

Product Catalogue





 **gigant**
trailer axes



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Introduction.



Master of Business Administration
Markus Gehle

Industrial Engineer
Alfons Veer



The axle is the centrepiece of every vehicle and contributes significantly to the efficiency of everyday transport - especially the factors of weight and reliability play an important role for transporting. Against this background, at gigant – Trenkamp & Gehle we keep working on innovative practical solutions for an efficient logistic. For this reason we rely on light construction which however withstands the toughest conditions.

With respect to the transport branch, this means that innovation in combination with fully developed service offers are gaining more and more significance. We are pleased that this development of the market coincides with our philosophy. Since the foundation of gigant - Trenkamp & Gehle GmbH the customer has been at the centre of our endeavours. Our most important principle is the personal and individual consultation as this is the only way can act according to the needs of every individual customer. For this reason, every customer has a personal sales advisor at his side to deal with all questions. At gigant – Trenkamp & Gehle, our service starts already at the first enquiry about a product and continues after the purchase. A dense network of service locations and workshop partners in Europe in combination with the online Service Locator make sure that our customers find the right workshop near to them quickly and uncomplicated, irrelevant where they are. We are continuously working on the further optimisation and expansion of our range, both of our products as well as our services, so you and your customers can rely on us in the future as well, no matter where you are.

With regard to this, we are looking at the future with confidence and would be pleased to support you in the efficient organisation of your day-to-day transportation with our products and services.

Handwritten signature of Markus Gehle in black ink.

(MBA Markus Gehle)

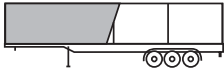
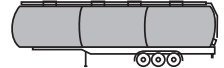

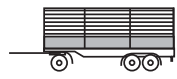
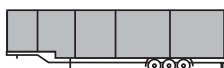
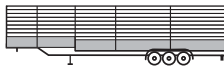
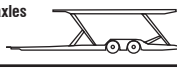
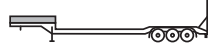

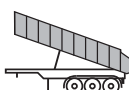
Handwritten signature of Alfons Veer in black ink.

(Industrial Engineer Alfons Veer)

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APPLICATION GUIDE

Vehicle type	Standard	gigant spring system		gigant axle		U Bolts	
		ON-Road	OFF-Road	ON-Road	OFF-Road	ON-R	OFF-R
Curtainsider, refrigerated van body, coil transporter 1 - 3 axles 	Tracks: 2040/2090/2140 Spring centres: 1200/1235/1300/1400 Tyres: 22,5" (385/65 R22,5; 385/55 R22,5; 445/60 R22,5)	FB70-ST	FB100; FB70-HD	3 x 9,0t-axle DOKH2, DKH2, GKH2	3 x 9,0t-axle strengthened axle beam (16 mm)	ST*	HD*
Tank- / Silotruck 	Tracks: 2090/2140 Spring centres: 1300/1400 Tyres: 22,5" (385/65 R22,5; 385/55 R22,5; 445/60 R22,5)	FB70-HD	FB100; FB70-HD	3 x 9,0t-axle DOKH2, DKH2, GKH2	3 x 9,0t-Achse strengthened axle beam (16 mm)	HD*	HD*
Container Chassis 	Tracks: 2040 Spring centres: 1300 Tyres: 22,5" (385/65 R22,5; 385/55 R22,5; 445/60 R22,5) Height limiting valve with quick-action venting or catch straps	FB70-ST; LK-Unit	FB100; FB70-HD	3 x 9,0t-axle DOKH2, DKH2, GKH2	3 x 9,0t-Achse strengthened axle beam (16 mm)	ST*	HD*
Trailer swap body 	Tracks: 2040/2090/2140 Spring centres: 1200/1235/1300/1400 Tyres: 22,5" (385/65 R22,5; 385/55 R22,5; 445/60 R22,5)	FB70-ST; LK-Unit	FB100; FB70-HD; LK-Unit	3 x 9,0t / 2 x 10,5t-axle DOKH2, DKH2, GKH2	3 x 9,0t / 2 x 10,5t-Achse strengthened axle beam (16 mm)	ST*	HD*
Bulk transporter Sliding Floor Trailer 	Tracks: 2040/1950 Spring centres: 1300/1100 Tyres: 19,5" (disc); 17,5" (drum)	FB70-HD	FB100; FB70-HD	3 x 9,0t / 2 x 10,5t-axle DOKH2, DKH2, GKH2	3 x 9,0t / 2 x 10,5t-Achse strengthened axle beam (16 mm)	HD*	HD*
Vehicle type	Standard	gigant spring system		gigant axle		U Bolts	
		ON-Road	OFF-Road	ON-Road	OFF-Road	ON-R	OFF-R
Timber transporter, cattle transporter 	Tracks: 2040 / 1850 Spring centres: 1300 / 980 Tyres: 22,5", 19,5", 17,5" (single or twin)	FB 100; 6t spring (one-leaf / two-leaf) Light off-road use: e.g. timber trailer, cattle transporter with high centre of gravity	FB 100; (FB 100-HD) NLRs(M/O) 50/14; below offset max. 45; two-leaf spring Heavy off-road use: e.g. long timber transporter	9,0t oder 10,5t-axle DEKH2 4345, GEKH2 4218/3620/3020 strengthened axle beam (16 mm) Light off-road use (see unit)	12,0t-axle DKH2 4345, GH7 4220 strengthened axle beam (25 mm) Heavy off-road use (see unit)	HD*	HD*
cartransporter semi-trailer & Tandem 1 - 3 axles 	Tracks: 2040 / 1950 Spring centres: 1300 / 1100 Tyres: 19,5" (disc) 17,5" (drum)	FB70-ST FB80, FB100, TKLR/KLR GK-Unit		5,5t, 7t-axle GKH2, DKH2 3 x 9,0t / 2 x 10,5t-axle DOKH2, DKH2, GKH2		ST*	
Low bed truck Low deck lowerable 	Tracks: 1830 / 1925 or 1950 / 2010 Spring centres: 980 / 1100 Tyres: 17,5" walking beam axle	FB100; LK-Unit	FB100; (FB 100-HD) Two-leaf spring LK-Unit	10,5t-axle GKH2 walking beam axle 7,0 to	GKH2 12,0t-axle strengthened axle beam (25 mm) walking beam axle > 7.0 to	ST*	HD*
Centre-axle trailer 1 - 3 axles 	Tracks: 2040 / 1950 Spring centres: 1300 / 1100 Tyres: 19,5" (disc) 17,5" (drum)	FB70-ST; FB70-HD FB80; TKLR/KLR GK-Unit		5,5t, 7t-axle GKH2, DKH2 3 x 9,0t / 2 x 10,5t-axle DOKH2, DKH2, GKH2		ST*	
		light OFF-Road use	heavy OFF-Road use				
Tip truck 2 - 3 axle 	Tracks: 2040 Spring centres: 1300 / 1200 Tyres: 22,5" (385/65 R22,5) Height limiting valve with quick-action venting and arrester cable Disk plates with cover plate!	FB 70-HD; LK unit e.g. road construction, gravel pit in ON-road-countries	FB 100; (FB 100-HD) 6t spring (one-leaf / two-leaf) LK unit e.g. for all-wheel towing vehicle	3 x 9,0t-axle DEKH2 4345, GEKH2 4218 Single mounting; strengthened axle beam (16 mm) Light off-road use (see unit)	GH7 12,0t-axle DKH2 4345, GKH2 4220 Double twin tyres strengthened axle beam (25 mm) Heavy off-road use (see unit)	HD*	HD*

* ST=Standart / HD= Heavy Duty

Gigant principle – Outboard brake drum.

We have made further improvements to the drum-braked axles. The result is a forward-looking principle which reduces costs using many innovative performance features:

- © Brake drum in front of the hub: shorter service times – less adjustment required
- © Extended guarantee: 6 years or 1,000,000 kilometres on the compact bearing according to GIGANT conditions of warranty



Company profile.



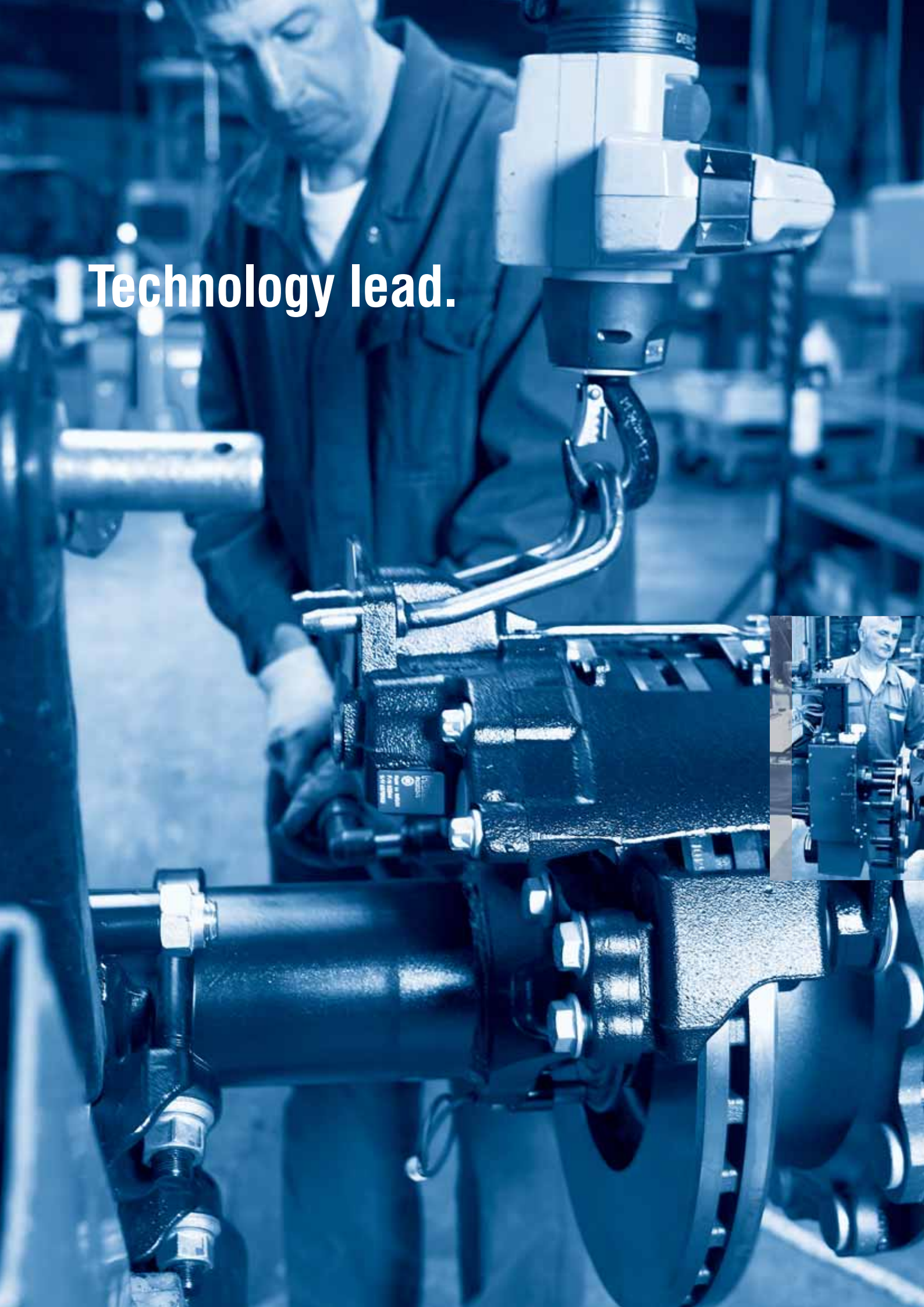
For more than fifty years we have been building components for running gear systems - our products and services reflect this experience every single day. gigant Trenkamp & Gehle GmbH is a company of the KRONE group, and has been producing at the location in Germany for more than fifty years. Thus, we can offer our customers optimised solutions for your everyday transport. This comprises a wide product range from the light 5.5 t axle and the 9 t standard axle for commercial vehicles to a heavy 12 t axle for the heavy-duty truck market. Every product has been matched specifically to the individual needs of our customers. We offer all axles for the light on-road traffic as well as for the demanding off-road traffic, where the axles are subjected to the harshest conditions. But not only the hardware itself is important to us - the corresponding service belongs to a perfect product as well. For this reason, we offer an extensive service network with service points and authorised repair workshops in order to provide support quickly, when required, no matter where you are at that moment. Our service hotline is available to you all over Europe.

All of this has made gigant a reliable partner all over Europe. And we can prove this as well. Certified in keeping with the quality standard DIN ISO 9001:2000 we offer absolute safety. Our production from development to customer services is monitored not only internally but externally as well.

Your satisfaction is our goal!



Technology lead.



Euro axle made by gigant.



Put your faith in us. So strong, reliable and consistent that you will require much less of it:
Less weight, lower costs, reduced time. The Euro axle.

The newly developed **gigant** standard axle for road going trailers was specially designed for mass production use. It has a further weight advantage over its light predecessor axle; this is achieved by combining with the innovative **gigant** air suspension system FB70.

The ideal application for the wheel bearing stepped hub unit, which is also weight-optimised and has an extended warranty of one million kilometres or six years, is in the Euro axle. Changing the brake discs is performed without disassembling the wheel bearing. That means: less service time required and lower maintenance costs for you. The successful principle of the **gigant** drum brake is applied in this case to perfection. And the further developed monobloc technology means the axle beam dispenses with susceptible welding seams.

The Euro axle is the perfect example of achieving considerable cost savings using state-of-the-art production and consistent engineering.

A force to be reckoned with!



INFORMATIONS

AXLE LOADS: The mentioned axle loads are max. values up to 105 km/h.

WHEEL BRAKES: On request we can send you the test reports for the cam brake.

SLAG ADJUSTER: Automatic slag adjuster (AGS) are part of the delivery. Manual slack adjuster are available on request.

AIR CHAMBER BRACKETS (A.C.B.): Air chamber brackets are part of delivery.

ABS: On request all axles can be delivered with ABS preparation.

WHEEL ATTACHMENTS: Axles can be delivered with wheel attachments for spigot alignment or stud alignment. When ordering please advise type of wheel attachment. When using ALU-wheels please also indicate type and spigot hole diameter.

SPRING TRACK: Spring track (FM min/max) are technically allowed values. They have to be checked according to tyres, suspension, a.c.b. bracket-center (GM) and for steering axles also according to the steering angle.

AXLE PLATES: All axles can be used together with air and mechanical suspensions. In special cases also for hydraulic suspensions. When ordering please advise type of axle plates.

PROTEC: The gigant axle generation is especially designed for low maintenance and a low whole life cost.

COMPACT BEARING: Up to 1.000.000 km or 6 years guarantee on the compact bearing of the axle systems in accordance with the gigant-guarantee conditions.

STANDARD PROGRAMME: The black printed gigant standard-axle programme shown in the brochure is standing for short delivery times and a competitive price.

Subject to technical changes without prior notification.

In case you need further information about our products please do not hesitate to contact us directly

gigant Trenkamp & Gehle GmbH

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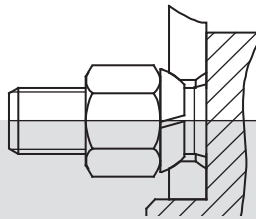
Tel.: +49 (0) 44 43.96 20-0
Fax: +49 (0) 44 43.96 20-30
E-Mail: contact@gigant-group.com

EXPLANATION of axle symbols

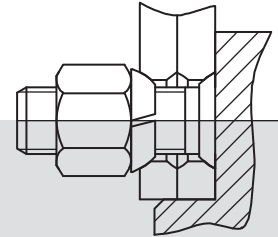
ZO	SO = single tyre ZO = twin tyre
B24	fig. No. (explanation see page 10)
AGS	without = without slack adjuster NGS = manual slack adjuster AGS = automatic slack adjuster
ABS	without = without ABS ABS = with ABS
0344	air chamber bracket center (distance in mm)
1100	spring track (distance in mm)
1950	track (distance in mm)
3020	3010 = drum brake 300 x 100 3015 = drum brake 305 x 150 3020 = drum brake 300 x 200 3334 = disc brake D335 x 34 3620 = drum brake 360 x 200 3745 = disc brake D377 x 45 4218 = drum brake 420 x 180 4220 = drum brake 420 x 200 4345 = disc brake D430 x 45
10	4. and 5. figure = number of studs
105	1. to 3. figure = axle load i. e. 090 = 9,0 t
1	axle generation
H	without = full beam H = hollow beam
K	without = round axle K = compact bearing V = square axle B = bogie straddle mount J = bogie high mount I = bogie low mount
N	without = rigid axle Z = steering axle N = self-steering axle P = walking beam axle G = cranked axle T = walking tandem B = bogie E = special axle O = axle with offset
G	G = gigant axle with drum brake D = gigant axle with disk brake

WHEEL- CONNECTION

Centering on WHEEL STUDS

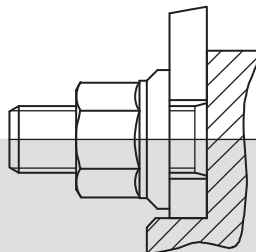


SINGLE MOUNT
TYPE SF
M 18 x 1,5 (24/plat)
M 22 x 1,5 (32/plat)

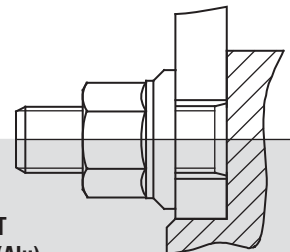


TWIN MOUNT
TYPE ZF
M 18 x 1,5 (24/plat)
M 22 x 1,5 (32/plat)

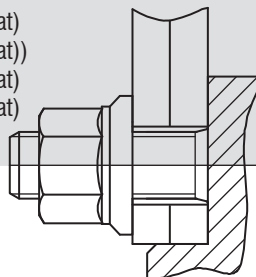
SPIGOT centering



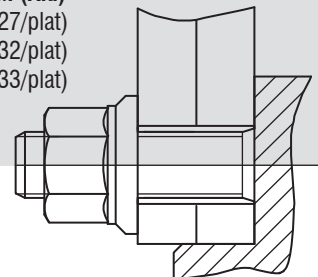
SINGLE MOUNT
TYPE S/SM
M 18 x 1,5 (27/plat)
M 22 x 1,5 (32/plat)
M 22 x 1,5 (33/plat)



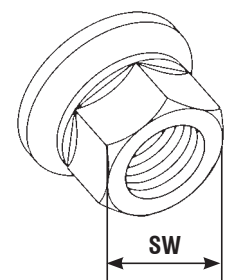
SINGLE MOUNT
TYPE SA/SAM (Alu)
M 18 x 1,5 (27/plat)
M 22 x 1,5 (32/plat)
M 22 x 1,5 (33/plat)



TWIN MOUNT
TYPE Z/ZM
M 18 x 1,5 (27/plat)
M 22 x 1,5 (32/plat)
M 22 x 1,5 (33/plat)
M 24 x 1,5 (36/plat)



TWIN MOUNT
TYPE ZA/ZAM (Alu)
M 18 x 1,5 (27/plat)
M 22 x 1,5 (32/plat)
M 22 x 1,5 (33/plat)



AXLE PLATES

axle
with axle plates **ON THE TOP**

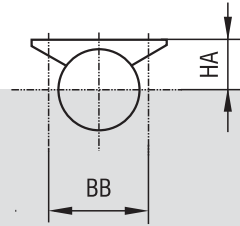


fig. No. 3

axle with axle plates
ON THE TOP AND BELOW

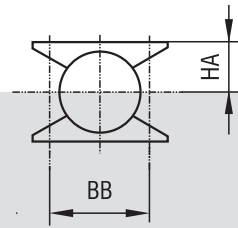


Bild NR. 7

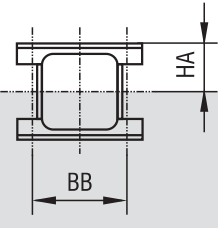


fig. No. 8

axle
with air suspension plates **ON THE TOP**

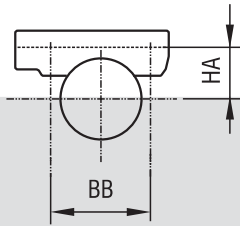


fig. No. 22

axle
with air suspension plates **BELOW**

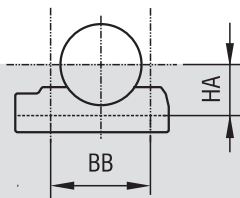
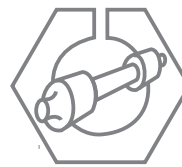


fig. No. 24



HOMOLOGATION PAPER

1

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service

Warranty Conditions

IMPORTANT INFORMATION: the warranty is only valid if the vehicle is in proper condition confirmed on the warranty card within one month of the hand-over of the vehicle! The card must be enclosed with any warranty application!

