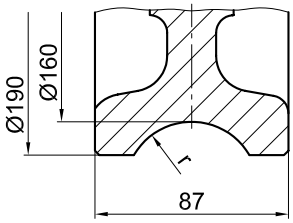
Special models



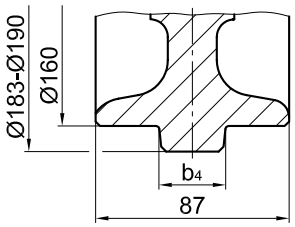
Form 9
no wheel flanges



Form 10
with prismatic guide



Form 11
with concave groove
r = 1.1× 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	68	47, 60	53.5	77.5

1) Forms 2 and 3 are identical for the non-driven wheel block RBN
2) Available in special design up to a wheel width of 85 mm

Top connection KA 160.1

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

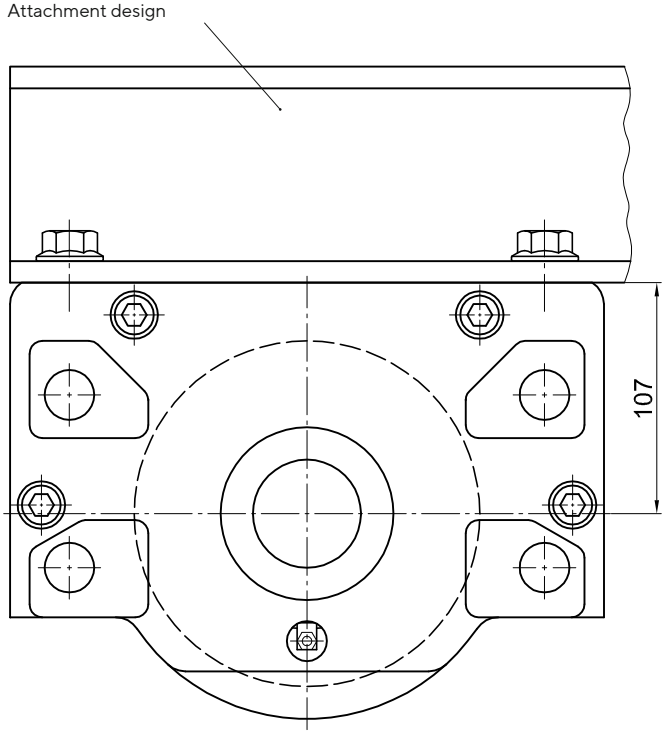
Top connection using locking screws for installation in accurately drilled connecting constructions. No adjustment of the wheel blocks is required.

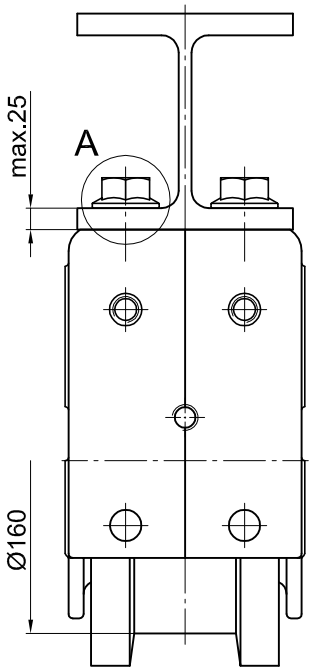
1 Set KA 160.1 comprising of:

4 Locking screws M16×45 –10.9
4 Locking pins 18.5×1×14

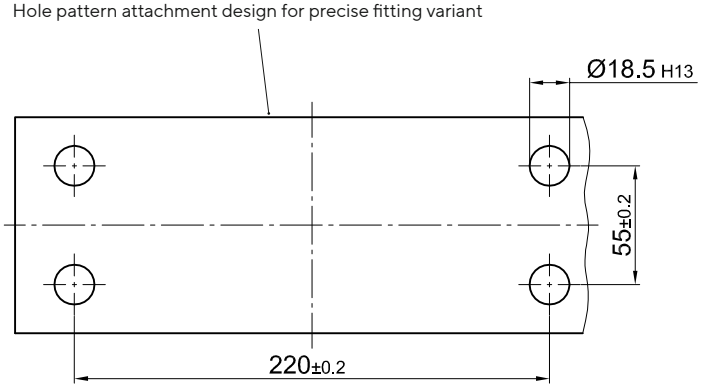
Mounting parts for larger steal plate thicknesses and/or adjustable direct connection are available on request.
For the directional version refer to the pattern of drilling KA160.2 (Page 30).

