

BPW drawbar assemblies

For centre axle drawbar trailers and turntable drawbar trailers



we think transport





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Product overview

Rigid drawbar type	ZD	ZDM	ZEQ	ZFL
Function				
Rigid	○	○	○	
With screw-on crossmembers		○		○
Height adjustable			○	
Length adjustable				○
Page	22	26	28	30

Drawbar type	TBZ	SL	ZGS	PZM	PZMS	PZS	PZSG	PZG	PZGL/PZLG	PZL	PML	LPS
Function												
Rigid (normal profile)	○		○	○	○	○	○	○	○	○	○	○
Rigid (lightweight profile)		○										
Angled towing eye			○		○							
Rigid central tube (Y shape)				○	○							
Swivelling towing eye						○	○					
Cranked drawbar							○	○	○			
Length adjustable									○	○		
Length adjustment (semi-)automatic											○	○
Length adjustment > 600 mm											○	
Page	42	44	45	46	47	48	50	51	52	54	56	58

Quality is the be-all and end-all of our solutions.

We are passionate about developing exactly what our customers need in their day-to-day business in the transport industry. That is why quality is a key part of our solutions.

Already at the beginning of the development process of all our products we set the course for Quality, by providing you with optimal support at every stage of development: from consulting through the selection of components through to efficient operation. And because everything comes from a single source, you can be sure that it is not only perfectly matched to each other, but that it also works optimally together.

This principle forms the basis for the successful application of our solutions, which have proven their worth a million times over in many years of long-term use worldwide.

EXPERTISE/PORTFOLIO

- ▶ Broad portfolio of drawbar assemblies
- ▶ More than 30 years of development and manufacturing expertise

AN OVERVIEW OF YOUR BENEFITS:

- ▶ ISO-certified according to ISO 9001:2015
- ▶ Excellent corrosion protection with cathodic dip-coating (KTL_{zn})
- ▶ Robust and long-lasting design for all components
- ▶ High level of availability and delivery performance
- ▶ Always the right solution for your needs
- ▶ Individual consultation

QUALITY



Safe and reliable. BPW drawbar assemblies.

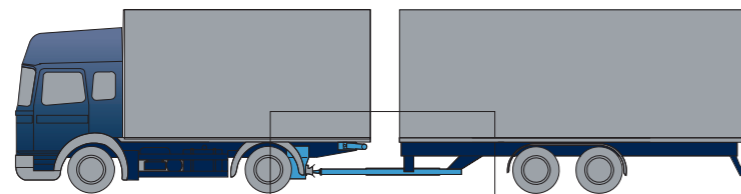
Drawbar assemblies form the link between the tractor unit and the trailer vehicle. These components are designed to continuously and reliably transfer all the relative forces between the towing vehicle and the trailer.

This means they are some of the most safety-critical components on the whole commercial vehicle.

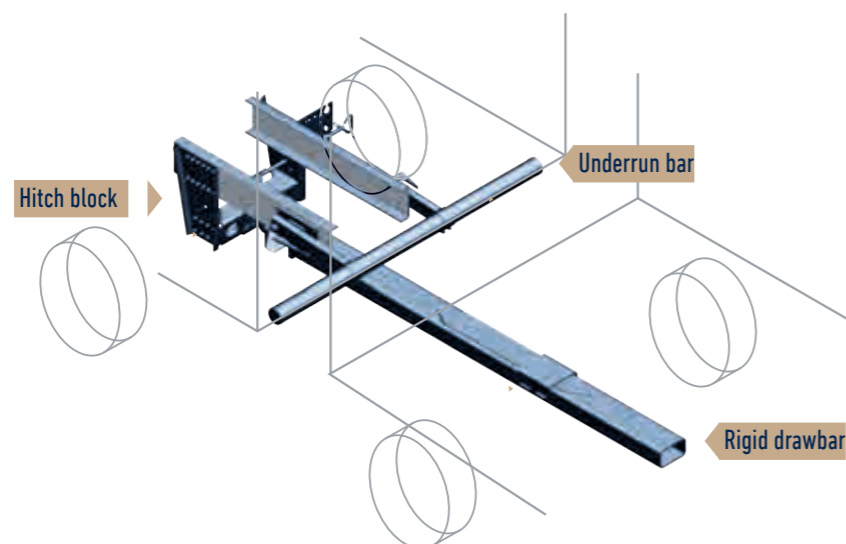
The choice of drawbar assembly depends on the tractor-trailer combination that is being used. The two main combinations are composed of a tractor unit with a centre axle drawbar trailer or a tractor unit with a multi-axle drawbar trailer and turntable steering. BPW offers a complete range of drawbar assemblies for both combinations.

HOW A CENTRE AXLE DRAWBAR TRAILER WORKS:

These trailers have up to a maximum of three axles in the centre of the vehicle. A rigid drawbar on the vehicle frame forms the connection to the tractor unit. The central position of the axle(s) enables the trailer to be steered. The drawbar installation is described as 'rigid' because horizontal as well as vertical forces are transferred. As a static load, these forces are between min. 4% and max. 10% (or 2,000 kg) of the gross trailer weight. To improve the driving characteristics, centre axle drawbar trailers are coupled as low down as possible below the tractor unit.



Tractor unit with centre axle drawbar trailer

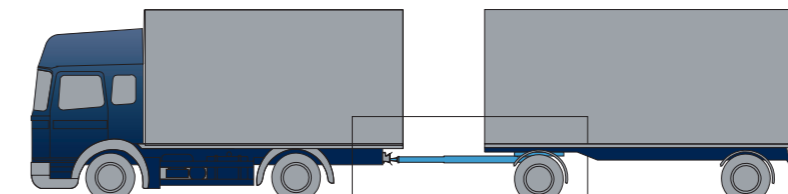


SAFE

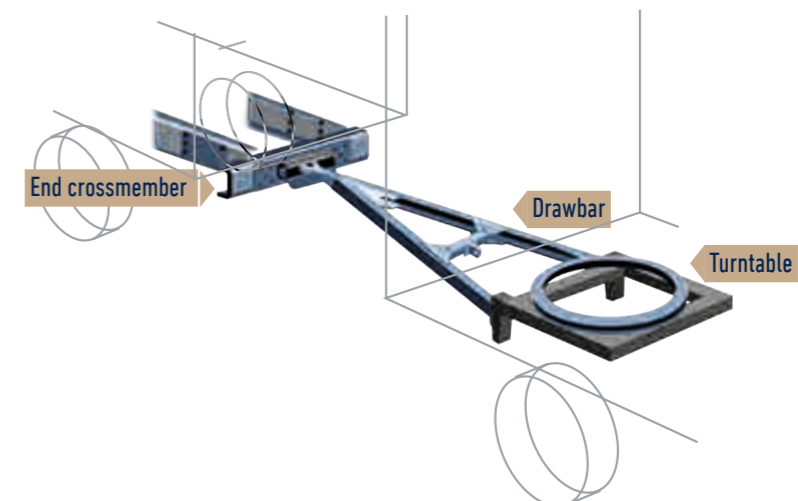
HOW A TURNTABLE DRAWBAR TRAILER WORKS:

The turntable drawbar trailer is steered using a separate pivot joint. For this purpose, the rigid front axle of the trailer is housed in the chassis so that it can be turned via a rotating frame with a turntable. The BPW product range includes double-row turntables

for this purpose, which offer an impressive level of high quality and a long service life. The drawbar and the associated height-adjustment devices are attached to the turntable frame. This equipment is available in various versions and can be coupled low down like rigid drawbars.



Tractor unit with turntable drawbar trailer



Configuration of drawbar assemblies in accordance with ECE Regulation No. 55

The most important characteristic values for drawbar assemblies in accordance with ECE Regulation No. 55 are calculated as follows:

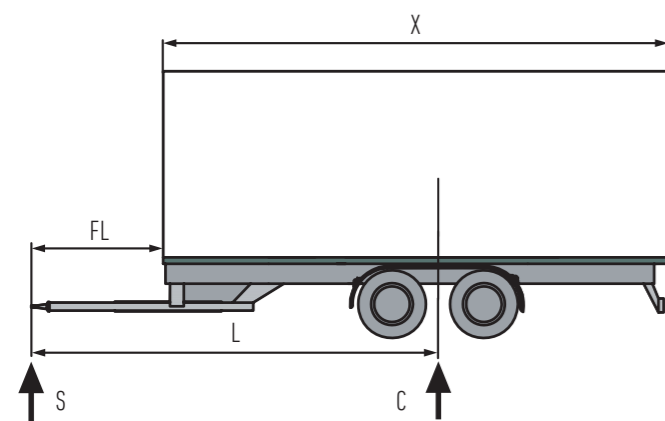
The V value must be determined in combinations of vehicles with a centre axle drawbar trailer and is defined as the theoretical reference force for the vertical component of the drawbar force between the towing vehicle and the centre axle drawbar trailer (unit of measure: kN).

The maximum permissible V values are declared for BPW drawbar

assemblies such as hitch blocks and rigid drawbars. The smallest V value of all drawbar assemblies used in a vehicle combination is decisive.

Mechanical drawbar assemblies that transfer drawbar loads (such as rigid drawbars and hitch blocks in centre axle drawbar trailers) must be marked with a maximum permissible Dc value.

Mechanical drawbar assemblies that cannot transfer drawbar loads (such as drawbars and hitch blocks on turntable drawbar trailers) must be marked with a maximum D value.



The V value can be calculated using the vehicle data:

X = Length of the loading area of the trailer (m)

L = Theoretically free drawbar length

a = Vertical acceleration at the coupling point

1.8 m/s² for towing vehicles with air suspension

2.4 m/s² for towing vehicles with other suspension

C = Gross weight of the trailer (t)

$$V \text{ (kN)} = \frac{a \cdot C \cdot X^2}{L^2}$$

The Dc value can be calculated as follows:

T = Permissible gross weight of the towing vehicle (t)

C = Axle load (t) of the loaded centre axle drawbar trailer when coupled

g = 9.81 m/s²

$$D_c \text{ (kN)} = \frac{g \cdot T \cdot C}{T + C}$$

The D value can be calculated as follows:

T = Permissible gross weight of the towing vehicle (t)

R = Permissible gross mass of the turntable drawbar trailer (t)

g = 9.81 m/s²

$$D \text{ (kN)} = \frac{g \cdot T \cdot C}{T + R}$$

Example calculation for the configuration of a centre axle tractor/trailer combination

Permissible gross weight of the towing vehicle	T = 22,000 kg
Vertical acceleration of the towing vehicle with air suspension	a = 1.8 m/s ²
Drawbar load	S = 1,000 kg
Permissible gross weight of the trailer	C = 18,000 kg
Length of the loading area of the trailer	X = 7,820 mm
Theoretically free drawbar length	L = 6,555 mm
Free drawbar length	FL = 2,300 mm

The BPW ZD 18 rigid drawbar (V max. = 54.0 kN/Dc = 110 kN) and the BPW AB 75 hitch block (V min. = 75 kN/Dc = 130 kN) are sufficient for this case.

We would be happy to calculate the V and Dc values for your vehicle combination on request so that the appropriate BPW drawbar assembly (BPW rigid drawbar and BPW hitch block) can be selected. (A corresponding data sheet is available to download from our website.)

$$V = \left\{ \frac{X}{L} \right\}^2 \cdot a \cdot C$$

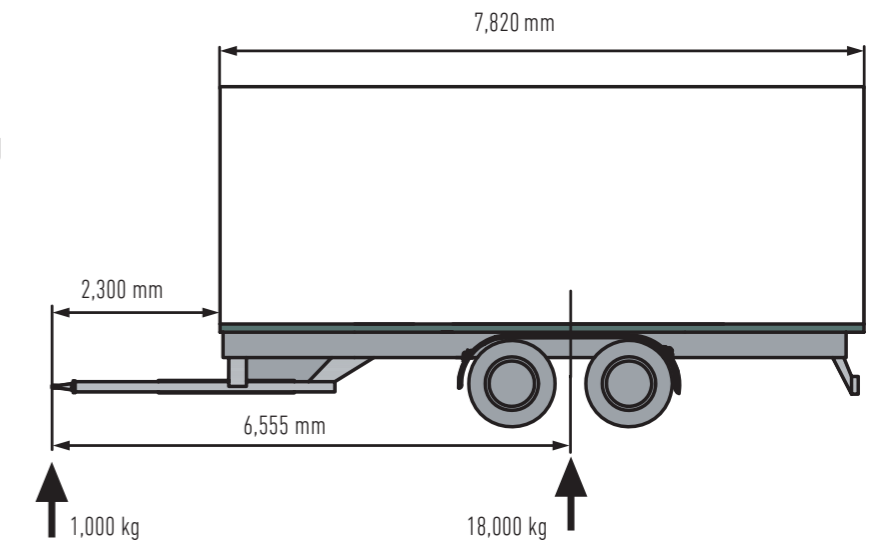
$$V = \left\{ \frac{7.820 \text{ mm}}{6.555 \text{ mm}} \right\}^2 \cdot 1.8 \text{ m/s}^2 \cdot 18,000 \text{ kg}$$

$$V = 46,112 \text{ N} = 46.1 \text{ kN}$$

$$D_c = \left\{ \frac{T \cdot C}{T + C} \right\} \cdot 9.81 \text{ m/s}^2$$

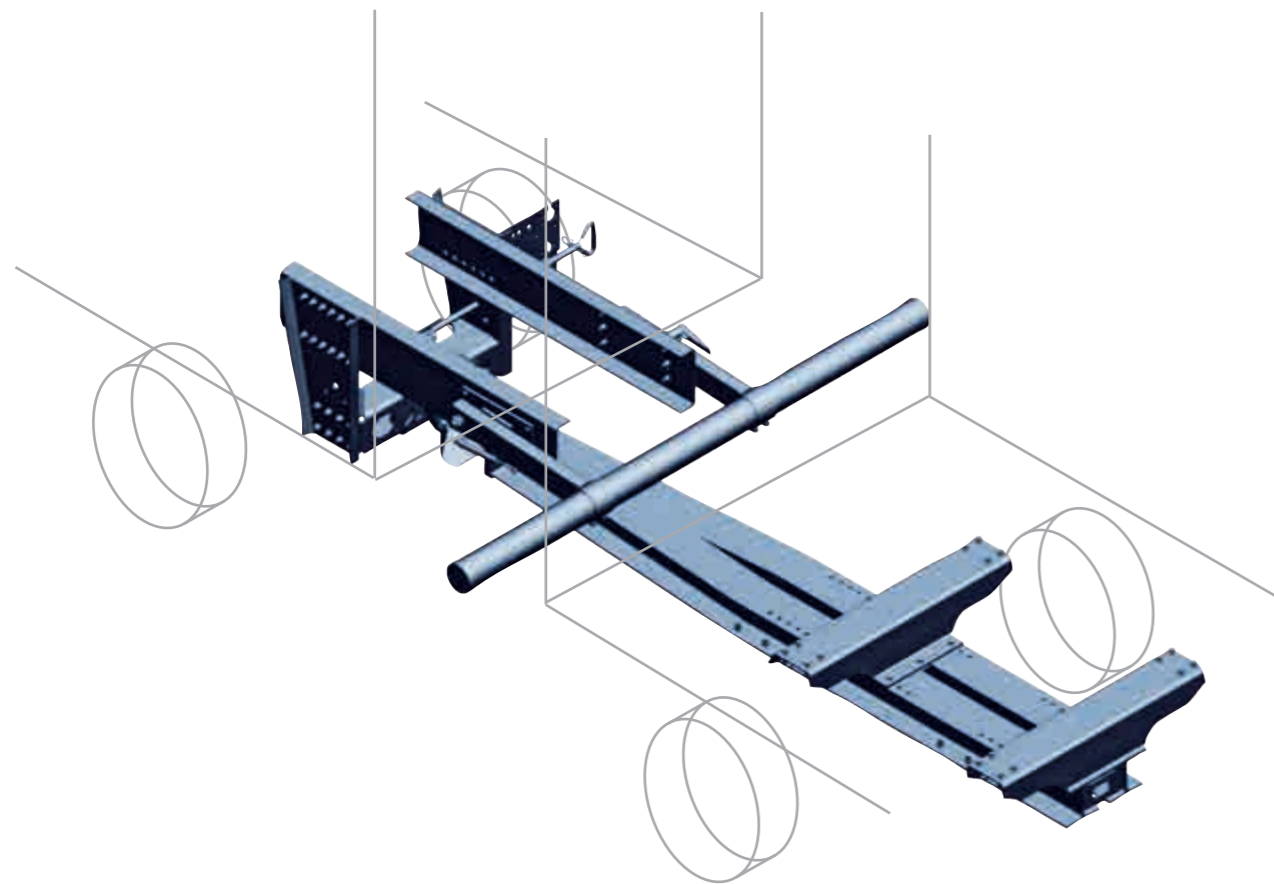
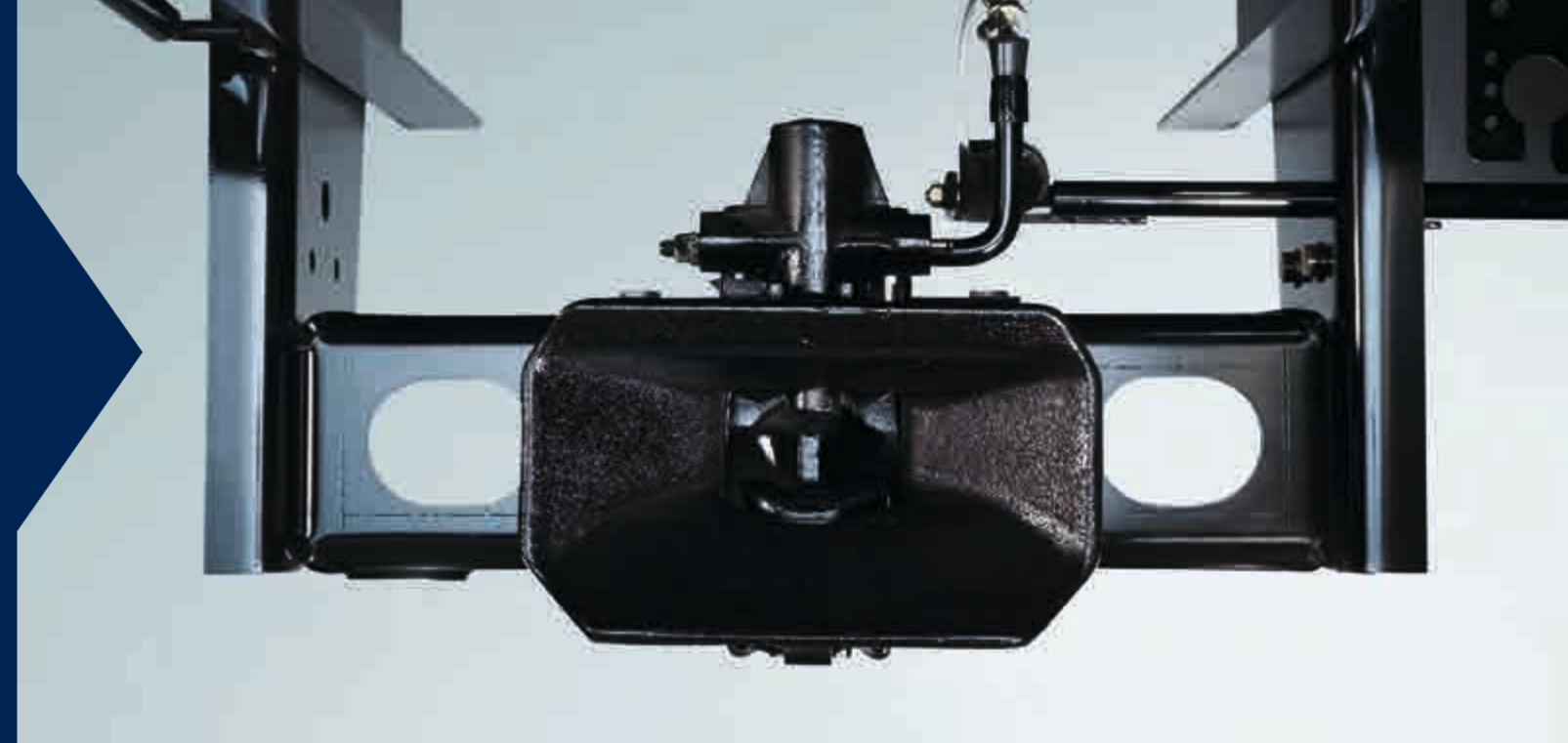
$$D_c = \left\{ \frac{22 \cdot 18}{22 + 18} \right\} \cdot 9.81 \text{ m/s}^2$$

$$D_c = 97.12 \text{ kN}$$



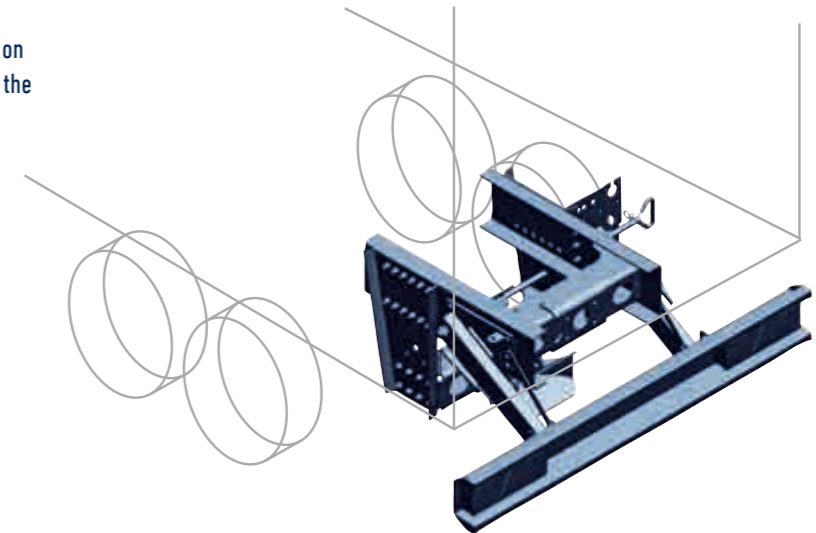
For assembly on the tractor unit. Hitch blocks and crossmembers from BPW.

BPW hitch blocks are assembled closely on the rear axle of the tractor unit and create a secure connection between the towing vehicle and the trailer. They have been developed for trailers with a permissible gross weight of up to 24 t and are suitable even for extremely heavy loads.



The hitch block – which is fitted on the vehicle frame of the tractor unit – enables a centre axle drawbar trailer or a low-coupled turntable drawbar trailer to be coupled. It features a corresponding coupling to accommodate the towing eye.

BPW end crossmembers for interior assembly on the vehicle frame of the tractor unit complete the range of products.