The manufacturer (hereinafter called Gigant) grants the users of GIGANT axle systems and compact bearing axles in the DK and GK series manufactured and delivery by them since 01.01.2007 a warranty according to the following conditions:

1. Scope of warranty

As warranty, we grant a warranty on the axle systems during the warranty period and are due to a material defect, which is not a legal warranty obligation arising from the sale of a vehicle to a country outside the EU.

The warranty is restricted to vehicles which are sold in the country of sale of a vehicle to a country outside the EU.

<http://www.gigant-group.com/en/service/test-reports.html>



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Home > Service > Overview of test reports

For questions please ask Mr. Dirk Zumdohne (Homologation). He will be happy to help.

Contact:
Dirk Zumdohne
Homologation
Tel: +49 (0)4443/9620-954
Email: d.zumdohne@gigant-group.com

Axles with drum brakes

	Brake	Owner	Law	Date	Axle load PE [kg]	Tire roll radius re [mm]	Test report No.
22,5"	4220P	Gigant - Trenkamp & Gehle GmbH	ECE R13	24.01.2013	13500	546	361-031-07
	4218P	Gigant - Trenkamp & Gehle GmbH	ECE R13	24.01.2013	10200	546	361-015-07
19,5"	3620P	Gigant - Trenkamp & Gehle GmbH	ECE R13	24.01.2013	13500	434	361-014-06

Kraftfahrt-Bundesamt
DE-24932 Flensburg

E1

MITTEILUNG
ausgegeben vom:
Kraftfahrt-Bundesamt

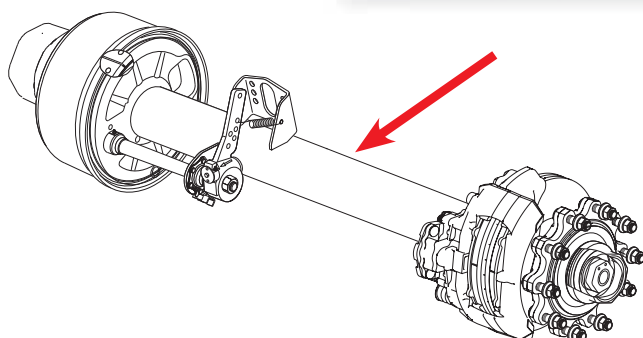
über die Bestätigung eines Prüfprotokolls gemäß Anhang 11 Anlage 2 Punkt 3.8. der ECE Regelung Nr. 13 für eine Bezugsachse/Bezugsbremse

COMMUNICATION
issued by:
Kraftfahrt-Bundesamt

concerning a confirmation of a Test Report regarding Annex 11 Appendix 2 Item 3.8. of ECE Regulation No. 13 for a reference axle/brake

Nummer der Bestätigung: 110025
Confirmation No.:
Erweiterung Nr.: -
Extension No.:

- Fabrikmarke (Handelsname des Herstellers):
Make (trade name of manufacturer):
gigant trailer axles
- Typ:
Type:
Bremse 4345W; 361 105 03
- Name und Anschrift des Herstellers:
Name and address of manufacturer:
Gigant - Trenkamp & Gehle GmbH

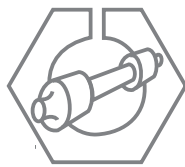


gigant - Trenkamp & Gehle GmbH
D-49413 Dinklage

gigant

Ident No: 10127004 / D13260(95)
DOKH2 09010 4345W 2040 1300 ABS B22

ID1- 225	stat. axle load 9.000 kg v max: 105 km/h
ID2- 4345W	
ID3- 10791,5	
ID4- 36110503	



1 AXLE SET with disc brakes

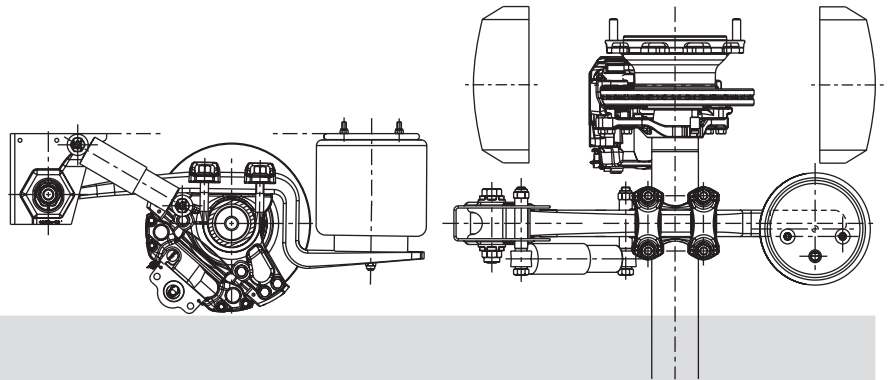
AXLE SET gigant EuroAxle

+ air suspension FB70

ride height FH: appr. 240 - 530 mm

bellow: ø 300 mm

lift in total: 180 mm



TYPE OF AXLE AXLE BEAM	AXLE-LOAD (kg)	ET (mm)	TRACK (mm)	SINGLE TYRE		EXAMPLE OF TYRE	AIR SUSPENSION RIDE HEIGHT			NUMBER OF STUDS	WEIGHT (kg)
				TRACK	SPRING TRACK		NKLRT	NKLRT	NKLRM		
DOKH2 09010 3745 EuroAchse Ø 127	9000	120	2040	1200	385/65 R22,5	NKLRT	NKLRT	NKLRM	10/280.8/335 M22x1,5	442 -	
				1300		240 - 300	280 - 340	315 - 375			
				2090		1300	355 - 415	390 - 450			470 - 530

TYPE OF AXLE AXLE BEAM	AXLE-LOAD (kg)	ET (mm)	TRACK (mm)	SINGLE TYRE		EXAMPLE OF TYRE	AIR SUSPENSION RIDE HEIGHT			NUMBER OF STUDS	WEIGHT (kg)
				TRACK	SPRING TRACK		NKLRT	NKLRT	NKLRM		
DOKH2 09010 4345 EuroAchse Ø 127	9000	120	2040	1200	385/65 R22,5	NKLRT	NKLRT	NKLRM	10/280.8/335 M22x1,5	444 -	
				1300		240 - 300	280 - 340	315 - 375			
				2090		1300	355 - 415	390 - 450			470 - 530

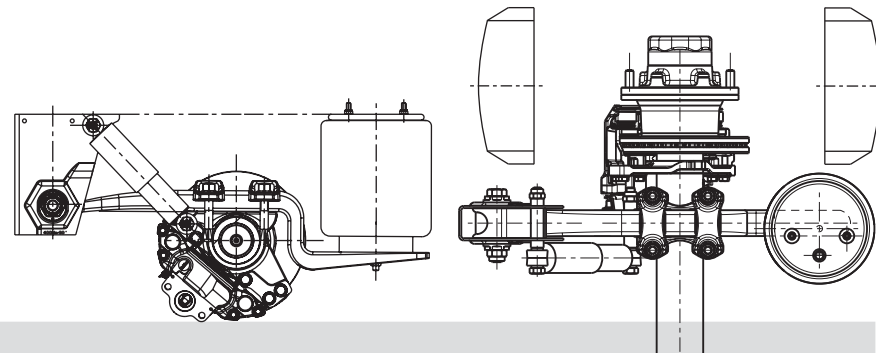
AXLE SET gigant axles

+ air suspension FB70

ride height FH: appr. 240 - 530 mm

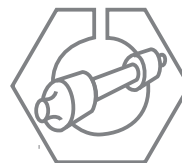
bellow: ø 300 mm

lift in total: 180 mm



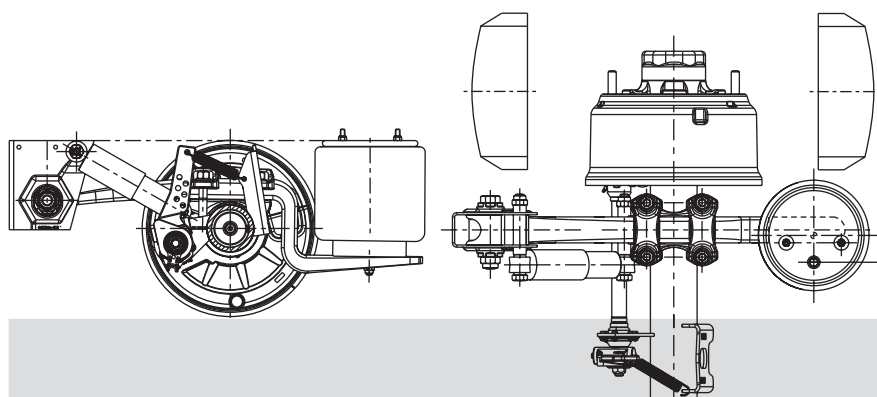
TYPE OF AXLE AXLE BEAM	AXLE-LOAD (kg)	ET (mm)	TRACK (mm)	SINGLE TYRE		EXAMPLE OF TYRE	AIR SUSPENSION RIDE HEIGHT			NUMBER OF STUDS	WEIGHT (kg)
				TRACK	SPRING TRACK		NKLRT	NKLRT	NKLRM		
DKH2 09010 3745 Ø 127	9000	0	2040	1200	385/65 R22,5	NKLRT	NKLRT	NKLRM	10/280.8/335 M22x1,5	414 -	
				1300		240 - 300	280 - 340	315 - 375			
				2090		1300	355 - 415	390 - 450			470 - 530

TYPE OF AXLE AXLE BEAM	AXLE-LOAD (kg)	ET (mm)	TRACK (mm)	SINGLE TYRE		EXAMPLE OF TYRE	AIR SUSPENSION RIDE HEIGHT			NUMBER OF STUDS	WEIGHT (kg)
				TRACK	SPRING TRACK		NKLRT	NKLRT	NKLRM		
DKH2 09010 4345 Ø 127	9000	0	2040	1200	385/65 R22,5	NKLRT	NKLRT	NKLRM	10/280.8/335 M22x1,5	439 -	
				1300		240 - 300	280 - 340	315 - 375			
				2090		1300	355 - 415	390 - 450			470 - 530



AXLE SET with drum brakes

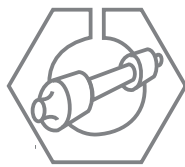
1



AXLE SET gigant axles + air suspension FB70

ride height FH: appr. 240 - 530 mm
bellow: \varnothing 300 mm
lift in total: 180 mm

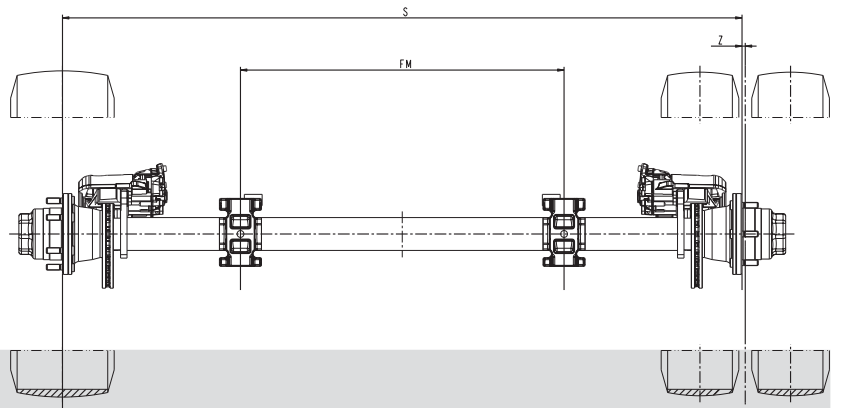
TYPE OF AXLE AXLE BEAM	AXLE- LOAD (kg)	ET (mm)	TRACK (mm)	SINGLE TYRE		AIR SUSPENSION			NUMBER OF STUDS	WEIGHT (kg)
				SPRING TRACK (mm)	EXAMPLE OF TYRE	RIDE HEIGHT				
GKH2 09010 4218 O 127	9000	0	2040	1200	385/65 R22,5	NKLRT 240 - 300	NKLRT 280 - 340	NKLRM 315 - 375	10/280.8/335 M22x1,5	445 -
				1300		NKLRM 355 - 415	KLRM 390 - 450	KLR 470 - 530		453 -
				2090		1300				



1 RIGID AXLES with disc brakes

Compact Bearing Axles

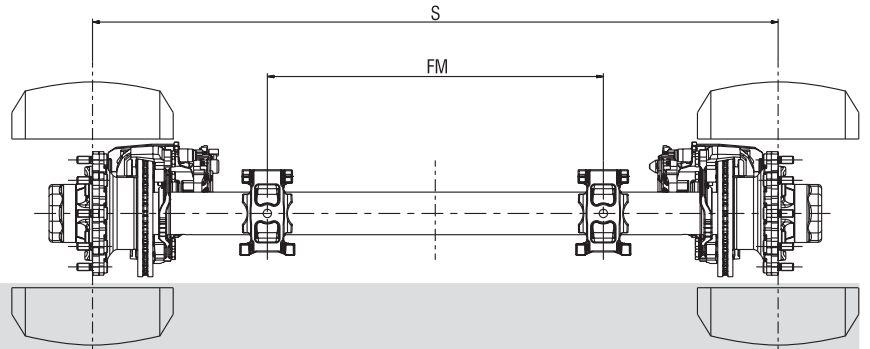
with disc brakes
brake D335 x 34
for tyres 17,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		EXAMPLE OF TYRE	TWIN TYRE		NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵	
			TRACK (mm)	SPRING TRACK (mm)		TRACK ⁴ (mm)	SPRING TRACK (mm)			EXAMPLE OF TYRE
DKH2 05506 3334 O 101,6	5500	0	1800	980	245/70 R17,5	1820	980	6/160.8/205 M18x1,5	fig. 22 fig. 24	
			1920	1200		1940	1100			
			1920	1100						205/65 R17,5
			2000	1300						
			2100	1400						

Compact Bearing Axles

with disc brakes
brake D377 x 45
for tyres 19,5"⁷ and 22,5"



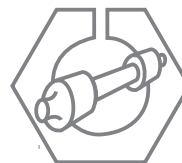
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		EXAMPLE OF TYRE	TWIN TYRE		NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)		TRACK (mm)	SPRING TRACK (mm)		
DKH2 09010 3745 O 127	9000	0	2040	1200	385/65 R22,5			10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300					
			2090	1300					

Standard programme / extended programme, other dimensions on request.

4) track +2 x thickness of the wheel rim (Z)

5) survey on page 12

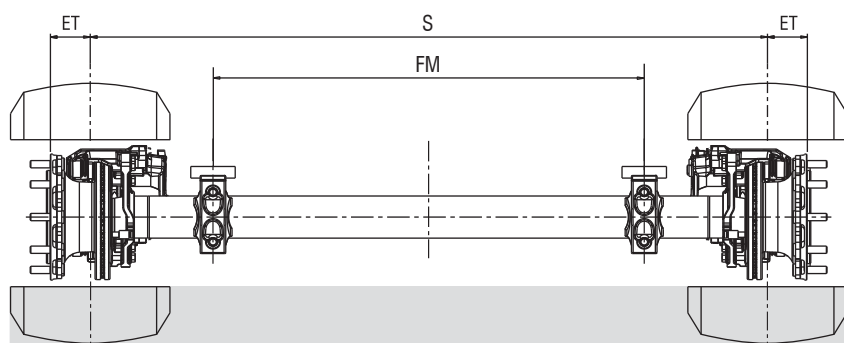
7) only associated with tyre 445/45 R 19,5



RIGID AXLES

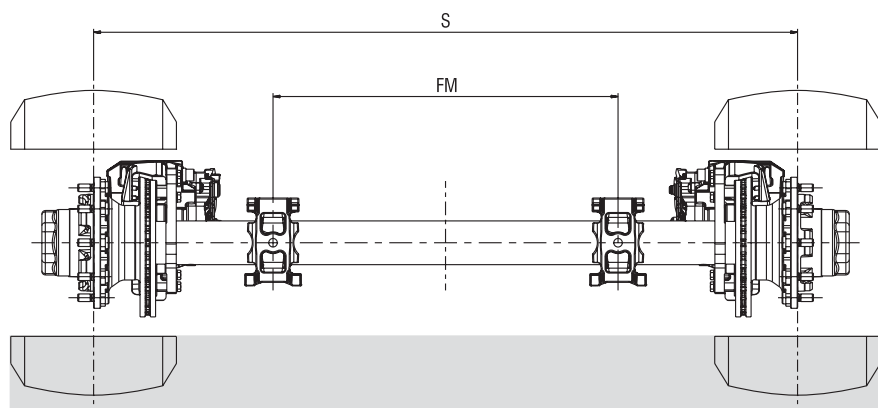
with disc brakes

1



Euro-Axles
with disc brakes
brake D377 x 45
for tyres 19,5”⁷ and 22,5”

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DOKH2 09010 3745 O 127	9000	120	2040	1200	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300						
			2090	1300						



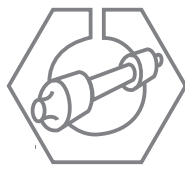
Compact Bearing Axles
with disc brakes
brake D430 x 45
for tyres 22,5”

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DKH2 09010 4345 O 127	9000	0	2040	1200	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300						
			2090	1300						

Standard programme / extended programme, other dimensions on request.

5) survey on page 12

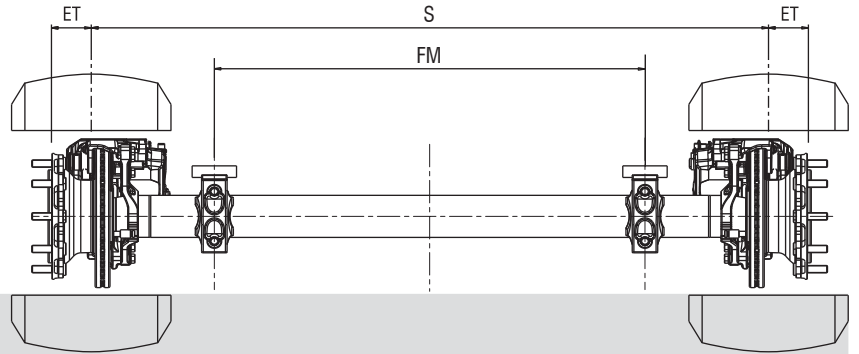
7) only associated with tyre 445/45 R 19,5



1 RIGID AXLES with disc brakes

Euro-Axle

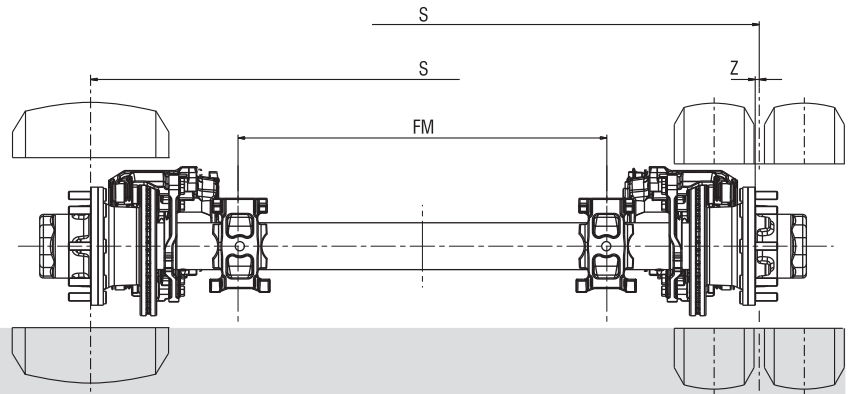
with disc brakes
brake D430 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DOKH2 09010 4345 O 127	9000	120	2040	1200	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300						
			2090	1300						

Compact Bearing Axles

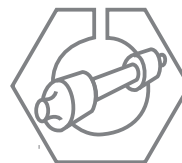
with disc brakes
brake D377 x 45
for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DKH2 10008 3745 O 127	10000	0	2040	1200	445/65 R19,5	1830	980 ³	265/70 R19,5	8/220.8/275 M22x1,5	fig. 22 fig. 24
			2040	1300		1950	980			
						1950	1100 ¹			

Standard programme / extended programme, other dimensions on request.