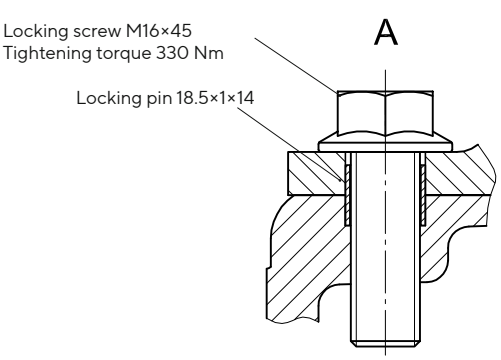
Attachment design





Hole pattern attachment design for precise fitting variant





Top connection KA 160.2

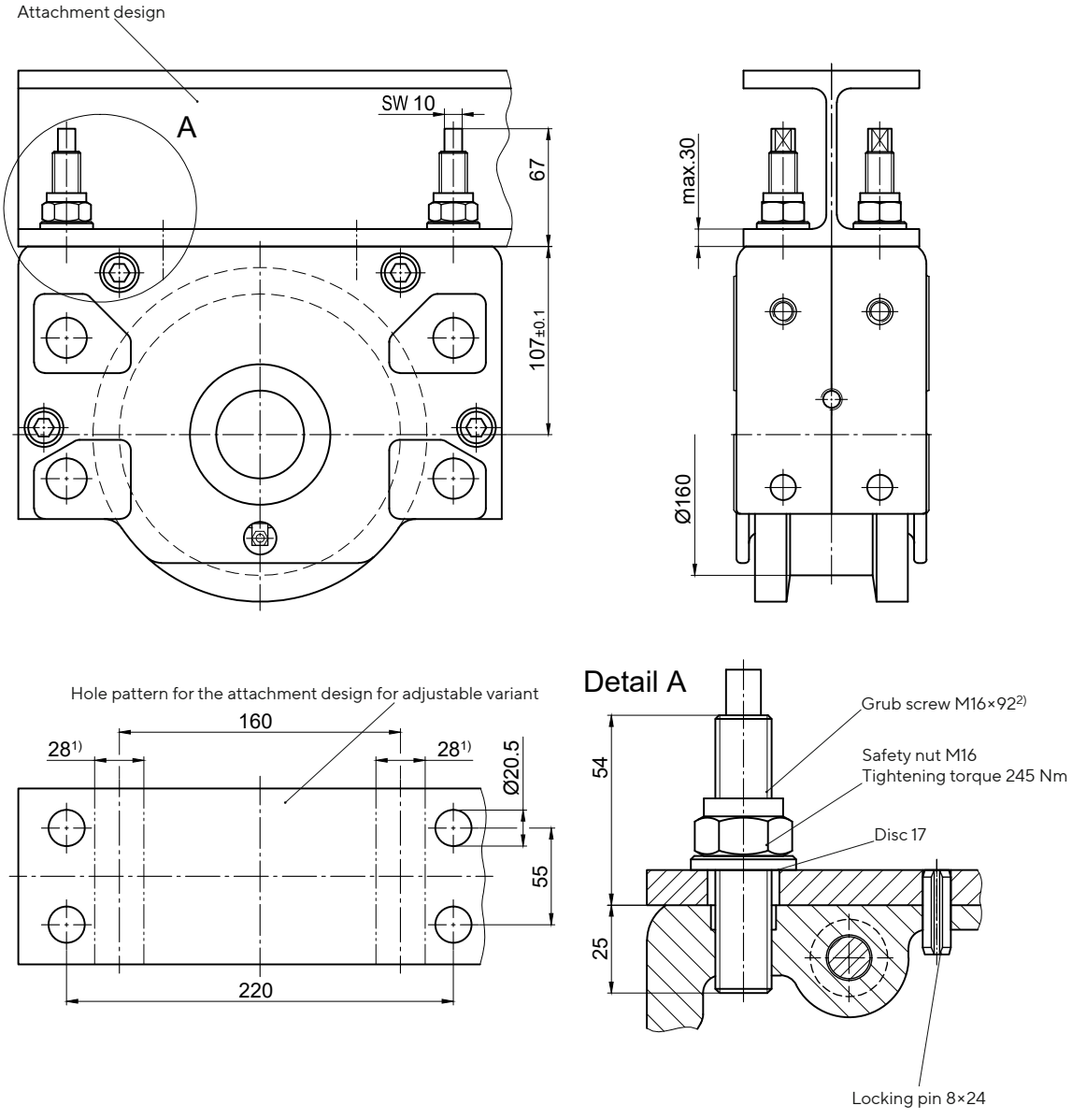
Precisely fitted or adjustable direct attachment as bolted connection (welded construction, roll section, etc.)

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

1 Set KA 160.2 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

Pin attachment BA 160.1

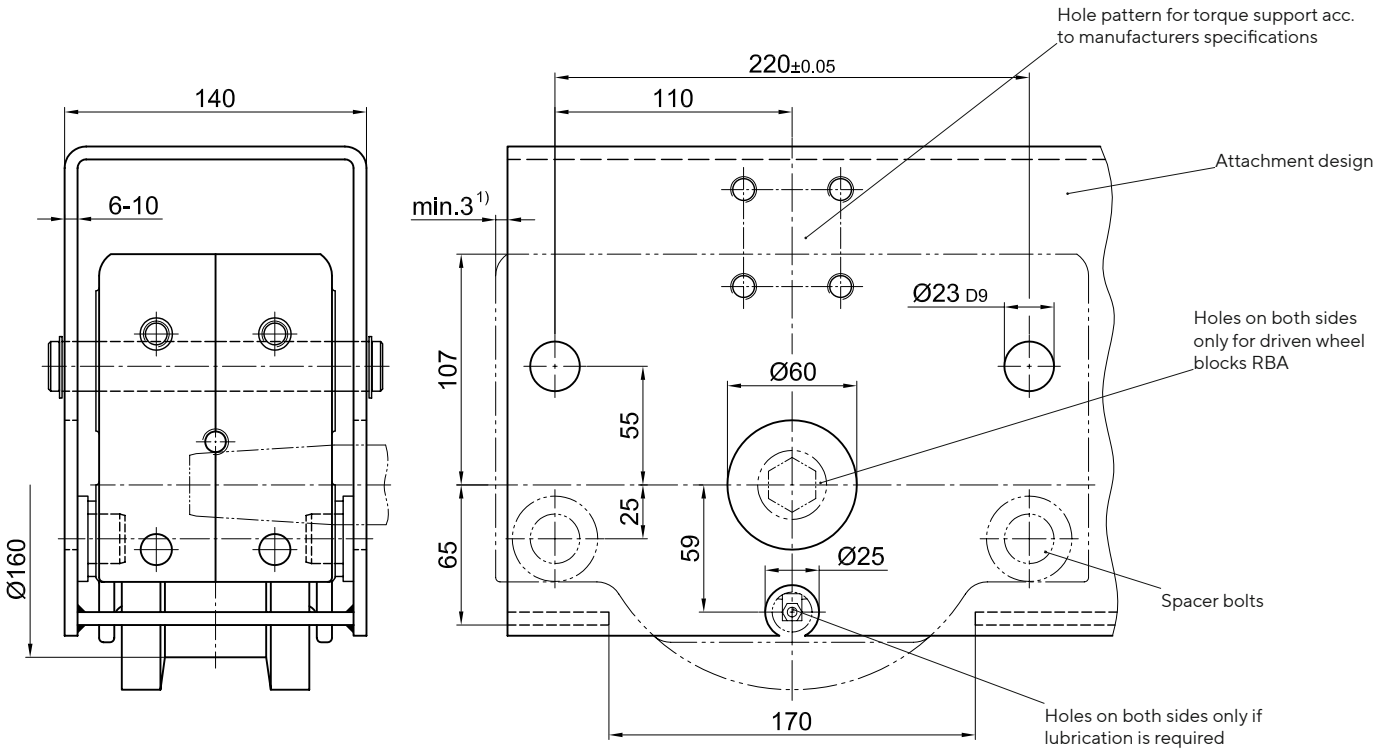
Pin attachment is adapted to the installation in hollow profiles, floating levers, etc. by means of adjusting washers.

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

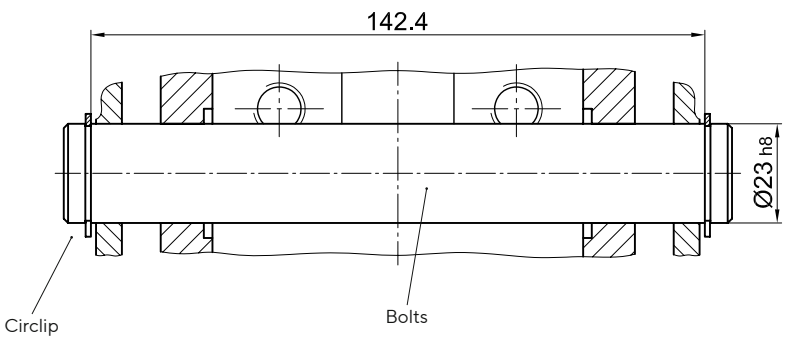
1 Set BA 160.1 comprising of:

2 Bolts Ø23h8
4 Circlipse 23×1.2 DIN 471
4 Spacer bolts
28 Adjusting washers 25×35×0.5 DIN 988

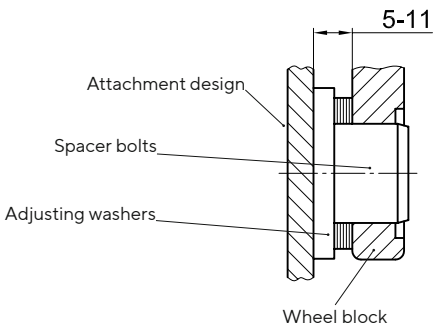
Pin connections are available in special design according to the customer drawing.