BPW HITCH BLOCKS – FEATURES AND BENEFITS

- ▶ Permitted gross trailer weight up to 24 t
- ▶ Drawbar loads up to 2,500 kg (V value up to 86 kN)
- ▶ Overall heights of 130 to 400 mm, depending on the version
- ▶ With ECE approval or individual certificate
- ▶ BPW remote operation devices available with general type approval (German ABE)
- ▶ For bolting to vehicle frame
- ▶ Optional vehicle-specific drilling pattern
- ▶ Optionally with couplings (e.g. Orlandi, Ringfeder, Rockinger) and plug holders
- ▶ Treated with zinc phosphate, with cathaphoretic dip-coating (KTL_{Zn})

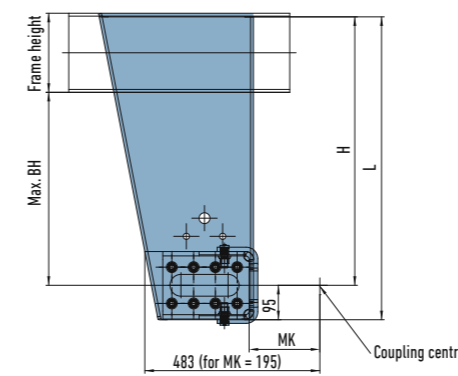
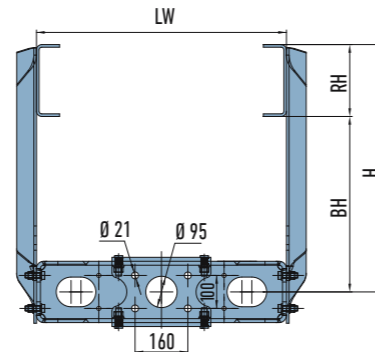
BPW hitch block

AB 75 series

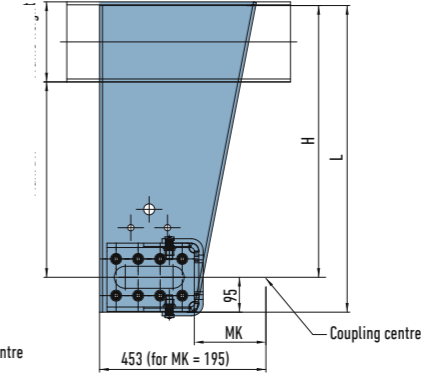
(ECE approval)

- ▶ With ECE approval no. E1-55R-012559
- ▶ Cathaphoretic dip-coating (KTL_{Zn}) in top-coat quality
- ▶ For steering angles of up to 90°
- ▶ Bolted directly to the vehicle frame
- ▶ The permissible V value depends on the coupling centre (MK) dimension
- ▶ Drilling pattern for couplings in accordance with DIN 74051/74052
- ▶ FB10 cable remote operation, can be assembled on both sides

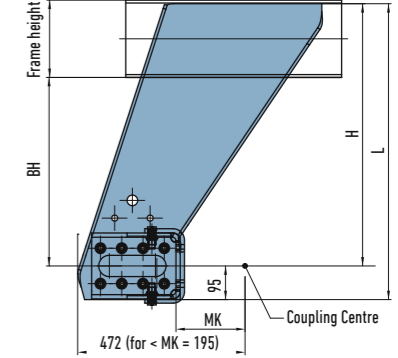
- ▶ Also available with mechanical remote operation
- ▶ For drawbar loads up to 2,500 kg
- ▶ Stepless overall heights (BH) up to 400 mm
- ▶ Any combination with various clear widths (LW)
- ▶ Technical support for calculating the max. permissible V values and designing suitable bolted connections
- ▶ Detailed information is available in the technical data sheets



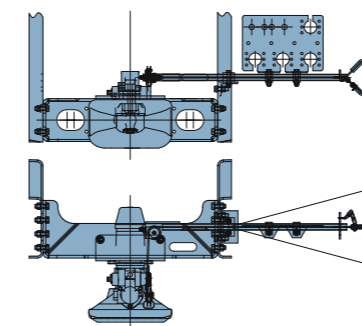
SV version (diagonal front)



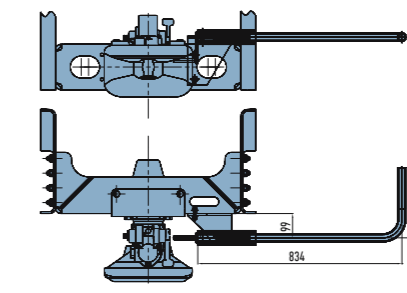
SH version (diagonal rear)



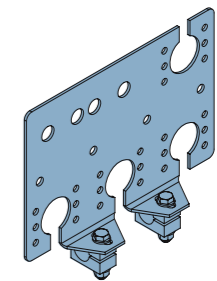
GK version (cranked)



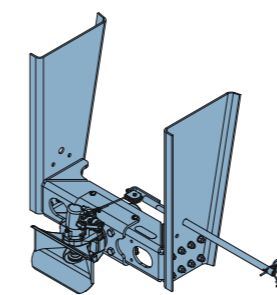
FB10 cable remote operation
ABE 90779*02



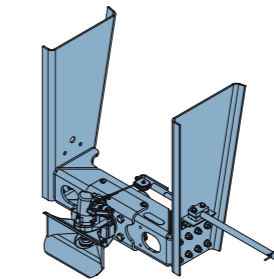
Mechanical remote operation



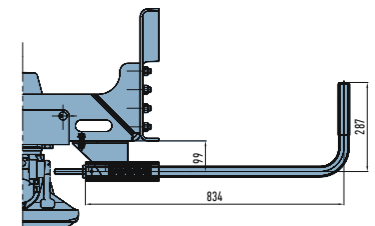
Plug holder



FB10, welded version



FB10, clamped version



Mechanical remote operation

TYPE	VERSION	CLEAR WIDTH LW (mm)	SIDE SECTION HEIGHT H ¹⁾ (mm)	MAX. OVERALL HEIGHT BH ²⁾ (mm)	HIGHER DRAWBAR LOADS	BPW NO.	WEIGHT (GK version, LW 758 kg)
AB 75... V value = 75 kN (for MK = 195 mm) D value = 190 kN Dc value = 130 kN Drawbar load 1,000 kg	-SV -SH -GK	758/762 770/790 802/850 854/862 866	415	130	2,000 kg (V = 58.7 kN) 2,500 kg (V = 50.5 kN)	51.47.41.xxxx	74
			440	150		51.47.44.xxxx	75
			480	200		51.47.48.xxxx	78
			510	230		51.47.51.xxxx	80
			540	250		51.47.54.xxxx	81
			570	300		51.47.57.xxxx	83
			610	330		51.47.61.xxxx	85
			640	350		51.47.64.xxxx	87
			690	400		51.47.69.xxxx	90
			740	400		51.47.74.xxxx	93
	-QT End crossmember for tractor unit	742/752 774/784 794				51.47.00.4xxx	45

Higher characteristic values depending on coupling centre (MK), see data sheet. ¹⁾ Standard dimensions in bold. ²⁾ Overall height depending on frame height. All versions also available on request with drill pattern (SG) and installed coupling.

Possible coupling variants assembled in hitch block or loose

TRAILER COUPLINGS	BOLT DIAMETER (mm)	DRILLING PATTERN (mm)	MK (mm)	V VALUE Max. (kN)	DRAWBAR LOAD (kg)	BPW NO.	WEIGHT (kg)
Orlandi E525 D = 200 kN/Dc = 135 kN	50	160 x 100	178	75	1,000	05.801.98.63.0	42
				50	2,500		
Rockinger 500A66200 D = 200 kN/Dc = 135 kN	50	160 x 100	177	90	1,000	05.801.95.08.0	50
				60	2,500		
Ringfeder 5055A D = 200 kN/Dc = 135 kN	50	160 x 100	175	75	1,000	05.801.95.57.0	50
				63	2,000		
Rockinger 400A51201 D = 130 kN/Dc = 90 kN	40	160 x 100	164	35	1,000	05.801.95.11.0	35

All versions include electrical remote display. Please note that the permissible Dc and V values of the hitch block must be tailored to the desired trailer coupling and the towing eye.

BPW ACCESSORIES FOR AB 75

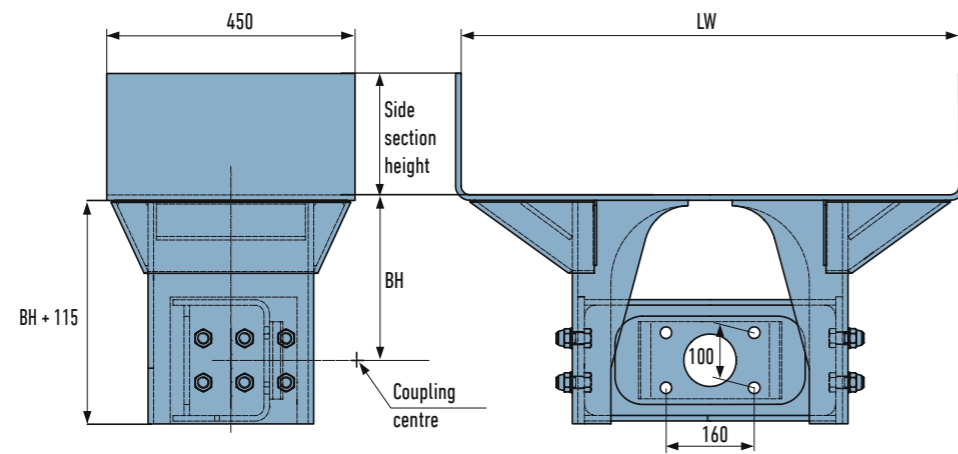
	BPW NO.
FB10 cable remote operation, welded version, can be assembled on both sides	51.98.11.0018
FB10 cable remote operation, clamped version, can be assembled on both sides	51.98.11.0019
Mechanical remote operation	51.98.11.0020
Plug holding plate	05.801.95.16.0
Upper crossmember for Mercedes (in frame, LW 850 mm)	05.801.98.56.0
Intermediate plates for side section/crossmember t = 2 mm (2 units), up to max. 20 mm each side	09.801.95.14.0
Intermediate plates for side section/crossmember t = 6 mm (2 units), up to max. 20 mm each side	09.801.95.15.0
Bolt kit for side section/crossmember (16 units, bolts M16 x 50, nuts, washers)	09.801.95.12.0
Bolt kit for side section/crossmember (16 units, bolts M16 x 60, nuts, washers)	09.801.95.16.0
Bolt kit for side section/frame (24 units, bolts M16 x 50, nuts, washers)	09.801.95.13.0
Side sections for AB 75 in pairs	On request

BPW hitch block

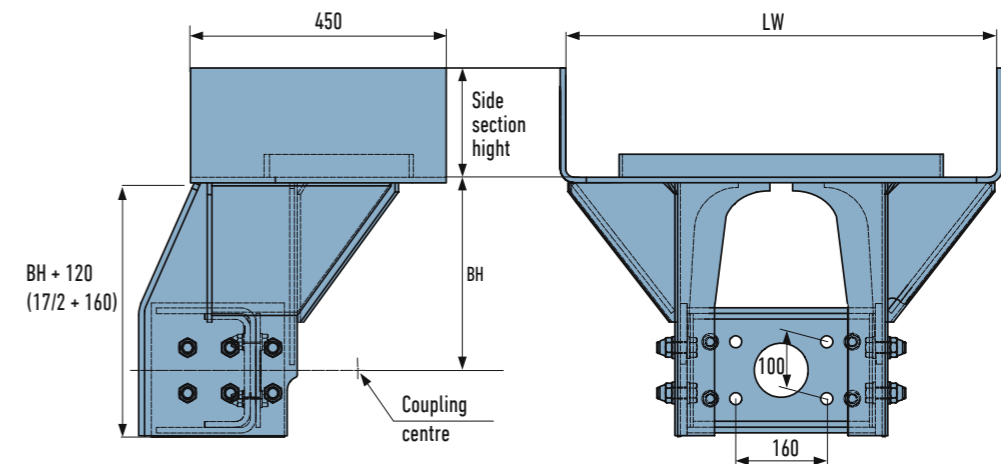
PAB 17 series, straight

(Individual certificate)

- ▶ The stated overall heights (BH) and clear widths (LW) can be combined as standard
- ▶ Cataphoretic dip-coating (KTL_{zn}) in top-coat quality
- ▶ For steering angles of at least 90°
- ▶ Bolted directly to the vehicle frame
- ▶ The permissible V value depends on the coupling centre (MK) dimension
- ▶ Drilling pattern for couplings 160 x 100 mm, in accordance with DIN 74051/74052
- ▶ Use of FB10 cable remote operation
- ▶ Also available with mechanical remote operation
- ▶ Drawbar loads up to 2,500 kg possible
- ▶ Techn. support for calculating the max. permissible V values and designing suitable bolted connections
- ▶ Detailed information is available in the technical data sheets
- ▶ Side section height depends on the clear width (LW)



PAB 17 series, cranked



TYPE	VERSION	CLEAR WIDTH LW (mm)	MAX. OVERALL HEIGHT (BH) (mm)	DRAWBAR LOAD (kg)	DC VALUE (D VALUE) (kN)	BPW NO.	WEIGHT Approx. (kg)
PAB 17/1 V value = 50 kN (for Mk = 195 mm) 18 t with individual approval	Straight	758	145/175	1,000	100 (110)	51.40.xx.xxxx	120
		762	200/230				
		770	260/290				
PAB 17/3 V value = 75 kN (for Mk = 195 mm) 24 t with individual approval	Straight	790	190/230	1,000	101 (120)	51.42.xx.xxxx	130
		802	260/290				
		850					
PAB 17/3 V value = 47 kN (for Mk = 195 mm) 18 t with individual approval	Straight	854	190/230	2,000	101 (120)	51.42.xx.xxx	130
		862	260/290				
		866					

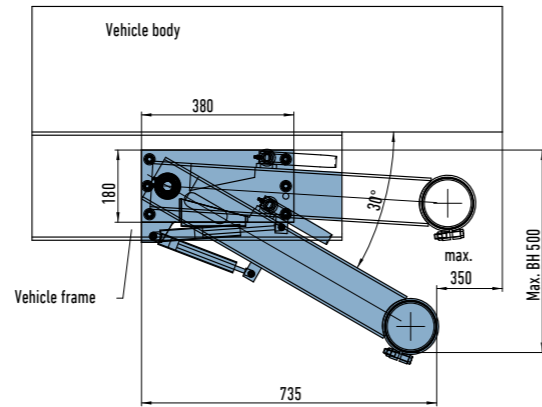
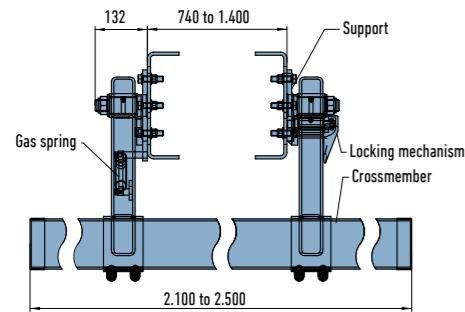
For couplings, see page 14. For accessories, see page 15.
Please note that the permissible Dc and V values of the hitch block must be tailored to the desired trailer coupling and the towing eye.

TYPE	VERSION	CLEAR WIDTH LW (mm)	MAX. OVERALL HEIGHT BH (mm)	DRAWBAR LOAD (kg)	DC VALUE (D VALUE) (kN)	BPW NO.	WEIGHT Approx. (kg)
PAB 17/1-G V value = 50 kN (for Mk = 195 mm) 18 t with individual approval	Cranked	758 762 770 790	240/270	1,000	110 (120)	51.41.xx.xxxx	120
			300/340				
PAB 17/2-G V value = 75 kN (for Mk = 195 mm) 24 t with individual approval	Cranked	802 850 854 862 866	240	1,000	110 (120)	51.45.xx.xxxx	130
PAB 17/2-G V value = 47 kN (for Mk = 195 mm) 18 t with individual approval	Cranked	802 850 854 862 866	300	2,000	105 (120)	51.45.xx.xxx	130

For couplings, see page 14. For accessories, see page 15.
Please note that the permissible Dc and V values of the hitch block must be tailored to the desired trailer coupling and the towing eye.

BPW folding underrun bar UFK 100 III

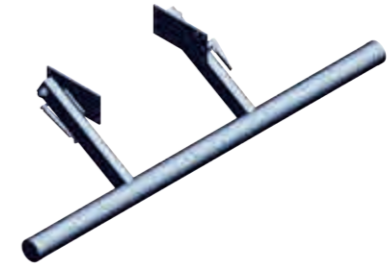
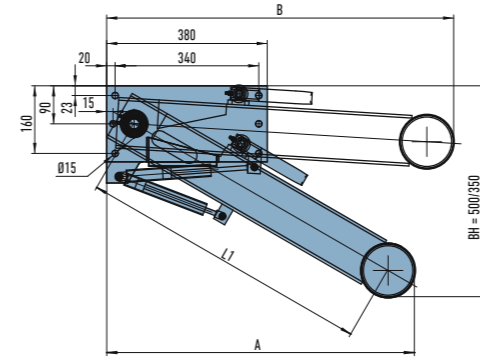
(ECE resp. EG approval)



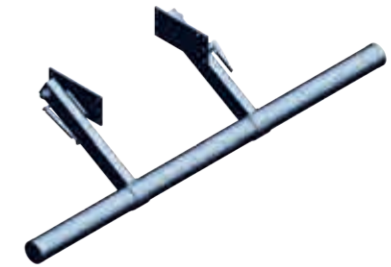
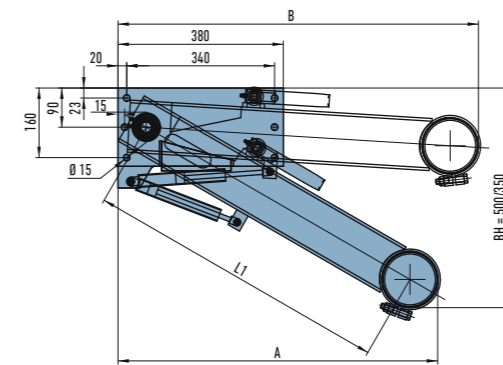
The BPW folding underrun bar, type UFK 100 III, was developed for the use of drawbar installations that are coupled very low down on the tractor unit and trailer. The ECE type approval no. E4-58R-020262 for the underrun bar is approved for vehicle classes N2, N3, O3 and O4. The frame width can be varied between 740 mm and 1,400 mm, depending on the type. The maximum permissible underbody dimension is 350 mm from the rear edge of the vehicle to the front edge of the folded-down underrun bar. When the vehicle is not loaded, the lower edge of the folded-down underrun bar must not be more than 550 mm above the road surface in any place. The width of the rear underrun bar must not exceed the width of the rear axle (measured at the outermost point of the wheels) in any place and must not be more than 100 mm smaller than this measurement in any place. If there are several rear axles, the widest axle is used as the definitive measurement.

THE BENEFITS OF THE NEW BPW UFK 100 III FOLDING UNDERRUN BAR

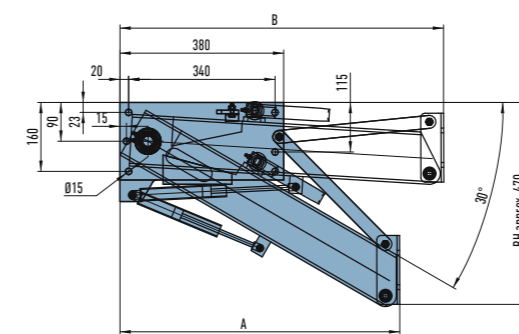
- ▶ Type approval in accordance with Directive UN/ECE No. R58 (parallelogram version in accordance with EC Directive 70/221/EEC)
- ▶ Increase in permitted vehicle frame width to 1,400 mm
- ▶ Optionally available in overall heights of 350 mm and 500 mm
- ▶ Assembly and operating instructions
- ▶ Optionally available with clamped, welded crossmember or without crossmember
- ▶ Parallelogram version: locking on both sides, for approved crossmembers (not included in delivery)



UFK III Welded cross-tube	OVERALL HEIGHT BH (mm)	L1 (mm)	A	B	BPW NO.
	350	394	475	522	51.98.21.0210
	500	694	730	822	51.98.21.0209



UFK III Clamped cross-tube	OVERALL HEIGHT BH (mm)	L1 (mm)	A	B	BPW NO.
	350	402	480	525	51.98.21.0408
	500	702	735	825	51.98.21.0407



UFK III Parallelogram	OVERALL HEIGHT BH (mm)	L1 (mm)	A	B	BPW NO.
	470	-	650	750	51.98.21.0302

Other special versions on request.

TYPE	OVERALL HEIGHT BH (mm)	ARM LENGTH (Pivot point/tube centre) L1 (mm)	COMMENTS	BPW NO.	WEIGHT (kg)
UFK 100 III Crossmember welded E4-58R-020262	350	394	Individual adaptation Tube Ø 127 x 2,500 mm	51.98.21.0210	70
	500	694		51.98.21.0209	80
UFK 100 III Crossmember clamped E4-58R-020262	350	402	Quick assembly without welding work Tube Ø 127 x 2,500 mm	51.98.21.0408	70
	500	702		51.98.21.0407	80
UFK 100 III No crossmember E4-58R-020262	350		Like the welded version but without a tube	51.98.21.0212	30
	500			51.98.21.0211	40
UFK 100 III parallelogram (crossmember not included in delivery) e4*70/221*2006/20*0360*02	470		For approved crossmembers, e.g. with integrated tail lamps	51.98.21.0302	48
SPARE PARTS FOR UNDERRUN BAR			QUANTITY per underrun bar	BPW NO.	
Plastic cap for crossmember			2	02.3505.25.00	
Assembly parts group for spring bolt			1 ¹⁾	09.801.90.34.0	
Gas spring for UFK 100 III from year of manufacture 2001			1	02.0600.03.00	

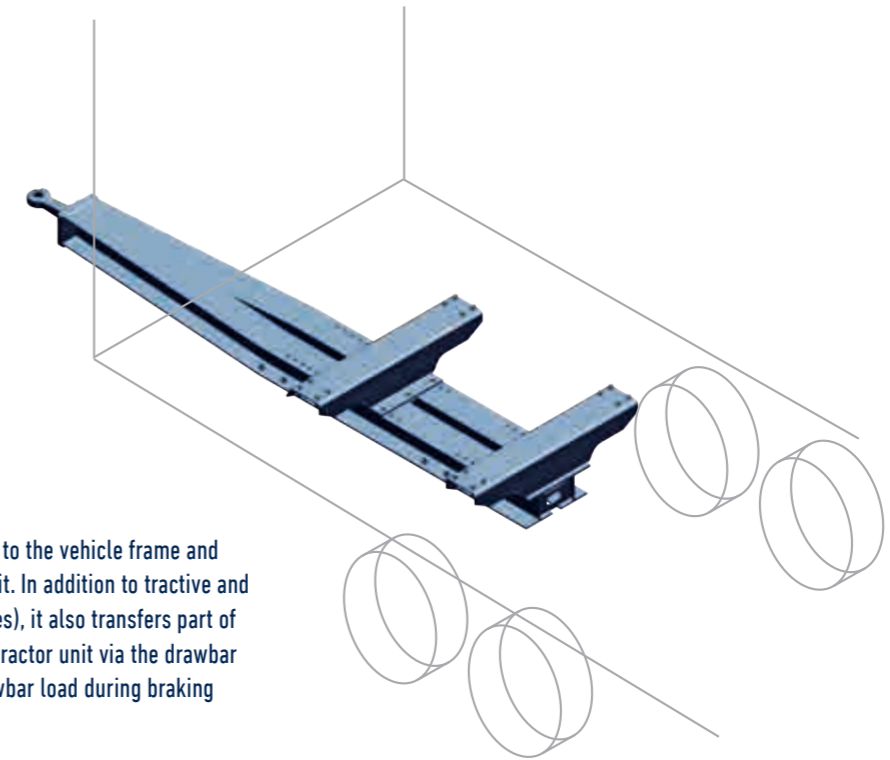
¹⁾ Parallelogram versions 2x



For assembly on the trailer. Rigid drawbars from BPW.

The BPW rigid drawbar is a drawbar installation for centre axle drawbar trailers that is installed on the vehicle frame of the trailer. It is designed for centre axle drawbar trailers with a permissible

gross weight of 6 to 24 t and provides a reliable drawbar assembly for conventional transport.



The rigid drawbar is connected to the vehicle frame and forms the link to the tractor unit. In addition to tractive and braking forces (horizontal forces), it also transfers part of the gross trailer weight to the tractor unit via the drawbar load and also the dynamic drawbar load during braking (vertical forces).

BPW RIGID DRAWBARS – FEATURES AND BENEFITS

- ▶ For centre axle drawbar trailers with a permissible gross weight of 6 to 24 t
- ▶ Drawbar load up to 2,500 kg
- ▶ Various versions are available:
 - Rigid, length-adjustable or height-adjustable
 - Different towing eye types
 - Special versions for higher tonnages
- ▶ With ECE approval or individual certificate
- ▶ Treated with zinc phosphate, with cataphoretic dip-coating (KTL_{zn})
- ▶ Expert advice and calculation of characteristic values (e.g. for optimum matching of the BPW hitch block and the BPW rigid drawbar)
- ▶ High level of corrosion resistance due to galvanised inner tubes in drawbars with variable length

BPW rigid drawbars up to 24,000 kg

ZD series, rigid

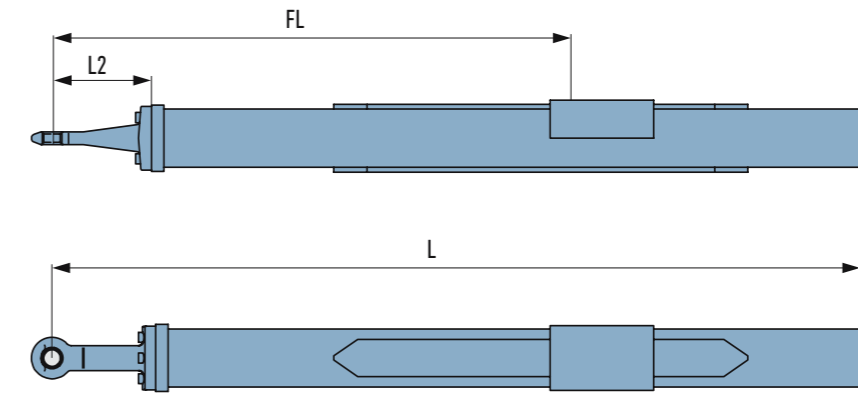
(ECE approval)

In addition to the standard dimensions shown in the tables below, the following options are also available on request:

- ▶ Special versions with a higher V value
- ▶ Use of other towing eye types
- ▶ Other dimensions

Please see the data sheet on our website for further information.

Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.



TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE (kN)	BPW NO.	WEIGHT (kg)
ZD 06 Dc = 35 kN 6 t Drawbar load 500 kg Tube 160 x 160 With individual certificate	Ø 40 ZE 13/1 DIN 74054-40D L2 = 250	2,900	1,700	15.3	51.31.06.0100	87
		3,200	1,800	14.1	51.31.06.0101	94
			1,900	13.1		
		3,500	2,000	12.2	51.31.06.0102	101
			2,100	11.4		
			2,200	10.7		
			2,300	10.0		
3,800	2,400	9.4	51.31.06.0103	108		
	2,500	8.8				
		2,600	8.3			
ZD 10-1 ¹⁾ Dc = 70 kN 10 t Drawbar load 1,000 kg Tube 140 x 140 ECE no. E1-55R-012555	Ø 40 ZE 13/1 DIN 74054-40D L2 = 250	2,900	1,700	30.8	51.31.10.0100	142
		3,200	1,800	28.5	51.31.10.0101	156
			1,900	26.5		
		3,500	2,000	24.7	51.31.10.0102	169
			2,100	23.0		
			2,200	21.5		
			2,300	20.2		
3,800	2,400	18.9	51.31.10.0103	182		
	2,500	17.8				
		2,600	16.7			
ZD 13,5-1 ²⁾ Dc = 90 kN 13.5 t Drawbar load 1,000 kg Tube 160 x 160 ECE no. E1-55R-012553	Ø 40 ZE 13/1 DIN 74054-40D L2 = 250	2,900	1,700	48.9	51.31.14.0100	165
		3,200	1,800	43.6	51.31.14.0101	182
			1,900	42.7		
		3,500	2,000	40.1	51.31.14.0102	199
			2,100	37.7		
			2,200	35.5		
			2,300	33.6		
3,800	2,400	31.8	51.31.14.0103	214		
	2,500	30.1				
		2,600	28.6			

¹⁾ Also available cranked 150 mm on request. ²⁾ Also available cranked on request.
For use of other towing eye types, see page 36.
Additional U-bolt for tube 140 x 140, 03.114.00.02.0
Additional U-bolt for tube 160 x 160, 03.114.00.01.0
Additional U-bolt for tube 250 x 150, 03.114.00.03.0
Additional U-bolt for tube 220 x 220, 03.114.00.22.0
Additional U-bolt for tube 260 x 180, 03.114.00.04.0

TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE (kN)	BPW NO.	WEIGHT (kg)
ZD 18 ³⁾ Dc = 110 kN 18 t Drawbar load 1,000 kg Tube 250 x 150 ECE no. E1-55R-012556	Ø 50 D50-C DIN 74053-50D1 L2 = 250	2,900	1,700	76.5	51.31.18.0124	226
		3,200	1,800	71.7	51.31.18.0118	250
			1,900	67.4		
		3,500	2,000	63.5	51.31.18.0119	274
			2,100	60.0		
			2,200	56.9		
			2,300	54.0		
3,800	2,400	51.3	51.31.18.0105	294		
	2,500	48.9				
		2,600	46.6			

³⁾ Also available cranked on request.

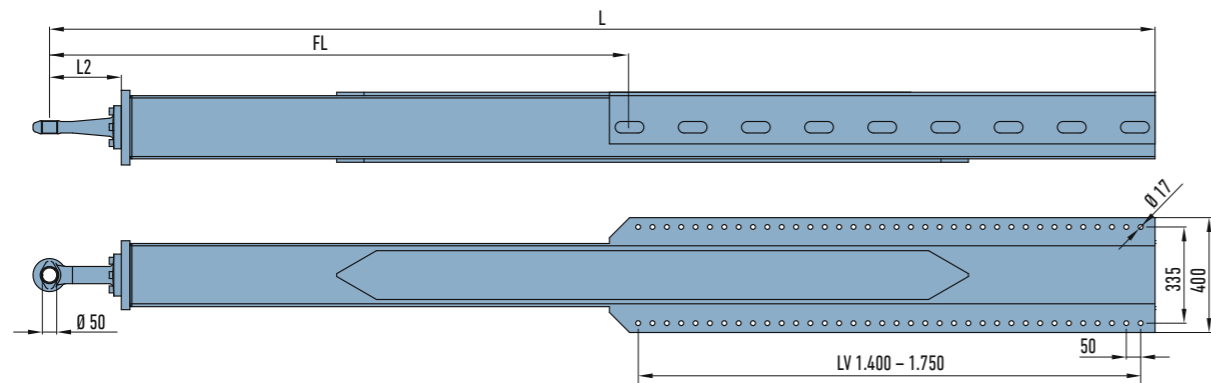
TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE (kN) DRAWBAR LOAD (kg)	BPW NO.	WEIGHT (kg)	
				1,000 2,000			
ZD 20-1A Dc = 130 kN 24 t Drawbar load 1,000 kg Drawbar load 2,000 kg Tube 220 x 220 ECE no. E1-55R-012557	Ø 50 D50-C DIN 74053-50D1 L2 = 250	2,900	1,700	90.0	75.0	51.31.20.0110	214
		3,200	1,800	90.0	75.0	51.31.20.0114	238
			1,900	90.0	75.0		
		3,500	2,000	87.0	75.0	51.31.20.0105	256
			2,100	82.4	72.6		
			2,200	78.2	68.4		
			2,300	74.4	64.6		
3,800	2,400	70.9	61.1	51.31.20.0104	277		
	2,500	67.7	57.8				
		2,600	64.7	54.9			
ZD 24-1A ⁴⁾ Dc = 130 kN 24 t Drawbar load 1,000 kg Drawbar load 2,500 kg Tube 260 x 180 ECE no. E1-55R-012558	Ø 50 D50-C DIN 74053-50D1 L2 = 250	2,900	1,700	90.0	75.0	51.31.24.0126	250
		3,200	1,800	90.0	75.0	51.31.24.0120	275
			1,900	87.4	72.7		
		3,500	2,000	82.6	67.9	51.31.24.0110	300
			2,100	78.2	63.5		
			2,200	74.2	59.5		
			2,300	70.5	55.8		
3,800	2,400	67.2	52.8	51.31.24.0122	325		
	2,500	64.1	49.4				
		2,600	61.3	46.5			

⁴⁾ Also available cranked on request.

BPW rigid drawbars up to 24,000 kg

ZD series, rigid, bolted on with adjusting rail

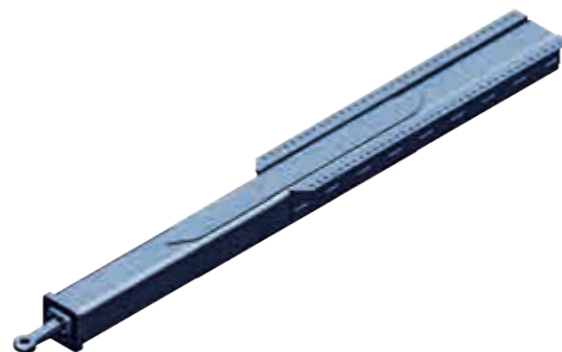
(ECE approval)



In addition to the standard dimensions shown in the tables below, the following options are also available on request:

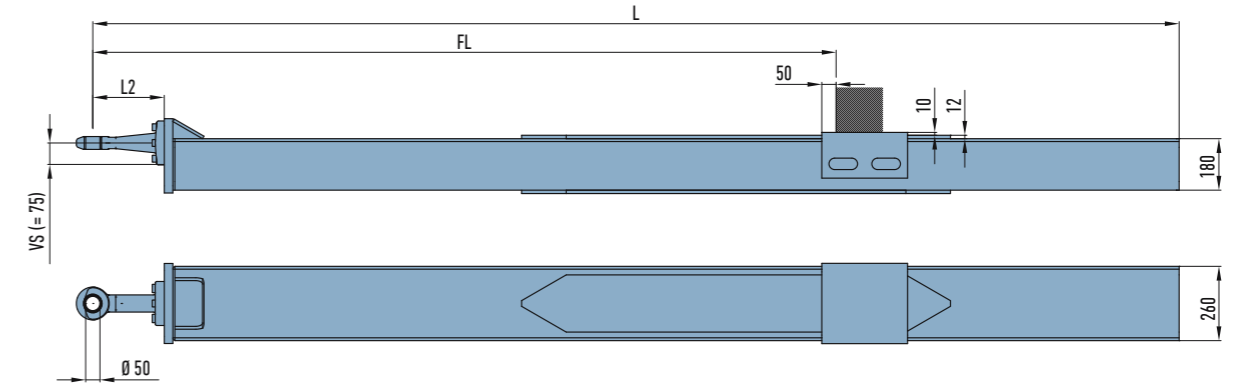
- ▶ Special versions with a higher V value
- ▶ Use of other towing eye types
- ▶ Other dimensions

Please see the data sheet on our website for further information. Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.



ZD series, rigid, with height offset towing eye

(ECE approval)



TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	LENGTH OF ADJUSTING RAIL LV (mm)	MAX. V VALUE (kN) DRAWBAR LOAD (kg)		BPW NO.	WEIGHT (kg)		
					1,000	2,000				
ZD 20-1B ¹⁾ Dc = 130 kN 24 t Drawbar load 1,000 kg Drawbar load 2,000 kg Tube 220 x 220 ECE no. E1-55R-012557	Ø 50 D50-C DIN 74053-50D1 L2 = 250	2,900	1,700	1,400 - 1,700 mm	90.0	75.0	51.33.20.0002	260		
		3,200	1,800		90.0	75.0				
			1,900		90.0	75.0				
		3,500	2,000	87.0	75.0	Drilling pattern 335 x 50 x Ø 17	82.4	72.6	51.33.20.0003	315
			2,100	78.2	68.4					
			2,200	74.4	64.6					
			2,300	70.9	61.1					
		3,800	2,400	67.7	57.8	51.33.20.xxxx	64.7	54.9		336
			2,500							
			2,600							

¹⁾ Combination of ZD20-1B with bolted crossmembers on request (with individual certificate).

TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	TOWING EYE OFFSET VS (mm)	MAX. V VALUE (kN)	BPW NO.	WEIGHT (kg)
ZD 24-2A ²⁾ Dc = 130 kN 24 t Drawbar load 1,000 kg Tube 260 x 180 ECE no. E1-55R-012558	Ø 50 D50-C DIN 74053-50D1 L2 = 250	2,900	1,700	75 (Standard)	81.2	51.31.24.xxxx	250
		3,200	1,800		81.2		
			1,900		81.2	51.31.24.0140	275
		3,500	2,000		75.0		
			2,100		72.9		
			2,200		69.7	51.31.24.xxxx	300
			2,300		66.3		
		3,800	2,400		63.1	51.31.24.0130	325
			2,500		60.1		
			2,600		57.5		

²⁾ The standard height offset of the towing eye is 75 mm. Other special dimensions available on request.

For use of other towing eye types, see page 36. For additional U-bolts, see page 22.

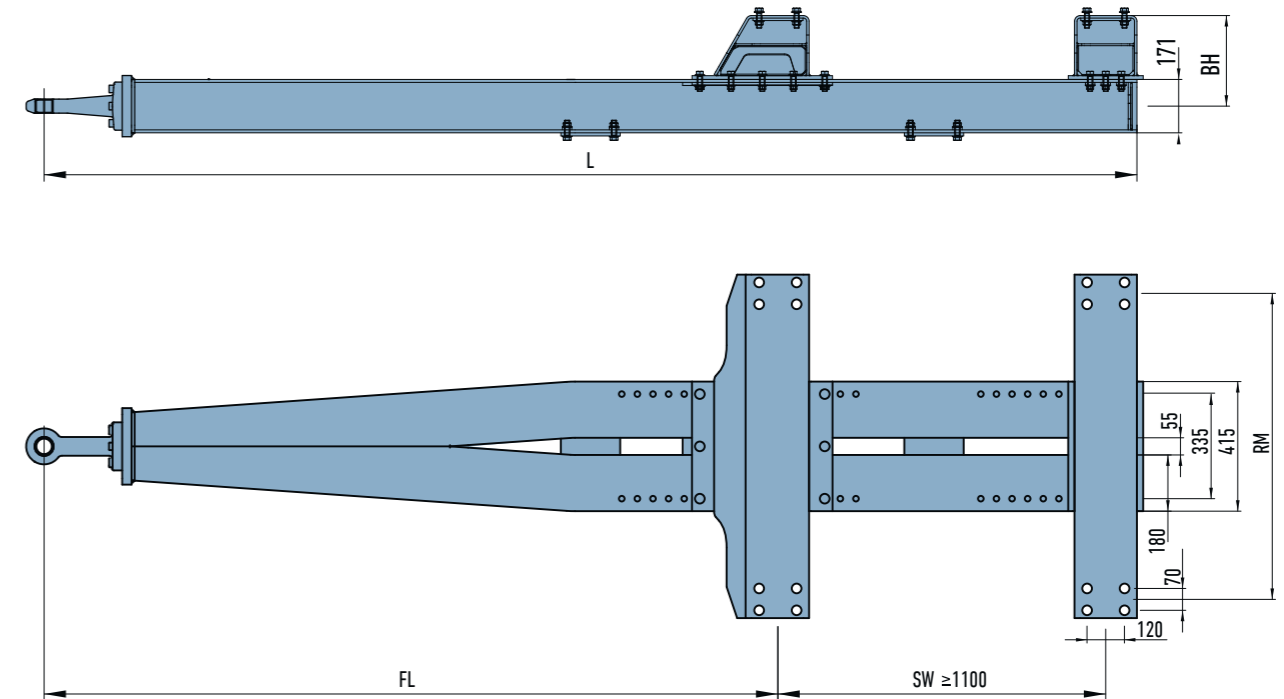
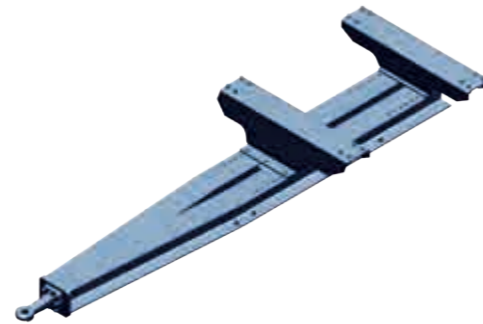
BPW modular rigid drawbar up to 24,000 kg

ZDM 20 series, rigid, crossmembers bolted on

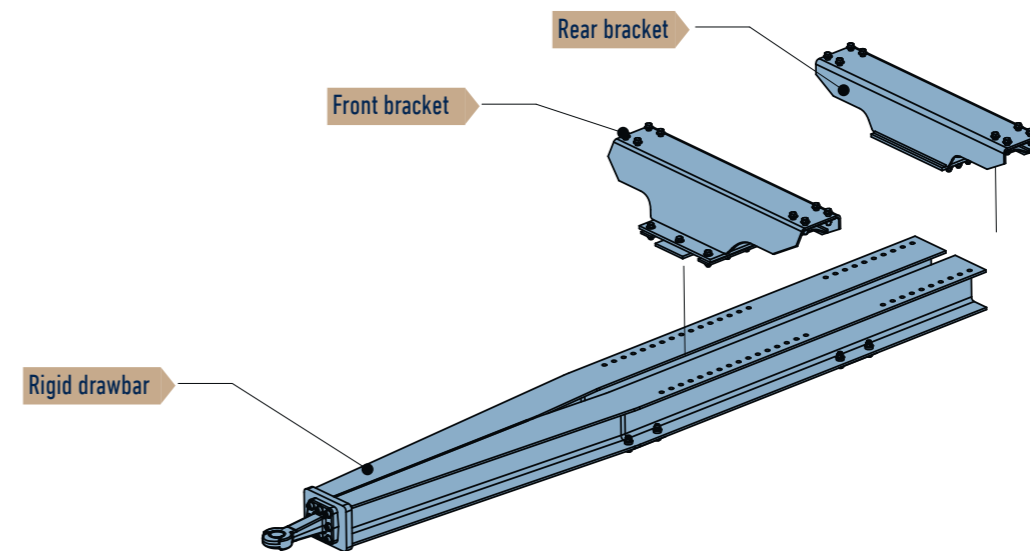
The ZDM 20 modular rigid drawbar consists of a rigid drawbar and two bolt-on crossmembers. With minimum supporting width (SW) of 1,100 mm, these can be bolted on every 50 mm.

The as-delivered condition is unmounted. Pre-assembled units are also available on request.

Use of the crossmembers in combination with other series is available on request. (See assembly and operating instructions.)



TYPE	TOWING EYE (DIN)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	FRAME CENTRE RM (mm)	OVERALL HEIGHT BH (mm)	MAX. V VALUE (kN)	BPW NO.	WEIGHT (including crossmembers, kg)
ZDM 20 Dc = 130 kN 24 t Support width (SW) min. 1,100 mm Drawbar load 1,000 kg HEA profile 180 With individual certificate	Ø 50 D50-C DIN 74053-50D1	3,500	2,100	980	220	63.2	51.34.20.0017	388
			2,150			61.5		
			2,200			59.9		
			2,250			58.3		
			2,300			56.8		
		3,800	2,350			55.4		
			2,400			54.1		
			2,450			52.8		
			2,500			51.5		
			2,550			50.3		
		4,200	2,600			49.2		
			2,650			48.0		
			2,700			47.0		
			2,750			45.9		
			2,800			44.9		
	2,850	44.0						
	2,900	43.1						
	2,950	42.2						
	3,000	41.3						



If the brackets (front and rear) are delivered unassembled, they must be bolted on in accordance with the assembly and operating instructions (FL = in accordance with type plate). Characteristic values for rigid drawbar and brackets in accordance with drawbar type plate. The drawbar is only to be used with the brackets from BPW.

TYPE	OVERALL HEIGHT BH (mm)	FRAME CENTRE RM (mm)			
		980	1,100	1,200	1,300
Crossmember set Front/rear for ZDM 20	220	09.801.22.98.0	09.801.22.11.0	09.801.22.12.0	09.801.22.13.0
	270	09.801.27.98.0	09.801.27.11.0	09.801.27.12.0	09.801.27.13.0
	320	09.801.32.98.0	09.801.32.11.0	09.801.32.12.0	09.801.32.13.0
	370	09.801.37.98.0	09.801.37.11.0	09.801.37.12.0	09.801.37.13.0
	420	09.801.42.98.0	09.801.42.11.0	09.801.42.12.0	09.801.42.13.0
	470	09.801.47.98.0	09.801.47.11.0	09.801.47.12.0	09.801.47.13.0
	520	09.801.52.98.0	09.801.52.11.0	09.801.52.12.0	09.801.52.13.0
	570	09.801.57.98.0	09.801.57.11.0	09.801.57.12.0	09.801.57.13.0

Crossmember set can be welded on on request.

BPW rigid drawbars up to 24,000 kg ZFL20 series, length adjustable

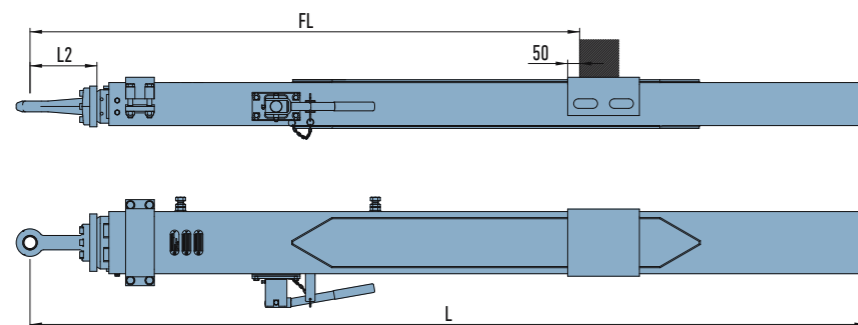
(ECE approval)

In addition to the standard dimensions shown in the tables below, the following options are also available on request:

- ▶ Adjustment up to 6 x 100/8 x 100 mm
- ▶ Special adjustment for through-loading operation
- ▶ Special versions with higher V value
- ▶ Use of other towing eye types
- ▶ Other dimensions

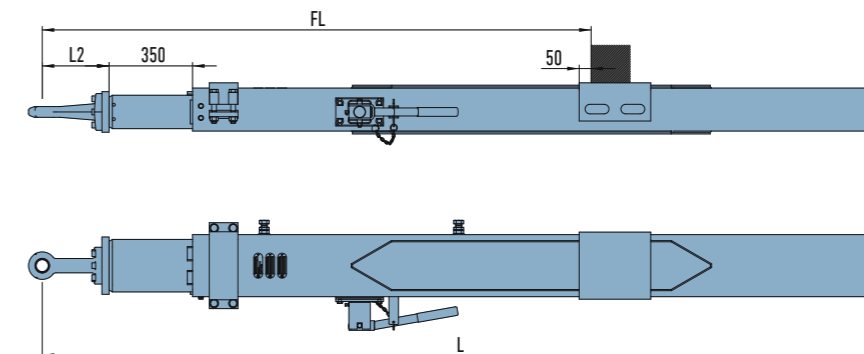
As standard, the length-adjustable BPW ZFL20 rigid drawbar features **handle adjustment of 4 x 100 mm**. Pneumatic adjustment is available on request (can also be retrofitted). The stated V values are for the adjustment 0 mm (basic state) and 4 x 100 mm.

Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.



ZFL20 series, length-adjustable, inner tube extended 350 mm in basic position

(ECE approval)



TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (MM)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE FOR ADJUSTMENT 0/4 X 100 (kN) DRAWBAR LOAD (kg)		BPW NO.	WEIGHT (kg)
				1,000	2,000		
ZFL20-1A Drawbar load 1,000 kg ZFL20-3A Drawbar load 2,000 kg Dc = 130 kN 24 t Tube 260 x 180 with weld-in U-bolt ECE no. E1-55R-012554	Ø 50 D50-C DIN 74053-50D1 L2 = 280	2,900	1,700	90/76	75/66	51.21.21.xxxx	350
		3,200	1,800	90/76	75/66		375
			1,900	90/73	75/63		
		3,500	2,000	86/70	75/60		405
			2,100	81/66	71/57		
			2,200	77/63	67/54		
			2,300	73/61	63/51		
		3,800	2,400	70/58	60/48		430
			2,500	66/56	57/46		
				2,600	63/54		54/44

Alternative versions available on request. For towing eyes, see page 36.
Additional weld-in U-bolt 03.114.00.04.0
Supplementary installation kit for pneumatic locking 09.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE FOR ADJUSTMENT 0/4 X 100 (kN) DRAWBAR LOAD (kg)		BPW NO.	WEIGHT (kg)
				1,000	2,000		
ZFL20-1A/A Drawbar load 1,000 kg ZFL20-3A/A drawbar load 2,000 kg Inner tube extended 350 mm in basic position Dc = 130 kN 24 t Tube 260 x 180 with weld-in U-bolt ECE no. E1-55R-012554	Ø 50 D50-C DIN 74053-50D1 L2 = 280	2,900	1,700	86/55	75/45	51.21.21.xxxx	335
		3,200	1,800	80/55	70/45		360
			1,900	80/55	70/45		
		3,500	2,000	80/55	70/45		390
			2,100	68/52	58/42		
			2,200	68/52	58/42		
			2,300	68/52	58/42		
		3,800	2,400	59/48	49/38		415
			2,500	59/48	49/38		
				2,600	59/48		49/38

Alternative versions available on request. For towing eyes, see page 36.
Additional weld-in U-bolt 03.114.00.04.0
Supplementary installation kit for pneumatic locking 09.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

BPW rigid drawbars up to 24,000 kg ZFL20 series, length-adjustable, bolted on with adjusting rail

(ECE approval)

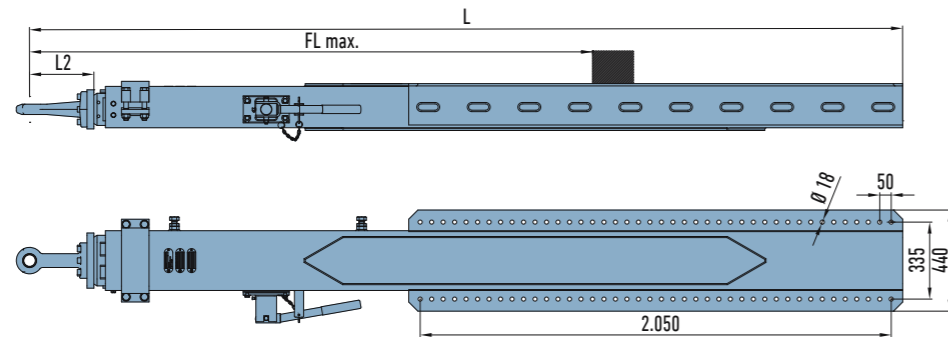
In addition to the standard dimensions shown in the tables below, the following options are also available on request:

- ▶ Adjustment up to 6 x 100/8 x 100 mm
- ▶ Special adjustment for through-loading operation
- ▶ Special versions with higher V value
- ▶ Use of other towing eye types
- ▶ Other dimensions

As standard, the length-adjustable BPW ZFL20 rigid drawbar features **handle adjustment of 4 x 100 mm**. Pneumatic adjustment is available on request (can also be retrofitted). The stated V values are for the adjustment 0 mm (basic state) and 4 x 100 mm.

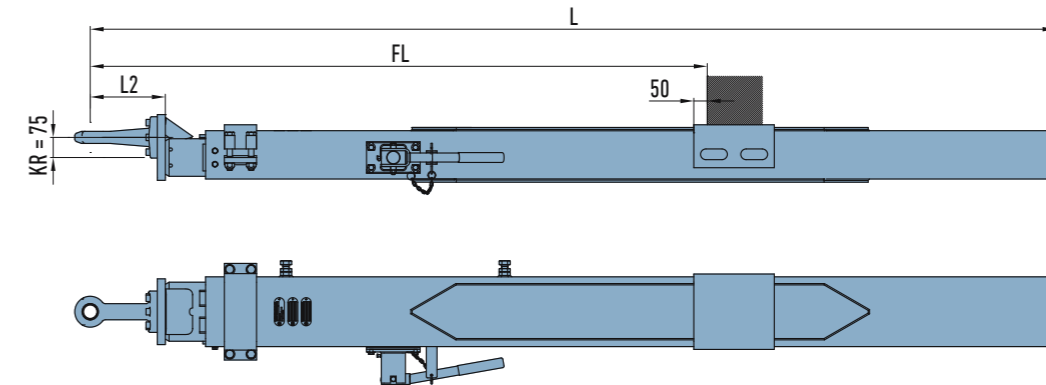


Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.