1) only with mechanical suspension
3) depending on combination tyre and suspension
4) track + 2 x thickness of the wheel rim (Z)
5) survey on page 12



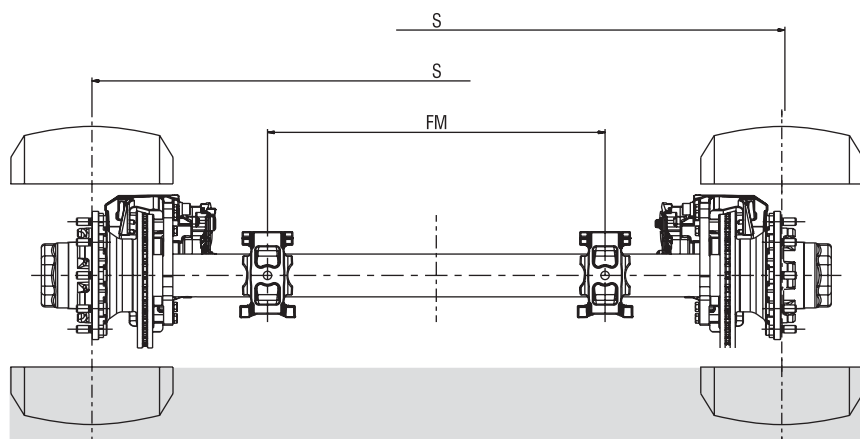
RIGID AXLES

with disc brakes

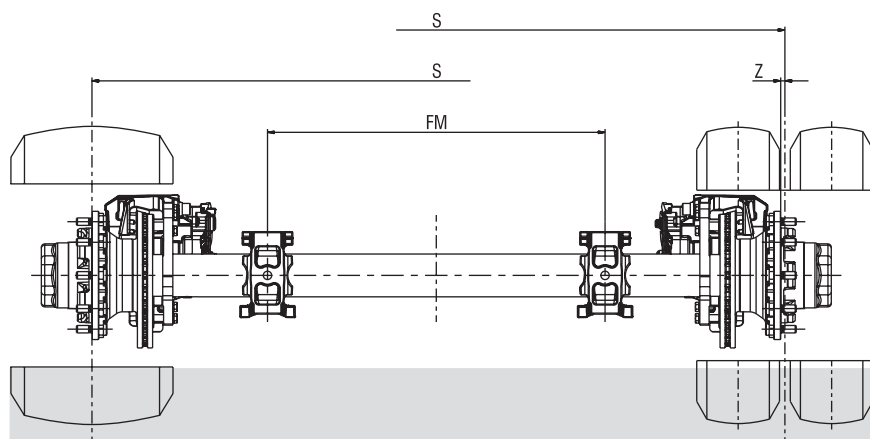
1

Compact Bearing Axles

with disc brakes
brake D430 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DKH2 10510 4345 O 127	10500	0	2040	1200	385/65 R22,5 ²				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300		425/65 R22,5 ²				



Axles

with disc brakes
brake D430 x 45
for tyres 22,5"

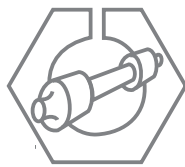
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DH7 12010 4345 O 127	12000	0	2040	1200	445/65 R22,5 ²	1850	900	12 R22,5	10/280.8/335 M22x1,5	fig. 22 fig. 24
			2040	1300		1880	900			

Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information

4) track +2 x thickness of the wheel rim (Z)

5) survey on page 12

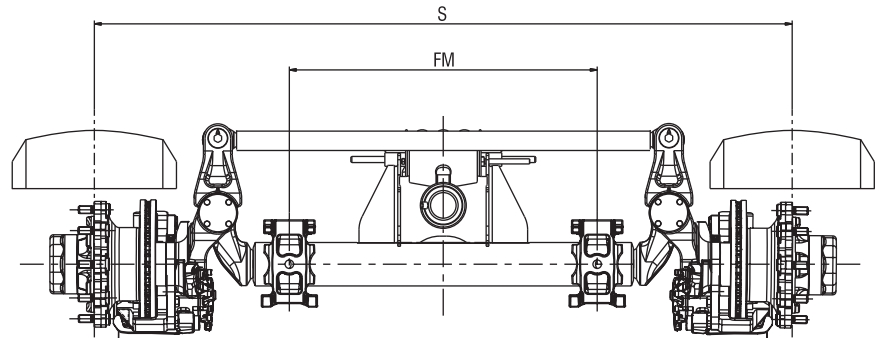


1 SELF STEERING AXLES

with disc brakes

Compact Bearing Axles

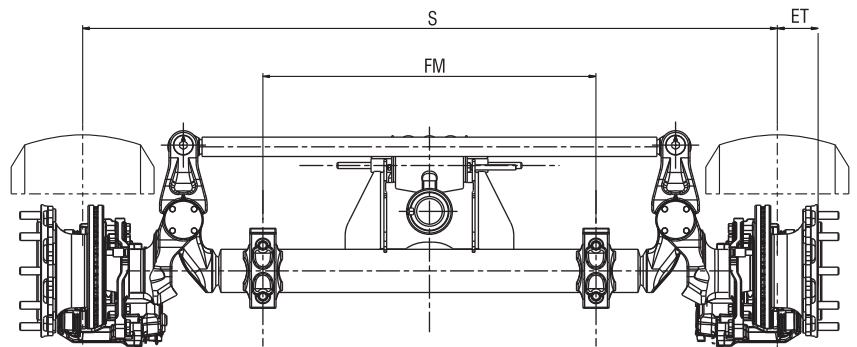
with disc brakes
brake D377 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNKH2 09010 3745 O 127	9000	0	2040	980	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2090	980						

Euro-Axles

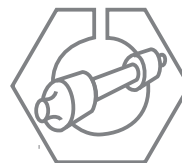
with disc brakes
brake D377 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNOKH2 09010 3745 O 127	9000	120	2040	980	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24
			2090							

Standard programme / extended programme, other dimensions on request.

5) survey on page 12

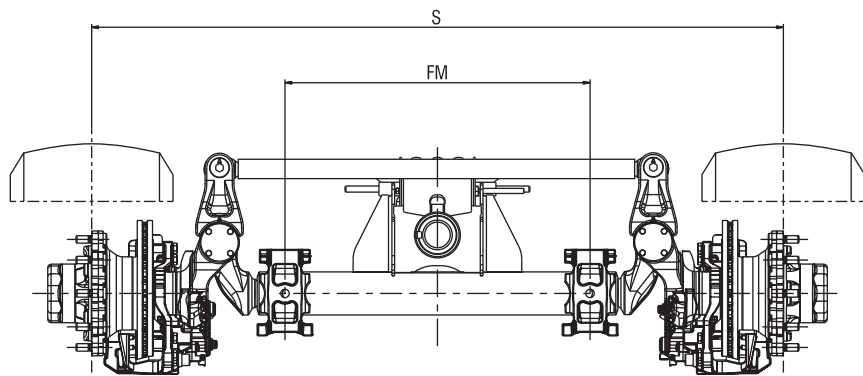


SELF STEERING AXLES

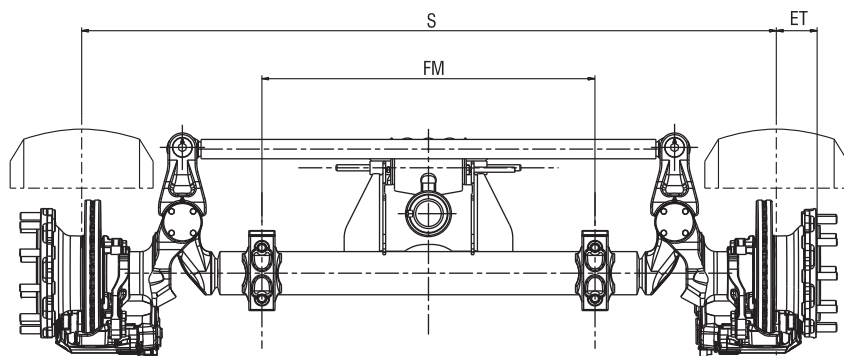
with disc brakes

1

Compact Bearing Axles
with disc brakes
brake D430 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNKH2 09010 4345 O 127	9000	0	2040	980	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24

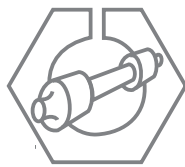


Euro-Axles
with disc brakes
brake D430 x 45
for tyres 22,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNOKH2 09010 4345 O 127	9000	120	2040	980	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22 fig. 24

Standard programme / extended programme, other dimensions on request.

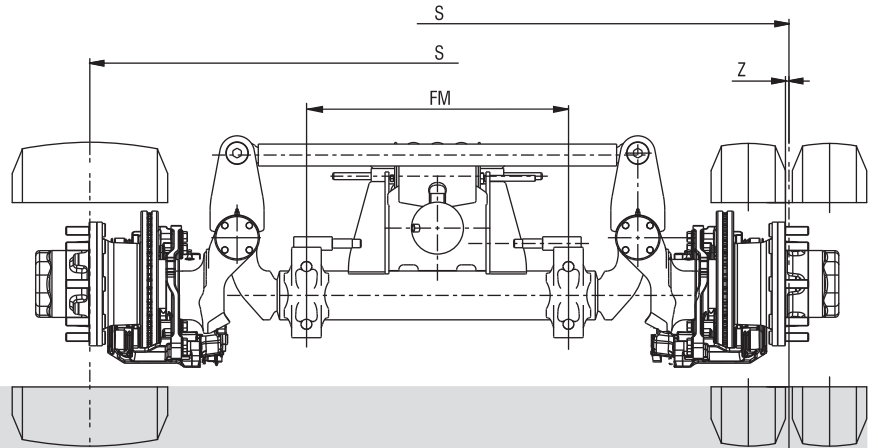
5) survey on page 12



1 SELF STEERING AXLES with disc brakes

Compact Bearing Axles

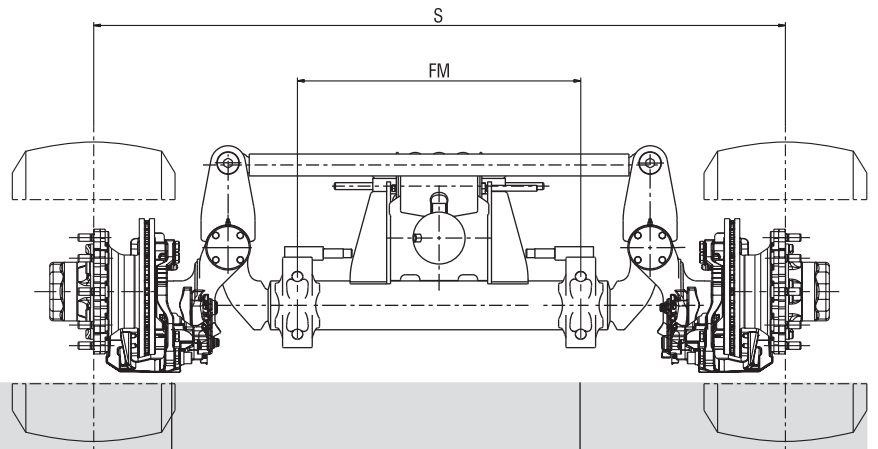
with disc brakes
brake D377 x 45
for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNKH2 10008 3745 O 127	10000	0	2040	980	445/65 R19,5	1830 ³	depending on steering- angle and tyres	265/70 R19,5	8/220.8/275 M22x1,5	fig. 22 fig. 24
						1950				

Compact Bearing Axles

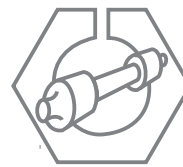
with disc brakes
brake D430 x 45
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNKH2 10510 4345 O 127	10500	0	2040	980	385/65 R22,5 ²				10/280.8/335 M22x1,5	fig. 22 fig. 24

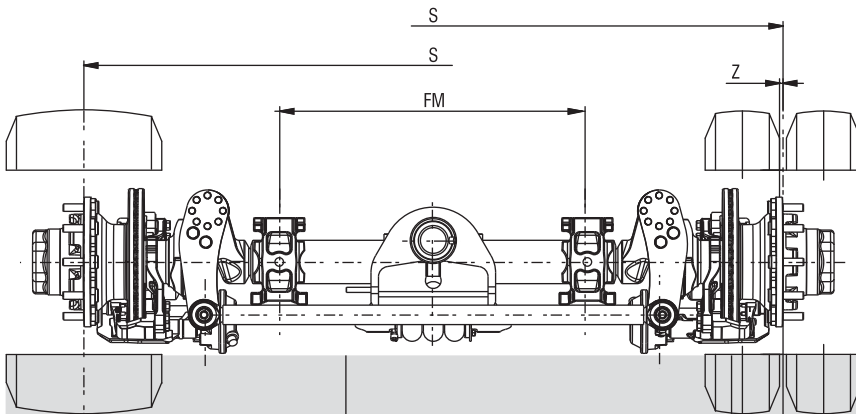
Standard programme / extended programme, other dimensions on request.

- 2) axle charge of tyre acc. to producer's information
- 3) depending on combination tyre and suspension
- 4) track + 2 x thickness of the wheel rim (Z)
- 5) survey on page 12



SELF STEERING AXLES with disc brakes

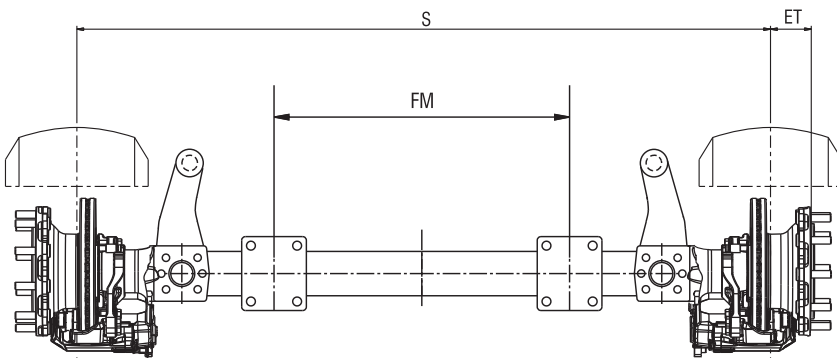
1



Compact Bearing Axles with disc brakes brake D430 x 45 for tyres 22,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DNH7 12010 4345 O 127	12000	0	2040	900	445/65 R22,5 ²	1850 ³	depending on steering-angle and tyres		10/280.8/335 M22x1,5	fig. 22 fig. 24
			2090	900		1880				

STEERING AXLES with disc brakes

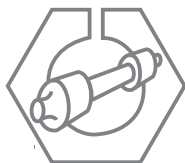


Euro-Axles with disc brakes D430 x 45 for tyres 22,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
DEZOKH2 10010 4345 O 127	10000	120	2040	800	385/65 R22,5				10/280.8/335 M22x1,5	fig. 22
			2090	850						
			2140	900						

Standard programme / extended programme, other dimensions on request.

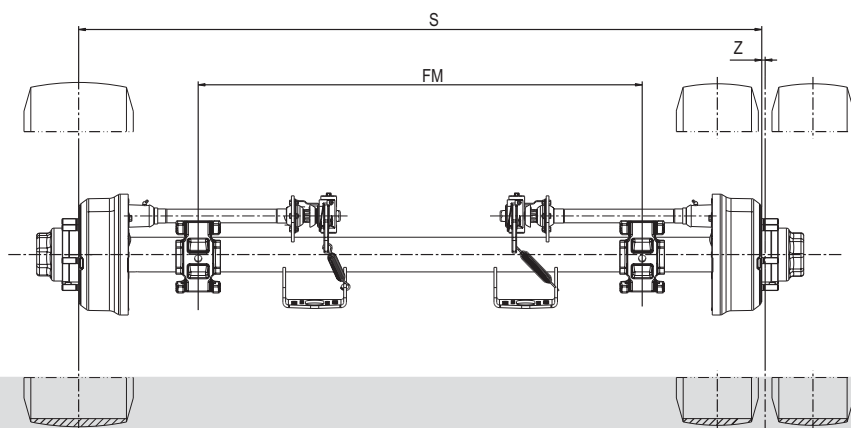
- 2) axle charge of tyre acc. to producer's information
- 3) depending on combination tyre and suspension
- 4) track + 2 x thickness of the wheel rim (Z)
- 5) survey on page 12



1 RIGID AXLES with drum brakes

Compact Bearing Axles

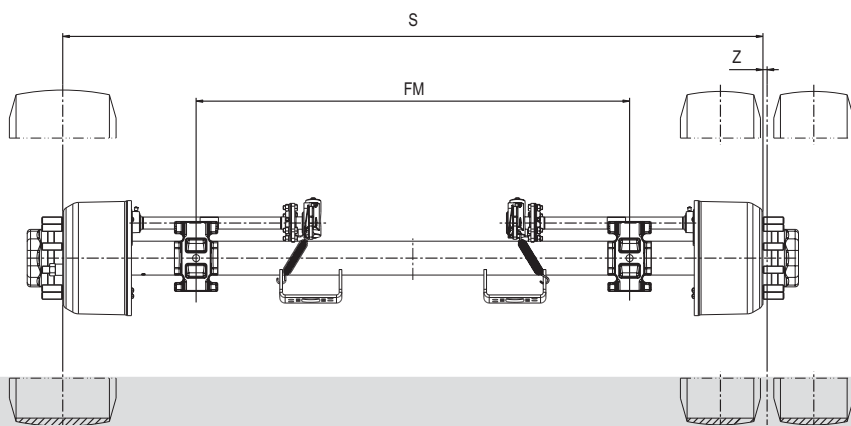
with drum brakes
brake 300 x 100
for tyres 17,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		EXAMPLE OF TYRE	TWIN TYRE		EXAMPLE OF TYRE	NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)		TRACK ⁴ (mm)	SPRING TRACK (mm)			
GKH2 05506 3010 O 101,6	5500	0	1800	980	245/70 R17,5	1820	980	205/65 R17,5	6/160.8/205 M18x1,5	fig. 22 fig. 24
			1920	1100		1940	1100			
			2000	1300						
			2100	1300						
			2100	1400						

Compact Bearing Axles

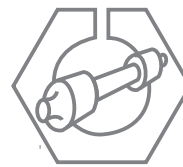
with drum brakes
brake 305 x 150
for tyres 17,5" to 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		EXAMPLE OF TYRE	TWIN TYRE		EXAMPLE OF TYRE	NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)		TRACK ⁴ (mm)	SPRING TRACK (mm)			
GKH2 07006 3015 O 101,6	7000	0	1850	1100	245/70 R17,5	1875	1100	205/75 R17,5 ²	6/160.8/205 M18x1,5	fig. 08 fig. 27 fig. 29
			1925	1100		1950	1100			
			1925	1300 ¹		1950	1300 ¹			
GKH2 07010 3015 O 101,6			2000	1300						
			2100	1400		2025	1300			

Standard programme / extended programme, other dimensions on request.