Upper suspension mounting



Lower support



1) Dimension must be observed only with front mounting parts

Pin attachment BA 160.2

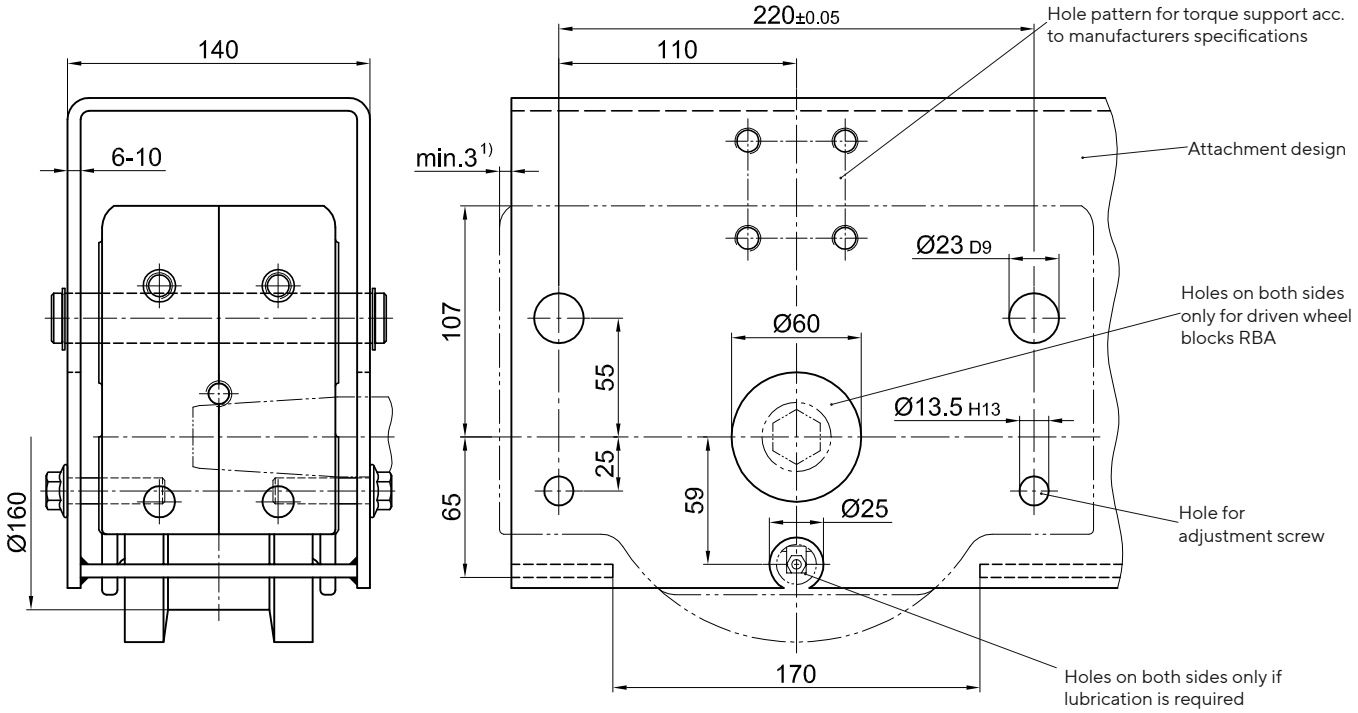
Adjustable pin attachment for installation in hollow profiles, floating levers, etc.

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

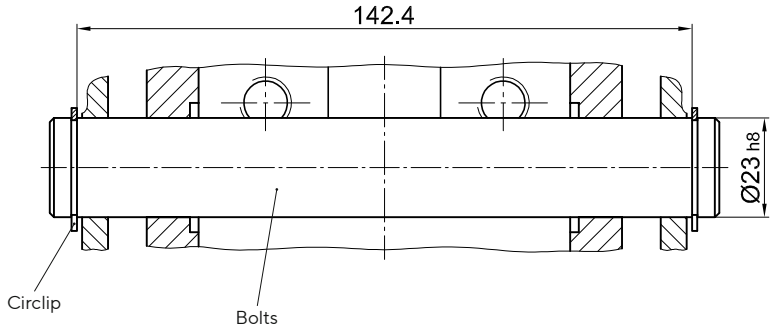
1 Set BA 160.2 comprising of:

2 Bolts Ø23 h8
4 Circlipse 23×1.2 DIN 471
4 Flange bushings with internal thread (bonded)
4 Locking screws M12×45 (coated)

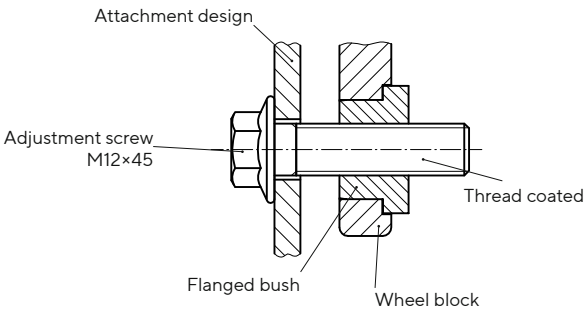
Pin connections are available in special design according to the customer drawing.