ZFL20 series, length adjustable, with height offset of the towing eye

(ECE approval)



TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (MM)	MAX. FREE DRAWBAR LENGTH FL (mm)	LENGTH OF AD- JUSTING RAIL LV (mm)	MAX. V VALUE FOR ADJUSTMENT 0/4 X 100 (kN)		BPW NO.	WEIGHT (kg)
					1,000	2,000		
ZFL20-1B Drawbar load 1,000 kg ZFL20-3B Drawbar load 2,000 kg Dc = 130 kN 24 t Tube 260 x 180 With adjusting rail Minimum support width SW = 1,200 mm EC no.: E4*94/20*1141*01	Ø 50 D50-C DIN 74053-50D1 L2 = 280	3,800	1,950	Drilling pattern 2050 x 335 x 50 x Ø 18	88/71	75/61	51.21.21.xxxx	505
			2,000		86/70	75/60		
			2,100		81/66	71/57		
			2,200		77/63	67/54		
			2,300		73/61	63/51		
			2,400		70/58	60/48		
		4,100	2,500	66/56	57/46			
			2,600	63/54	54/44			
			2,700	61/52	51/42			
			2,750	59/51	49/41			

Alternative versions available on request. For towing eyes, see page 36.
Supplementary installation kit for pneumatic locking 09.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	TOWING EYE OFFSET VS (MM)	MAX. V VALUE FOR ADJUSTMENT 0/4 X 100 (kN)	BPW NO.	WEIGHT (kg)		
								ZFL20-2A Drawbar load 1,000 kg With height offset of towing eye Dc = 130 kN 24 t Tube 260 x 180 with weld-in U-bolt ECE no.: E1-55R-012554	Ø 50 D50-C DIN 74053-50D1 L2 = 280
3,000	1,700	90/58	355						
3,300	1,800	87/58	380						
3,600	1,900	82/58	380						
3,900	2,000	77/58	410						
3,600	2,100	73/58	410						
3,900	2,200	69/57	410						
3,900	2,300	66/55	435						
3,900	2,400	63/52	435						
3,900	2,500	60/50	435						
3,900	2,600	57/48	435						

Alternative versions available on request. For towing eye, see page 36.
Additional weld-in U-bolt 03.114.00.04.0
Supplementary installation kit for pneumatic locking 09.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

BPW modular rigid drawbars up to 24,000 kg ZFL20 series, length adjustable with bolted crossmembers

(Individual certificate)

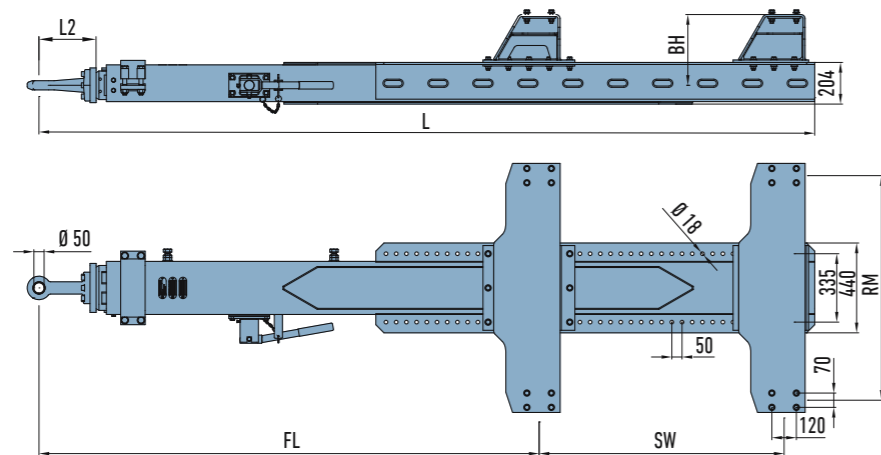
The rigid drawbars in the ZFL20 series can also be supplied as modular systems with crossmembers that can be bolted. With a minimum support width (SW) of 1,200 mm, the crossmembers can be bolted on every 50 mm.

The as-delivered condition is unmounted. Pre-assembled units are also available on request.

The stated V values are for the adjustment 0 mm (basic state) and 4 x 100 mm.

Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.

Use of the crossmembers in combination with other series is available on request.



TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	ADJUSTING RAIL LV (mm)	FRAME CENTRE RM (mm)	OVERALL HEIGHT BH (mm)	V VALUE FOR ADJUSTMENT 0/4 X 100 (kN)	WEIGHT FOR FRAME CENTRE (RM) = 1,100 BH = 346 (kg)
ZFL20-1B With bolted crossmembers Drawbar load 1,000 kg Dc = 130 kN 24 t Tube 260 x 180 With adjusting rail Minimum support width SW = 1,200 mm In modular design With individual certificate	Ø 50 D50-C DIN 74053-50D1 L2 = 280	3,800	1,950	Drilling pattern 2050 x 335 x 50 x Ø 18	980 1,100 1,200 1,300	246 296 346 395 446 496 546 596	88/71	685
			2,000				86/70	
			2,100				81/66	
			2,200				77/63	
			2,300				73/61	
			2,400				70/58	
	4,100	2,500	66/56					
		2,600	63/54					
		2,700	61/52					
		2,750	59/51					

Alternative versions available on request. For towing eyes, see page 36.
Supplementary installation kit for pneumatic locking 09.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

BPW rigid drawbars up to 13,500 kg ZFL13.5 series, length adjustable

(Individual certificate)

With the ZFL13.5, BPW also offers a length-adjustable drawbar for vehicles up to 13.5 t permissible gross weight. In addition to the standard dimensions shown in the tables below, the following options are also available on request:

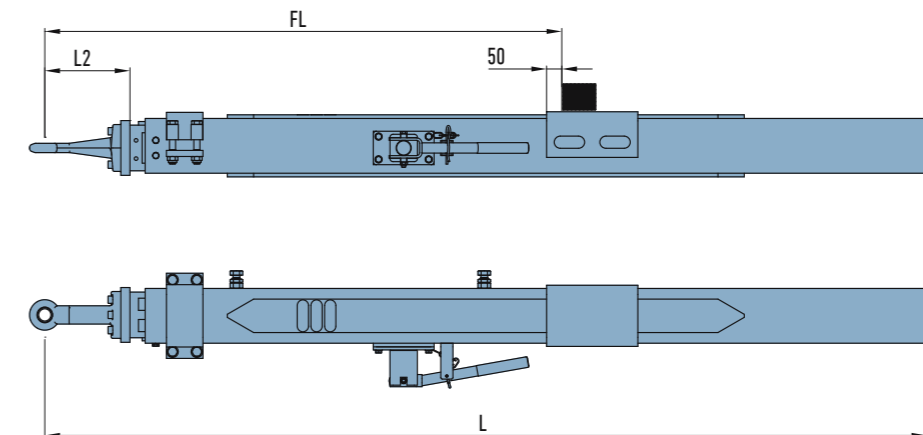
- ▶ Adjustment up to 6 x 100/8 x 100 mm
- ▶ Special adjustments
- ▶ Use of other towing eye types
- ▶ Other dimensions

As standard, the length-adjustable BPW ZFL13.5 rigid drawbar features **handle adjustment of 4 x 100 mm**. Pneumatic adjustment is available on request (can also be retrofitted).



The stated V values are for the adjustment 0 mm (basic state) and 4 x 100 mm.

Please note that the permissible Dc and V values of the rigid drawbar must be tailored to the desired towing eye and trailer coupling.



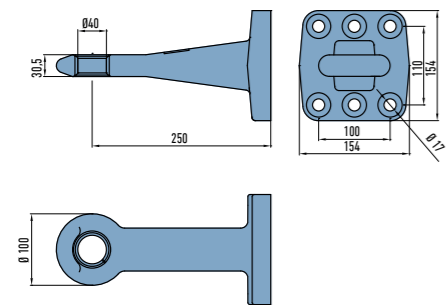
TYPE	TOWING EYE (DIN) L2 (mm)	TOTAL LENGTH L (mm)	MAX. FREE DRAWBAR LENGTH FL (mm)	MAX. V VALUE FOR ADJUSTMENT 0/4 X 100 (kN)	BPW NO.	WEIGHT (kg)
ZFL13.5-1A Drawbar load 1,000 kg Dc = 90 kN 13.5 t Tube 180 x 180 With weld-on U-bolt With individual certificate	Ø 40 ZE 13/1 DIN 74054-40D L2 = 280	2,900	1,700	53/41	51.21.13.xxxx	265
			1,800	50/39		280
		3,200	1,900	47/37		295
			2,000	44/35		
			2,100	41/33		
			2,200	39/31		
		3,500	2,300	37/30		310
			2,400	35/28		
3,800	2,500	33/27				
	2,600	31/26				

Alternative versions available on request. For towing eyes, see page 36.
Additional weld-on U-bolt 03.114.76.07.0
Supplementary installation kit for pneumatic locking 05.801.95.37.0
Supplementary installation kit for manual locking 09.801.90.71.0

BPW rigid drawbars – general information

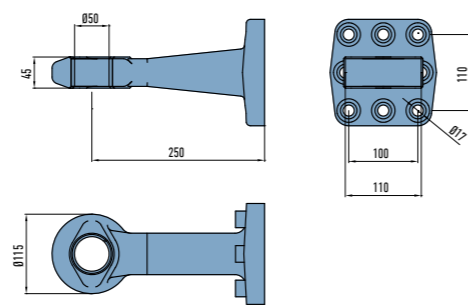
Towing eyes and bolt-on flanges

With its range of rigid drawbars, BPW offers a comprehensive modular system that enables individual combinations. Below is an overview of the BPW standard product range.



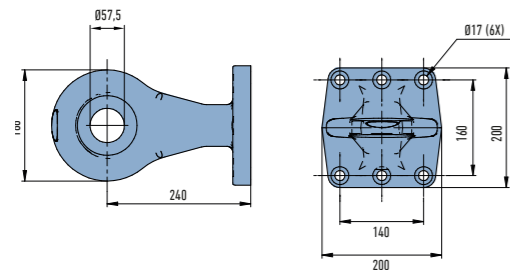
Towing eye DIN 40 (ZE/13)
ECE no. E1-55R-012577
51.30.14.0002

Bolt (6 units)
02.5015.64.12



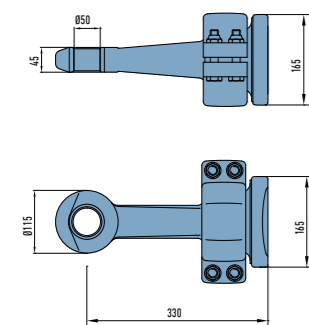
Towing eye DIN 50 (D50-D1)
02.4904.27.00

Bolt (8 units)
02.5015.64.12

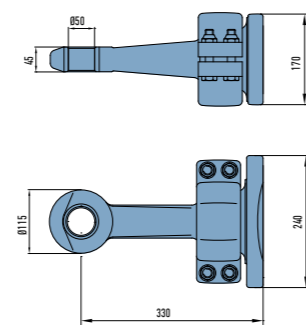


Towing eye Type VBG-15
ECE no. E4-55R-010084
02.4904.25.00

Bolt (6 units)
02.5015.66.23



Towing eye DIN 50 (480)
02.4904.17.00

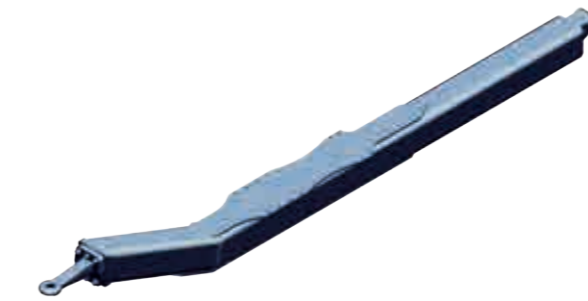


Towing eye DIN 50 (480/1)
02.4904.22.00

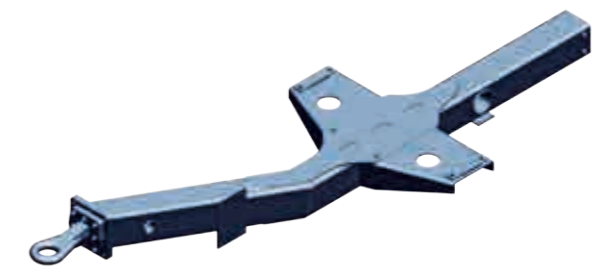
BPW rigid drawbars – general information

Special versions

In addition to the modular system, BPW also offers a range of individual solutions and can therefore also fulfil specific customer requirements. Below is a selection from the special design range.



ZDK series



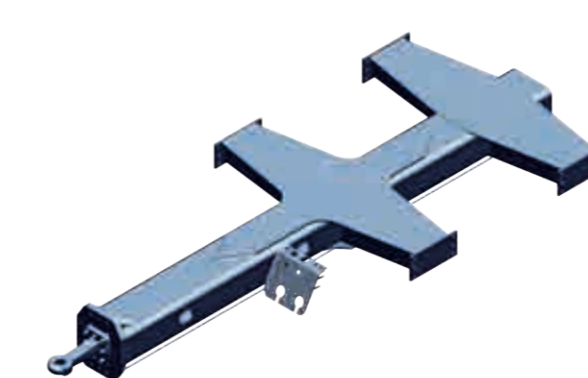
ZDK series with crossmember



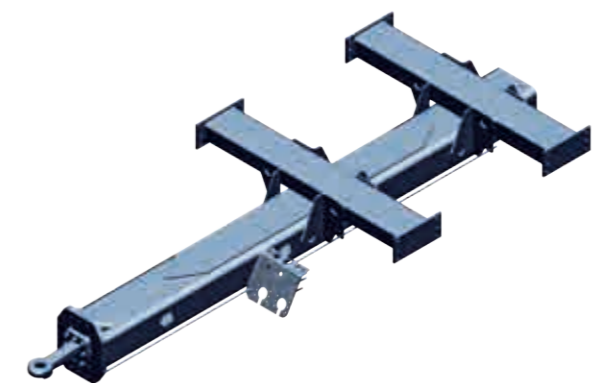
ZFLK series



ZFL series

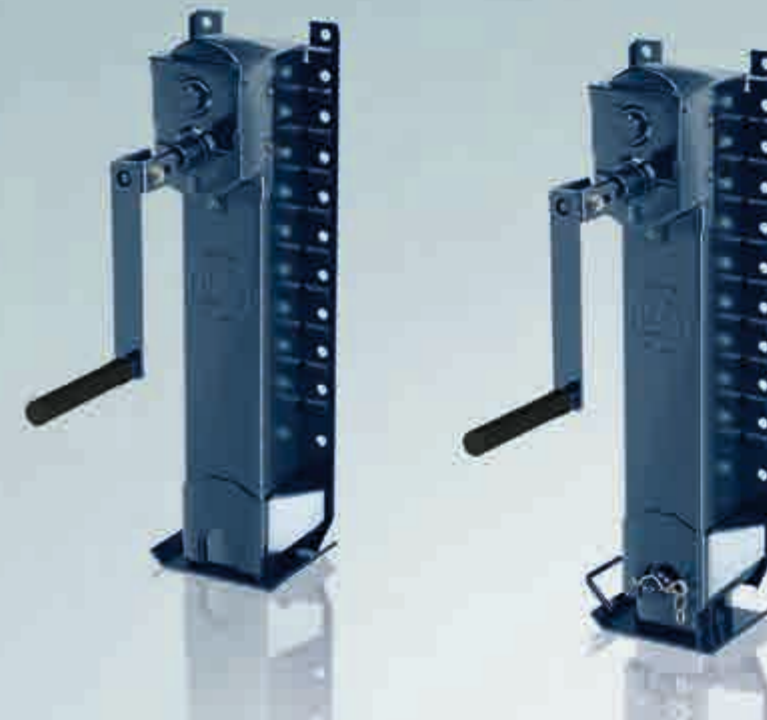


ZD series with crossmembers

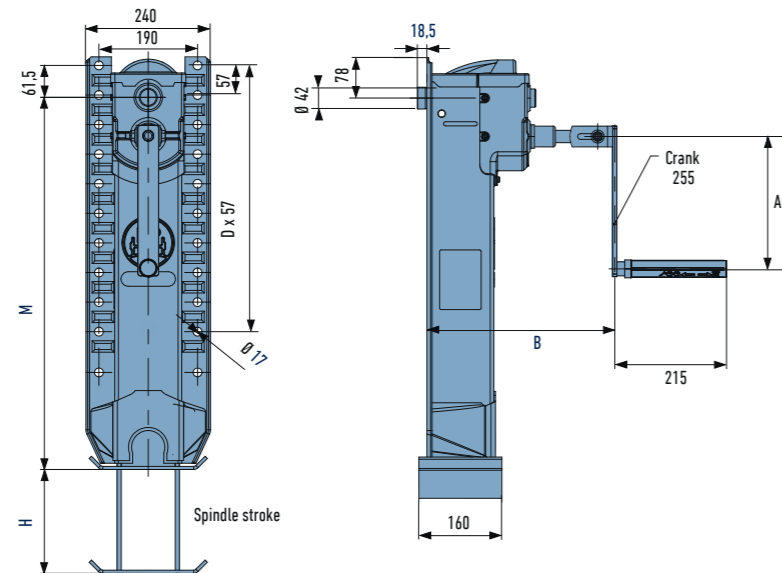


ZD series with crossmembers

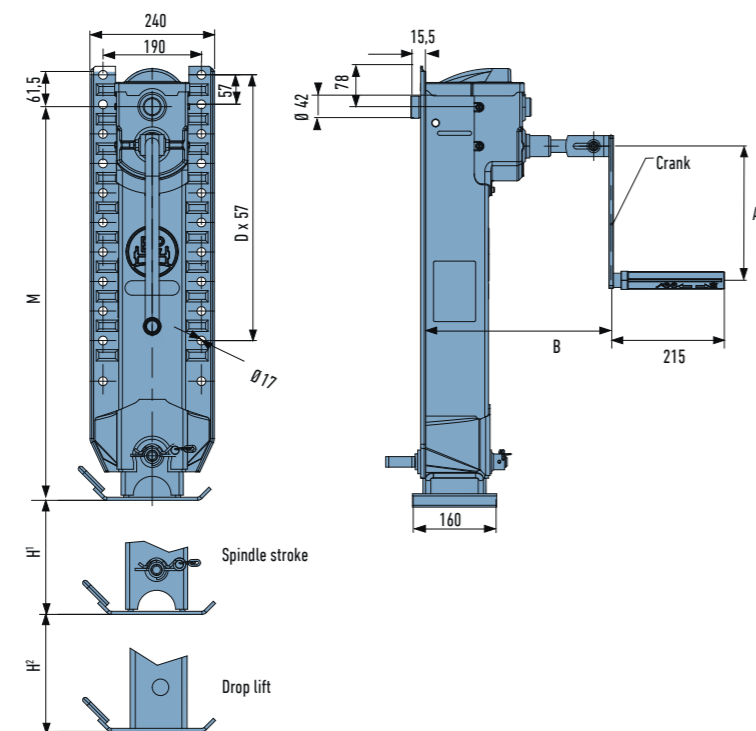
For centre axle drawbar trailers. BPW drawbar supports.



BPW drawbar support



BPW drawbar support
with additional drop-down height



BPW DRAWBAR SUPPORTS – YOUR BENEFITS AT A GLANCE

Robust

Perfect for heavy-duty trailer use, thanks to the reinforced shaft for the absorption of lateral forces and the continuous fastening plate for optimum strength. And all of this has reliability built-in, as all BPW drawbar supports are tested before delivery to ensure maximum product reliability.

Convenient

The long, continuously perforated fastening plate for different fastening positions ensures easy, flexible installation. Low crank forces facilitate day-to-day tasks.

Cost effective

Benefits that pay off: The BPW landing gear is extra-light, which makes it the top choice when every kilo of usable load counts. The longlife lubrication with BPW ECO-Li 91 means that the BPW landing gear requires no maintenance for three years. Another selling point is the very low wear and optimal protection from corrosion through high-quality coatings.

TECHNICAL DATA	LENGTH M (mm)	SIZE H (mm)	QUANTITY D (mm)	BPW NO.
Landing legs ²⁾	760	400 spindle stroke 410 drop lift	9	02.3711.11.00 ¹⁾
Lifting capacity 12 t (with drop-down height 10 t)	715	470	9	02.3711.00.00
Static load 25 t (with drop-down height 12 t)	665	420	9	02.3711.01.00
Travel per stroke rotation Slow gear 0.8 mm Fast gear 9.6 mm	620	375	8	02.3711.02.00
Crank force at 16 t load 200 N	570	325	7	02.3711.03.00

¹⁾ Detachable. Alternative versions available on request.

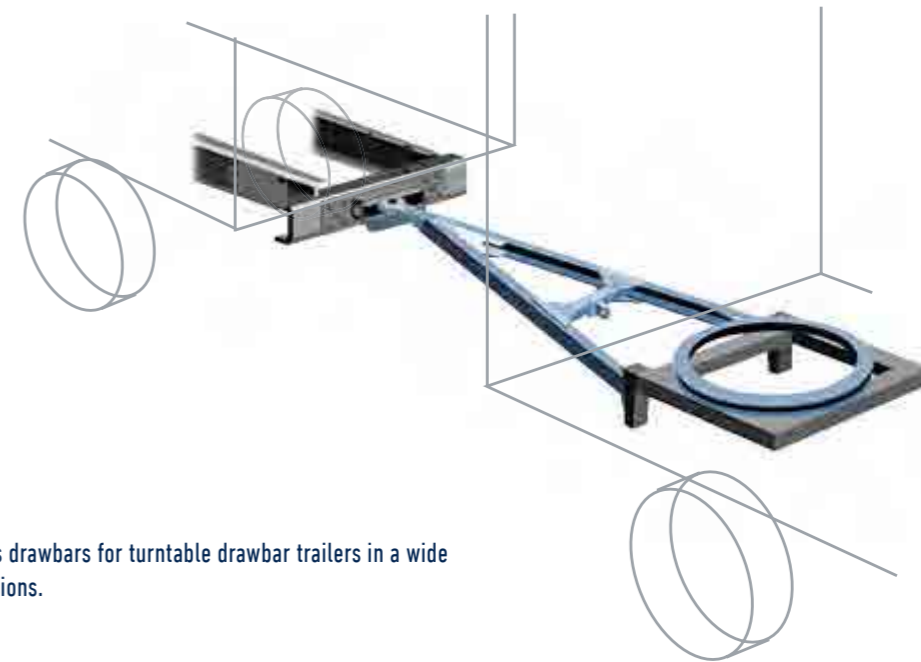
²⁾ Dimension A = 255 mm, Dimension B = 328 mm, Dimension C = 362 mm, BPW NO. 02.1404.00.01
Chain as holder for the crank: 02.1810.37.00



The perfect combination for turntable drawbar trailers. Drawbars from BPW.

BPW drawbars for turntable drawbar trailers with a permissible gross weight of 12 to 48 t form the perfect link between tractor units and trailers with turntable steering. BPW supplies all the versions that are required in practice, such

as straight or angled towing eyes, or with length adjustment and/or cranked. In addition to this, all BPW standard drawbars have ECE approval and special versions are type approved.



BPW supplies drawbars for turntable drawbar trailers in a wide range of versions.