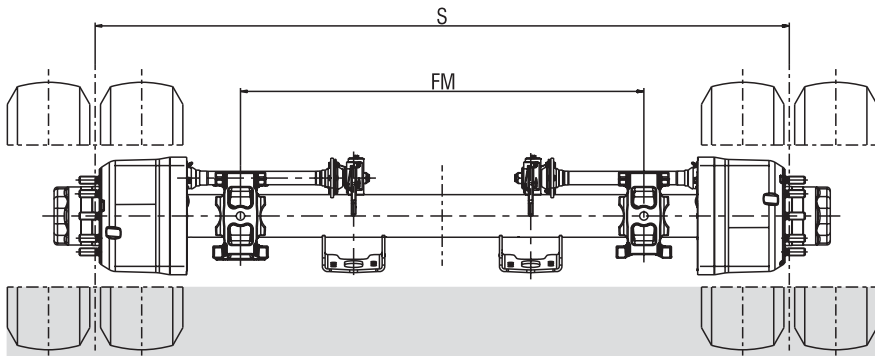
1) only with mechanical suspension
2) axle charge of tyre acc. to producer's information
4) track + 2 x thickness of the wheel rim (Z)
5) survey on page 12



RIGID AXLES

with drum brakes

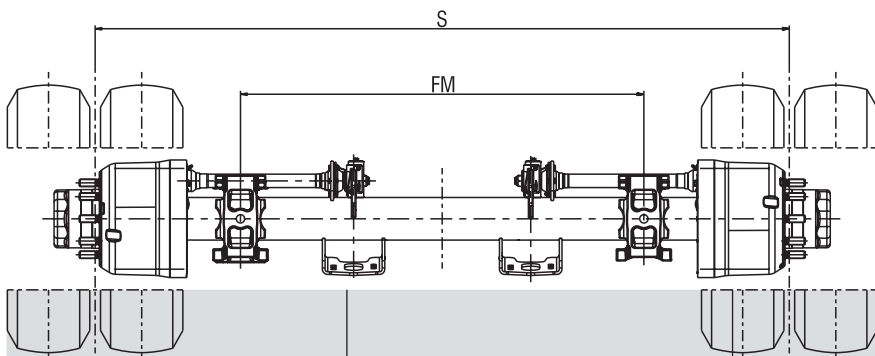
1



Compact Bearing Axles

with drum brakes
brake 300 x 200
for tyres 17,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 10510 3020 O 127	10500	0				1830	980	245/70 R17,5 8.25 R15 ²	10/175.8/225 M22x1,5	fig. 03 fig. 07 fig. 22 fig. 24
						1925	980			
						1925	1100			
						1950	1000			
						1950	1100			
						2010	1100			



Compact Bearing Axles

with drum brakes
brake 300 x 200
for tyres 17,5"

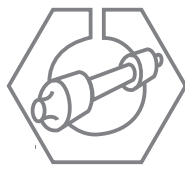
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 12010 3020 O 127	12000	0				1830	980	245/70 R17,5 ²	10/175.8/225 M22x1,5	fig. 03 fig. 07 fig. 22 fig. 24
						1925	980			
						1925	1100			
						1950	1000			
						1950	1100			
						2010	1100			

Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information

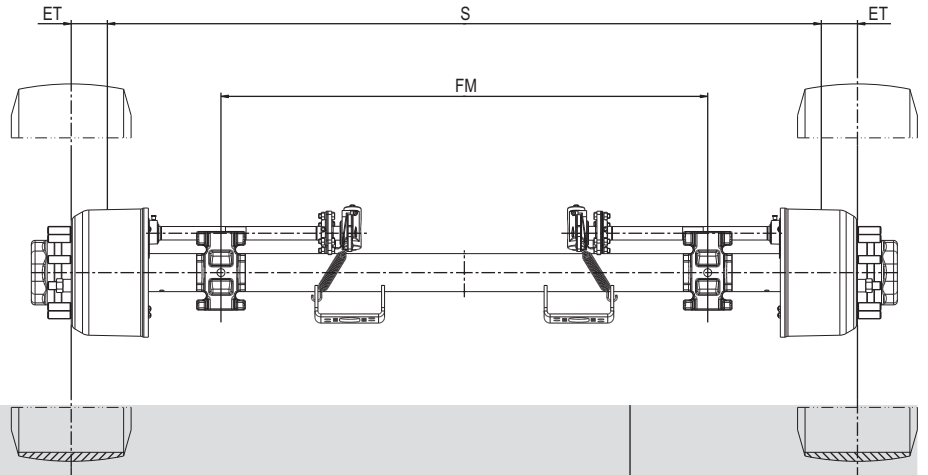
4) track +2 x thickness of the wheel rim (Z)

5) survey on page 12



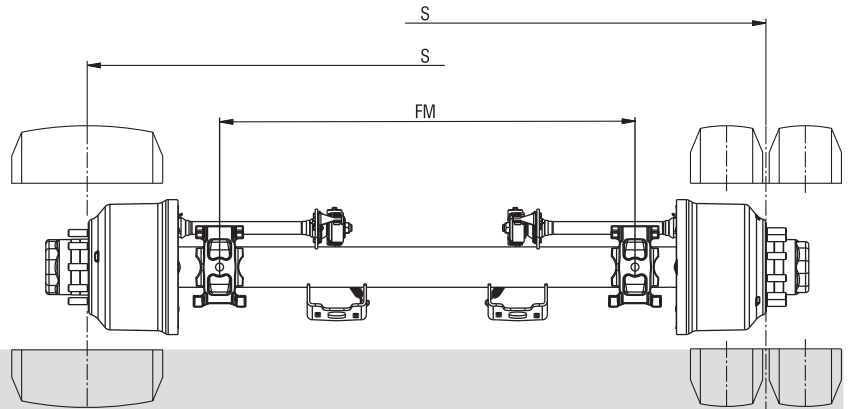
1 RIGID AXLES with drum brakes

Compact Bearing Axles with drum brakes brake 355 x 150 for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GOKH2 07108 3515 O 127	7100	66	2250	1400	285/70 R19,5				8/220.8/275 M22x1,5	fig. 24

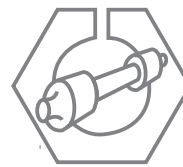
Compact Bearing Axles with drum brakes brake 360 x 200 for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 10508 3620 O 127	10500	0	2040	1200	445/45 R19,5	1830 ³	980	265/70 R19,5	8/220.8/275 M22x1,5	fig. 03 fig. 07 fig. 22 fig. 24
				1300		1930	980			
			2040	1200		1930	1100 ¹			
				1300		1950	1100			
GKH2 10510 3620 O 127	10500	0	2040	1200	285/70 R19,5	1830 ³	980	265/70 R19,5	10/220.8/275 M22x1,5	fig. 03 fig. 07 fig. 22 fig. 24
				1300		1930	980			
			2040	1200		1930	1100 ¹			
				1300		1950	1100			

Standard programme / extended programme, other dimensions on request.

- 1) only with mechanical suspension
- 2) axle charge of tyre acc. to producer's information
- 3) depending on combination tyre and suspension
- 4) track + 2 x thickness of the wheel rim (Z)
- 5) survey on page 12



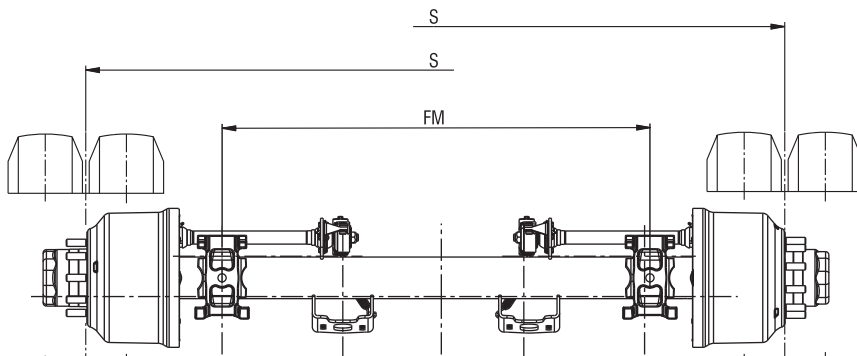
RIGID AXLES

with drum brakes

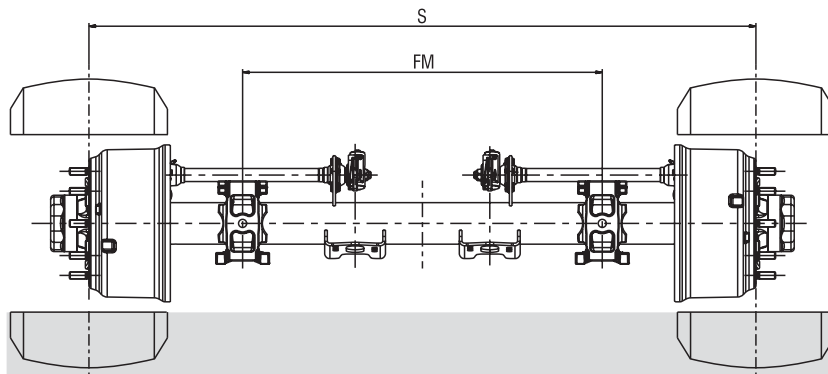
1

Axles

with drum brakes
brake 360 x 200
for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 12008 3620 O 127	12000	0				1830	900	285/70 R19,5 ²	8/220.8/275 M22x1,5	fig. 22 fig. 24
						1930	980			



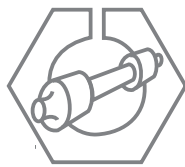
Compact Bearing Axles

with drum brakes
brake 420 x 180
for tyres 22,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 09010 4218 O 127	9000	0	2040	1200	385/65 R22,5				10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
			2040	1300						
			2090	1300						
			2090	1400						

Standard programme / extended programme, other dimensions on request.

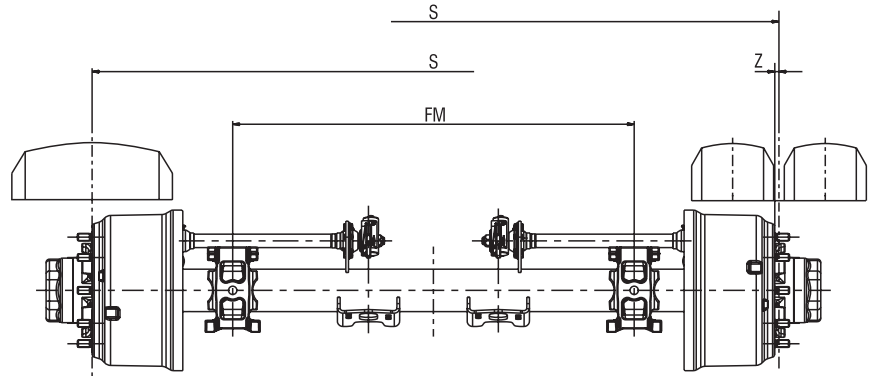
- 1) only with mechanical suspension
- 2) axle charge of tyre acc. to producer's information
- 3) depending on combination tyre and suspension
- 4) track +2 x thickness of the wheel rim (Z)
- 5) survey on page 12



1 RIGID AXLES with drum brakes

Compact Bearing Axles

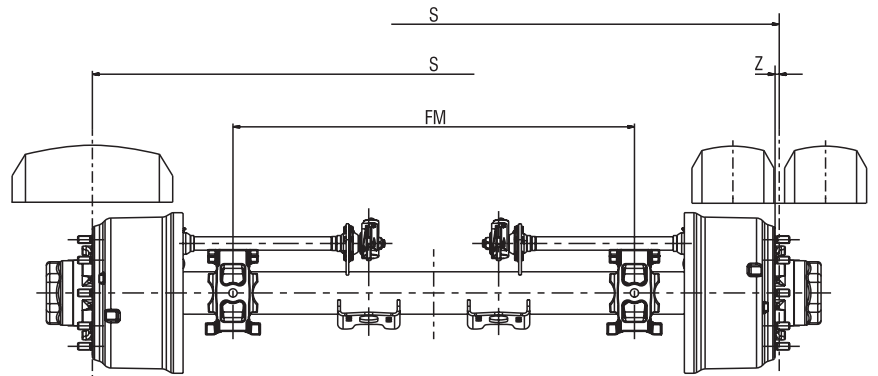
with drum brakes
brake 420 x 200
for tyres 20" to 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKH2 10510 4220 O 127	10500	0	2040	1200	385/65 R22,5 ² 425/65R22,5	1850	980		10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
			2040	1300		1880	980			
						1950	1100			

Compact Bearing Axles

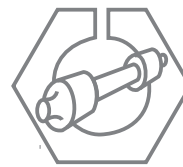
with drum brakes
brake 420 x 200
for tyres 20" to 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GH7 12010 4220 O 127	12000	0	2040	1200	445/65 R22,5 ²	1850	980	12 R22,5	10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
						1880	900			

Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information
4) track + 2 x thickness of the wheel rim (Z)
5) survey on page 12

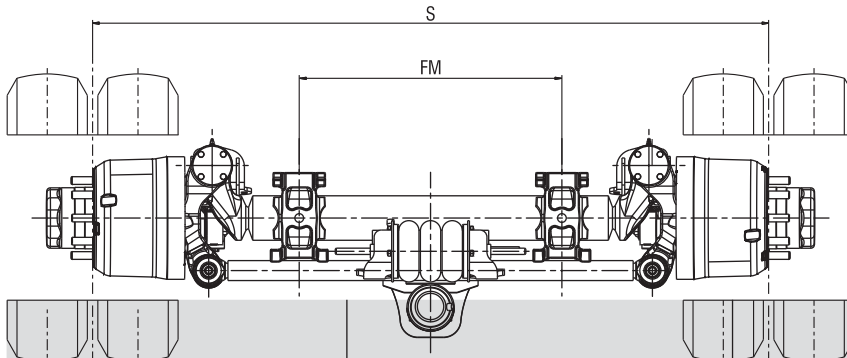


SELF STEERING AXLES 1

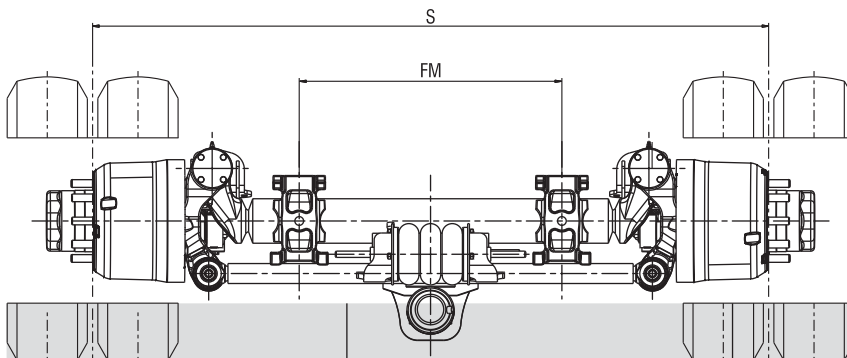
with drum brakes

Compact Bearing Axles

with drum brakes
brake 300 x 200
for tyres 15" to 17,5"
Steering angle up to 25° possible !*



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵	
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)			EXAMPLE OF TYRE
GNKH2 10510 3020 O 127	10500	0				1830		10/175.8/225 M22x1,5	fig. 03 fig. 22 fig. 24	
						1925				
						1950				245/70 R17,5
						2010				



Compact Bearing Axles

with drum brakes
brake 300 x 200
for tyres 15" to 17,5"
Steering angle up to 25° possible !*

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵	
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)			EXAMPLE OF TYRE
GNKH2 12010 3020 O 127	12000	0				1830		10/175.8/225 M22x1,5	fig. 03 fig. 22 fig. 24	
						1925				
						1950				245/70 R17,5 ²
						2010				

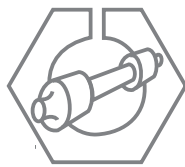
Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information

4) track +2 x thickness of the wheel rim (Z)

5) survey on page 12

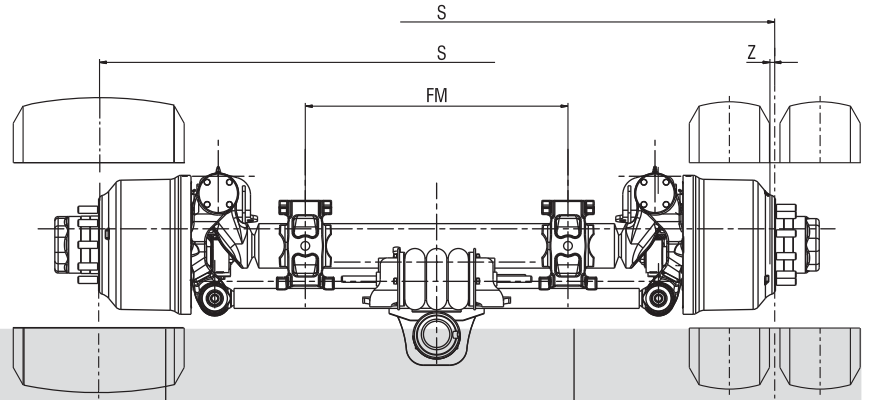
* Steering angle in relationship of track, spring track, tyre and chassis construction !



1 SELF STEERING AXLES with drum brakes

Compact Bearing Axles

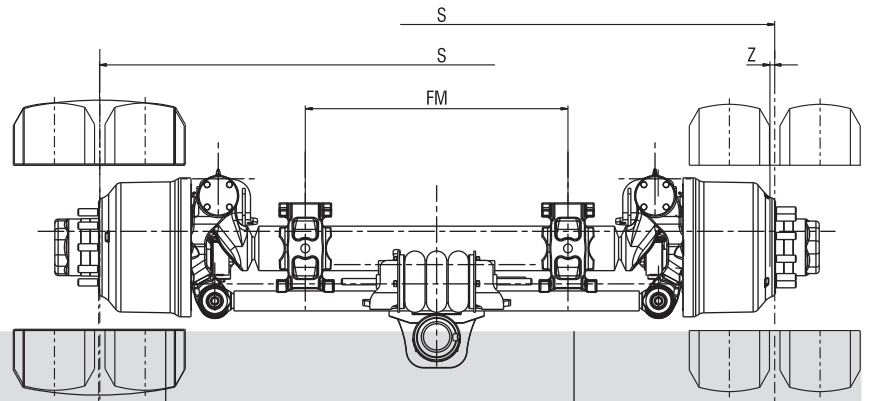
with drum brakes
brake 360 x 200
for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GNKH2 10508 3620 O 127	10500	0	2040	900	445/65 R19,5	1830	710	265/70 R19,5	8/220.8/275 M22x1,5	fig. 03 fig. 08 fig. 22 fig. 24
						1930	750			
						1950	750			
GNKH2 10510 3620 O 127	10500	0	2040	900	445/65 R19,5	1830	710	265/70 R19,5	10/175.8/225 M22x1,5	fig. 03 fig. 08 fig. 22 fig. 24
						1930	750			
						1950	750			

Axles

with drum brakes
brake 360 x 200
for tyres 19,5"



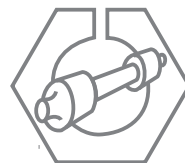
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GNH7 12008 3620 O 127	12000	0				1930	730	285/70 R19,5 ²	8/220.8/275 M22x1,5	fig. 03 fig. 08 fig. 22 fig. 24
						1950	680			

Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information

4) track + 2 x thickness of the wheel rim (Z)

5) survey on page 12

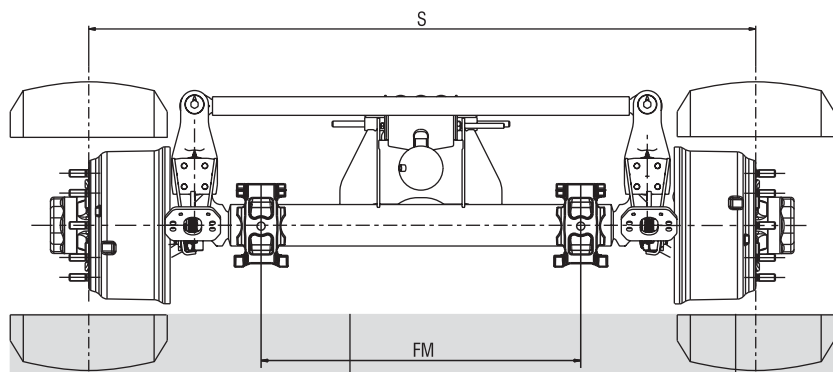


SELF STEERING AXLES with drum brakes

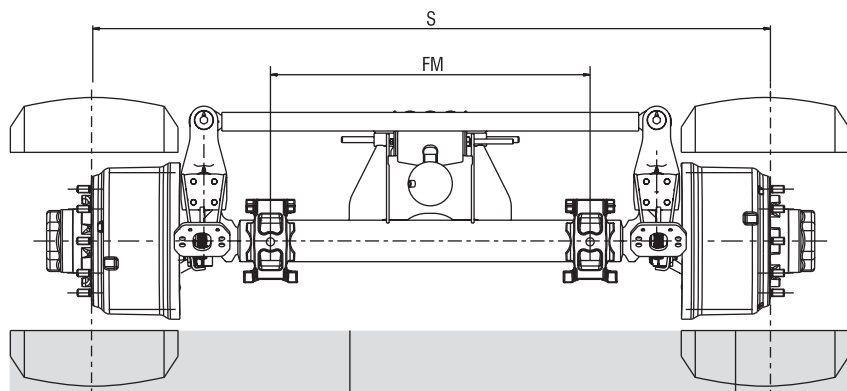
1

Compact Bearing Axles

with drum brakes
brake 420 x 180
for tyres 22,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GNKH2 09010 4218 O 127	9000	0	2040	980	385/65 R22,5				10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
			2090	980						



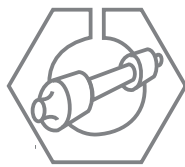
Axles

with drum brakes
brake 420 x 200
for tyres 22,5"

TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GNH7 12010 4220 O 127	12000	0	2040	900	445/65 R22,5 ²	1850	650	12 R22,5	10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
						1880	660			

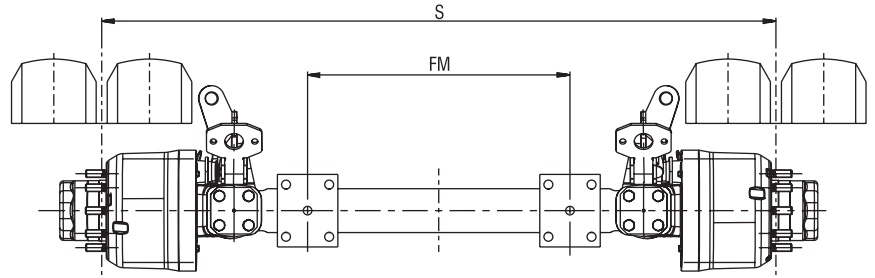
Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information
4) track +2 x thickness of the wheel rim (Z)
5) survey on page 12



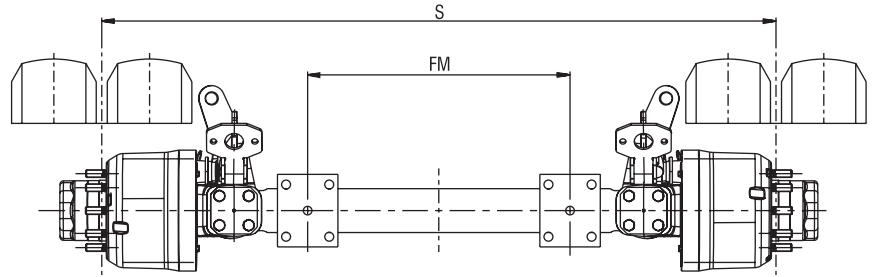
1 STEERING AXLES with drum brakes

Compact Bearing Axles with drum brakes brake 300 x 200 for tyres 17,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵	
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)			EXAMPLE OF TYRE
GZKH2 10510 3020 ○ 127	10500	0				1950	depending on steering- angle and tyres	245/70 R17,5	10/175.8/225 M22x1,5	fig. 03 fig. 22 fig. 24
						2010				

Compact Bearing Axles with drum brakes brake 300 x 200 for tyres 17,5"

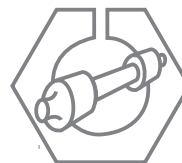


TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE		TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵	
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)			EXAMPLE OF TYRE
GZKH2 12010 3020 ○ 127	12000	0				1950	depending on steering- angle and tyres	245/70 R17,5	10/175.8/225 M22x1,5	fig. 03 fig. 22 fig. 24
						1990				
						2010				

Standard programme / extended programme, other dimensions on request.