Upper suspension mounting



Lower support



1) Dimension must be observed only with front mounting parts

Pin attachment BA 160.3

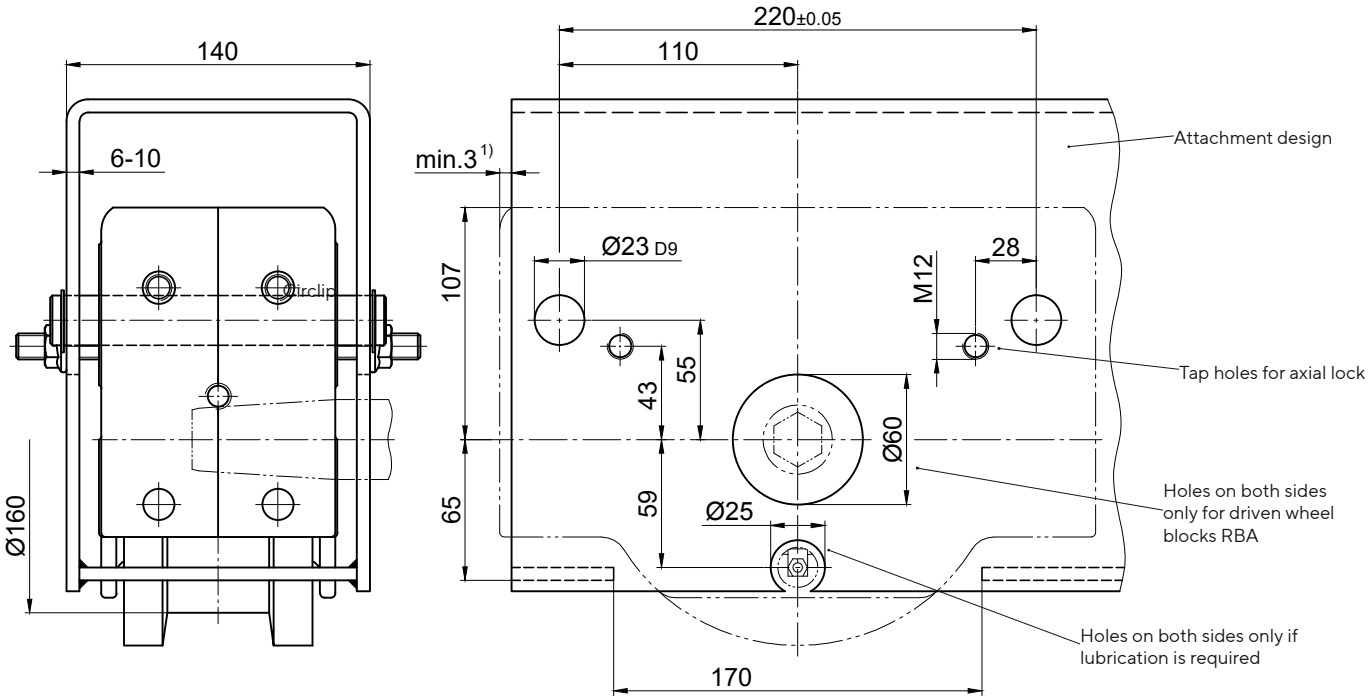
Pin connection adjustable by grub screws for installation in hollow profiles, swingarms, etc.

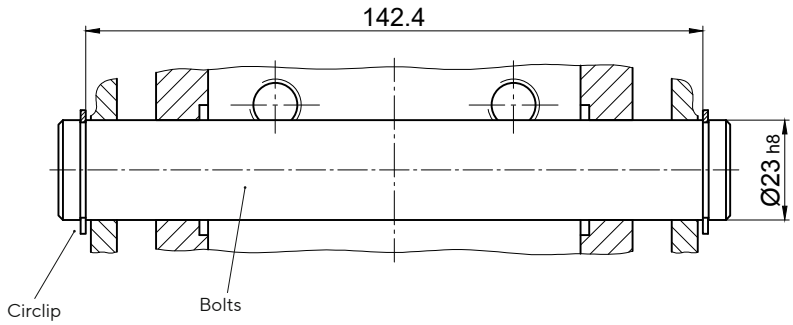
Pin connection with alignment possibility by adjustable grub screws. The alignment is done in assembled and relieved mode.

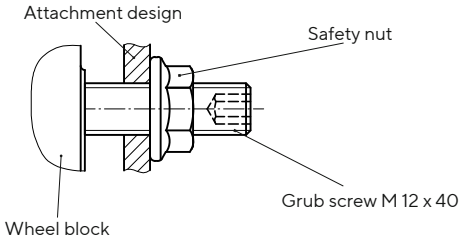
1 Set BA 160.3 comprising of:

2 Bolts Ø23 h8
4 Circlipse 23×1.2 DIN 471
4 Grub screws with hexagon socket M 12×40-45H DIN EN ISO 4026 (DIN 913)
4 Safety nuts M 12-10

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







1) Dimension must be observed only with front mounting parts

Side connection WA 160

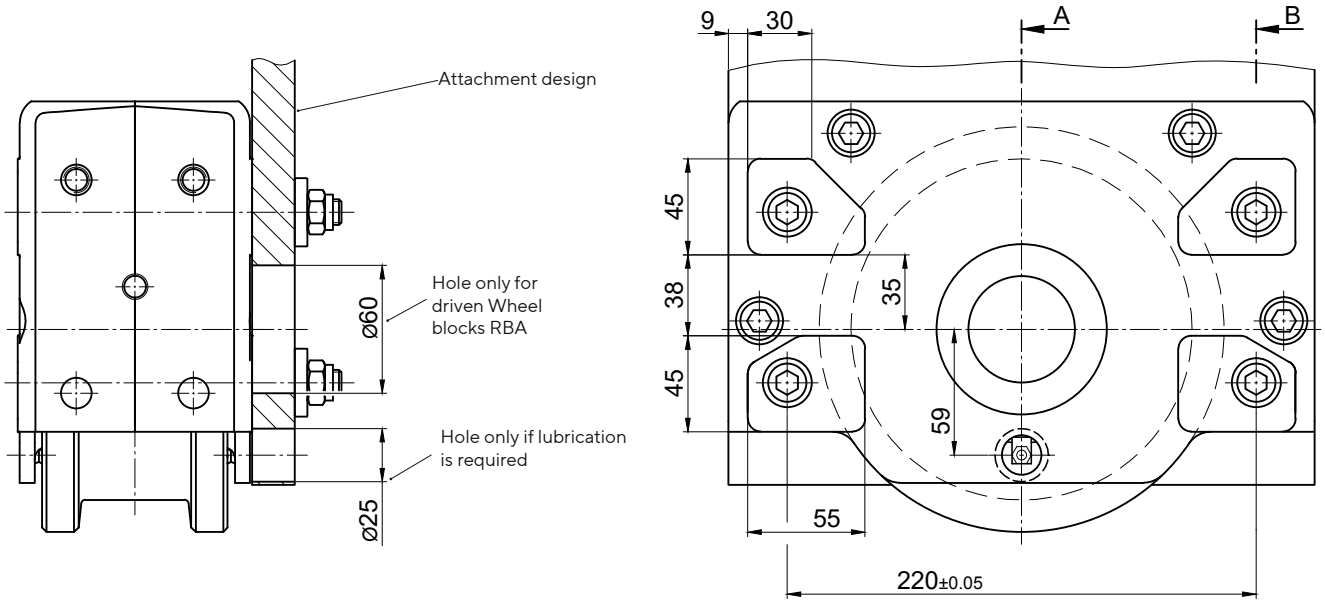
Lateral connection option for low construction designs

1 Set WAA **160** (Side connection on the drive side)
1 Set WAN **160** (Side connection on the non-driven side)
1 Set WA **160** (Side connection on non-driven wheel block RBN)
comprisinf of:

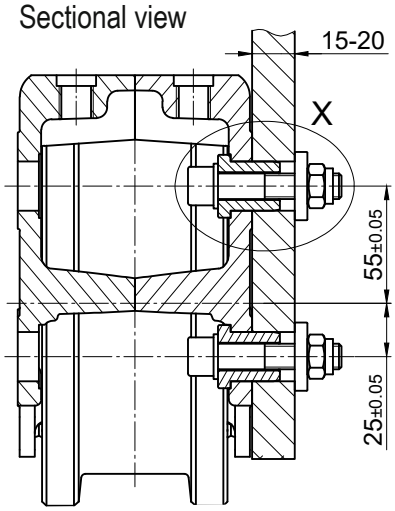
4 Flanged bushings Ø23 (bonded)
4 Cheese-head screws M12×60 –10.9 DIN EN ISO 4762 (DIN 912)
4 Lock washers 12
4 Safety nuts M12 –10, DIN EN ISO 7042 (DIN 980)
4 Discs 13 / 32×6

For wheel design form 6 to 8 (Ø200) the side connection needs to be executed as a special design.