BPW DRAWBARS – FEATURES AND BENEFITS

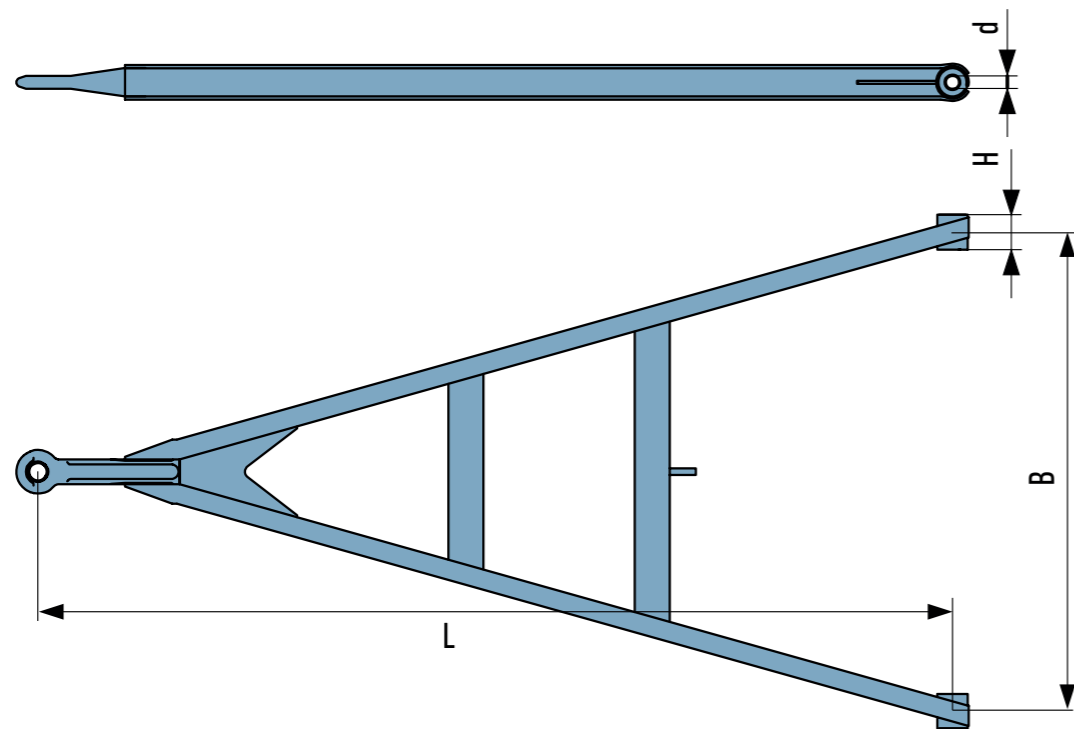
- ▶ For turntable drawbar trailers with a permissible gross weight of 12 to 48 t
- ▶ Common dimensions are available immediately
- ▶ With ECE approval or individual certificate
- ▶ Treated with zinc phosphate, with cathoretic dip-coating (KTL_{zn})
- ▶ High level of corrosion resistance due to galvanized towing bars on length-adjustable drawbars
- ▶ Various versions available:
 - ▶ With angled towing eye
 - ▶ With fixed centre tube
 - ▶ Straight or cranked
 - ▶ Length adjustable
 - ▶ With swivelling eye
 - ▶ With semi-automatic or pneumatic length adjustment
 - ▶ With low-maintenance silent bushes

BPW drawbars up to 48,000 kg

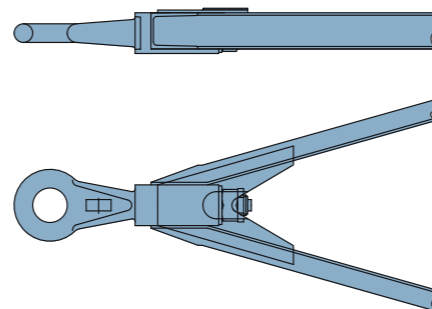
TBZ series made of U normal profile

(ECE approval)

The TBZ 27 and 32 series have towing eyes with Ø 40 mm (DIN 74054-40A) as standard. All drawbars are also available with towing eyes Ø 50 mm (DIN 74053-50A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE OF TOWING EYE	Ø BUSH (mm)	TBZ 27	TBZ 32	TBZ 48
DIN 74054-40A/40B	40	•	•	
DIN 74053-50A/50B	50	•	•	•
VBG 15-0173/16-0895	57.5/50	•	•	•
NATO	76	•	•	•
Switzerland	40	•	•	
BNA (screw-in)	68	•	•	•
T56 heavy-duty towing eye	40			•



TBZ 27 drawbar also available with screw-in eye on request.

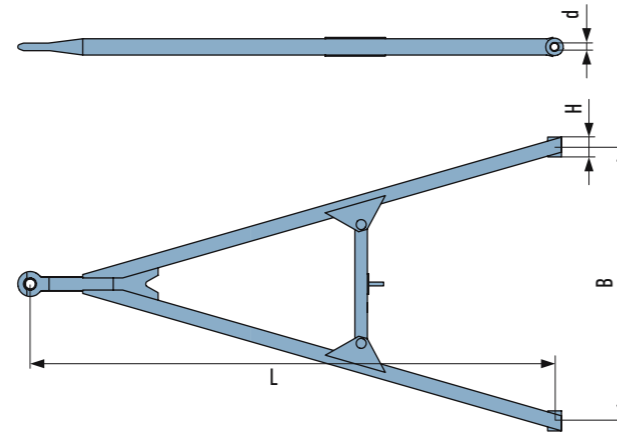
TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
TBZ 27 D = 125 kN 27 t Max. front-axle load 12 t ECE no. E1-55R-012491 Profile U 80 Option of screw-in towing eye	1,100	860	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	31.0
	1,200				33.0
	1,300				35.0
	1,400				37.0
	1,500				39.0
	1,600				41.0
	1,700				42.5
	1,800				44.0
	1,900				45.5
	2,000				47.0
	2,100				51.0
	2,200				52.5
	2,300				54.0
	2,400				56.0
	2,500				58.0
	2,600				60.0
	2,700				61.5
2,800	63.0				
2,900	64.5				
3,000	66.0				
TBZ 32 D = 125 kN 32 t Max. front-axle load 16 t ECE no. E1-55R-012498 Profile U 100	1,400	330	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	41.0
	1,500				43.0
	1,600				45.0
	1,700				47.0
	1,800				49.0
	1,900				51.0
	2,000				53.0
	2,100				56.0
	2,200				60.0
	2,300				62.0
	2,400				64.0
	2,500				66.0
	2,600				68.0
	2,700				70.0
	2,800				72.0
	2,900				74.0
	3,000				76.0
TBZ 482) D = 190 kN 48 T Max. front-axle load 24 t ECE NO. E1-55R-012497 Profile U 120	1,500	860	100/30 ¹⁾ Special dimensions 102/32 ³⁾ 100/35 100/40 ⁴⁾	1	62.0
	1,600				64.5
	1,700				67.0
	1,800				69.5
	1,900				72.0
	2,000				77.0
	2,100				79.0
	2,200				82.0
	2,300				85.0
	2,400				87.5
	2,500			90.0	
	2,600			93.0	
	2,700			98.0	
	2,800			100.5	
	2,900			103.0	
	3,000			105.5	
	3,100			108.0	
	3,200			111.0	
	3,300			114.0	
	3,400			116.0	
3,500	118.0				
				2	
					82.0
					85.0
					87.5
					90.0
					93.0
					98.0
					100.5
					103.0
					105.5
				3	
					108.0
					111.0
					114.0
					116.0
					118.0

¹⁾ Also available on request with low-maintenance silent bush (see page 60). ²⁾ Available with towing eye type 56 (heavy-duty towing eye) and type VBG as standard
³⁾ With Kronrohr block ⁴⁾ Brass bush

BPW drawbars up to 27,000 kg SL series made from lightweight U profile

(ECE approval)

With towing eye Ø 40 mm (DIN 74054-40 A) as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



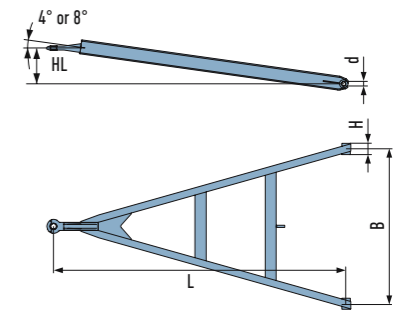
TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
SL 12 D = 82.4 kN 12 t Max. front-axle load 6 t ECE no. E1-55R-012506 Profile 65/57.5/4	1,400	800	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	27.0
	1,500				28.0
	1,600				29.0
	1,700				30.0
	1,800				31.0
	1,900				32.0
	2,000				33.0
	2,100				34.0
	2,200				35.0
	2,300				37.0
SL 27 D = 125 kN 27 t Max. front-axle load 12 t ECE no. E1-55R-012508 Profile 80/70/6	1,400	800	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	39.0
	1,500				41.0
	1,600				42.5
	1,700				44.0
	1,800				45.5
	1,900				47.0
	2,000				50.0
	2,100				52.0
	2,200			54.0	
	2,300			56.0	
	2,400			58.0	
	2,500			62.0	
	2,600			64.0	
	2,700			66.0	
	2,800			68.0	
	2,900			68.0	

¹⁾ Also available on request with low-maintenance silent bush (see page 60).

BPW drawbars up to 32,000 kg ZGS series with angled towing eye

(ECE approval)

With towing eye Ø 40 mm (DIN 74054-40 A) as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	CROSS STRUTS Quantity	HEIGHT OFFSET HL approx. mm (4°/8°)	WEIGHT Approx. kg
ZGS 27 D = 125 kN 27 t Max. front-axle load 12 t ECE no. E1-55R-012512 Profile UNP 80	1,400	600	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	84 168	37.0
	1,500				91 182	39.0
	1,600				98 196	41.0
	1,700				105 210	42.5
	1,800				112 224	44.0
	1,900				119 238	48.0
	2,000				126 252	49.5
	2,100				133 266	51.0
	2,200			140 280	52.5	
	2,300			146 294	54.0	
	2,400			153 308	56.0	
	2,500			160 323	58.0	
	2,600			167 337	60.0	
	2,700			174 351	62.0	
	2,800			181 365	64.0	
	2,900			188 379	66.0	
	3,000			195 393	68.0	
ZGS 32 D = 125 kN 32 t Max. front-axle load 16 t ECE no. E1-55R-012511 Profile UNP 100	1,400	600	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	1	84 168	41.0
	1,500				91 182	43.0
	1,600				98 196	45.0
	1,700				105 210	47.0
	1,800				112 224	49.0
	1,900				119 238	51.0
	2,000				126 252	53.0
	2,100				133 266	56.0
	2,200			140 280	60.0	
	2,300			146 294	62.0	
	2,400			153 308	64.0	
	2,500			160 323	66.0	
	2,600			167 337	68.0	
	2,700			174 351	70.0	
	2,800			181 365	72.0	
	2,900			188 379	74.0	
	3,000			195 393	76.0	
ZGS 48 ²⁾ D = 190 kN 48 t Max. front-axle load 20 t Individual certificate Profile UNP 120	1,400	860	1100/30 ¹⁾ Special dimensions 102/32 ³⁾ 100/35 100/40 ⁴⁾	1	84 168	59.5
	1,500				91 182	62.0
	1,600				98 196	64.5
	1,700				105 210	67.0
	1,800				112 224	69.5
	1,900				119 238	74.5
	2,000				126 252	77.0
	2,100				133 266	79.0
	2,200			140 280	82.0	
	2,300			146 294	85.0	
	2,400			153 308	87.5	
	2,500			160 323	90.0	
	2,600			167 337	93.0	
	2,700			174 351	96.0	

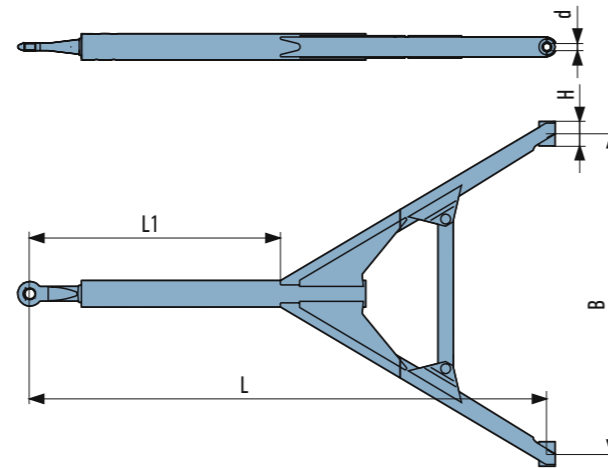
¹⁾ Also available on request with low-maintenance silent bush (see page 60). ²⁾ Available with towing eye type 56 (heavy-duty towing eye)

³⁾ With Kronrohr block ⁴⁾ Brass bush

BPW drawbars up to 26,000 kg PZM series with fixed centre tube

(ECE approval)

With towing eye Ø 40 mm (DIN 74054-40 A) as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



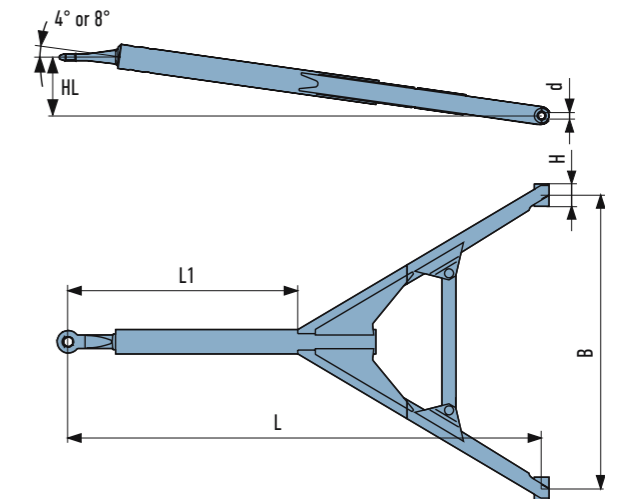
TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZM 26 D = 125 kN 26 t Max. front-axle load 10 t ECE no. E1-55R-012.500 Profile U 80/70/6 Towing bar Ø 108	1,600	860	100/30 ¹⁾ Special dimen- sions 80/28 80/30	740	1	70.0
	1,700			75.0		
	1,800			77.0		
	1,900			79.0		
	2,000			81.0		
	2,100			82.5		
	2,200			84.0		
	2,300			87.0		
	2,400			89.0		
	2,500			91.0		
	2,600			94.0		
	2,700			95.5		
	2,800			97.0		
	2,900			101.0		
	3,000			103.0		
	3,100			105.0		
	3,200			107.0		
	3,300			109.0		
3,400	112.0					

¹⁾ Also available on request with low-maintenance silent bush (see page 60).

BPW drawbars up to 26,000 kg PZMS series with fixed centre tube and angled towing eye

(Individual certificate)

With towing eye Ø 40 mm (DIN 74054-40 A) as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	CROSS STRUTS Quantity	HEIGHT OFFSET HL APPROX. MM (4°/8°)	WEIGHT Approx. kg
PZMS 26 D = 125 kN 26 t Max. front-axle load 10 t ECE no. E1-55R-012.500 Profile U 80/70/6 Towing bar Ø 108	1,600	860	100/30 ²⁾ Special dimen- sions 80/28 80/30	740	1	97	70.0
	1,700			104		75.0	
	1,800			111		77.0	
	1,900			118		79.0	
	2,000			125		81.0	
	2,100			132		82.5	
	2,200			139		84.0	
	2,300			146		87.0	
	2,400			153		89.0	
	2,500			160		91.0	
	2,600			167		94.0	
	2,700			174	95.5		
	2,800			181	97.0		
	2,900			188	101.0		
	3,000			195	103.0		
	3,100			202	105.0		
	3,200			209	107.0		
	3,300			218	109.0		
	3,400			223	112.0		

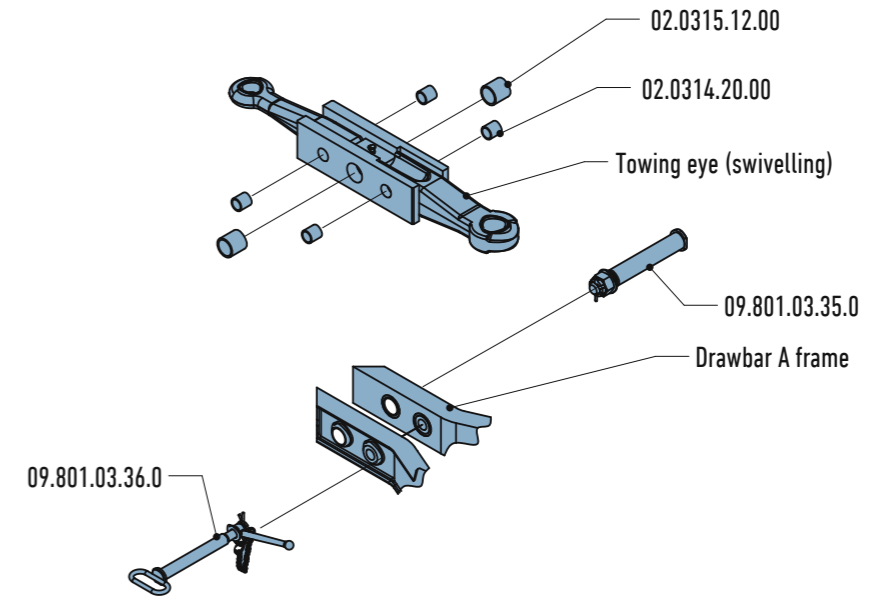
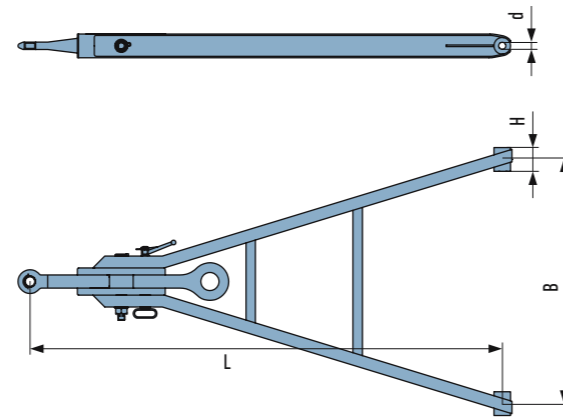
²⁾ Also available on request with low-maintenance silent bush (see page 60).

BPW drawbars up to 40,000 kg

PZS series with swivelling eye

(Individual certificate)

Available as standard with swivelling towing eye Ø 40 mm (DIN 74054-40 A) and towing eye Ø 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZS 26 D = 125 kN ¹⁾ 26 t Max. front-axle load 10 t Individual certificate Profile UNP 80	1,400	900	100/30 ²⁾ Special dimensions available on request	1	71
	1,500				73
	1,600				75
	1,700				77
	1,800				79
	1,900				81
	2			2,000	84
				2,100	86
				2,200	88
				2,300	90
				2,400	92
				2,500	94
				2,600	96
2,700	98				
PZS 32 D = 125 kN ¹⁾ 32 t Max. front-axle load 12 t Individual certificate Profile UNP 100	1,400	900	100/30 ²⁾ Special dimensions available on request	1	77
	1,500				79
	1,600				81
	1,700				83
	1,800				85
	1,900				87
	2			2,000	90
				2,100	92
				2,200	94
				2,300	96
				2,400	98
				2,500	100
				2,600	102
2,700	104				

¹⁾ The value depends on the selected towing eye combination (e.g. FBS max. 95 kN; NATO max. 120 kN).
²⁾ Also available on request with low-maintenance silent bush (see page 60).

TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZS 40 ³⁾ D = 175 kN ⁴⁾ 40 t Max. front-axle load 2x 10 t Individual certificate Profile UNP 120	1,600	900 980 1,000 1,100 1,200 1,300	100/30 ⁵⁾ Special dimensions available on request	1	90
	1,700				93
	1,800				95
	1,900				98
	2,000				102
	2,100				105
	2			2,200	107
				2,300	110
				2,400	112
				2,500	115
				2,600	117
				2,700	120

³⁾ Available as standard with swivelling towing eye DIN 40 and type 56 (heavy-duty towing eye). ⁴⁾ The value depends on the selected towing eye combination (e.g. Ø 40 max. 125 kN; FBS max. 95 kN). ⁵⁾ Also available on request with low-maintenance silent bush (see page 60).

SPARE PARTS FOR PZS AND PZSG	QUANTITY	BPW NO.
Silent bush 100/30	2	02.0316.06.00
Plastic bush 100/30	4	02.0315.22.00
Bolt 40 with castle nut, washer and split pin (retaining bolt)	1	09.801.03.35.0
Bolt 26 with locking handle, spring plug and chain (lock bolt)	1	09.801.03.36.0
Bush for lock bolt	4	02.0314.20.00
Bush for retaining bolt	2	02.0315.12.00
Towing eye 40/towing eye 50 swivelling	1	05.398.02.49.0
Towing eye 40/towing eye type 56 swivelling	1	05.398.02.28.0
Towing eye 40/FBS towing eye swivelling	1	05.398.40.14.0
Towing eye 40/NATO towing eye, swivelling	1	05.398.33.13.0
Towing eye 50/NATO towing eye, swivelling	1	05.398.02.50.0
Towing eye 40/towing eye 57.5 VBG15, swivelling	1	05.398.31.28.0

For towing eye types, see page 36.

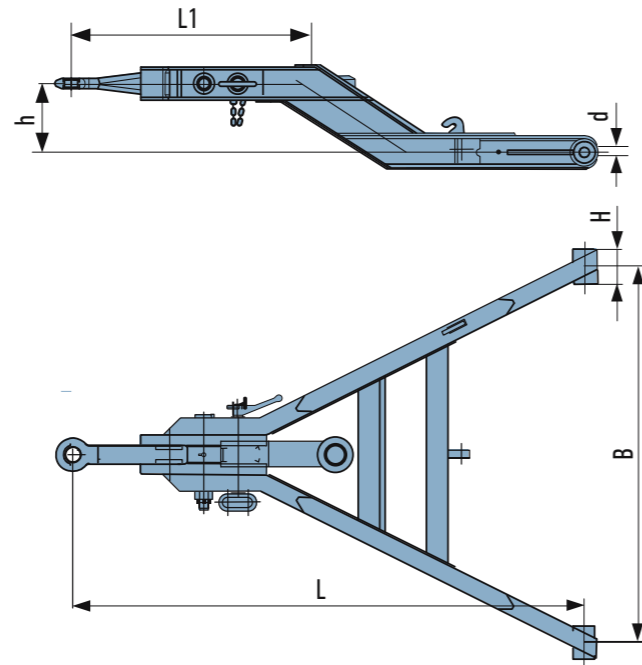
BPW drawbars up to 48,000 kg

PZSG series with swivelling eye and cranked

(Individual certificate)

Available as standard with swivelling towing eye Ø 40 mm (DIN 74054-40A) and heavy-duty towing eye Ø 50 mm (type 56), cranked h = 150 mm.

In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	CROSS STRUTS Quantity	CRANKED h (mm)	WEIGHT Approx. kg		
PZSG 48 D = 125/168 kN 48 t Max. front-axle load 24 t Individual certificate Profile UNP 100	1,400	860	100/30 ¹⁾ Special dimensions available on request	700	2	150	98		
	1,500						100		
	1,600						102		
	1,700						104		
	1,800						106		
	1,900						108		
	2,000			800	250	200	2	250	110
	2,100								112
	2,200								114
	2,300								116
	2,400								118
	2,500								120
	2,600								122

¹⁾ Also available on request with low-maintenance silent bush (see page 60).

BPW drawbars up to 48,000 kg

PZG series, cranked

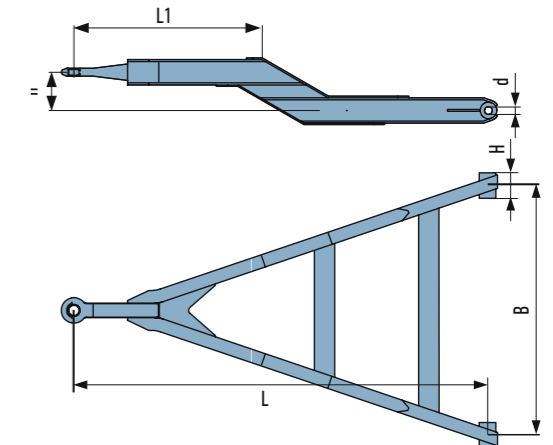
(With ECE approval or individual certificate)

PZG 18: with towing eye Ø 40 mm (DIN 74054-40 A) as standard

PZG 32: with towing eye Ø 40 mm (DIN 74054-40 A) and cranked h = 150 mm as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A)

PZG 48: with heavy-duty towing eye Ø 50 mm (type 56) as standard

In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	CROSS STRUTS Quantity	CRANKED H (mm)	WEIGHT Approx. kg		
PZG 18 D = 100 kN 18 t Max. front-axle load 9 t Individual certificate Profile UNP 80 (for h = 150)	1,400	860	100/30 Special dimensions 70/26 80/28 80/30	600	1	150	53		
	1,500						55		
	1,600						57		
	1,700						59		
	1,800						61		
	1,900						63		
	2,000			700	200	2	250	250	65
	2,100								67
	2,200								70
	2,300								73
	2,400								76
	2,500								80
	2,600								83
2,700	87								
2,800	90								
2,900	93								

						PZG 32	PZG 48			
PZG 32 D = 125 kN 32 t Max. front-axle load 20 t (dependent on L!) ECE no. E1-55R-012514 Profile UNP 100	1,400 1,500 1,600 1,700 1,800 1,900 2,000 2,100 2,200 2,300 2,400 2,500 2,600 2,700 2,800 2,900 3,000	860	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	600	1	150	58,0			
							60,0	69,0		
							62,0	72,0		
							65,0	75,0		
							67,0	78,0		
							69,0	81,0		
				71,0	700	200	2	250	250	84,0
				76,0						89,0
				78,0						92,0
				81,0						94,5
				83,0						97,0
				86,0						99,5
				88,0						102,0
91,0	105,0									
93,0	108,0									
96,0	111,0									
-	114,0									

¹⁾ Also available on request with low-maintenance silent bush (see page 60).