4) track +2 x thickness of the wheel rim (Z)

5) survey on page 12

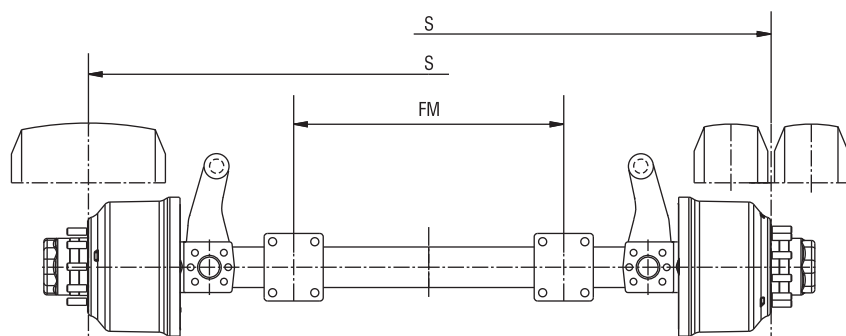


STEERING AXLES with drum brakes

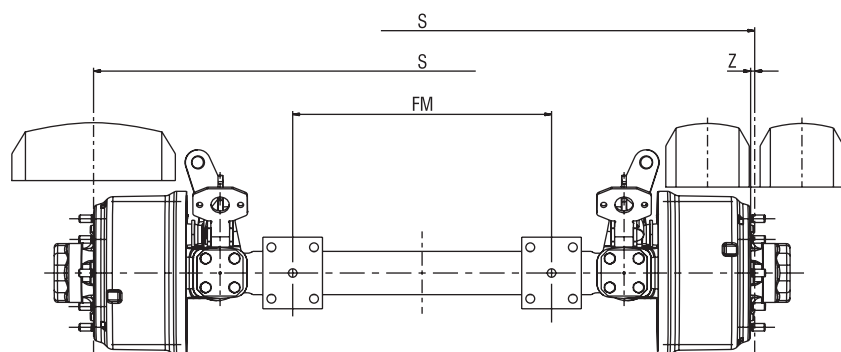
1

Compact Bearing Axles Axles

with drum brakes
brake 360 x 200
for tyres 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GZKH2 10508 3620 O 127	10500	0	2040	900	445/65 R19,5	1830	710	265/70 R19,5	8/220.8/275 M22x1,5	fig. 03 fig. 22 fig. 24
						1930	750			
						1950	750			
GZKH2 10510 3620 O 127	10500	0	2040	900	445/65 R19,5	1830	710	265/70 R19,5	10/175.8/225 M22x1,5	fig. 03 fig. 22 fig. 24
						1930	750			
						1950	750			
GZKH2 12008 3620 O 127	12000	0				1830	710	285/70 R19,5 ²	8/220.8/275 M22x1,5	
						1930	750			



Axles

with drum brakes
brake 420 x 200
for tyres 22,5"

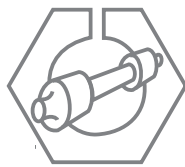
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK ⁴ (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GZH7 12010 4220 O 127	12000	0	2040	850	445/65 R22,5	1850	depending on steering- angle and tyres	12 R22,5	10/280.8/335 M22x1,5	fig. 03 fig. 22 fig. 24
						1880				

Standard programme / extended programme, other dimensions on request.

2) axle charge of tyre acc. to producer's information

4) track +2 x thickness of the wheel rim (Z)

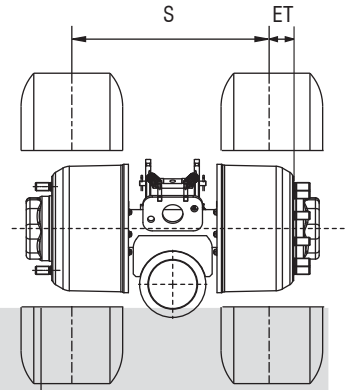
5) survey on page 12



1 Walking Beam Axles with drum brakes

Compact Bearing Walking Beam Axles

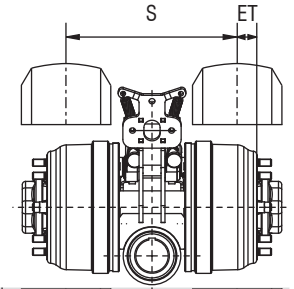
with drum brake
Brake 305 x 150
for tyre 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GOKPS 06010 3015	6000	55	495		265/70 R17,5				10/175.8/225 M22x1,5	
GKPS 06010 3015	6000	0	605		215/75 R17,5					
GOKPS 07010 3015	7000	55	540		265/70 R17,5					
GKPS 10010 3015	10000	0				735	215/75 R17,5			

Compact Bearing Walking Beam Axles

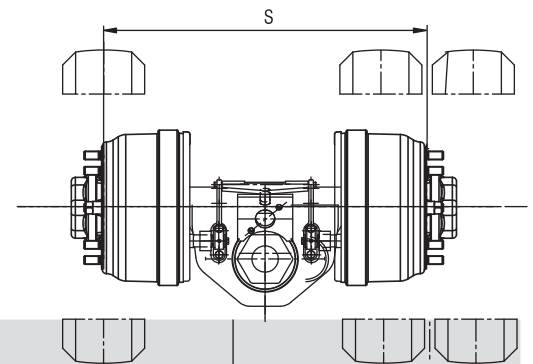
with drum brake
Brake 355 x 150
for tyre 19,5"



TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GOKPS 07008 3515	7000	66	518		285/70 R19,5				8/220.8/275 M22x1,5	

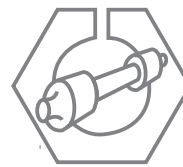
Compact Bearing Walking Beam Axles

with drum brake
brake 420 x 180
for tyre 20" - 22,5"



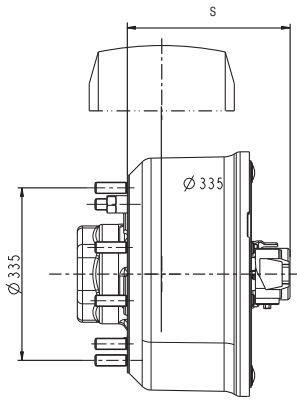
TYPE OF AXLE AXLE BEAM	AXLE LOAD (kg)	ET (mm)	SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES
			TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GKPS 10010 4218	10000	0	890		8,25 R20				10/280.8/335 M22x1,5	

Remark: Other types of compact bearing walking beam axle are available ! Please ask us !



Axle studs with drum brakes

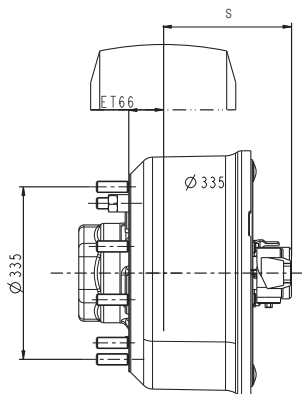
1



Compact Bearing Axles

with drum brake
brake 300 x 100
for tyres 17,5"

Left side			SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
TYPE OF AXLE	AXLE LOAD (kg)	ET (mm)	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GEKH2 05506 3010*	5500	0	280		235/75 R17,5				6/160.8/205 M18x1,5	



Compact Bearing Axles

with drum brake
brake 420 x 180
for tyres 22,5"

Left side			SINGLE TYRE			TWIN TYRE			NUMBER OF STUDS	POSSIBLE AXLE PLATES ⁵
TYPE OF AXLE	AXLE LOAD (kg)	ET (mm)	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE	TRACK (mm)	SPRING TRACK (mm)	EXAMPLE OF TYRE		
GEOKH2 10010 4218*	10000	66	250		385/65 R22,5				10/280.8/335 M22x1,5	

* Further versions of axle studs available !

Road light.



Air suspension systems made by gigant.



Light as a feather, space saving and universal. With air suspension systems made by gigant you will experience balanced driving comfort and effective suspension.

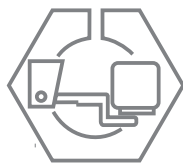
We have brought our air suspension systems in line with the individual needs of our customers, as well. Our product range in the field of air suspension systems comprises axle loads from 5.5 to 13 tonnes and ride heights of 150 millimetres to 550 millimetres.

Less in all parts results in more in total: After all, the weight determines the efficiency of the system. For this reason, we have optimised our FB 70 system in many parts. The air bellows have been provided with a plastic piston in order to radically reduce the weight. And our spring beam does not need more than the absolutely necessary either: The gigant axle system FB 70 for an axle load of 9 tonnes is fitted with a spring beam of 70 millimetres in width. In addition, the efficient axle lift offers a relief, as well. This unit can be screwed down and can be retrofitted without welding or disassembly of the spring beam bolt - for you to stay flexible.

Long-lasting, low-maintenance and effectively utilised functionality make driving easier.

With the optimised technology of gigant!





AIR- SUSPENSION

2 EXPLANATION of Suspension Symbols

.1 .1 = one-leaf Spring
w/o = two-leaf spring

/9 load per axle (tonnes) on road, speed 105 km/h (dependent on spring track and centre of gravity, possibly increase of 1 t load per axle)

.35 rear length (L2) of spring (cm)
w/g = standard

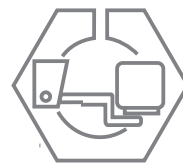
50 front length (L1) of spring (cm)

M H = bracket height: 385 mm
O = Bracket height: 285 mm
M = Bracket height: 245 mm
S = Bracket height: 190 mm
T = Bracket height: 160 mm
w/o = Bracket height: 335 mm

Z Z = shock absorber pin to be welded to the beam on installation
w/o = shock absorber pin at suspension bracket

KLR LR = air suspension with bellow ø 360
KLR = air suspension with bellow ø 300

N N = with spring type NLR (cranked spring)
T = with spring type TLR
(for low loader model = spring underslung)
w/o = with spring type LR



AIR- SUSPENSION

FB 70

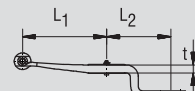
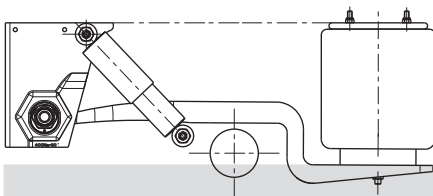
for gigant axles

RIDE HEIGHT: appr. 240 - 530 mm

BELLOW: Ø 300 mm

LIFT IN TOTAL: 180 mm

SPRING WIDTH: 70 mm



MODEL	FH	RS	PERM. AXLE	DESCRIPTION	L1	L2	t	EH	DRAWING NO.
	ride height	wheel base min.	LOAD (kg)		inst. height	LOWERING			
NKLRT	240 - 300	1150	9000	NKLRT FB70 240	500	380	56		
	280 - 340	1150		56					
NKLRM	315 - 375	1150	9000	NKLRM FB70 315	500	380	56		
	355 - 415	1150		56					
KLRM	390 - 450	1080	9000	KLRM FB70 390	500	310	56		
KLR	470 - 530	1080	9000	KLR FB70 470	500	310	56		

Remark:

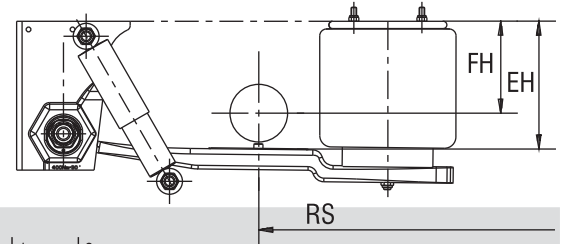
FB70 suspensions are only sold in combination with axles. Please look page 14 and page 15 !



AIR-SUSPENSION

TKLR

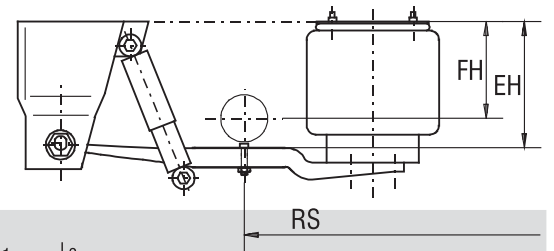
RIDE HEIGHT: appr. 215 - 360 mm
BELLOW: Ø 300 mm
LIFT IN TOTAL: 180 mm
SPRING WIDTH: 80 mm



MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1 L2 t			EH inst. height	LOWERING	DRAWING NO.
						L1	L2	t			
TKLRM	215 - 265	995	7000 ⁸	00687083	TKLRM 43/7,0.1	430	285	1x 45	280 +50/-0	ca. 60	71.442-4
TKLRO	230 - 280			00687082	TKLRO 43/7,0.1				320 ±25	ca. 85	71.437-4
TKLR	275 - 325			00687084	TKLR 43/7,0.1				370 +20/-30	ca. 91	71.443-4
TKLR	310 - 360			00687085	TKLR 43/7,0.1				396 +30/-20	ca. 80	71.444-4

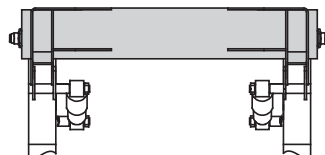
TKLR

RIDE HEIGHT: appr. 150 - 360 mm
BELLOW: Ø 300 mm
LIFT IN TOTAL: 200 mm
SPRING WIDTH: 100 mm



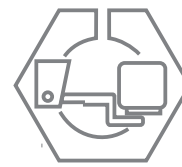
MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1 L2 t			EH inst. height	LOWERING	DRAWING NO.
						L1	L2	t			
TKLRH	290 - 350	1135	9000	00687504	TKLRH 50/9.1	500	350	1x 51	392 +40/-20	ca. 85	71.027-4
			10000 ⁹	00687508	TKLRH 50/12.1			1x 56			
TKLR	280 - 340	1205	9000	00687514	TKLRH 50.42/9.1	500	420	1x 51	392 ±30	ca. 100	71.037-4
			9000	00687524	TKLR 50/9.1	500	350	1x 51	342 ±30	ca. 85	71.028-4
			10000 ⁹	00687528	TKLR 50/12.1			1x 56			
TKLRO	200 - 260	1135	9000 ⁹	00687544	TKLRO 50/9.1	500	350	1x 51	292 +50/-0	ca. 65	71.029-4
			10000 ⁹	00687548	TKLRO 50/12.1		350	1x 56			
TKLRM	190 - 250	1205	9000	00687554	TKLRO 50.42/9.1	500	420	1x 51	ca. 60	71.039-4	
			9000	00630860	TKLRM 50/9.1		500	350	1x 51	274 +40/-0	ca. 60
			10000 ⁹	00630861	TKLRM 50/12.1	350			1x 56		
TKLRM	150 - 190	1165	9000	00630855	TKLRM 50.42/9.1	500	420	1x51	228 +40/-0	ca. 60	71.074-4
			9000	00630862	TNKLRSZ 50/9.1		500	380			
			10000 ⁹	00631032	TNKLRSZ 50/12.1	380			1x 56	233 +40/-0	ca. 60

All suspensions displayed on this page are also available with a **C-Profil**.



⁸) spring width 80 mm

⁹) limited by pressure of bellow



AIR-SUSPENSION

TLR

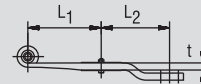
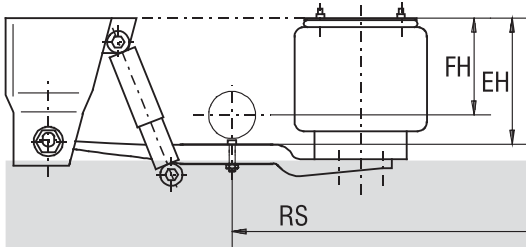
RIDE HEIGHT: appr. 150 - 350 mm

BELLOW: Ø 360 mm

LIFT IN TOTAL: 200 mm

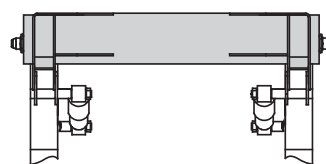
SPRING WIDTH: 100 mm

2

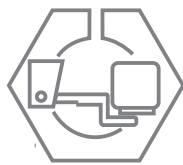


MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
TLRH	290 - 350	1165	9000	00688504	TLRH 50/9.1	500	350	1x 51	392 +40/-20	ca. 85	71.024-4
			12000	00688508	TLRH 50/12.1			1x 56		ca. 90	
	280 - 340	1235	9000	00688514	TLRH 50.42/9.1		420	1x 51	392 ±30	ca. 100	
			13000	00688511	TLRH 50.42/13			2x 43	ca. 105		
TLR	230 - 290	1165	9000	00688524	TLR 50/9.1	500	350	1x 51	342 ±30	ca. 90	71.025-4
			12000	00688528	TLR 50/12.1			1x 56		ca. 95	
	240 - 300	1235	9000	00688534	TLR 50.42/9.1		420	1x 51	341 +30/-20	ca. 90	
			13000	00688531	TLR 50.42/13			2x 48	ca. 90		
TLRO	200 - 260	1165	9000	00688544	TLRO 50/9.1	500	350	1x 51	292 +50/-0	ca. 65	71.026-4
			12000	00688548	TLRO 50/12.1			1x 56		ca. 60	
	1235	9000	00688554	TLRO 50.42/9.1	420		1x 51	292 +50/-0	ca. 60		
		13000	00688551	TLRO 50.42/13			2x 48	ca. 65			
TLRM	190 - 250	1165	9000	00630863	TLRM 50/9.1	500	350	1x 51	274 +40/-0	ca. 60	71.060-4
			12000	00630842	TLRM 50/12.1			1x 56		ca. 60	
	1235	9000	00630864	TLRM 50/12	420		2x 43	268 +40/-0	ca. 60		
		13000	00630865	TLRM 50.42/9.1			1x 51	274 +40/-0	ca. 60		
150 - 190	1195	9000	00630866	TNLRZS 50/9.1	500	380	1x 51	228 +40/-0	ca. 60	71.071-4	
		10000 ⁹⁾	00631031	TNLRZS 50/12.1			1x 56	233 +40/-0			

All suspensions displayed on this page are also available with a **C-Profil**.