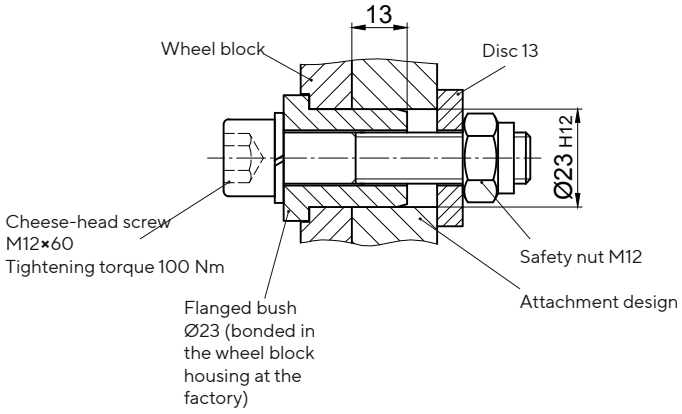
Attachment variant 1:
Attachment design is accessible from both sides
Trough-hole Ø23 H12



Sectional view



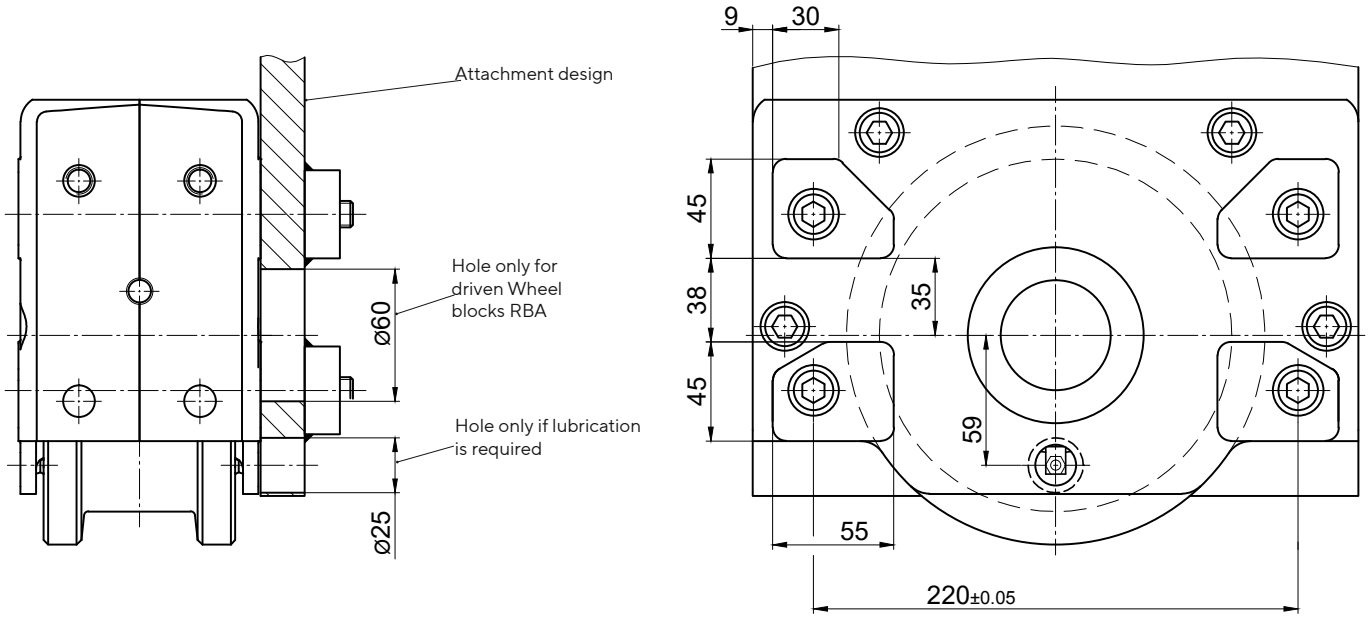
Detail X

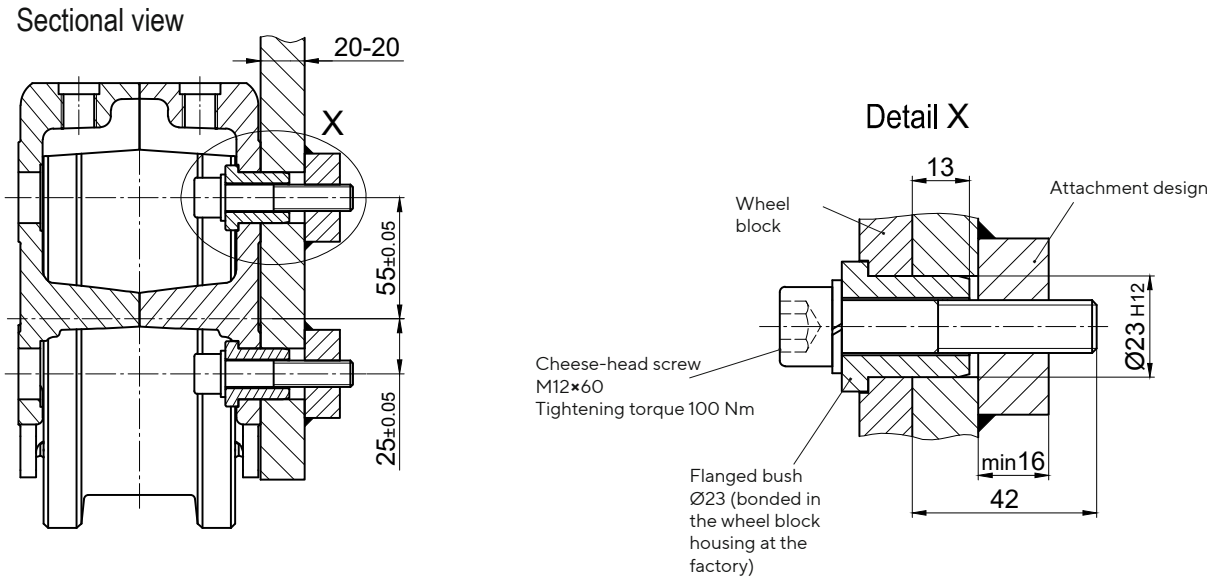


Side connection WA 160

Lateral connection option for low construction designs

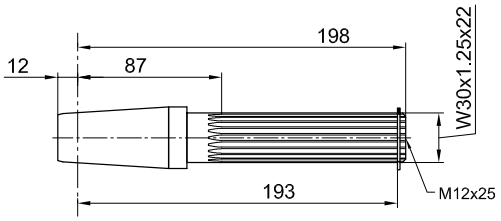
Attachment variant 2:
Attachment design (e.g. hollow profile) is not accessible from the inside
Blind hole Ø23 H12×15 deep with thread M12