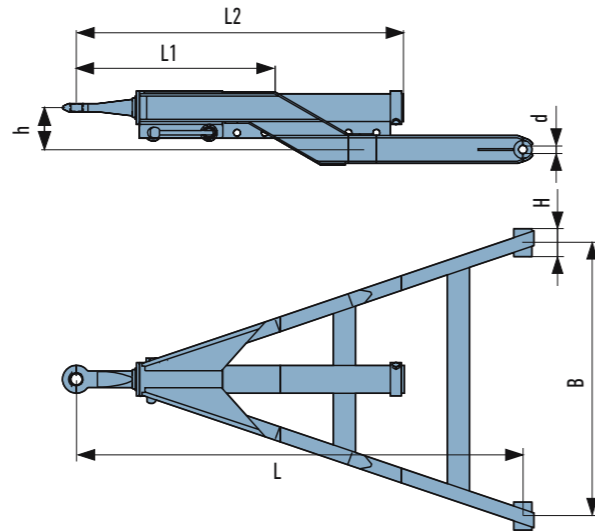
BPW drawbars up to 48,000 kg PZGL series, cranked and length-adjustable

(With ECE approval or individual certificate)

PZGL 32: with towing eye Ø 40 mm (DIN 74054-40 A), cranked h = 150 mm and length adjustment 12 x 50 mm as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). Also available with locking nuts on request (version V)

PZGL 48: with heavy-duty towing eye Ø 50 mm (type 56) as standard

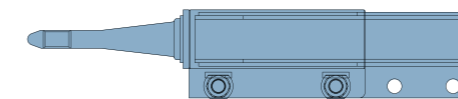
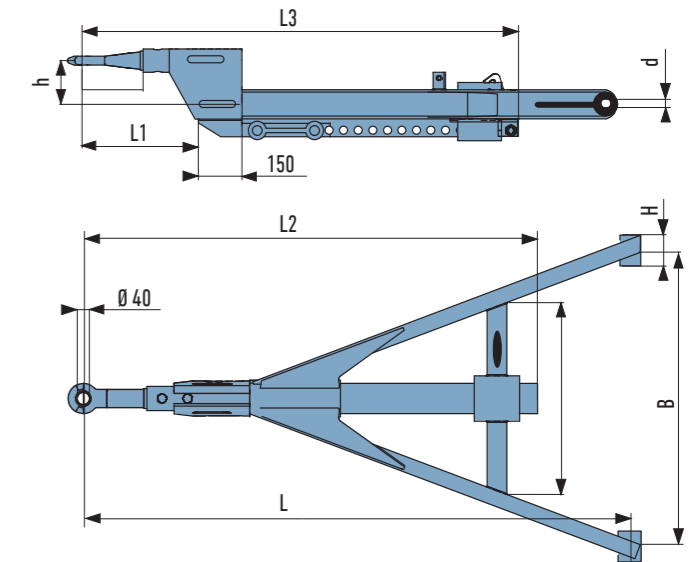
In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



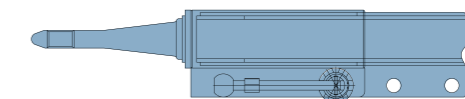
BPW drawbars up to 32,000 kg PZLG 32 series, length-adjustable and cranked (towing bar)

(Individual certificate)

With towing eye Ø 40 mm (DIN 74054-40 A), cranked h = 150 mm and length adjustment 12 x 50 mm as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). Also available with locking nuts on request (version V). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



Standard adjustable version 'E'
(with bolt and nut)



Optional at the request of the customer: variable
version 'V' (with bolt and locking nut)

TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZGL 32 D = 125 kN 32 t Max. front-axle load 10 t ECE no. E1-55R-012503 Profile UNP 100 Towing bar Ø 100	1,400	860	100/30 ¹⁾ Special dimensions available on request	600	12 x 50 (L ₂ = 1175)	1	106
	1,500						108
	1,600						110
	1,700						112
	1,800						114
	1,900						116
	2,000						118
	2,100						120
	2,200						124
	2,300						126
PZGL 48 ²⁾ D = 160 kN 48 t Max. front-axle load 24 t Individual certificate Profile UNP 100 Towing bar Ø 102	1,400	860	100/30 ¹⁾ Special dimensions available on request	600	6 x 50 (L ₂ = 875)	1	108
	1,500						110
	1,600						112
	1,700						114
	1,800						116
	1,900						118
	2,000						120
	2,100						126
	2,200						130
	2,300						132
PZGL 32 D = 120 kN 32 t Max. front-axle load 10 t Individual certificate Profile UNP 100	1,100	860	100/30 ³⁾ Special dimensions available on request	400	12 x 50 (L ₂ = 1,500)	1	104
	1,200						106
	1,300						108
	1,400						110
	1,500						112
	1,600						114
	1,700						116
	1,800						118
	1,900						120
	2,000						122
PZGL 32 D = 120 kN 32 t Max. front-axle load 10 t Individual certificate Profile UNP 100	2,100	860	100/30 ³⁾ Special dimensions available on request	400	12 x 50 (L ₂ = 1,500)	1	124
	2,200						126
	2,300						130
	2,400						132
	2,500						134
	2,600						136
	2,700						138
	2,800						140
	2,900						142
	3,000						144

¹⁾ Also available on request with low-maintenance silent bush (see page 60). ²⁾ Only version 'E' possible with adjustment (with nut and bolt).

TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L1 (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZLG 32 D = 120 kN 32 t Max. front-axle load 10 t Individual certificate Profile UNP 100	1,100	860	100/30 ³⁾ Special dimensions available on request	200	8 x 50 (L ₂ = 1,100)	1	104
	1,200						106
	1,300						108
	1,400						110
	1,500						112
	1,600						114
	1,700						116
	1,800						118
	1,900						120
	2,000						122
PZLG 32 D = 120 kN 32 t Max. front-axle load 10 t Individual certificate Profile UNP 100	2,100	860	100/30 ³⁾ Special dimensions available on request	400	12 x 50 (L ₂ = 1,500)	1	124
	2,200						126
	2,300						130
	2,400						132
	2,500						134
	2,600						136
	2,700						138
	2,800						140
	2,900						142
	3,000						144

³⁾ Also available on request with low-maintenance silent bush (see page 60).

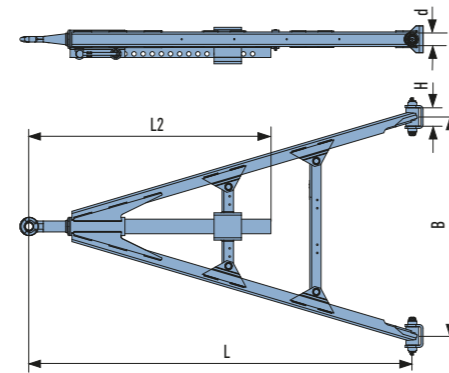
BPW drawbars up to 48,000 kg

PZL series, length adjustable

(With ECE approval or individual certificate)

With towing eye Ø 40 mm (DIN 74054-40 A) and length adjustment 12 x 50 mm as standard. All drawbars are also available with towing eye Ø 50 mm (DIN 74053-50 A). Also available with locking nuts on request (version V).

In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.

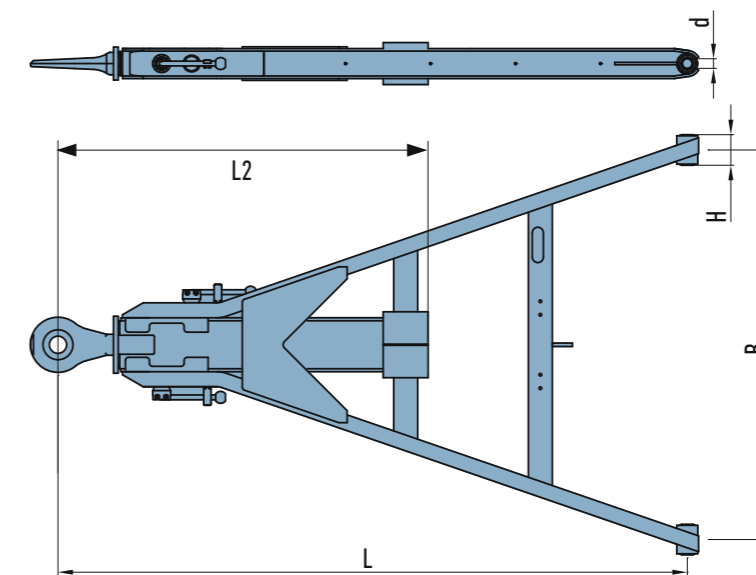


TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZL 27 D = 125 kN 27 t Max. front-axle load 10 t ECE no. E1-55R-012501 Profile 80/70/6 Towing bar Ø 80	1,000	860	100/30 ¹⁾ Special dimensions 70/26 80/28 80/30	8 x 50 mm (L ₂ = 975 mm)	1	80
	1,100			82		
	1,200			84		
	1,300			86		
	1,400			88		
	1,500			90		
	1,600			92		
	1,700			94		
	1,800			96		
	1,900			98		
	2,000			100		
	2,100			104		
	2,200			106		
	2,300			108		
2,400	110					
2,500	112					
2,600	114					
PZL 32 D = 125 kN 32 t Max. front-axle load 12 t Individual certificate Profile UNP 100 Towing bar Ø 100	1,100	860	100/30 ¹⁾ Special dimensions available on request	12 x 50 (L ₂ = 1175 mm)	1	94
	1,200			96		
	1,300			98		
	1,400			100		
	1,500			102		
	1,600			104		
	1,700			106		
	1,800			108		
	1,900			110		
	2,000			116		
	2,100			118		
	2,200			120		
	2,300			122		
	2,400			124		
2,500	126					

Figures: Adjustable version 'E' (with bolt and nut) and variable version 'V' (with bolt and locking nut), see page 53.
¹⁾ Also available on request with low-maintenance silent bush (see page 60).

PZL 48: with heavy-duty towing eye Ø 50 mm (type 56) and length adjustment 6 x 100 mm as standard. Also available with locking nuts on request (version V)

In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PZL 48 ⁴⁾ D = 190 kN 48 t Max. front-axle load 24 t ECE no. E1-55R-012502 Profile UNP 100	1,200	860	100/30 ³⁾ Special dimensions 102/32 ³⁾ 100/35 100/40 ⁴⁾	6 x 100 (L ₂ = 1150 mm)	1	92
	1,300			95		
	1,400			97		
	1,500			99		
	1,600			101		
	1,700			103		
	1,800			105		
	1,900			107		
	2,000			109		
	2,100			115		
	2,200			117		
	2,300			120		
	2,400			122		
	2,500			125		
2,600	127					

³⁾ Also available on request with low-maintenance silent bush (see page 60). ⁴⁾ Available with towing eye type 56 (heavy-duty towing eye) and type VBG as standard.
⁵⁾ With Kronrohr block ⁶⁾ With Brass bush.

BPW drawbars up to 48,000 kg

PML series, length adjustable, semi-automatic with automatic coupling or with pneumatic locking

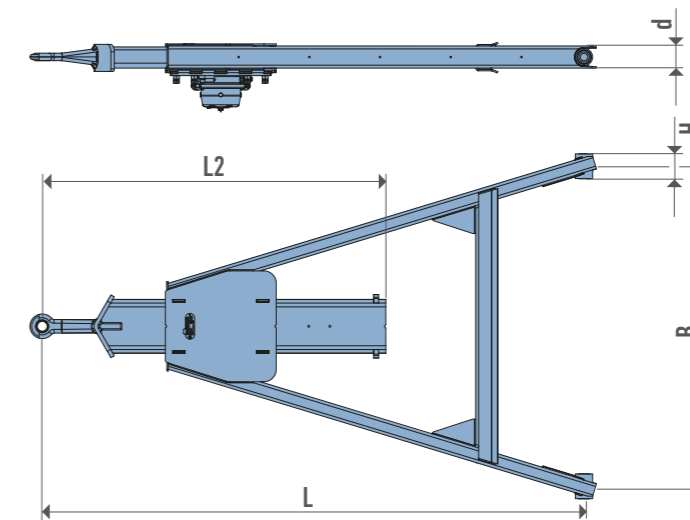
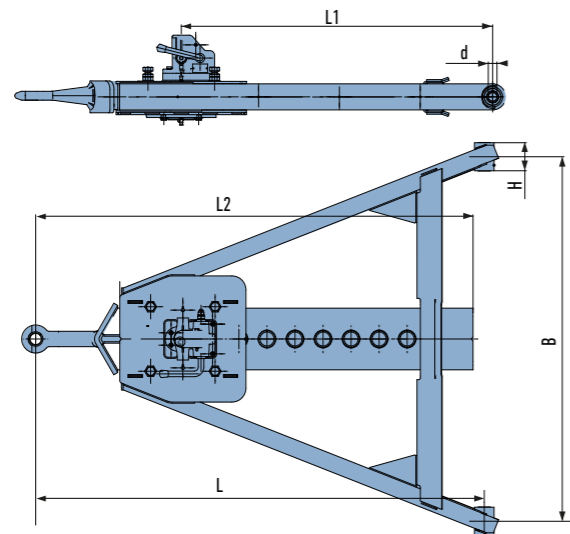
(Individual certificate)

The PML series is specifically designed for greater front-axle loads and larger length adjustment. The adjustment is performed semi-automatically by hand at the automatic coupling or via a pneumatic locking device (optional).

The PML 32 has a towing eye \varnothing 40 mm (DIN 74054-40A) and length adjustment of 8 x 100 mm as standard. The PML 48 has a towing

eye \varnothing 57.5 mm (VBG 15-0173) and length adjustment of 4 x 150 mm as standard. In all standard versions, the bearing eyes have plastic bushes.

Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.



TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PML 32 D = 125 kN 32 t Max. front-axle load 12 t Individual certificate Profile 90/60/5	1,200	900	100/30 ¹⁾	8 x 100 1 x 100 + 1 x 900	1	160
	1,300					162
	1,400					164
	1,500					166
	1,600					168
	1,700					170
	1,800					172
	1,900					174
	2,000					176
	2,100					178
	2,200					180
	2,300					190
	2,400					192
	2,500					194
2,600	196					

TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	EXTENSION L2 (mm)	CROSS STRUTS Quantity	WEIGHT Approx. kg
PML 48 D = 165 kN 48 t Max. front-axle load 24 t Individual certificate Profile 90/60/6	1,200	900	100/30 ¹⁾	4 x 150 4 x 200	1	166
	1,300					169
	1,400					172
	1,500					175
	1,600					178
	1,700					181
	1,800					184
	1,900					187
	2,000					190
	2,100					193
	2,200					196
	2,300					210
	2,400					213
	2,500					216
2,600	219					

¹⁾ Also available on request with low-maintenance silent bush (see page 60). ²⁾ With Kronrohr block

¹⁾ Also available on request with low-maintenance silent bush (see page 60). ²⁾ With Kronrohr block

BPW drawbars up to 26,000 kg

LPS 26 series, length adjustable, semi-automatic with automatic coupling or with pneumatic locking

(Individual certificate)

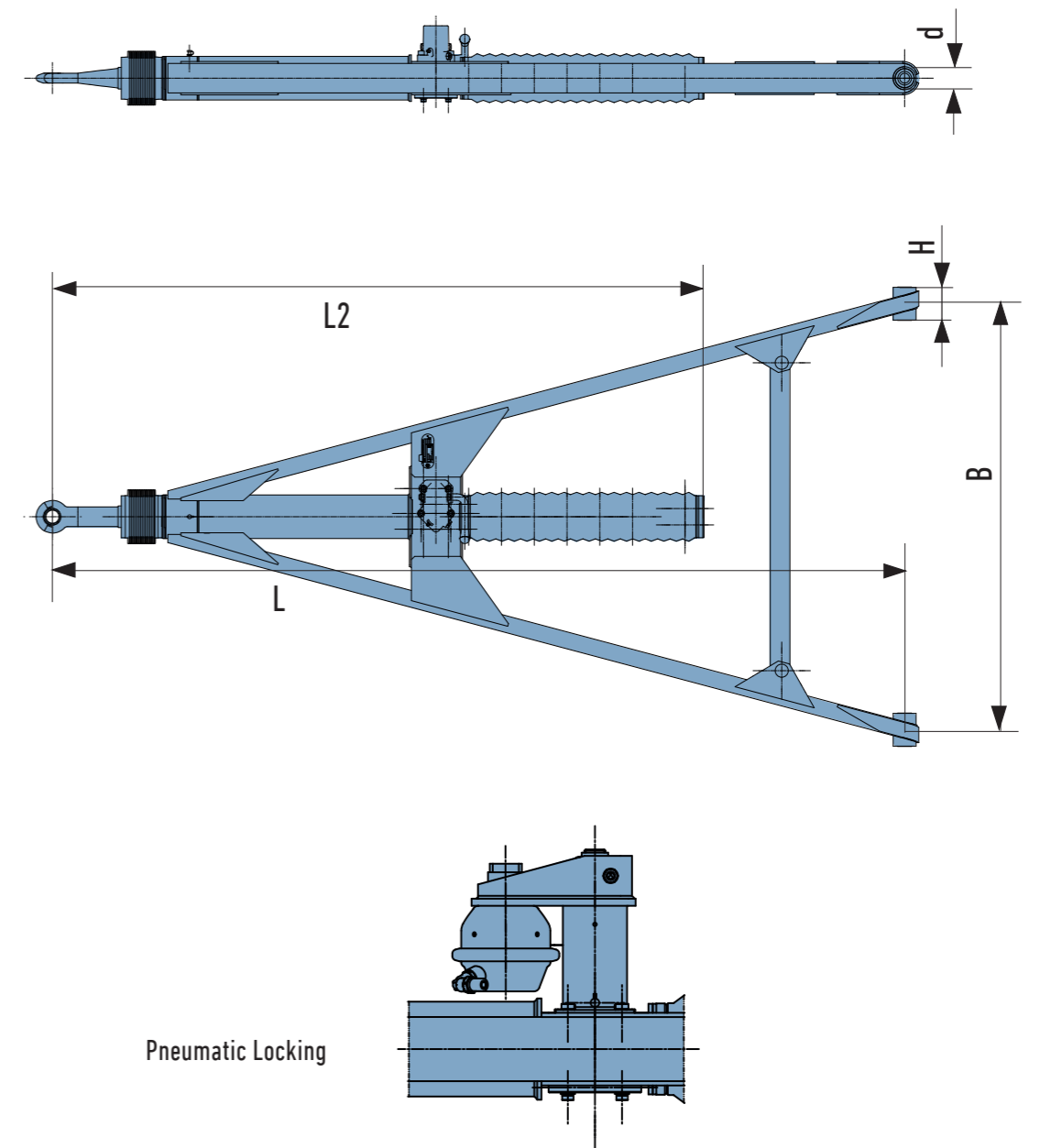
LPS 26 semi-automatic with automatic coupling: The LPS 26 provides particularly convenient adjustment mechanism, with semi-automatic length adjustment. Unlocking is performed by hand with the automatic coupling. After 100 mm of adjustment travel, the coupling locks automatically. The towing bar can be adjusted by hand or by moving the tractor unit. Greater or different adjustment travel, e.g. 1 x 400 mm, can be implemented by using plugs in the towing bar.

LPS 26 with pneumatic locking: The locking and unlocking of the coupling bolt is performed using a button in the cab. This solution therefore provides a particularly convenient adjustment mechanism.

With towing eye \varnothing 40 mm (DIN 74054-40 A) and length adjustment 4 x 100 mm as standard. All drawbars are also available with towing eye \varnothing 50 mm (DIN 74053-50 A). In all standard versions, the bearing eyes have plastic bushes. Other dimensions and towing eyes are available on request. Height adjustment devices from page 68.

TYPE	LENGTH L (mm)	WIDTH AT CENTRE B (mm)	BEARING EYES H/d (mm)	LENGTH L2 (mm)	CROSS STRUTS Quantity	WEIGHT ²⁾ Approx. kg
LPS 26 D = 120 kN 26 t Max. front-axle load 10 t Individual certificate Profile 90/50/5	1,300	980	100/30 ¹⁾	4 x 100	1	122
	1,400					124
	1,500					126
	1,600					128
	1,700					130
	1,800					132
	1,900					134
	2,000					136
Towing bar \varnothing 100	2,100	1,400	80/28 80/30		2	144
	2,200					146

¹⁾ Also available on request with low-maintenance silent bush (see page 60). locking +13 kg

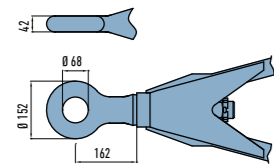


BPW drawbars – general information

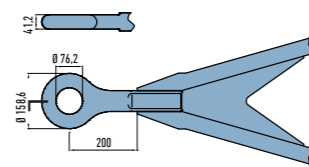
Towing eyes and bushes

With its range of drawbars, BPW offers a comprehensive modular system that enables individual combinations. Below is an overview of the BPW standard product range.

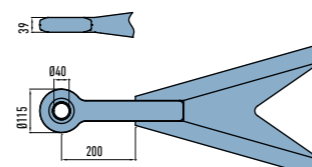
BPW TOWING EYES:



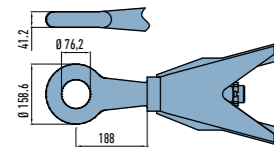
Screw-in towing eyes type BNA 29.05922
D value = 200 kN



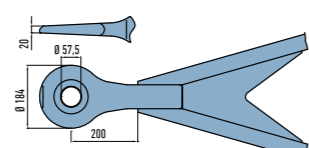
Towing eye type NATO VG-74059
D value = 125 kN



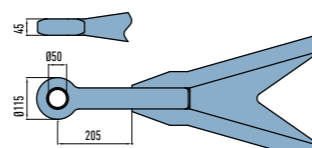
Towing eye: version for Switzerland
D value = 168 kN



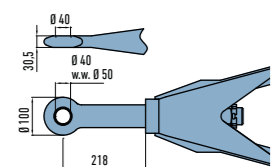
Screw-in towing eyes type NATO VG-74059
D value = 125 kN



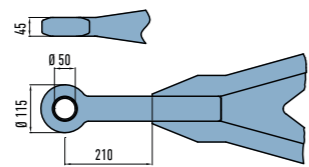
Towing eye VBG 15-173
D value = 190 kN



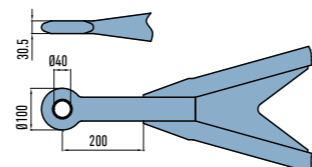
Towing eye VBG 16-0895
D value = 190 kN



Screw-in towing eyes DIN 74054-40B
Optionally DIN 74053-50B
D value = 125 kN

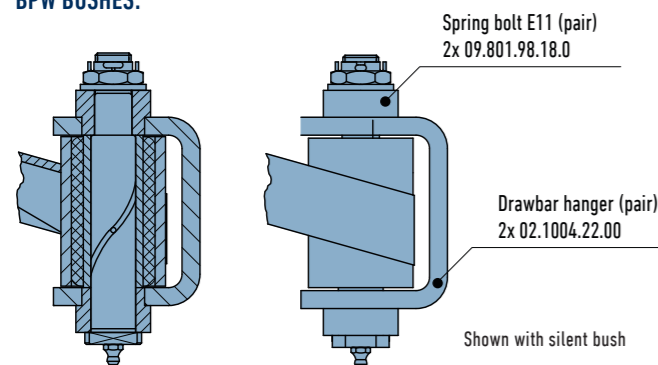


Towing eye in accordance with DIN 74053-50A
D value = 130 kN
Optionally towing eye type 56 similar to DIN 74053-50A
D value = 260 kN

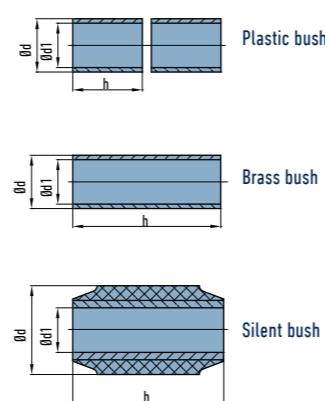


Towing eye similar to DIN 74054-40A
With profile shaft
Optionally towing eye DIN 74054-40A
D value = 125 kN

BPW BUSHES:



The dimensions for the bearing eye bushes can be found in the technical data sheets.