9) limited by pressure of bellow



AIR-SUSPENSION

2

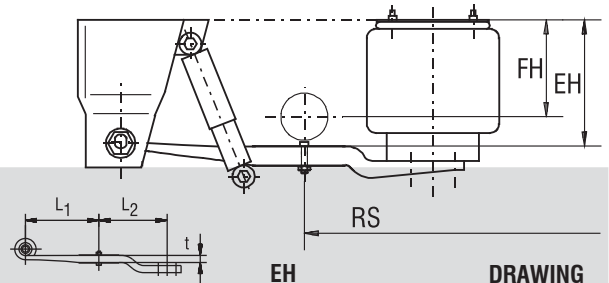
TLR

RIDE HEIGHT: appr. 230 - 350 mm

BELLOW: Ø 360 mm

LIFT IN TOTAL: 250 mm

SPRING WIDTH: 100 mm



MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
TLRH	290 - 350	1165	9000	00689504	TLRH 50/9.1	500	350	1x 51	392 +40/-20	ca. 85	71.024-4
			12000	00689508	TLRH 50/12.1			1x 56			
				00689509	TLRH 50/12			2x 43			
TLR	280 - 340	1235	9000	00689514	TLRH 50.42/9.1	500	420	1x 51	392 ±30	ca. 95	71.034-4
			13000	00689511	TLRH 50.42/13			2x 48	391 ±30		
			9000	00689524	TLR 50/9.1			1x 51	342 +50/-0		
12000	00689528	TLR 50/12.1	1x 56	342 +40/-10							
00689529	TLR 50/12	2x 43									
TLR	240 - 300	1235	9000	00689534	TLR 50.42/9.1	500	420	1x 51	342 +50/-0	ca. 65	71.033-4
			13000	00689531	TLR 50.42/13			2x 48	341 +40/-10	ca. 70	

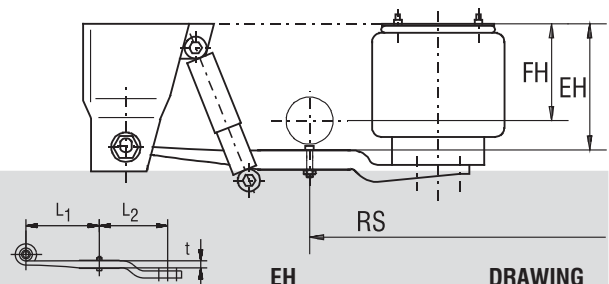
TLR

RIDE HEIGHT: appr. 210 - 360 mm

BELLOW: Ø 360 mm

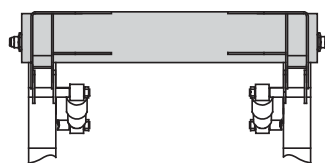
LIFT IN TOTAL: 300 mm

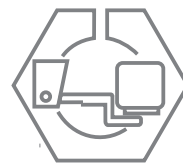
SPRING WIDTH: 100 mm



MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
TLRH	300 - 360	1355	10000	00680507	TLRH 72/10	720	320	2x 52	391 +40/-20	ca. 85	71.030-4
TLR	250 - 310			00680527	TLR 72/10				341 +40/-10	ca. 75	71.031-4
TLRM	210 - 270			00680567	TLRM 72/10				292 +50/-0	ca. 60	71.032-4

All suspensions displayed on this page are also available with a **C-Profil**.

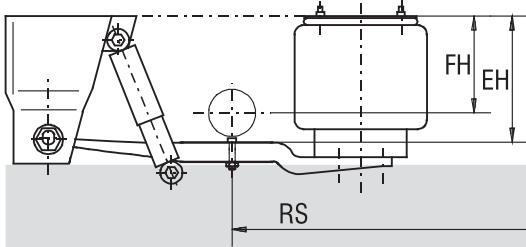




AIR-SUSPENSION

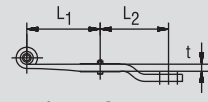
TLR

2

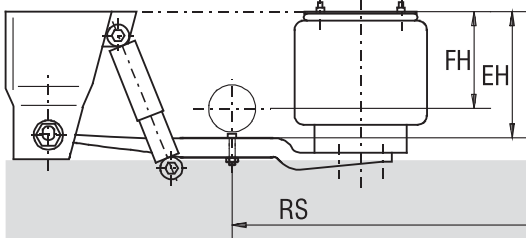


RIDE HEIGHT: appr. 260 - 350 mm
BELLOW: Ø 360 mm
LIFT IN TOTAL: 350 mm
SPRING WIDTH: 100 mm

MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
TLRH	290 - 350	1355	10000	00630868	TLRH 72/10	720	320	2x 52	391 +40/-10	ca. 70	71.085-4
TLR	260 - 310			00630869	TLR 72/10				345 +50/-10	ca. 60	71.086-4

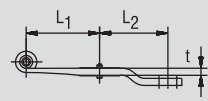


TLR

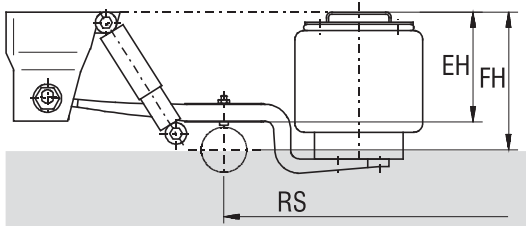


RIDE HEIGHT: appr. 310 - 370 mm
BELLOW: Ø 360 mm
LIFT IN TOTAL: 410 mm
SPRING WIDTH: 100 mm

MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
TLRH	310 - 370	1355	10000	00630867	TLRH 72/10	720	320	2x 52	391 +40/-10	ca. 65	71.084-4

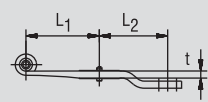


NKLR

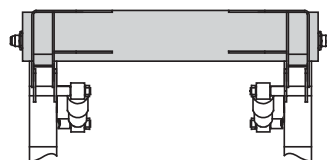


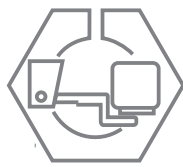
RIDE HEIGHT: appr. 300 - 450 mm
BELLOW: Ø 300 mm
LIFT IN TOTAL: 180 mm
SPRING WIDTH: 100 mm

MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH inst. height	LOWERING	DRAWING NO.
NKLRO	390 - 450	1135	9000	00631023	NKLRO 50.35/9.1	500	350	1x 48	352 ±30	ca. 100	71.205-4
NKLRM	350 - 400			00631022	NKLRM 50.35/9.1				312 +10/-40	ca. 120	71.206-4
NKLRT	300 - 350			00631021	NKLRT 50.35/9.1				227 +50/-0	ca. 70	71.204-4



All suspensions displayed on this page are also available with a **C-Profil**.





AIR-SUSPENSION

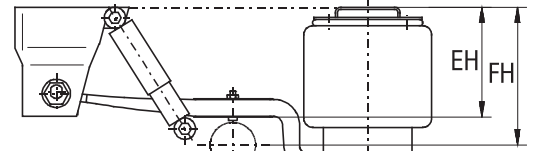
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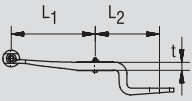
RIDE HEIGHT: appr. 300 - 450 mm

BELLOW: Ø 360 mm

LIFT IN TOTAL: 200 mm

SPRING WIDTH: 100 mm



MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION				EH inst. height	LOWERING	DRAWING NO.
						L1	L2	t			
NLRO	390 - 450	1195	12000	00683508	NLRO 50/12.1	500	380	1x 56	352 ± 30	ca. 100	71.010-4
				00683509	NLRO 50/12			2x 43			
NLRM	370 - 430	1195	12000	00683528	NLRM 50/12.1	500	380	1x 56	312 + 40/-10	ca. 75	71.011-4
				00683529	NLRM 50/12			2x 43			
NLRS	320 - 380	1195	12000	00683568	NLRS 50/12.1	500	380	1x 56	257 + 40/-10	ca. 80	71.012-4
				00683569	NLRS 50/12			2x 43			
NLRT	300 - 360	1195	12000	00683548	NLRT 50/12.1	500	380	1x 56	229 + 50/-0	ca. 60	71.013-4
				00683549	NLRT 50/12			2x 43		ca. 65	

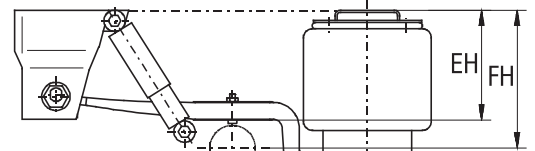
NLR

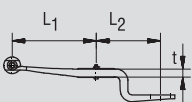
RIDE HEIGHT: appr. 320 - 450 mm

BELLOW: Ø 360 mm

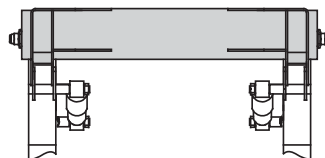
LIFT IN TOTAL: 250 mm

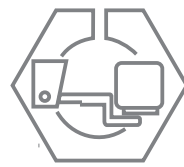
SPRING WIDTH: 100 mm



MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION				EH inst. height	LOWERING	DRAWING NO.
						L1	L2	t			
NLRO	390 - 450	1195	9000	00686504	NLRO 50/9.1	500	380	1x 48	352 ± 30	ca. 95	71.010-4
			12000	00686508	NLRO 50/12.1			1x 56			
				00686509	NLRO 50/12			2x 43			
NLRM	370 - 430	1195	9000	00686524	NLRM 50/9.1	500	380	1x 48	312 + 40/-10	ca. 70	71.011-4
			12000	00686528	NLRM 50/12.1			1x 56			
				00686529	NLRM 50/12			2x 43			
NLRS	320 - 380	1195	9000	00686564	NLRS 50/9.1	500	380	1x 48	265 + 50/-0	ca. 65	71.012-4
			12000	00686568	NLRS 50/12.1			1x 56			
				00686569	NLRS 50/12			2x 43			

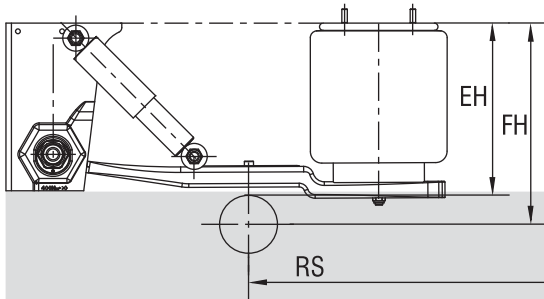
All suspensions displayed on this page are also available with a **C-Profil**.





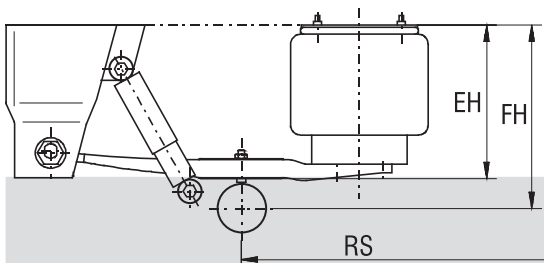
AIR-SUSPENSION

2



KLR
RIDE HEIGHT appr. 395 - 540 mm
BELLOW: Ø 300 mm
LIFT IN TOTAL: 180 mm
SPRING WIDTH: 80 mm

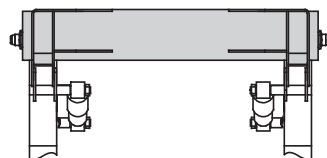
MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION				EH inst. height	DRAWING NO.	
						L1	L2	t			
KLRM	395 - 445	995	7000 ⁹	00681010	KLRM 43/7,0.1	430	285	1x45	329 +50/-0	ca. 62	71.452-4
KLRO	410 - 460			00681011	KLRO 43/7,0.1				369 ±25	ca. 88	71.453-4
KLR	450 - 500			00681012	KLR 43/7,0.1				419 +15/-35	ca. 95	71.454-4
KLR	490 - 540			00681013	KLR 43/7,0.1				444 +30/-20	ca. 80	71.455-4



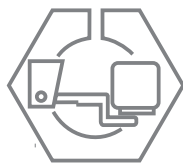
KLR
RIDE HEIGHT: appr. 440 - 550 mm
BELLOW: Ø 300 mm
LIFT IN TOTAL: 200 mm
SPRING WIDTH: 100 mm

MODEL	FH ride height	RS wheel base min.	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION				EH inst. height	LOWERING	DRAWING NO.
						L1	L2	t			
KLRO	440 - 500	1095	9000	00681544	KLRO 50/9.1	500	310	1x 48	360 +50/-0	ca. 60	71.008-4
			10000 ⁹	00681548	KLRO 50/12.1			1x 56			
KLR	450 - 510	1095	9000	00681524	KLR 50/9.1	500	310	1x 48	402 +40/-20	ca. 85	71.007-4
			10000 ⁹	00681528	KLR 50/12.1			1x 56			
KLRH	490 - 550	1095	9000	00681504	KLRH 50/9.1	500	310	1x 48	452 ±30	ca. 100	71.006-4
			10000 ⁹	00681508	KLRH 50/12.1			1x 56			

All suspensions displayed on this page are also available with a **C-Profil**.



⁹⁾ limited by pressure of bellow



AIR-SUSPENSION

2

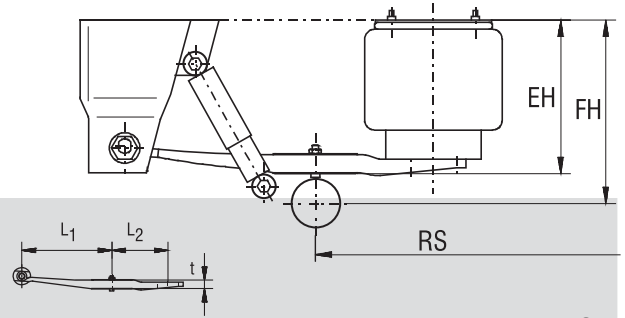
LR

RIDE HEIGHT: appr. 440 - 550 mm

BELLOW: Ø 360 mm

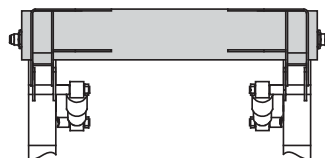
LIFT IN TOTAL: 200 mm

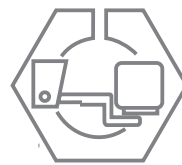
SPRING WIDTH: 100 mm



MODEL	FH	RS	PERM. AXLE LOAD (kg)	ORDER NO.	DESCRIPTION	L1	L2	t	EH	LOWERING	DRAWING NO.
	ride height	wheel base min.							inst. height		
LRH	490 - 550	1125	9000	00682504	LRH 50/9.1	500	310	1x 48	452 ±30	ca. 100	71.003-4
			12000	00682508	LRH 50/12.1			1x 56			
				00682509	LRH 50/12			2x 43			
LR	450 - 510	1125	9000	00682524	LR 50/9.1	500	310	1x 48	402 +40/-20	ca. 85	71.004-4
			12000	00682528	LR 50/12.1			1x 56			
				00682529	LR 50/12			2x 43			
LRO	440 - 500	1125	9000	00682544	LRO 50/9.1	500	310	1x 48	360 +50/-0	ca. 60	71.005-4
			12000	00682548	LRO 50/12.1			1x 56			
				00682549	LRO 50/12			2x 43			

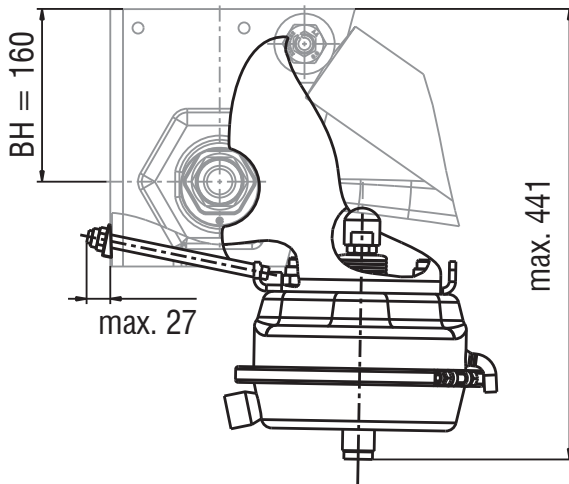
All suspensions displayed on this page are also available with a **C-Profil**.





AXLE LIFT Twinlift FB70

2



PLEASE OBSERVE:

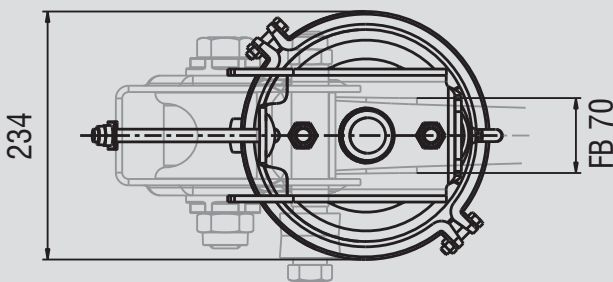
For suspensions with
 - one-leaf-spring with L1 = 500
 - spring width 70 mm
 - 180 mm total lift on the axle
 - spring above the axle
 (in case of different suspensions please contact gigant).

Max. weight to lift (axle, brakes, cylinders, rims, tyres etc.)
 = 600 kg at 8 bar.

For further information see drawing no. 71.370-4.

Observe installation instruction I 081001

FUNCTIONING: The Twin lift is only supported by the front bracket. The Twin lift is working directly through the torque arms onto the axle. In order to guarantee a safe operation you have to use a control system which conforms to the corresponding EC or national regulations (i.e. Auto-Drop).



FOR SUSPENSION TYPE	ALs ¹³ Axle lifted	RIDE HEIGHT	ORDER NO.
NKLRT		FH 240 - 300	00631198
NKLRT		FH 280 - 340	00631208
NKLRM		FH 315 - 375	00631209
NKLRM		FH 355 - 415	00631210
KLRM		FH 390 - 450	00631232
KLR		FH 470 - 530	00631248

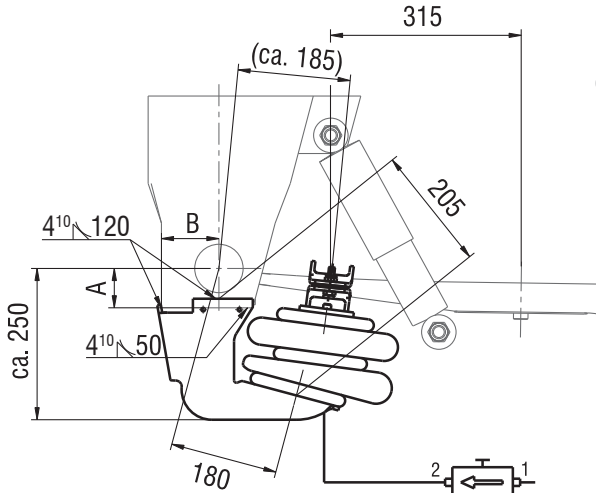
13) depend on axle section



AXLE LIFT

Twinlift FB 100

2



← direction of travel

ORDER-No. 00 63 1171

For further information see drawing no. 71.341-4.

PLEASE OBSERVE:

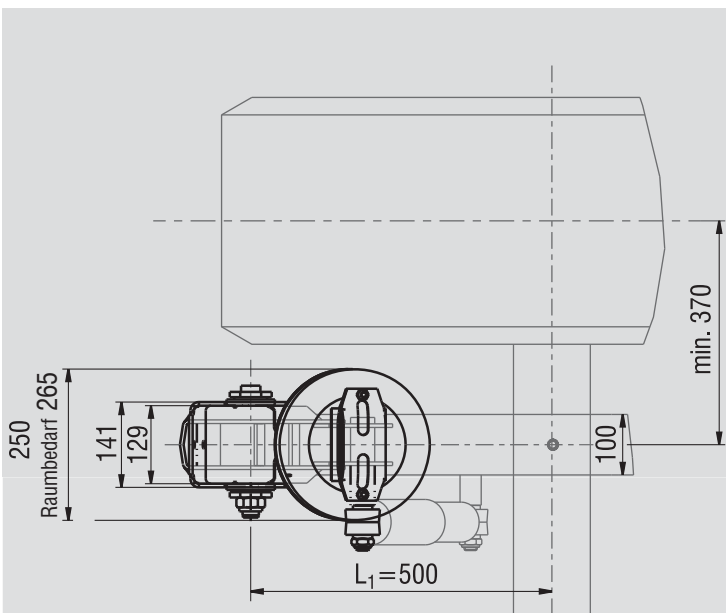
- For suspensions with
- one-leaf-spring with $L_1 = 500$
- 200 mm total lift on the axle
- spring above the axle
- (in case of different suspensions please contact gigant).

Max. weight to lift (axle, brakes, cylinders, rims, tyres etc.) = 1.000 kg to 6 bar.