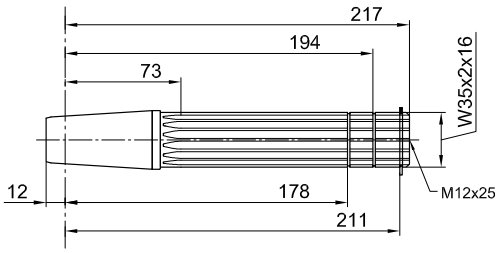


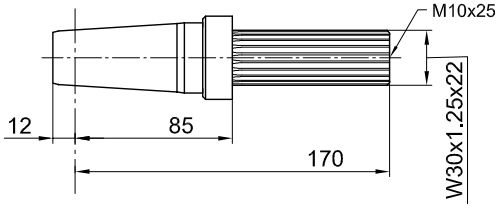


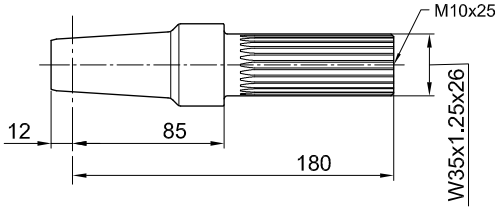
Single drive unit

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





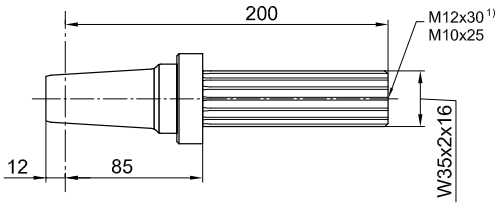


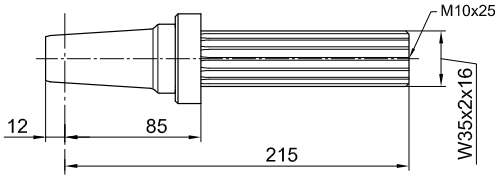


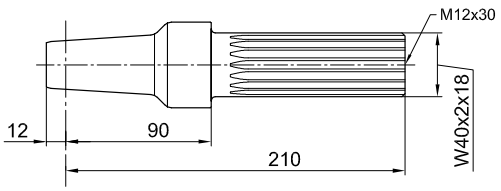
Slip-on gear mechanism		
Model	**Manu-facturer**	**Splined-shaft pro-file in acc. with DIN 5480**
AF 04 / AF 05	DEMAG	W30 x 1.25 x 22
AUK 20		
AF 05 / AF 06	DEMAG	W35 x 2 x 16
AUK 30		
FV 37 / KV 37	SEW	W30 x 1.25 x 22
SK 1282 EA	NORD	
SPZT 16	PREMIUM STEPHAN	
F.A.T 38 B	SIEMENS (FLENDER)	W35 x 1.25 x 26
KA.T 38		
CA.T 38		

Single drive unit

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



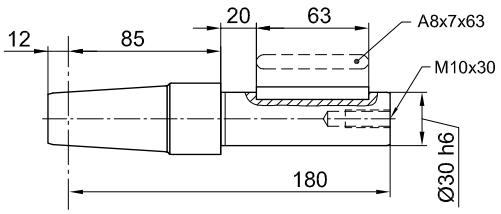




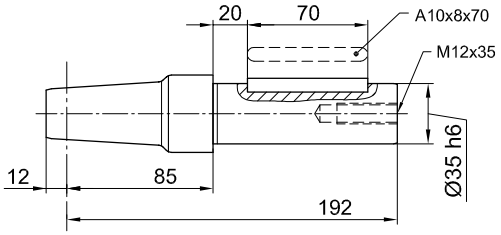
Slip-on gear mechanism		
Model	**Manu-facturer**	**Splined-shaft pro-file in acc. with DIN 5480**
FV 47 / KV 47	SEW	W35 x 2 x 16
SK 2282 EA[1)]	NORD	
SPZT 26..	PREMIUM STEPHAN	
SKZT 26..		
FV 57 / KV 57	SEW	W35 x 2 x 16
F.A.T 48 B	SIEMENS (FLENDER)	W40 x 2 x 18
KA.T 48		
CA.T 48		

Single drive unit

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



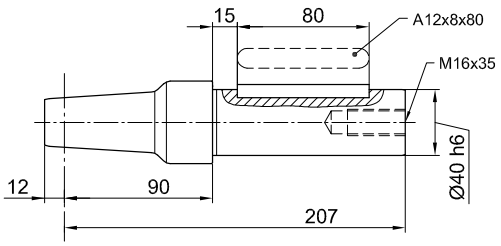
Slip-on gear mechanism		
Model	**Manu-facturer**	**Shaft journal**
FA 37 / KA 37 SA 47	SEW	Ø30
FDA 38 B FZA 38 B	SIEMENS (FLENDER)	
KA 38 / CA 38		
O 32..H O 33..H K 33..H C 32..H	SIEMENS	
SK 0282 NBAB SK 1282 AB	NORD	
GFL 04..H GKS 04..H GSS 04..H	LENZE	
F3A	STÖBER	

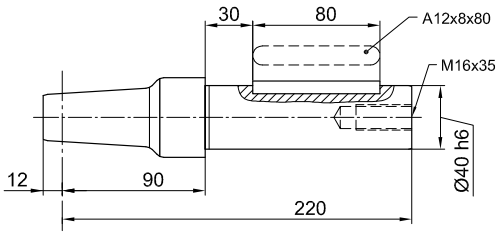


FA 47 / KA 47 SA 57	SEW	Ø35
SK 2282 AB	NORD	
FDA 48B FZA 48B KA 48 / CA 48	SIEMENS (FLENDER)	
O 42..G O 43..G K 43..H C 42..H	SIEMENS	
GFL 05..H GKS 05..H GSS 05..H	LENZE	
K3..A S2..A	STÖBER	
SPZH 26.. SKZH 26..	PREMIUM STEPHAN	