BPW drawbars

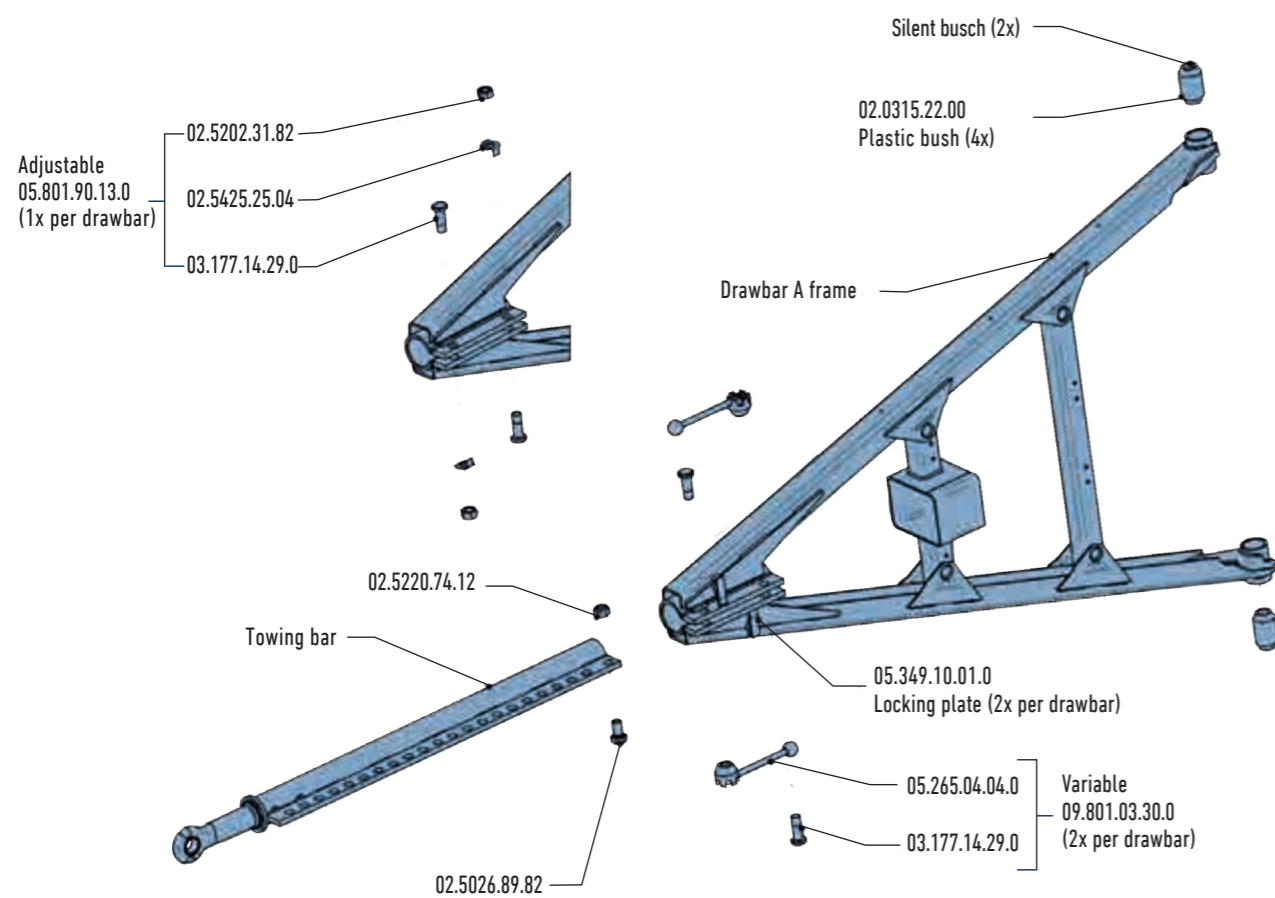
Spare parts

APPLICATION	DESIGNATION														BPW NO.				
	TBZ 27	TBZ 32	TBZ 48	SL 12	SL 27	ZGS 27	ZGS 32	PZM 26	PZMS 26	PZG 18	PZG 48	PZGL 32	PZL 27	PZL 32		PZL 48	PZLG 32		
FOR BEARING EYE	NUMBER PER DRAWBAR																		
Plastic bush 80/28	4x	4x	-	4x	4x	4x	-	4x	4x	4x	-	4x	4x	-	-	4x	02.0315.20.00		
Plastic bush 80/30	4x	4x	-	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	-	-	4x	02.0315.21.00		
Plastic bush 100/30	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	4x	02.0315.22.00			
Silent bush 100/30	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	2x	02.0316.06.00			
Brass bush 100/30	2x	2x	-	2x	2x	2x	2x	2x	2x	2x	2x	2x	-	-	2x	02.0315.17.00			
Brass bush 100/40	2x	2x	2x	-	2x	2x	-	-	-	2x	-	-	-	-	2x	10.03.707258			
Kronrohr block	-	-	2x	-	-	-	-	-	-	-	-	-	-	-	2x	02.0314.13.00			
Towing bar Ø 80 with towing eye 40																			
Towing bar 12 x 50 length 1175	Adjustment opening 17														1x	09.028.45.02.0			
Towing bar 16 x 50 length 1375	Adjustment opening 21														1x	09.028.45.03.0			
Towing bar Ø 80 with towing eye 50																			
Towing bar 12 x 50 length 1175	Adjustment opening 17														1x	09.028.45.28.0			
Towing bar 16 x 50 length 1375	Adjustment opening 21														1x	09.028.45.17.0			
Towing bar Ø 80 with towing eye CH																			
Towing bar 12 x 50 length 1175	Adjustment opening 17														1x	09.028.45.52.0			
Towing bar 16 x 50 length 1375	Adjustment opening 21														1x	09.028.45.85.0			
Towing bar Ø 80 with towing eye VBG-15																			
Towing bar 12 x 50 length 1135	Adjustment opening 17														1x	09.028.45.95.0			
Towing bar 16 x 50 length 1335	Adjustment opening 21														1x	09.028.45.90.0			
Towing bar Ø 100 with towing eye 40																			
Towing bar 12 x 50 length 1175	Adjustment opening 17														1x	1x	09.028.51.02.0		
Towing bar 16 x 50 length 1375	Adjustment opening 21														1x	1x	09.028.51.08.0		
Towing bar offset 12 x 50 length 1,500 (from drawbar length 1,300)	Adjustment opening 17																1x	09.028.52.79.0	
Towing bar Ø 100 with towing eye 50																			
Towing bar 12 x 50 length 1175	Adjustment opening 17														1x	1x	09.028.51.09.0		
Towing bar 16 x 50 length 1375	Adjustment opening 21														1x	1x	09.028.51.10.0		
Towing bar offset 12 x 50 length 1,500 (from drawbar length 1,300)	Adjustment opening 17																1x	09.028.52.73.0	
Towing bar Ø 100 with towing eye VBG-15																			
Towing bar 12 x 50 length 1135	Adjustment opening 17														1x	1x	09.028.51.38.0		
LOCKING MECHANISM																			
NUMBER PER DRAWBAR																			
Bolt with locking nut version 'V' plus locking plates															2x	2x	2x	2	09.801.03.30.0
															2x	2x	2x	2	05.349.10.01.0
Bolt with nut version 'E' including locking washer															1x	1x	1x	1	05.801.90.13.0
																		2x	09.801.95.23.0
Bolt with locking nut version 'V' plus locking plates																		2x	05.349.10.01.0
																		1x	09.801.95.24.0

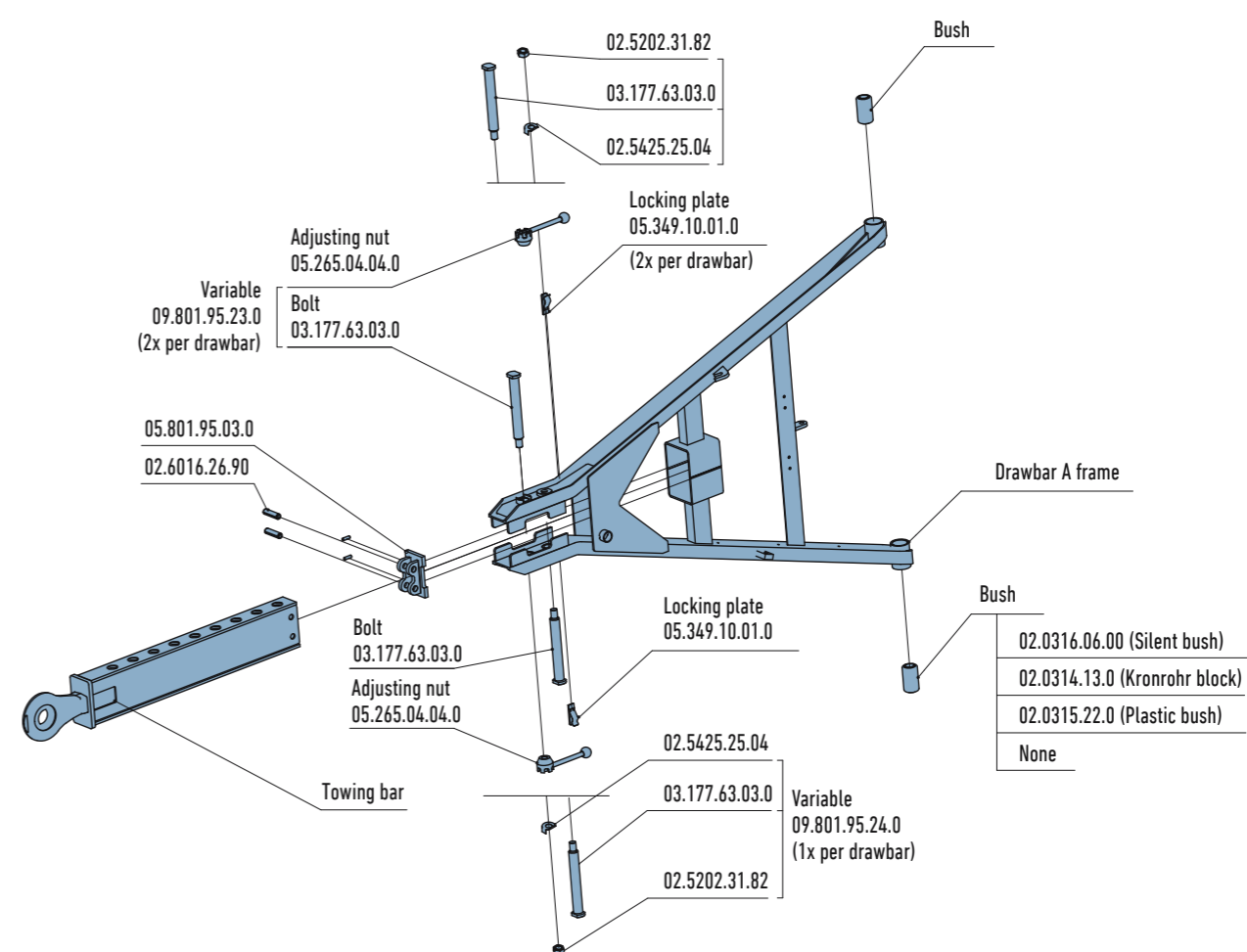
For PZS spare parts, see page 49. For LPS spare parts, see page 59.

RELIABLE

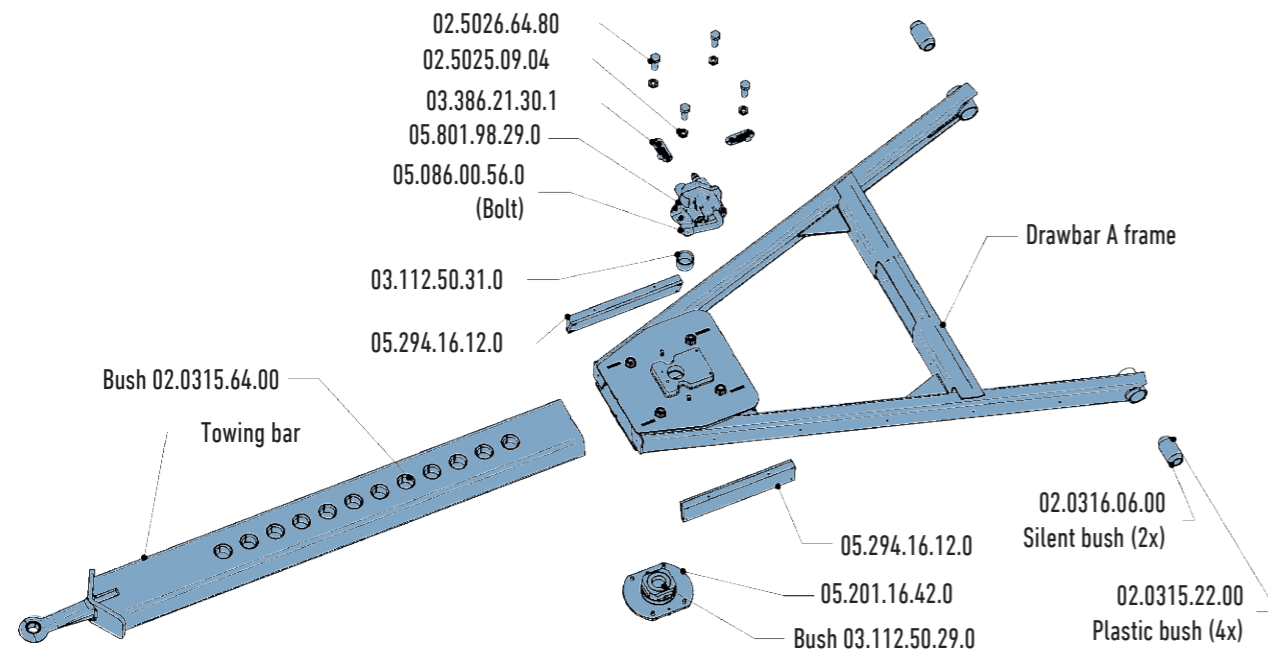
Spare Parts for PZL 27, PZL 32, PZGL 32



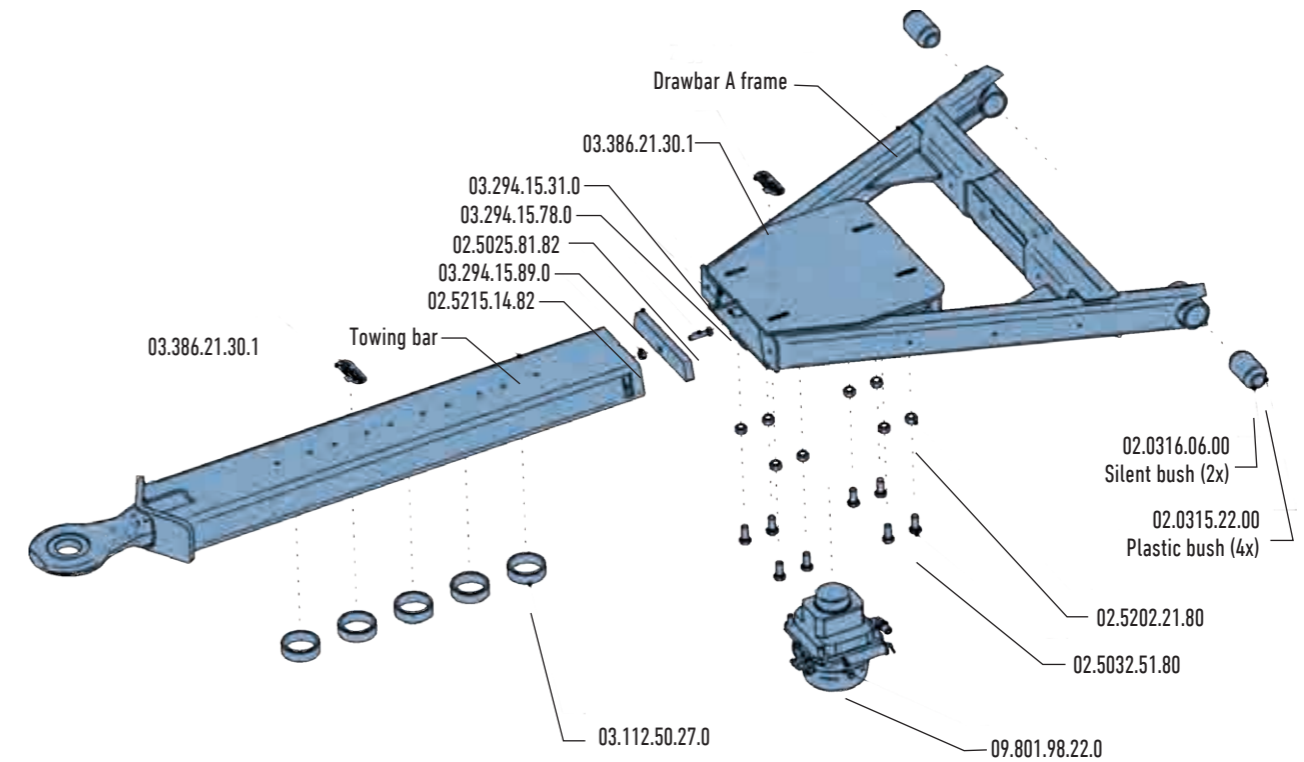
Spare Parts for PZL 48



Spare Parts for PML 32



Spare Parts for PML 48



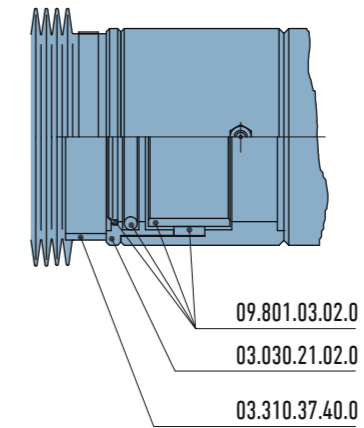
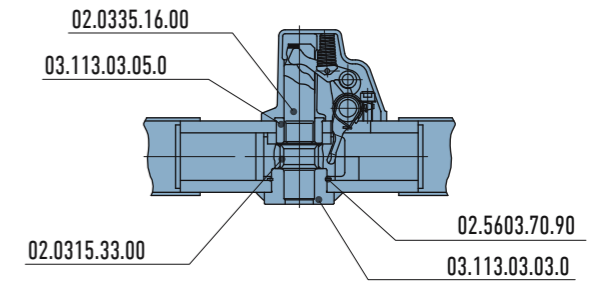
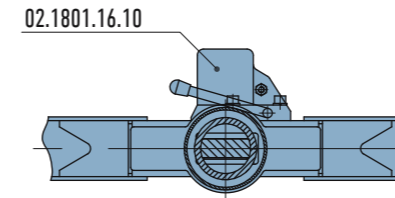
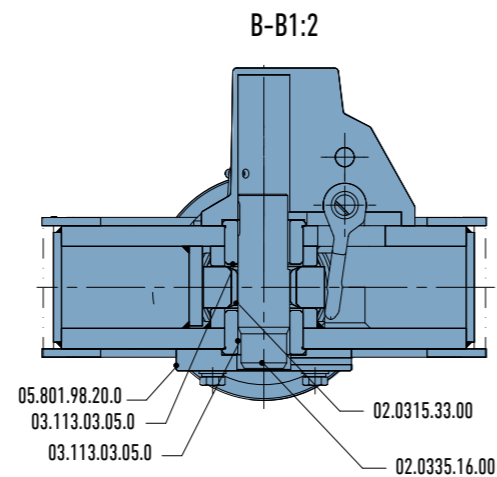
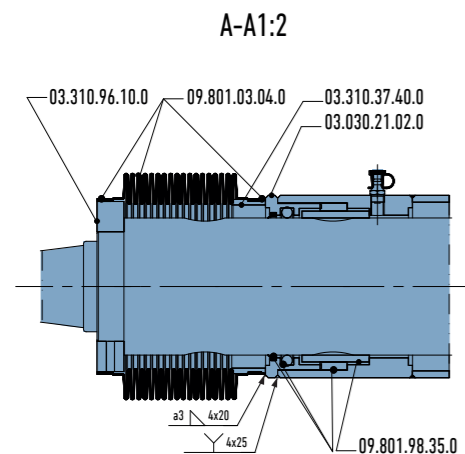
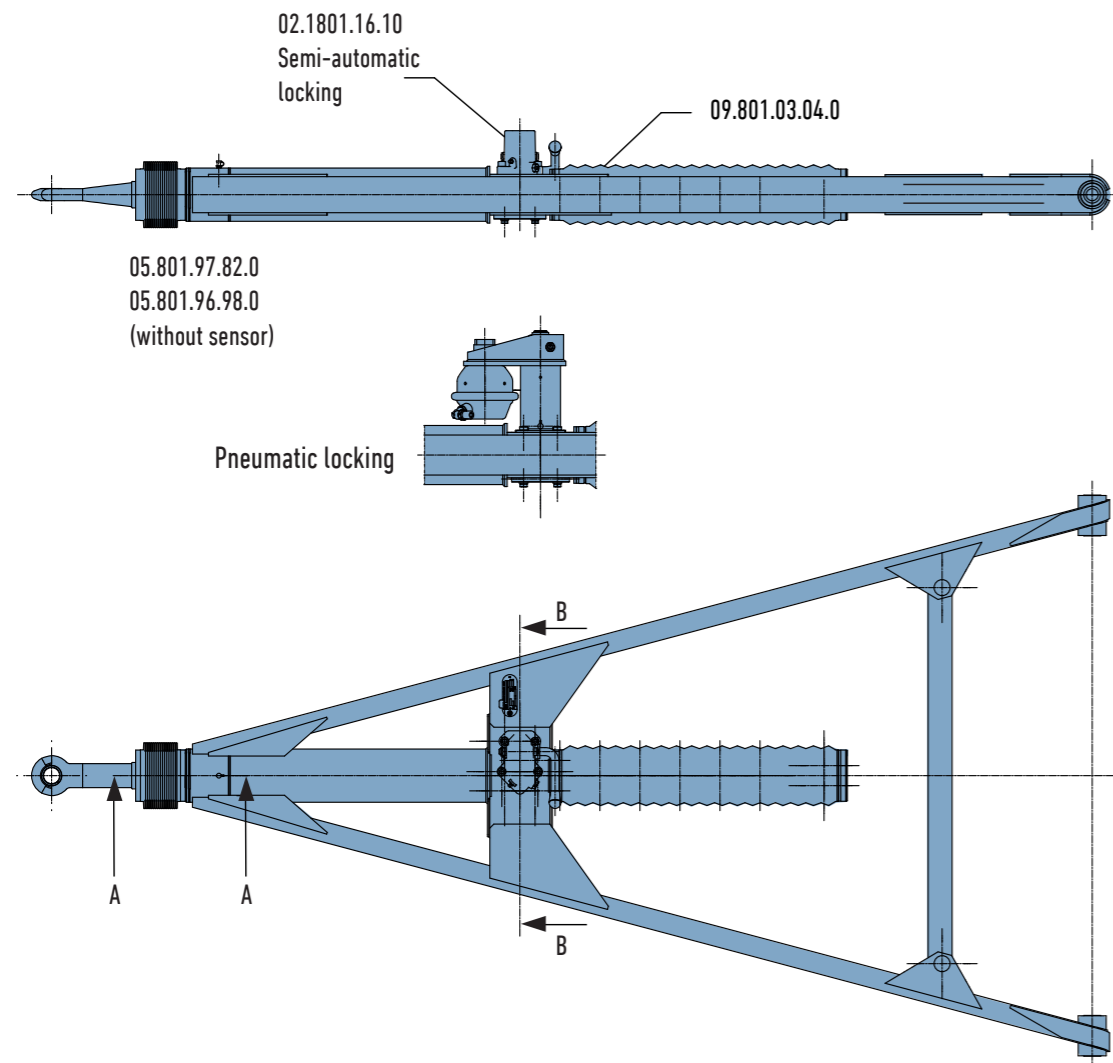
SPARE PARTS FOR PML 32

SPARE PARTS FOR PML 32	QUANTITY	BPW NO.
Bush 60/49 x 39.5	1	03.112.50.31.0
Bush 80/49 x 40	1	03.112.50.29.0
Bush 60/50 x 47	1x per hole	02.0315.64.00
Coupling bolt 48.6 x 158	1	05.086.00.56.0
Automatic coupling	1	05.801.98.29.0
Guide rail Lg = 424	2	05.294.16.12.0
Adjustment bolt for guide rail (M20 x 50)	4	02.5026.64.80
Adjustment nut for guide rail (M20)	4	02.5205.09.04
Towing bar, complete, PML 32 towing eye DIN74054-40A 8 x 100	1	09.028.52.50.0
Plug PML 32	1x per hole	09.801.98.30.0
Silent bush 100/30	2	02.0316.06.00
Plastic bush 100/30	4	02.0315.22.00

SPARE PARTS FOR PML 48

SPARE PARTS FOR PML 48	QUANTITY	BPW NO.
Bush 90/80 x 28	1x per hole	03.112.50.27.0
Pneumatic locking (with sensor)	1	09.801.98.22.0
End stop 258 x 50 x 20	1	03.294.15.89.0
Hexagon screw for end stop	1	02.5025.81.82
Hexagon nut for end stop	1	02.5215.14.82
Bottom guide plate 100 x 34 x 10	4	03.294.15.78.0
Side guide plate 426 x 70 x 10	2	03.294.15.31.0
Adjustment bolt for guide plate (M16 x 1,5 x 35)	8	02.5032.51.80
Adjustment bolt for guide plate (M16 x 1,5)	8	02.5202.21.80
Silent bush 100/30	2	02.0316.06.00
Plastic bush 100/30	4	02.0315.22.00

Spare Parts for LPS 26



SPARE PARTS FOR LPS 26

SPARE PARTS FOR LPS 26	QUANTITY	BPW NO.
Bush 62/38, 6 x 32 (from year of manufacture 09.2012)	2	03.113.03.05.0
Bush 62/38, 6 x 32 (until year of manufacture 08.2012)	1	03.113.03.05.0
Bush 34, 15 x 88 x 45 (until year of manufacture 08.2012)	1	03.113.03.03.0
Locking ring 70 x 2.5 x DIN 471 (until year of manufacture 08.2012)	1	02.5603.70.90
Bush 48.3/39 x 30	1x per hole	02.0315.33.00
Coupling bolt 38.5/34 x 129	1	02.0335.16.00
Automatic coupling	1	02.1801.16.10
Pneumatic locking (without sensor)	1	05.801.96.98.0
Pneumatic locking (with sensor)	1	05.801.97.82.0
Guide bearing set	1	09.801.03.02.0
Guide bearing	1	03.030.21.02.0
Weld-on ring for bellows	1	03.310.37.40.0
Ring 120/80 x 20	1	03.310.96.10.0
MT-TGRP bellows front and rear	2	09.801.03.17.0
Towing bar, complete, 100, towing eye DIN 74054 40A 4x 100	1	09.028.51.11.0
Towing bar, complete, 100, towing eye version CH 40 4x 100	1	09.028.51.14.0
Towing bar, complete, 100, towing eye DIN 74054 40A 6x 100	1	09.028.51.68.0
Towing bar, complete, 100, towing eye DIN 74054 40A adjustment 80-150-170	1	09.028.51.48.0
Plug	1x per hole	09.801.03.53.0
MT-TGRP plate with bolts (from year of manufacture 09.2012)	1	05.801.98.20.0

BPW height adjustment devices

Klemmfix 72

(General type approval (German ABE))

The galvanized Klemmfix 72 is a height-adjustment device for drawbar installations that can swivel vertically.