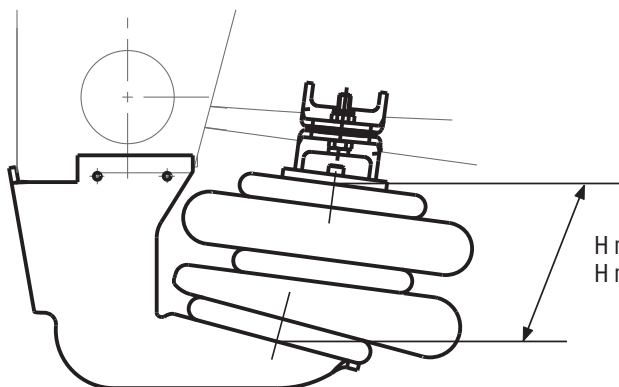
FUNCTIONING: The Twin lift is only supported by the front bracket. The Twin lift is working directly through the torque arms onto the axle. In order to guarantee a safe operation you have to use a control system which conforms to the corresponding EC or national regulations (i.e. Auto-Drop).

IN CASE OF RETEO FITTING PLEASE TAKE ATTENTION TO::

- Dimension A = 60 to 70 mm;
- Dimension B = 95 to 105 mm
- Bracket width = 125 to 129 mm.

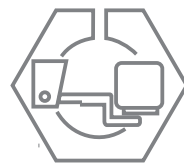


For spring with wrapper leaf:
assemble a rubber intermediate strip between spring and wrapper leaf.



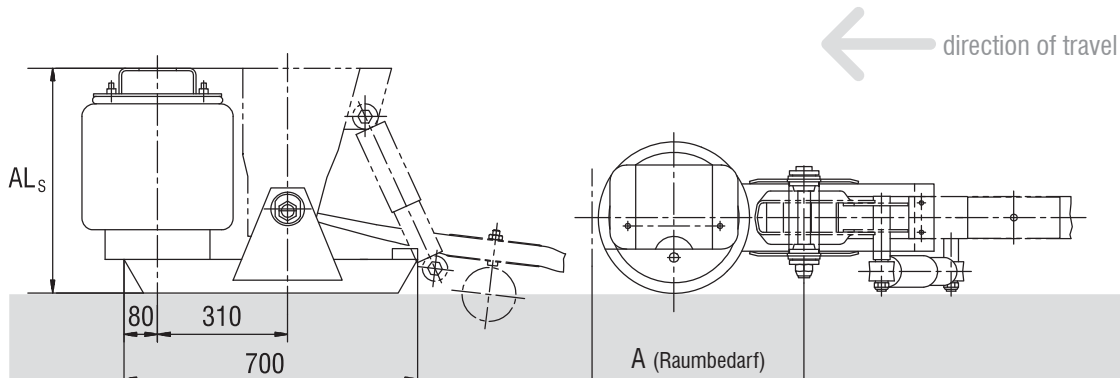
H min = 80 mm (without air)
H max = 185 mm (with air)

10) please avoid penetration notches and end craters



AXLE LIFT EAL, EAL-T

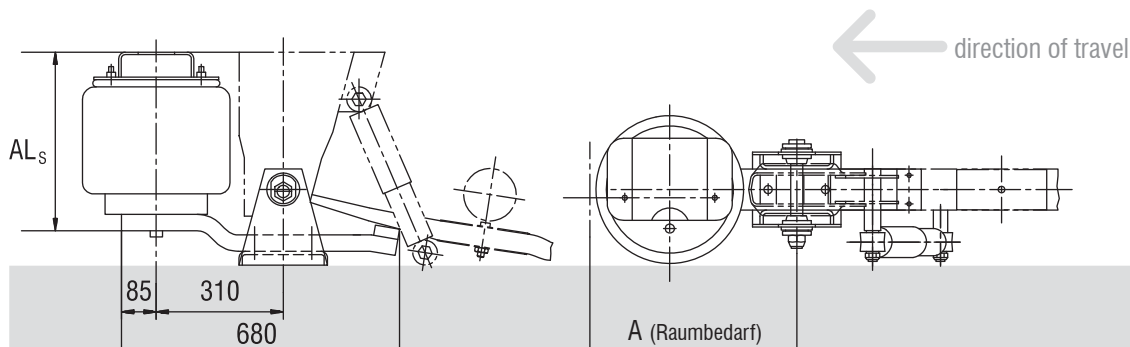
2



EAL
side axle lift

FOR TYPE OF SUSPENSION		ALs ¹³ Axle lifted	SIDE AXLE LIFT WITH BELLOW 3653 (Ø 360)			SIDE AXLE LIFT WITH BELLOW 3053 (Ø 300)		
			Type	Order No.	A	Type	Order No.	A
LRH 50	bzw. KLRH 50	ca. 655	EAL-67	00630810	505	EALK-67	00630811	475
LR 50	bzw. KLR 50	ca. 610	EAL-67	00630810	505	EALK-67	00630811	475
LRO 50	bzw. KLRO 50	ca. 550	EAL	00630814	505	EALK	00630815	475
NLRO 50	bzw. NKLRO 50	ca. 570	EAL	00630814	505	EALK	00630815	475
NLRM 50	bzw. NKLRM 50	ca. 520	EAL	00630815	505	EALK	00630815	475
NLRS 50	bzw. NKLRS 50	ca. 480	EAL	00630816	505	EALK	00630815	475
NLRT 50	bzw. NKLRT 50	ca. 485	EAL-H	00630816	505	EALK-H	00630817	475
TLRH 72 ¹¹		ca. 585	EAL-T67	00630812	505	-	-	-

The axle lift has to be mounted on the left or right side.



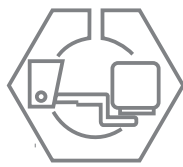
EAL-T
side axle lift
for low loader

FOR TYPE OF SUSPENSION		ALs ¹³ Axle lifted	SIDE AXLE LIFT WITH BELLOW 3653 (Ø 360)			SIDE AXLE LIFT WITH BELLOW 3053 (Ø 300)		
			Type	Order No.	A	Type	Order No.	A
TLRH 50	bzw. TKLRH 50	ca. 605	EAL-T67	00630812	505	EALK-T67	00630813	475
TLR 50	bzw. TKLR 50	ca. 555	EAL-T67	00630812	505	EALK-T67	00630813	475
TLRO 50	bzw. TKLRO 50	ca. 490	EAL-T	00630818	505	EALK-T	00630809	475
TLRM 50	bzw. TKLRM 50	ca. 450	EAL-T	00630818	505	EALK-T	00630809	475
TLR 72 ¹¹		ca. 535	EAL-T	00630818	505	-	-	-

Further information see drawing no.: 71.046-4

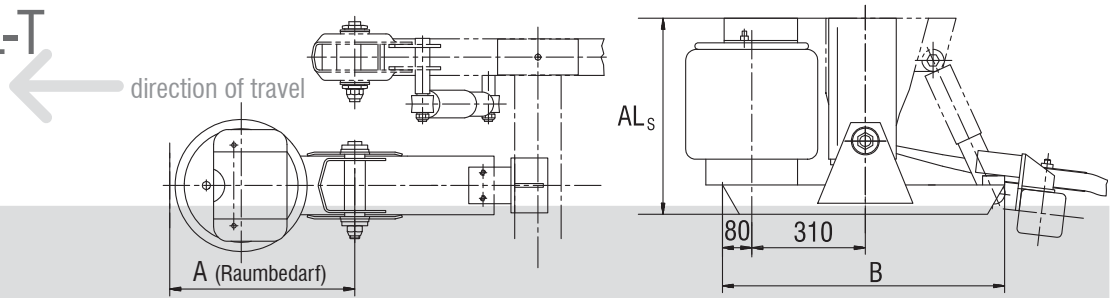
11) suspension with bellow 3661 / other suspensions with bellow 3653 resp. 3053

13) depend on axle section



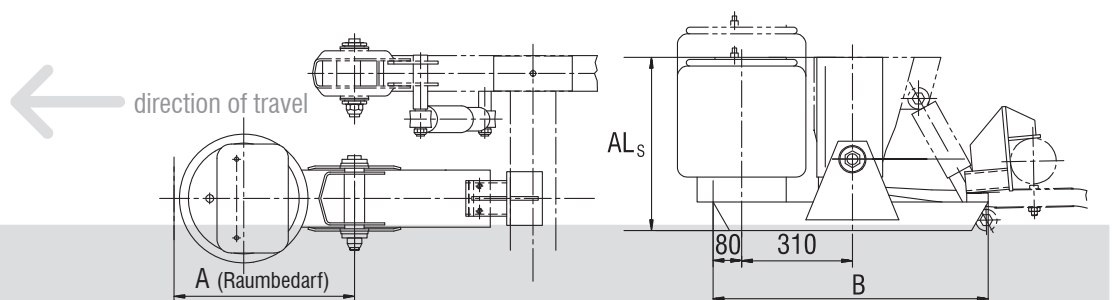
AXLE LIFT MAL, MAL-T

MAL Central Lift



FOR TYPE OF SUSPENSION		ALs ¹³ Axle lifted	CENTRAL AXLE LIFT WITH BELLOW 3653 (Ø 360)				CENTRAL AXLE LIFT WITH BELLOW 3053 (Ø 300)			
			Type	Order No.	A	B	Type	Order No.	A	B
LRH 50	bzw. KLRH 50	ca. 655	MAL-385/A/67	00630820	505	770	MALK-385/A/67	00630821	475	770
LR 50	bzw. KLR 50	ca. 610	MAL-335/A/67	00630822	505	770	MALK-335/A/67	00630823	475	770
LRO 50	bzw. KLRO 50	ca. 550	MAL-285/A	00630826	505	770	MALK-285/A	00630827	475	770
NLRO 50	bzw. NKLRO 50	ca. 570	MAL-285/A	00630826	505	770	MALK-285/A	00630827	475	770
NLRM 50	bzw. NKLRM 50	ca. 520	MAL-245/A	00630828	505	770	MALK-245/A	00630829	475	770
NLRS 50	bzw. NKLRS 50	ca. 480	MAL-190/A	00630830	505	770	MALK-190/A	00630831	475	770
NLRT 50	bzw. NKLRT 50	ca. 440	MAL-190/A	00630830	505	770	MALK-190/A	00630831	475	770
KLRH 43 ¹²		ca. 690	-	-	-	-	MALK2-385/A/67	00630916	475	770
KLR 43 ¹²		ca. 630	-	-	-	-	MALK2-335/A/67	00630917	475	770
KLRO 43 ¹²		ca. 570	-	-	-	-	MALK2-285/A	00630918	475	770
TKLRH 43 ¹²		ca. 570	-	-	-	-	MALK2-T285/D	00630910	475	770
TKLR 43 ¹²		ca. 530	-	-	-	-	MALK2-T245/D	00630911	475	770
TKLRO 43 ¹²		ca. 460	-	-	-	-	MALK2-T190/D	00630912	475	770
TLRH 72 ¹¹		ca. 540	MAL3-T285/C	00630913	505	985	-	-	-	-
TLR 72 ¹¹		ca. 500	MAL3-T245/C	00630914	505	985	-	-	-	-
TLRM 72 ¹¹		ca. 440	MAL3-T190/C	00630915	505	985	-	-	-	-

MAL-T Central Lift for low loader



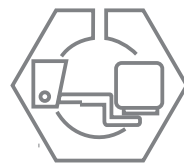
FOR TYPE OF SUSPENSION		ALs ¹³ Axle lifted	CENTRAL AXLE LIFT WITH BELLOW 3653 (Ø 360)				CENTRAL AXLE LIFT WITH BELLOW 3053 (Ø 300)			
			Type	Order No.	A	B	Type	Order No.	A	B
TLRH 50	bzw. TKLRH 50	ca. 530	MAL-T285/B	00630900	505	770	MALK-T285/B	00630901	475	770
TLR 50	bzw. TKLR 50	ca. 500	MAL-T245/B	00630902	505	770	MALK-T245/B	00630903	475	770
TLRO 50	bzw. TKLRO 50	ca. 455	MAL-T190/C	00630904	505	770	MALK-T190/C	00630905	475	770
TLRM 50	bzw. TKLRM 50	ca. 415	MAL-T160/C	00630906	505	770	MALK-T160/C	00630907	475	770
TNLRS 50	bzw. TKNLRS 50	ca. 410	MAL-T130/C	00630908	505	770	MALK-T130/C	00630909	475	770

Further information see drawing no.: 71.113-4 (for Type MAL and MALK) 71.114-4 (for Type MALK2 and MAL3).

1) suspension with bellow 3661 / other suspensions with bellow 3653 resp. 3053

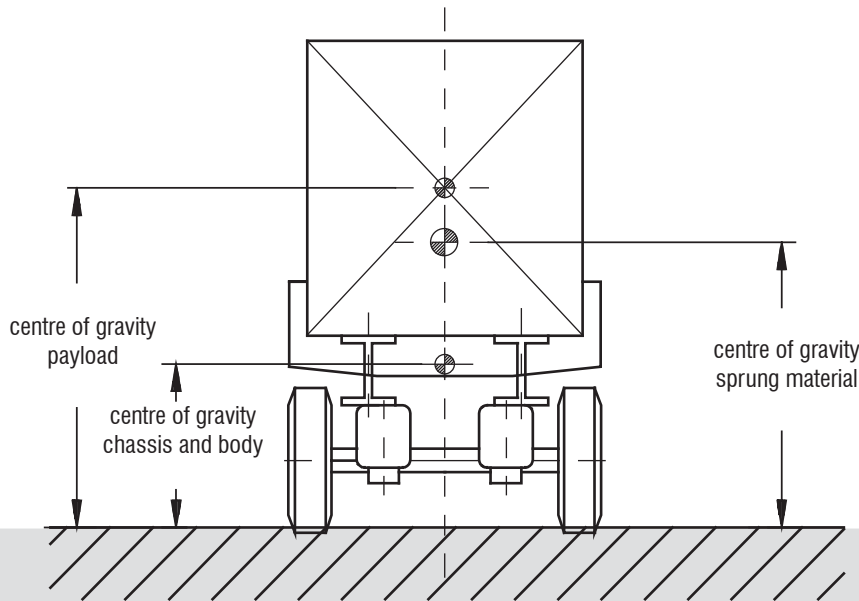
12) suspension with bellow 3053

13) depend on axle section



Permissible Centres of Gravity Height for Air Suspensions

2



Note: Brake calculation acc. EEC regulations is done by factor h_p . This centre of gravity is not the same as in a calculation for suspensions, as h_p means centre of gravity of the complete vehicle and is lower than centre of gravity height of the suspension.

All permissible centres of gravity height are based on:

- **0,4g transverse acceleration**
- **about 3° inclination of body** not accounting the tipped limit and tyre deflection
- **about 500mm static radius of tyre for LR/NLR**
- **about 400mm static radius of tyre for TLR**
centre of gravity height will change if tyre is altered
- **uniform distributed loads**
on the trailer deck for hanging loads and for tankers we recommend a suspension with thicker springs to cater for higher centre of gravity e.g.: calculated centre of gravity + 20%

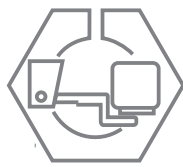
All permissible centres of gravity are based on max. capacity of the suspension. That means that the load on the king pin must be stabilized by the truck.

The centre of gravity height is the distance between centre of gravity of sprung material and road.

The sprung material is the total of max. axle load minus unsprung material.

Unsprung material means axles, rims, tyres, suspension and brake cylinders.

The percentage of unsprung material to the max. suspension capacity is about 10%.



Permissible Centres of Gravity Height for Air Suspensions

**LRH 50 • LR 50 • LRO 50 • NLRO 50
NLRM 50 • NLSRS 50 • NLRT 50**

**TLRH 50 • TLR 50 • TLRO 50
TLRM 50 • TN LRZS 50**

2

spring: LR 45.1/NLR 45.1 • thickness of spring leaf: 48 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	2750	3000	3300	3550	3700	3900
7000	2500	2650	2850	3050	3200	3350
8000	2250	2350	2550	2750	2900	3000
9000		2100	2300	2500	2600	2700
10000			2200	2400	2500	2600

spring: TLR 45.1 • thickness of spring leaf: 51 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	2700	3000	3250	3450	3650	3800
7000	2400	2550	2750	2950	3100	3250
8000	2100	2250	2400	2550	2700	2800
9000		2000	2150	2250	2400	2500
10000			2050	2200	2300	2450

spring: LR 60.1/NLR 60.1 • thickness of spring leaf: 56 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	2750	2850	3100	3300	3450	3550
9000	2500	2600	2800	2950	3100	3200
10000	2450	2550	2750	2900	3050	3150
11000	2250	2300	2500	2700	2800	2950
12000	2050	2150	2350	2500	2600	2700
13000		2050	2250	2400	2500	2600

spring: TLR 60.1 • thickness of spring leaf: 56 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	2400	2550	2750	2900	3050	3150
9000	2150	2250	2450	2600	2750	2850
10000	2100	2200	2400	2550	2700	2800
11000		2000	2150	2300	2450	2550
12000			2050	2200	2350	2450
13000				2050	2150	2250

spring: LR 60/NLR 60 • thickness of spring leaf: 43/43 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	3050	3250	3600	3800	4000	4000
9000	2750	2950	3250	3400	3600	3800
10000	2550	2800	3000	3200	3350	3500
11000	2300	2600	2850	3050	3250	3400
12000	2200	2450	2750	2950	3100	3200
13000	2100	2250	2400	2550	2700	2850

spring: TLR 60 • thickness of spring leaf: 43/43 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	2500	2750	3250	2400	3600	3750
9000	2200	2450	2950	2100	3250	3400
10000	2100	2350	2700	2900	3100	3300
11000	2000	2250	2500	2650	2800	3050
12000		2150	2400	2550	2700	2850
13000			2300	2450	2600	2750

**KLRH 50 • KLR 50 • KLRO 50 • NKLRO 50
NKLRM 50 • NKLRS 50 • NKLRT 50**

**TKLRH 50 • TKLR 50 • TKLRO 50
TKLRM 50 • TNKLRZS 50**

spring: LR 45.1/NLR 45.1 • thickness of spring leaf: 48 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	2900	3100	3350	3550	3700	3900
7000	2550	2700	2900	3050	3200	3350
8000	2300	2400	2550	2750	2900	3000
9000		2150	2300	2500	2600	2700
10000			2200	2400	2500	2600

spring: TLR 45.1 • thickness of spring leaf: 51 • spring width 100

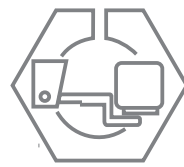
AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	2700	3000	3250	3450	3650	3850
7000	3400	2600	2800	2950	3150	3300
8000	2150	2250	2450	2600	2750	2850
9000		2000	2200	2300	2400	2550
10000			2100	2250	2350	2500

spring: LR 60.1/NLR 60.1 • thickness of spring leaf: 56 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	3550	3750	4000	>4000	>4000	>4000
7000	3100	3250	3500	3700	3850	>4000
8000	2750	2900	3100	3300	3450	3550
9000	2500	2600	2800	2950	3100	3200
10000	2450	2550	2750	2900	3050	3150

spring: TLR 60.1 • thickness of spring leaf: 56 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
6000	3250	3400	3700	2900	>4000	>4000
7000	2750	2950	3150	3350	3500	3700
8000	2450	2550	2750	2950	2100	3200
9000	2150	2300	2450	2600	2750	2850
10000	2100	2250	2400	2550	2700	2800



Permissible Centres of Gravity Height for Air Suspensions

2

KLRH 43 • KLR 43 • KLRO 43

spring: LR 43/32.5.1-80 • thickness of spring leaf: 45 • spring width 80

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
4500	2850	2950	3150	3300	3450	2600
5500	2400	2500	2700	2800	2950	3050
6500	2350	2450	2650	2750	2900	3000
7500	2050	2150	2350	2450	2550	2700

TLRH 50.42 • TLR 50.42 • TLRO 50.42

spring: TLR 50.42/45.1 • thickness of spring leaf: 51 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
7000	2350	2500	2700	2850	3000	3150
8000	2050	2150	2350	2450	2600	2750
9000		2000	2150	2250	2400	2500
10000			1900	2000	2150	2250

spring: TLR 50.42/65 • thickness of spring leaf: 48/48 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
10000	2500	2850	3050	3250	2400	3550
11000	2300	2600	2800	2950	3100	3250
12000	2250	2550	2750	2900	3050	3200
13000	2200	2400	2600	2750	2900	3050