Single drive unit

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





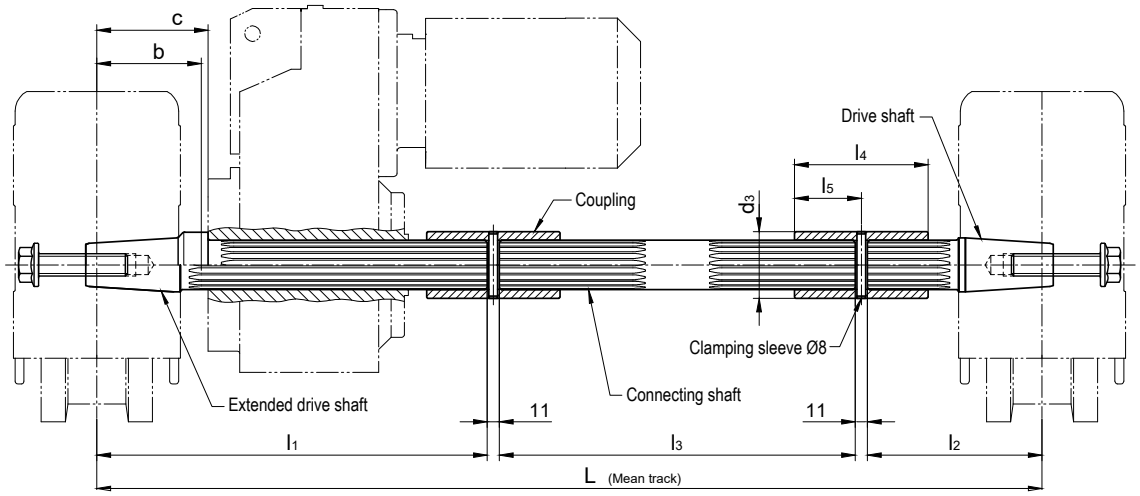
Slip-on gear mechanism		
Model	**Manu-facturer**	**Shaft journal**
FDA 48B FZA 48B KA 48 CA 48	SIEMENS (FLENDER)	Ø40
O 42..H O 43..H K 43..G C 42..G	SIEMENS	
GFL 06..H GKS 06..H GSS 06..H	LENZE	
FA 57 / KA 57 FA 67 / KA 67 SA 67	SEW	Ø40
SK 3282 AB	NORD	
FDA 68B FZA 68B KA 68 CA 68	SIEMENS (FLENDER)	
O 62..G O 63..G K 63..G C 62..G	SIEMENS	
SPZH 36.. SKZH 36..	PREMIUM STEPHAN	

ATLAS WHEEL BLOCK SYSTEM RB 160

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

Central drive unit

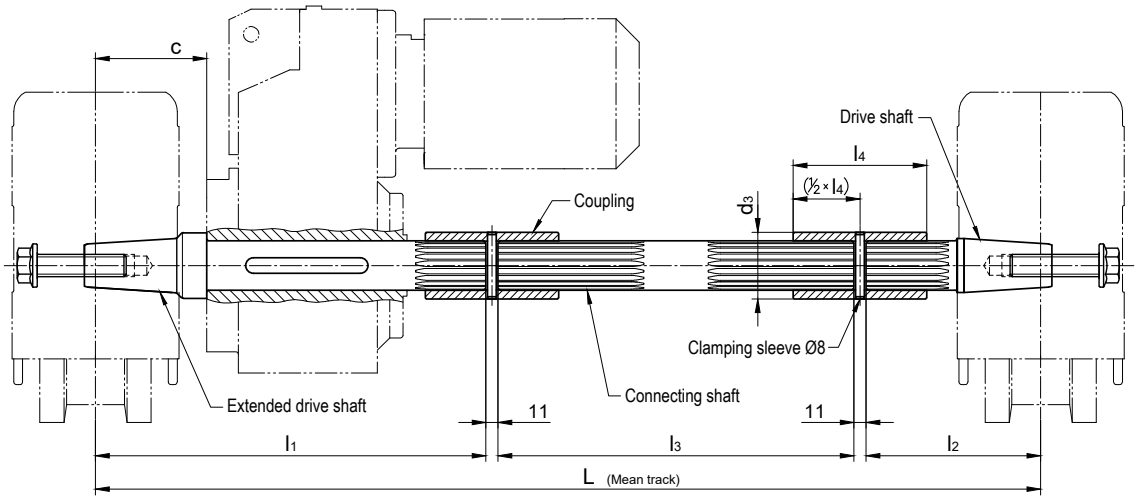
Both wheel blocks are driven with only one gear motor
(Splined-shaft profile, feather key connection and shrink disc attachment)



Model	Manufac-turer	Splined-shaft-profile DIN 5480	L	l1	l2	l3	Centre RB to gearing b	Centre RB to stop C	l4	l5	d3	Clam-ping sleeve DIN 1481
AF 04 / AF 05 AUK 20	DEMAG	W30 x 1.25 x 22	For ordering, please provide	258	170	Dimen-sion L minus 450	87		80	40	40	8 x 40
FV 37 KV 37	SEW											
SK 1282EA	NORD											
SPZT 16..	PREMIUM STEPHAN											
F.A.T 38B KA.T 38 CA.T 38	SIEMENS (FLENDER)	W35 x 1.25 x 26		295	128	Dimen-sion L minus 445	73		100	50	50	8 x 50
AF 05 AUK 30 / WUK 30	DEMAG	W35 x 2 x 16		325	128	Dimen-sion L minus 475	73		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											
F.A.T 48B KA.T 48 CA.T 48	SIEMENS (FLENDER)	W40 x 2 x 18		330	233	Dimen-sion L minus 585		90	100	50	55	8 x 55
SK 3282 EA SK 9022.1A.EA SK 9023.1A.EA	NORD											

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**	**l1**	**l2**	**l3**	**c** gearbox stop	**Feather key** DIN 6885	**Coupling** Internal gearing/ d3 x l4
Inner-Ø	Length							
Ø30	≤ 140	**For ordering, please provide**	285	170	Dimension L minus 477	-	A 8 x 7 x 70	N30 x 1.25 x 22 Ø40 x 80
Ø35	≤ 150		295	128	Dimension L minus 445	85	A 10 x 8 x 70	N35 x 2 x 16 Ø50 x 100
Ø40	≤ 180		330	233	Dimension L minus 585	90	A 12 x 8 x 100	N40 x 2 x 18 Ø55 x 100

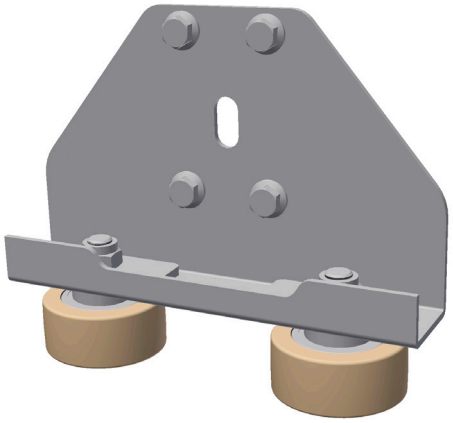
Suitable for gearboxes of the following manufacturers:
Siemens Motox (Flender), Bauer (Danfoss), KEB, Lenze, Nord, PREMIUM STEPHAN, SEW, Siemens, Stöber, Demag