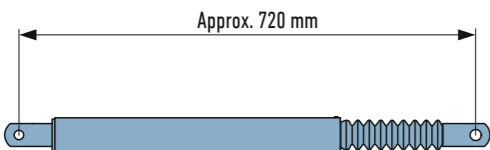
With the optimum setting, the towing eye can be adjusted freely from the horizontal position by at least 300 mm (measured at the towing eye) upwards and downwards. The drawbar installation can be set to the required height by a single person without the need for tools or other assistance. Without a height support device, the Klemmfix 72 can only be used for limited height adjustment. For a drawbar weight of more than 75 kg, a height support device (e.g. return spring with

clamp lock or spring washers) must also be fitted, which will take some of the weight of the drawbar (see diagram). See the assembly and operation instructions for further information.

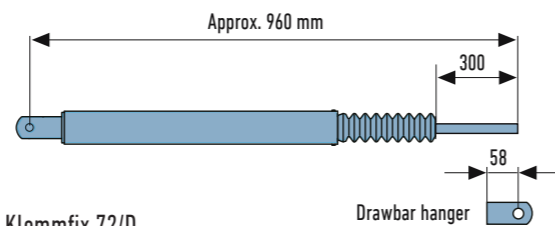
BPW NO.:

Klemmfix 72/Z (tension) 51.98.01.0013

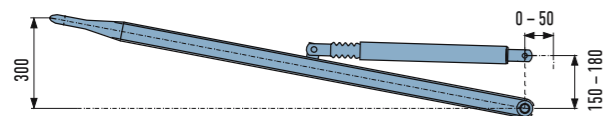
Klemmfix 72/D (compression) 51.98.01.0014



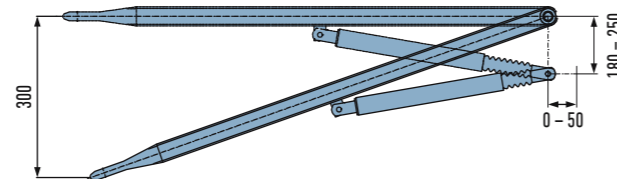
Klemmfix 72/Z



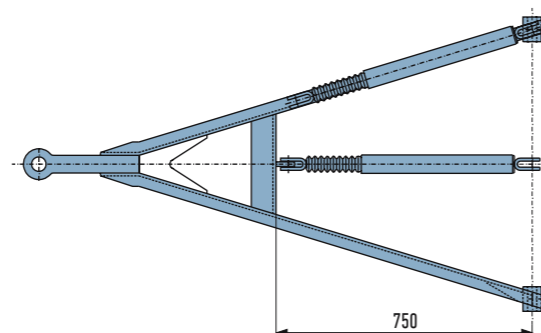
Klemmfix 72/D



Installation of Klemmfix 72/Z, effective under tension
Please read the installation and operating instructions.



Installation of Klemmfix 72/D, effective under compression
Please read the installation and operating instructions.



Connection of Klemmfix on longitudinal or cross strut

BPW height support device

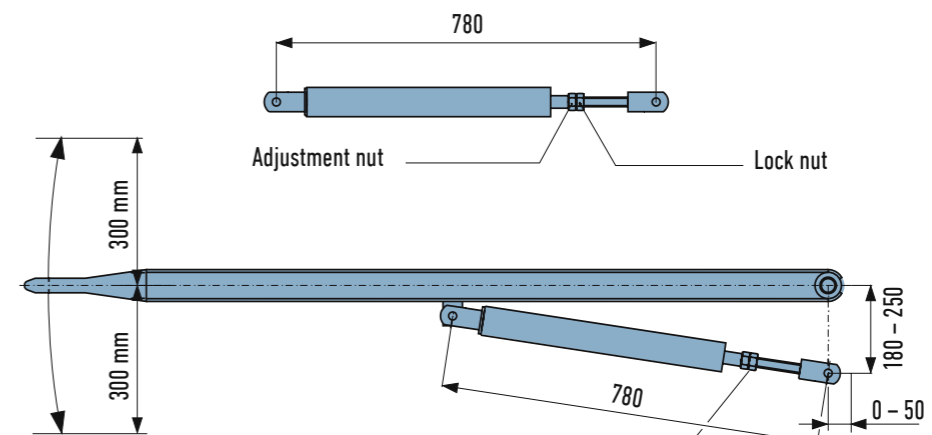
Compression spring pack

The galvanized compression spring pack are used only as a height support device for Klemmfix 72. The spring washers and Klemmfix 72 work together to enable optimum height adjustment. The spring washers must not be used alone to adjust the height of drawbars.



BPW NO.:

Compression spring pack 51.98.03.0001



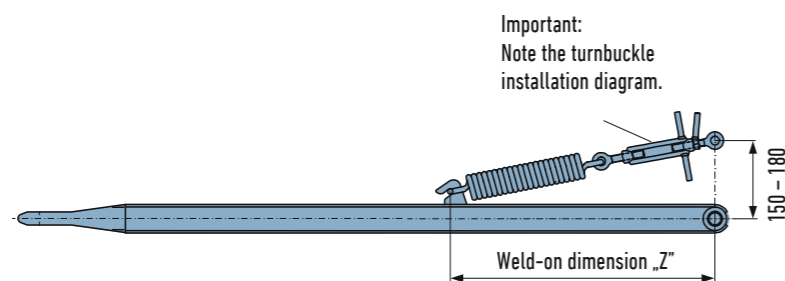
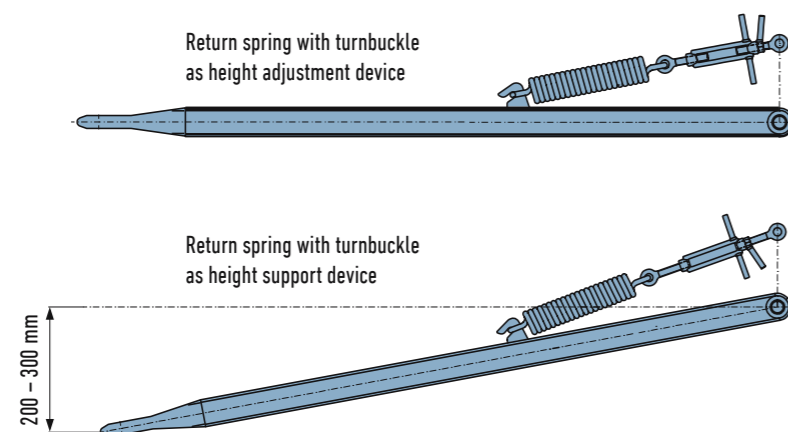
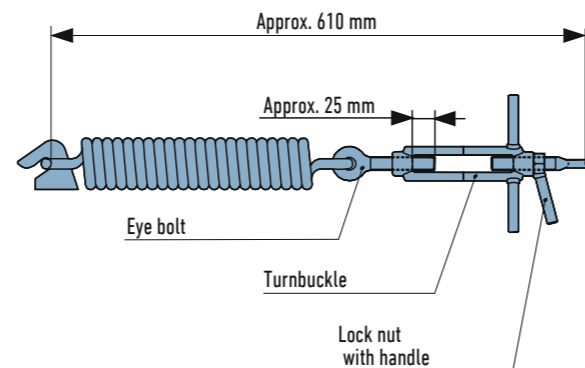
Important:
Note the spring washers installation diagram

BPW height support device

Return spring with turnbuckle

The return spring with turnbuckle can be used directly as a height adjustment device. The height is adjusted by turning the turnbuckle. The return spring used means that it is usually sufficient to use one return spring even for heavy drawbars (see diagram). In combination with Klemmfix 72, the return spring with turnbuckle is also used as a height support device.

BPW NO.:
 Return spring (cataphoretic dip-coating – KTL_{Zn}) with turnbuckle 09.801.03.18.0
 Return spring (galvanized) with turnbuckle 09.801.03.83.0



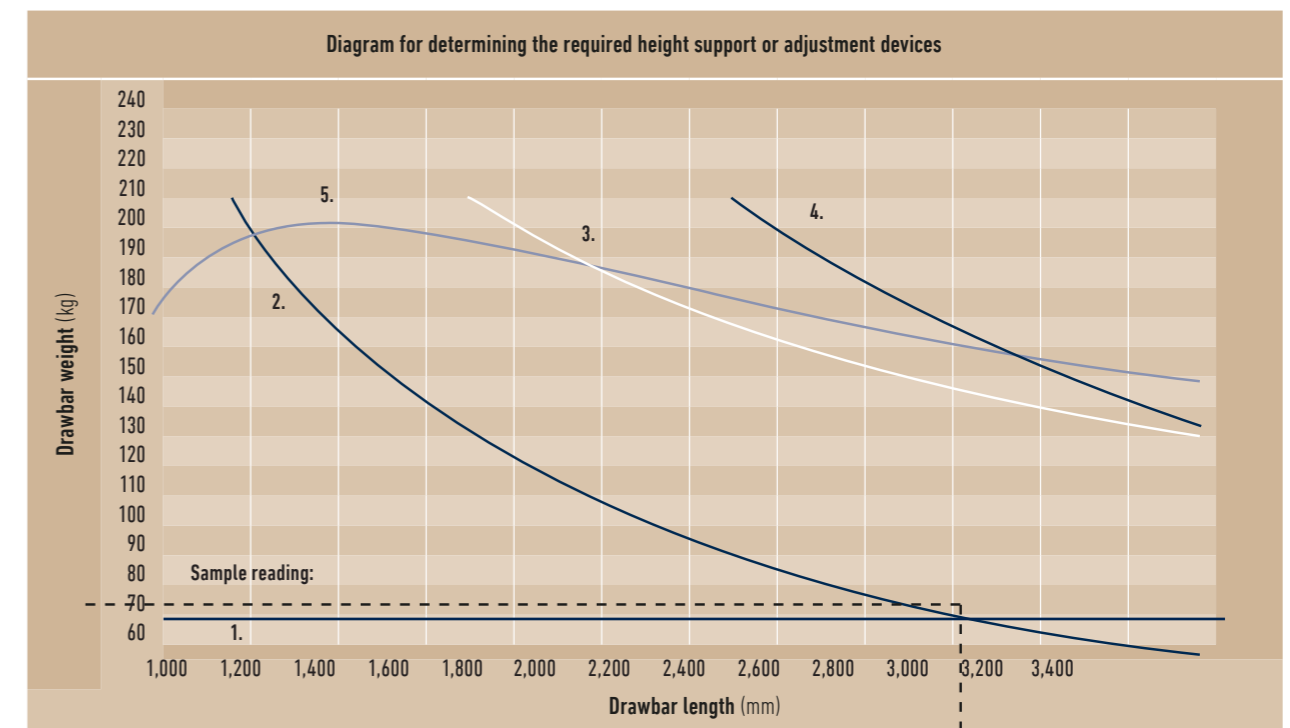
Installation of the return spring with turnbuckle on the drawbar

BPW height adjustment and support devices

Choosing the products you need

To select which products are required for height adjustment for the drawbar that is being used, you need the following information:

1. Drawbar length (mm)
2. Drawbar weight (kg)



The following combinations can be selected using the diagram:

COMBINATION	HEIGHT ADJUSTMENT DEVICE	HEIGHT SUPPORT DEVICE
1.	Klemmfix 72 ¹⁾	-
2.	A return spring	-
3.	Klemmfix 72	A return spring
4.	A return spring	A return spring
5.	Klemmfix 72	Spring washers

Sample reading:

Drawbar: PZM L = 3,000 mm m = 103 kg

The diagram above shows the combination options 3, 4 and 5 (see table).

¹⁾ Can only be used alone for drawbars up to 75 kg

BPW turntables

With double-row ball race

BPW turntables – proven over more than 60 years of use!



The number one system

BPW turntables are distinguished from conventional single-row systems by their high-quality double row, which guarantees optimum distribution of the axial and radial forces that are produced.

This system has been proven over years of successful operation and the advantages in its design shine through in daily use in truck trailers, semi-trailers, heavy-duty transporters and special vehicles.

BPW turntables are used in particular in applications where the vehicle design places extremely high demands on the construction and materials.

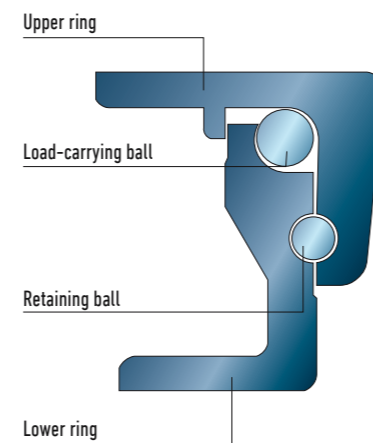
Optimum transmission of forces

BPW turntables have a row of load-carrying balls and a row of retaining balls between the upper and lower ring.

- ▶ The axial loads acting on the turntable are transferred vertically by the large load-carrying balls.
- ▶ The horizontal tension and compression forces are transferred by the smaller retaining balls.
- ▶ The moment loads from the braking and centrifugal force are absorbed by the load-carrying and retaining balls acting together.
- ▶ The retaining ball row links the upper and lower rings.

Absolute reliability

- ▶ The design principle ensures the greatest possible reliability as the axial and radial forces that are exerted are transferred separately to the two rows of balls.



- ▶ Outstanding quality is achieved with a special selection of materials and specific manufacturing processes. The rim profiles are cold-formed from high-strength steel, butt-welded and calibrated. This means that the turntables can also be used under extreme conditions.

Long life means cost efficiency

Thanks to their long life expectancy, BPW turntables guarantee minimal down time.

- ▶ The ball track is secured under load by the load-carrying balls.
- ▶ The interior has a labyrinth seal for long-term protection against dust and dirt.
- ▶ All of the advantages together guarantee reliability, smooth running and an outstanding life expectancy.

Construction and installation instructions

- ▶ The permissible axial load (see table on page 70) is the static axial load that acts on the turntable. It applies only in the compression direction for vehicles with a speed of up to 105 km/h. For vehicles with a speed of up to 30 km/h, the axial load is permitted to be 25% higher. The permissible axial load is included in the details imprinted on the type plate.
- ▶ The supporting structure for the lower and upper ring must be even, level and torsionally rigid, as there will otherwise be deformation during use, which will put operational safety at risk. Unevenness on the supporting surfaces must not exceed 1 mm. Greater irregularities must be evened out. The supporting surface is divided into at least four surface sections of the same size, spread evenly around the circumference and must support at least 50% of the turntable flanges.
- ▶ After having been bolted in place, the turntable flanges must be additionally secured against movement at the top and bottom with at least four weld-on plates (shear blocks) so that the shear forces that occur are not absorbed solely by the connecting bolts.
- ▶ We recommend the use of drilled turntables. If drilling work is performed at a later time, drilling chips and coolant must not enter the ball tracks.

- ▶ Prior to commissioning, turntables must be filled with BPW ECO-Li 91 special longlife grease (lithium complex grease) via the grease nipple. When new, they are only lightly greased and so only have 'emergency lubrication'.

- ▶ BPW turntables are not suitable for applications involving multiple rotations of over 360°.

- ▶ BPW turntables are not designed for eccentric loads.

- ▶ Special applications must be agreed with us.

Maintenance

- ▶ Grease the turntable bearing via the grease nipple with BPW ECO-Li 91 special longlife grease (lithium complex grease) every 25,000 kilometres, or at least once every three months (every two to three weeks in extreme operating conditions). Do not mix the grease with other types of grease (calcium or sodium soap grease).

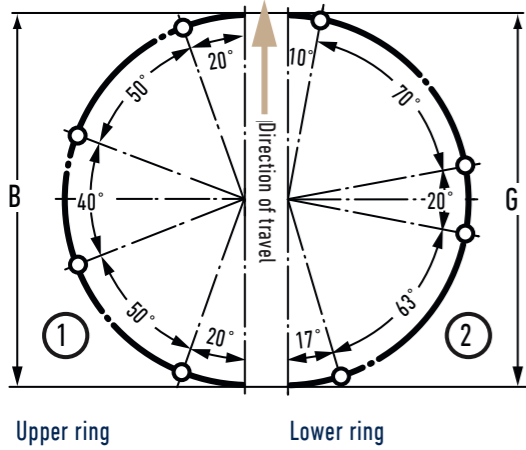
- ▶ Check all bolt connections regularly and retighten if necessary.

- ▶ No welding work may be performed on BPW turntables; i.e. no parts may be welded on. During welding work on the vehicle, the earth cable must be attached so that no power can flow through the turntable, as the balls and running surfaces may otherwise be damaged.

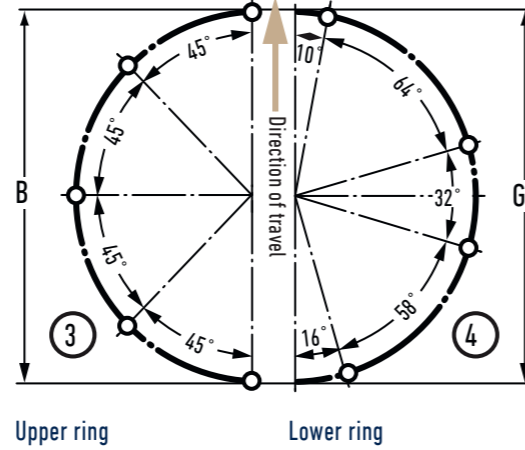
BPW turntables

Standard product range

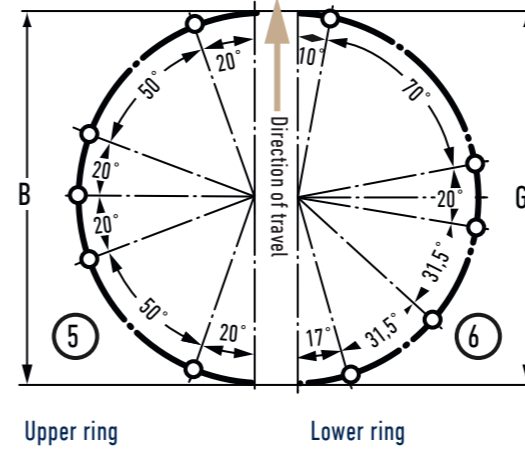
8-hole
Only DK 80/8



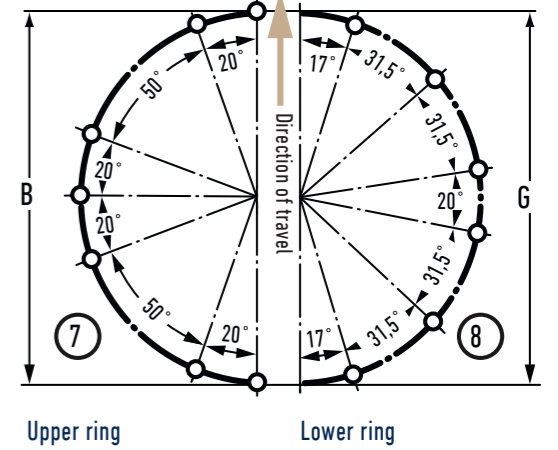
8-hole



10-hole
Only DK 80/16 A



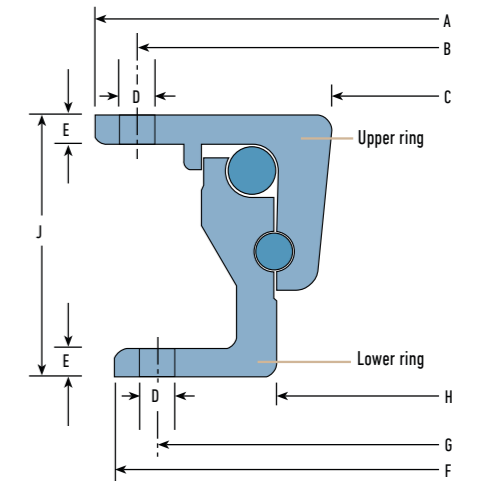
12-hole



BPW TURNTABLE – drilled ^{1) 2)}		BPW TURNTABLE – undrilled		UPPER RING								
TYPE	BPW NO.	TYPE	BPW NO.	PERMISSIBLE AXIAL LOAD ⁴⁾ in t ⁴⁾	PERMISSIBLE TRAILER GROSS WEIGHT in t	OUTER Ø A mm	BOLT CIRCLE Ø B mm	DRILLING PATTERN Ø	INNER Ø C mm	BORE HOLE Ø D mm	FLANGE THICKNESS E mm	
		DK 80/5	02.6415.01.00	5	25	664	(636)			519.5	(14)	9
DK 80/8/0808	02.6415.10.00	DK 80/8/0808	02.6415.11.00	8	40	894	866	①		749.5	16	9
DK 80/10/1108	02.6415.13.00	DK 80/10/1108	02.6415.14.00	10	50	1,108	1,074	③		959.5	16	9
DK 80/16/0810 A ³⁾	02.6415.17.00 ³⁾	DK 80/16/0810 A ³⁾	02.6415.18.00 ³⁾	16	50	894	866	⑤		749.5	16	9
DK 90/10/1208	02.6415.66.00			10	50	1,208	1,174	③		1,042.0	18	10
DK 90/10/1212	02.6415.70.00	DK 90/10/1.200	02.6415.71.00	10	50	1,208	1,174	⑦		1,042.0	18	10
DK 90/12/1008	02.6415.24.00	DK 90/12/1008	02.6415.23.00	12	50	1,000	966	③		834.0	18	10
DK 90/13/1108	02.6415.20.00	DK 90/13/1108	02.6415.22.00	13	55	1,108	1,074	③		942.0	18	10
DK 90/13/1208	02.6415.67.00			13	55	1,208	1,174	③		1,042.0	18	10
DK 90/13/1212	02.6415.72.00	DK 90/13/1.200	02.6415.73.00	13	55	1,208	1,174	⑦		1,042.0	18	10
DK 90/14/1008	02.6415.34.00	DK 90/14/1008	02.6415.33.00	14	55	1,000	966	③		834.0	18	10
DK 90/16/1108	02.6415.30.00	DK 16/1108	02.6415.31.00	16	60	1,108	1,074	③		942.0	18	10
DK 90/16/1212	02.6415.74.00	DK 90/16/1.200	02.6415.75.00	16	60	1,208	1,174	⑦		1,042.0	18	10
DK 90/20/1108	02.6415.41.00	DK 90/20/1108	02.6415.40.00	20	60	1,108	1,074	③		942.0	18	10
DK 90/20/1212	02.6415.76.00	DK 90/20/1.200	02.6415.77.00	20	60	1,208	1,174	⑦		1,042.0	18	10
DK 90/26/1212	02.6415.78.00	DK 90/26/1.200	02.6415.79.00	26	70	1,208	1,174	⑦		1,042.0	18	10
DK 90/30/1212 SP	02.6415.80.00	DK 90/30/1.200 SP	02.6415.81.00	30	70	1,208	1,174	⑦		1,042.0	18	10

¹⁾ Special versions on request. ²⁾ For drill patterns, see figures. ³⁾ Use only for semi-trailer coupling. ⁴⁾ Permissible axial load = static axial load over the steered axle, which acts on the turntable. Subject to change without notice.

LOWER RING						BOLTS per ring			
OUTER Ø F mm	BOLT CIRCLE Ø G mm	DRILLING PATTERN Ø	INNER Ø H mm	BORE HOLE Ø D mm	FLANGE THICKNESS E mm	QUANTITY	THREAD Ø min.	OVERALL HEIGHT J min.	WEIGHT kg
650	(622)	②	554	(14)	9	8	(M 12)	80	38
880	852	④	784	16	9	8	M 14	80	49
1,095	1,060	⑥	994	16	9	8	M 14	80	64
880	852	④	784	16	9	10	M 14	80	49
1,195	1,160	⑧	1,079	18	10	8	M 16	90	92
1,195	1,160	④	1,079	18	10	12	M 16	90	92
987	952	④	871	18	10	8	M 16	90	72
1,095	1,060	④	979	18	10	8	M 16	90	82
1,195	1,160	⑧	1,079	18	10	8	M 16	90	92
1,195	1,160	④	1,079	18	10	12	M 16	90	92
987	952	④	871	18	10	8	M 16	90	72
1,095	1,060	⑧	979	18	10	8	M 16	90	82
1,195	1,160	④	1,079	18	10	12	M 16	90	95
1,095	1,060	⑧	979	18	10	8	M 16	90	82
1,195	1,160	⑧	1,079	18	10	12	M 16	90	95
1,195	1,160	⑧	1,079	18	10	12	M 16	90	96
1,195	1,160	⑧	1,079	18	10	12	M 16	90	96



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