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

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

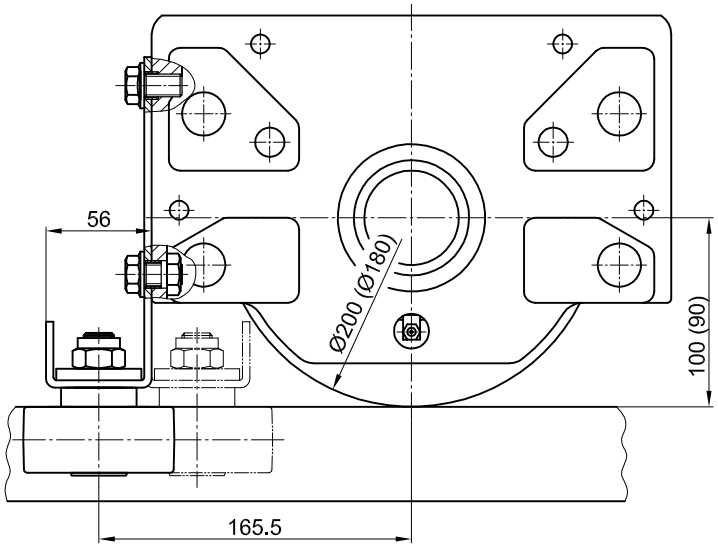
Horizontal roller guide

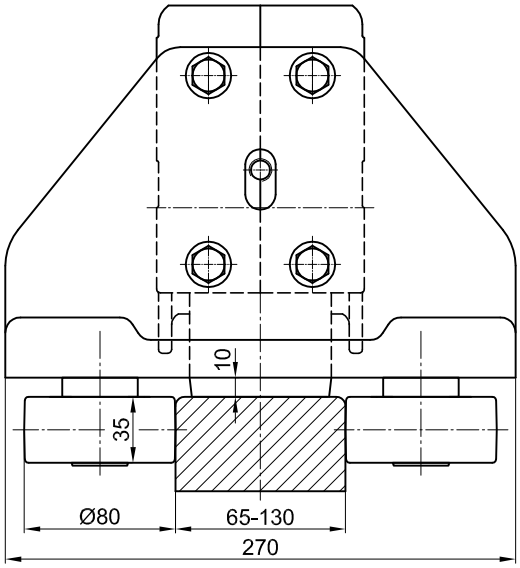
for wheels of Ø200 and Ø180
with coating made of vulkollan or PA12G



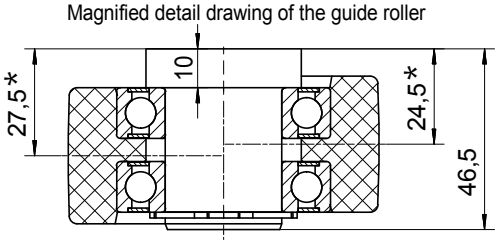
Horizontal roller guide with adjustable guide rollers made of PA12G.

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





Magnified detail drawing of the guide roller



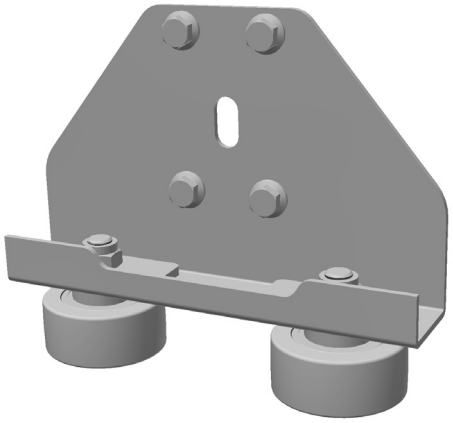
By turning the unsymmetrical guide roller, two clearances* can be adjusted.

Acceptable contiunous load: **450 kg**
Maximum short-term load: **700 kg**

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

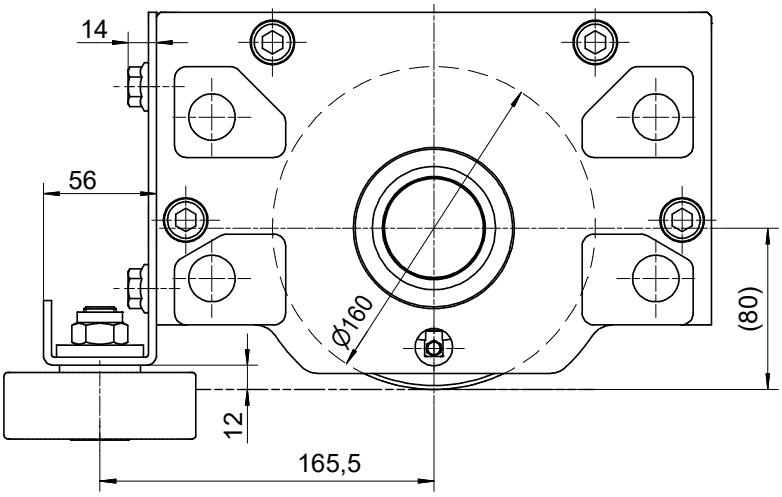
Horizontal roller guide for other rail profiles are available on request.

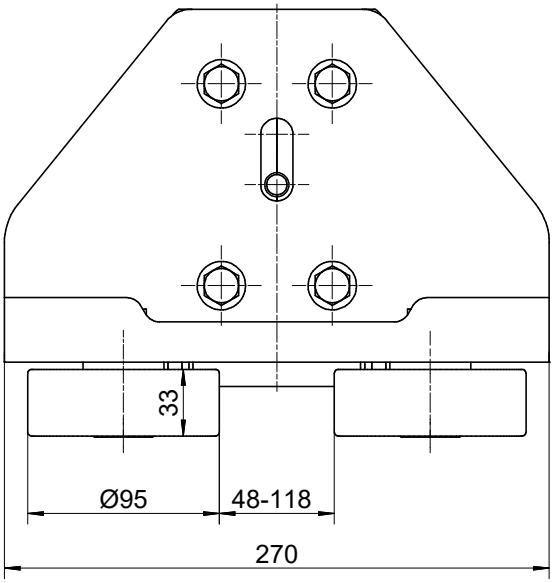
Horizontal roller guide
for wheels of Ø160 (Form 1-5)

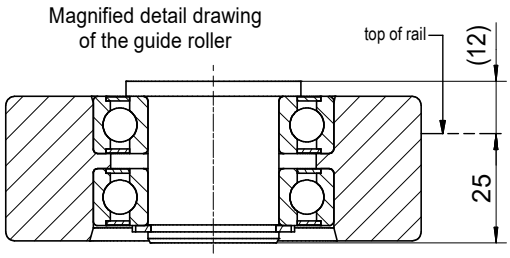


Horizontal roller guide with adjustable guide rollers made of C45.

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







Acceptable horizontal load: **max. 700 kg**

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

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