TKLRH 43 • TKLR • 43TKLRO 43

spring: LR 43/32.5.1-80 • thickness of spring leaf: 45 • spring width 80

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
4500	2500	2650	2850	3000	3150	3300
5500	2050	2500	2350	2500	2600	2700
6500	2000	2150	2300	2450	2550	2650
7500			2000	2150	2250	2350

TKLRH 50.42 • TKLR 50.42 • TKLRO 50.42

spring: TLR 50.42/45.1 • thickness of spring leaf: 51 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
7000	2350	2500	2700	2850	3050	3200
8000	2050	2200	2350	2500	2650	2750
9000		2000	2150	2300	2400	2550
10000			1950	2050	2150	2250

TLRH 72 • TLR 72 • TLRM 72

spring: TLR 72.32 • thickness of spring leaf: 52/52 • spring width 100

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
7000	1650	1850	2150	2450	2750	3100
8000		1650	1950	2200	2500	2750
9000			1850	2100	2350	2600
10000				1950	2150	2400

NLR 45 FB70

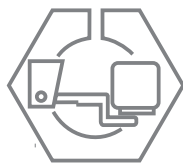
spring: NLR 45.1/LR 45.1 FB70 • thickness of spring leaf: 56 • spring width 70

AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	2200	2350	2550	2750	2950	3100
9000	1900	2050	2250	2450	2650	2750

NLR 45 FB70

spring: NLR 45.1/LR 45.1 FB70 • thickness of spring leaf: 62 • spring width 70

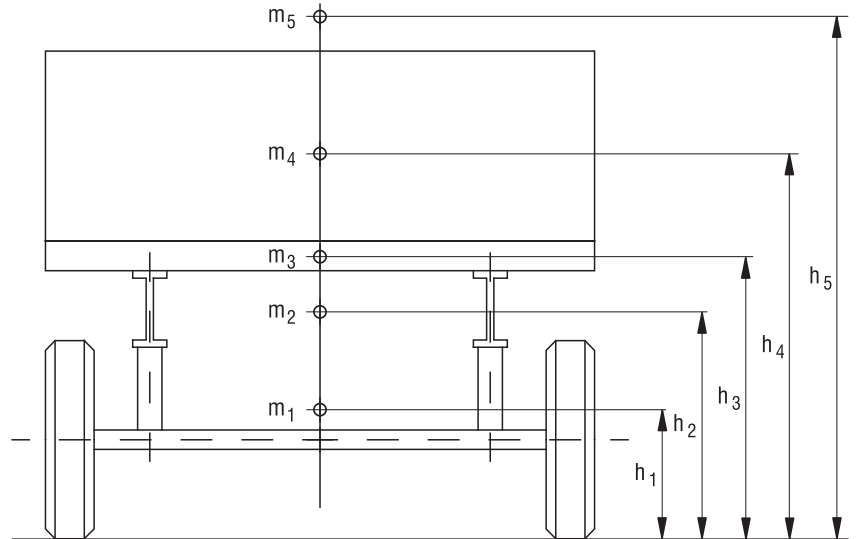
AXLE LOAD kg	SPRING TRACK / mm					
	900	980	1100	1200	1300	1400
8000	2400	2550	2700	3050	3250	3400
9000	2200	2300	2600	2750	2900	3050



Constructions- information

2

Calculation of the gravity height of vehicles



- m_1 = xle, suspension, tyres and wheels
- m_2 = frame system
- m_3 = bottom plate
- m_4 = ack, tarbaulin, bow etc.
- m_5 = load
- partial centre of gravity m_1 to m_i

h_1 = appr. 1,1 x radius of tyre

Gravity height:

$$\frac{\text{total } (m_i \times h_i)}{\text{total } m_i}$$

m_i	h_i	$m_i \times h_i$
m_1	h_1	$m_1 \times h_1$
m_2	h_2	$m_2 \times h_2$
m_3	h_3	$m_3 \times h_3$
m_4	h_4	$m_4 \times h_4$
m_5	h_5	$m_5 \times h_5$
total		total

The deflection of vehicles with parabolic springs resp. leaf springs has not been considered.

Mechanical suspension.



Stable spring sets made by gigant.



Mechanical suspension units give you the stability you need. **gigant** provides the selection you require.

Great payload in relation to empty weight requires soft suspension unladen and a stable suspension when loaded.

That means a flexible yet reliable spring set. Our mechanical suspension units permit the greatest possible range of applications and effective material utilisation.

The approximately dynamic brake power equaliser of the **gigant** LK UNIT permits for example the same brake systems in all LK suspension units. This results in less wear on all the axles of a multiple unit and thus optimum braking deceleration. Safety and economical solutions are not mutually exclusive.

Experience it with your own vehicle at gigant!





EXPLANATION of Suspension Symbols

3

Type LK

BE w/o = rubber bearing (to 16t)
BE = bronze bearing

VS w/o = no spring track displacement
VS = spring track displacement 160 mm¹⁴

U w/o = Fspring above axle
U = spring below axle
G = axle between spring and torque arm support (forging)

P w/o = with multi-leaf-spring
P = with parabolic spring
PT = with low loader parabolic spring
P2.1 = with parabolic spring, twin staged (wheel base 1310 and 1400 mm)

80- w/o = spring width 100 mm
80 = spring width 80 mm

16- total load on road (tonnes)
speed 105 km/h

1400- wheel base in mm

S- w/o = standard installation height
S = reduced
H = 50 resp. 100 mm higher¹⁴

LK 16 LK 15 = single suspensions without draw bar connection
LK 16 = tandem suspensions (wheel base ut to 1700 mm)
LK 17 = tandem suspensions (wheel base ut to 2050 mm)
LK 18 = tri axle suspensions

Type GK

W minimal maintenance

U w/o = spring above axle
U = spring below axle

P w/o = with multi-leaf-spring
P = with parabolic spring

1270- wheel base in mm
w/o = 990 mm
L = 1140 mm

80/ spring width in mm

80/ total load on road (kN)
speed 105 km/h
(e.g.: 80 kN = 8t)

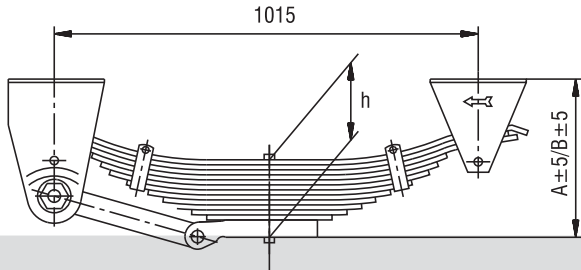
GK 1- GK 1 = single suspensions
GK = tandem suspensions

¹⁴) other dimensions on request



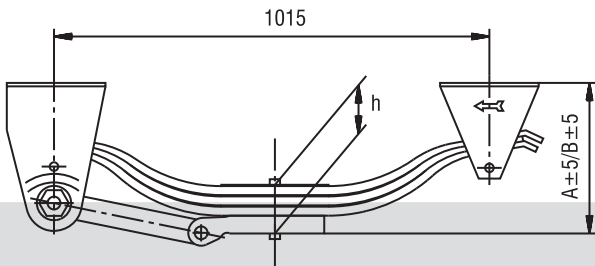
TYPE LK Single Suspensions

3



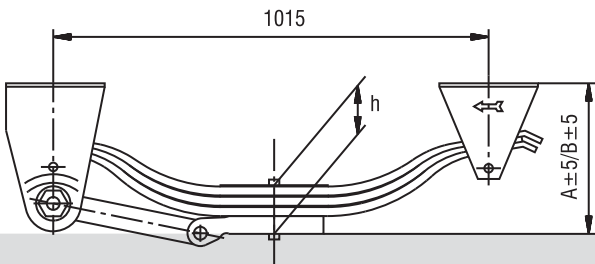
LK 15
with multi-leaf springs
RIDE HEIGHT (laden) app. 420 mm

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-12	00401543	368	334	185	12 t	40.001-3
LK 15-1400-14	00401553	377	346	209	14 t	40.001-3
LK 15-1400-16	00401563	387	358	209	16 t	40.001-3



LK 15
with parabolic springs
RIDE HEIGHT (laden) app. 400 mm

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-12 P	00411543	368	334	185	12 t	41.001-3
LK 15-1400-16 P	00411563	364	335	131	16 t	41.001-3



LK 15
with low loader parabolic springs
RIDE HEIGHT (laden) app. 330 mm

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-10 PT	00411532	272	240	100	10 t	41.002-3
LK 15-1400-12 PT	00411544	277	249	108	12 t	41.002-3
LK 15-1400-16 PT	00411564	313	287	134	16 t	41.002-3

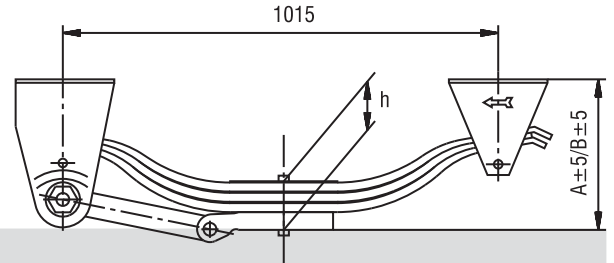


TYPE LK Single Suspensions

3

LK 15

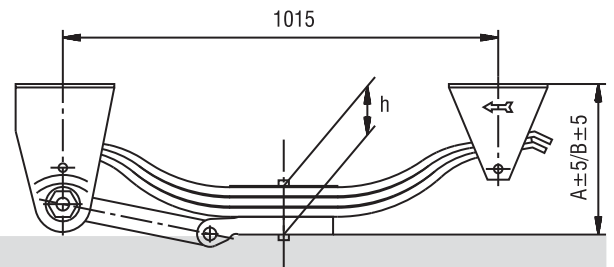
with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 390 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-10 P 2.1	00411573	364	311	119	10 t	41.007-3

LK 15 U

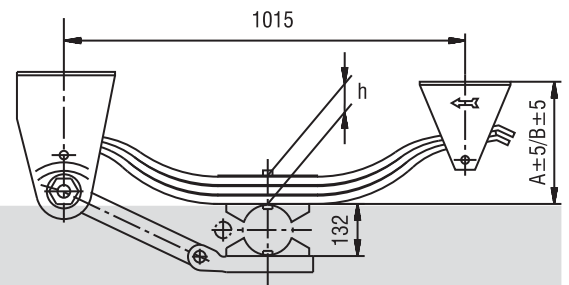
with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 120 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-10 P 2.1U	00420465	233	193	118	10 t	41.190-3

LK 15 PTG

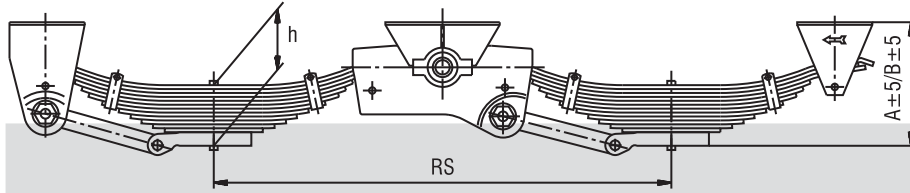
with low loader parabolic springs
RIDE HEIGHT (laden) app. 330 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
LK 15-1400-10 PTG	00420394	231	199	59	10 t	41.238-3
LK 15-1400-12 PTG	00420448	236	208	67	12 t	41.238-3



TYPE LK Tandem Suspensions



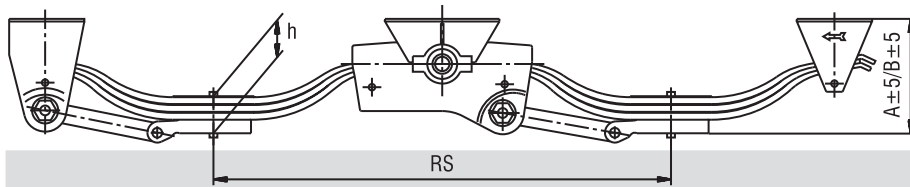
LK 16

with multi-leaf springs

RIDE HEIGHT (laden) **app. 420 mm**

3

TYPE OF SUSPENSION	ORDER NO.	A (unladen)	B (laden)	h	RS	AXLE LOAD	DRAWING-NO.
LK 16-1400-24	00401643	368	337	108	1400	12 t	40.004-3
LK 16-1400-48	00401653	377	348	108	1400	14 t	40.004-3
LK 16-1400-32	00401663	387	360	134	1400	16 t	40.004-3

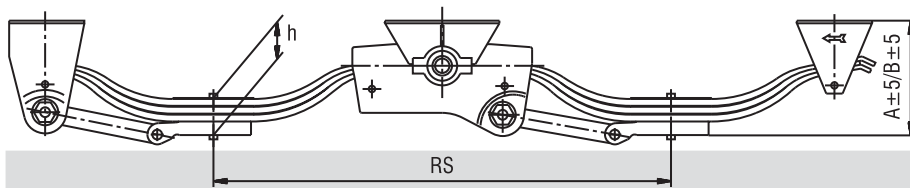


LK 16

with parabolic springs

RIDE HEIGHT (laden) **app. 400 mm**

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS (mm)	AXLE LOAD	DRAWING-NO.
LK 16-1400-24 P	00411643	352	318	119	1400	12 t	41.008-3
LK 16-1400-32 P	00411663	364	337	131	1400	16 t	41.008-3
LK 16-1600-20 P	00411634	364	316	134	1600	10 t	41.016-4
LK 16-1600-24 P	00421645	363	312	125	1600	12 t	41.016-4



LK 16

with low loader parabolic springs

RIDE HEIGHT (laden) **app. 330 mm**

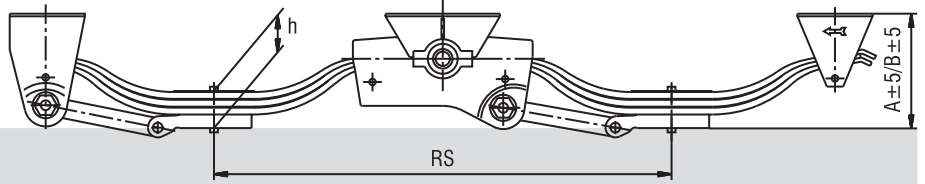
TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS (mm)	AXLE LOAD	DRAWING-NO.
LK 16-1310-20 PT	00411635	275	247	113	1310	10 t	41.093-3
LK 16-1310-24 PT	00411646	282	252	119	1310	12 t	41.093-3
LK 16-1400-20 PT	00411632	272	243	100	1400	10 t	41.010-3
LK 16-1400-24 PT	00411644	277	252	108	1400	12 t	41.010-3
LK 16-1400-32 PT	00411664	313	289	134	1400	16 t	41.010-3
LK 16-1600-24 PT	00421646	288	243	128	1600	12 t	41.268-3



TYPE LK Tandem Suspensions

LK 16

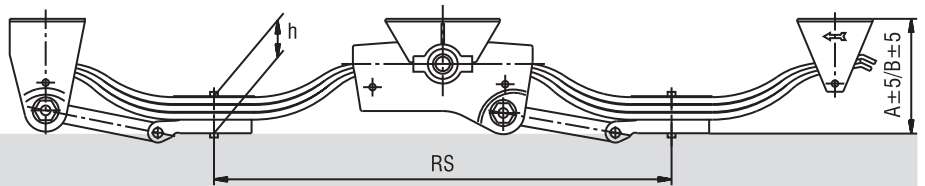
with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 390 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ¹⁶ (mm)	AXLE LOAD	DRAWING-NO.
LK 16-1310-20 P 2.1	00411671	348	313	113	1310	10 t	41.114-3
LK 16-1400-20 P 2.1	00411673	351	314	118	1400	10 t	41.022-3
LK 16-1500-20 P 2.1	00416673	351	314	118	1500	10 t	41.217-3

LK 16 U

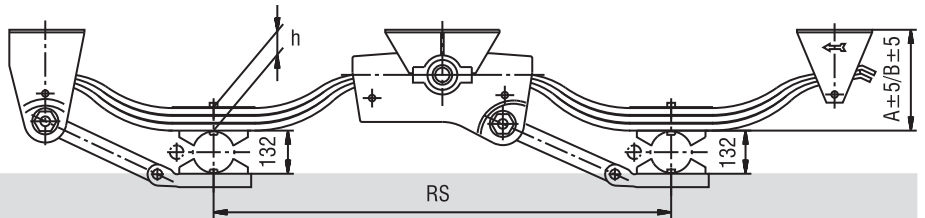
with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 170 mm



AGGREGATTYP	BESTELL NR.	A (beladen) (mm)	B (unbeladen) (mm)	h (mm)	RS ¹⁶ (mm)	ACHSLAST	ZEICHNUNG-NR.
LK 16H-1400-20 P 2.1U	00420704	283	246	119	1400	10 t	41.125-4

LK 16 PTG

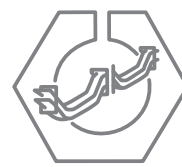
with low loader parabolic springs¹⁸
RIDE HEIGHT (laden) app. 290 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ¹⁶ (mm)	AXLE LOAD	DRAWING-NO.
LK 16-1310-20 PTG	00420093	234	206	72	1310	10 t	41.270-3
LK 16-1310-24 PTG	00420600	241	211	78	1310	12 t	41.270-3
LK 16-1400-20 PTG	00420392	231	202	59	1400	10 t	41.237-3
LK 16-1400-24 PTG	00420393	236	211	67	1400	12 t	41.237-3

¹⁶⁾ higher axle load on request

¹⁸⁾ only for low loader suspensions with s-cam in height of the middle of axle and 300mm brake size

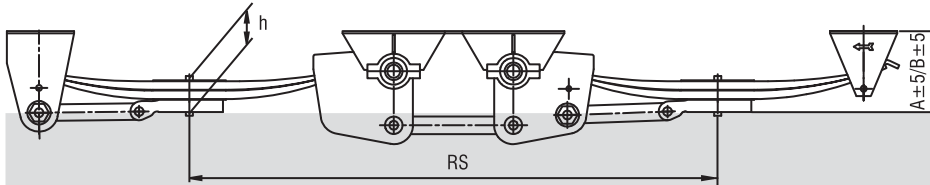


TYPE LK Tandem Suspensions

LK2-17

with parabolic springs

RIDE HEIGHT (laden) app. 420 mm



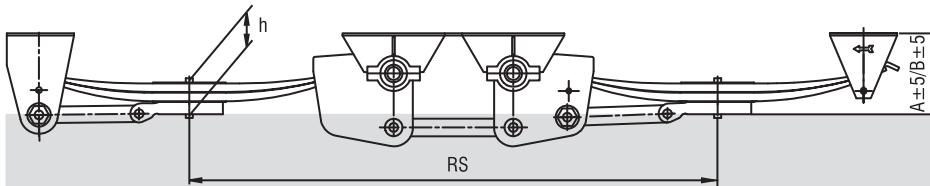
TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 17-1810-24 P	00420160	352	318	119	1810	12 t	41.085-3
LK 17-1810-32 P	00420763	364	337	131	1810	16 t	41.085-3

3

LK2-17

with low loader parabolic springs

RIDE HEIGHT (laden) app. 340 mm

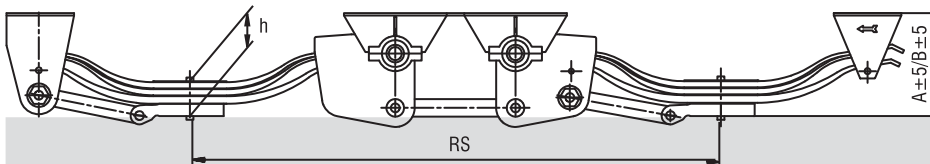


TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 17-1810-20 PT	00420173	272	243	100	1810	10 t	41.096-3
LK 17-1810-24 PT	00420183	277	252	108	1810	12 t	41.096-3
LK 17-1810-32 PT	00420470	313	289	134	1810	16 t	41.096-3

LK2-17

with parabolic springs, twin-staged

RIDE HEIGHT (laden) app. 390 mm



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 17-1810-20 P 2.1	00420301	351	314	118	1810	10 t	41.160-3

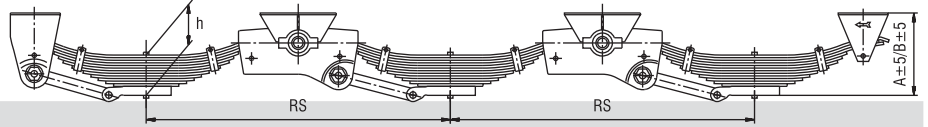


TYPE LK Tri-axle Suspensions

LK 18

with multi-leaf springs

RIDE HEIGHT (laden) **app. 420 mm**

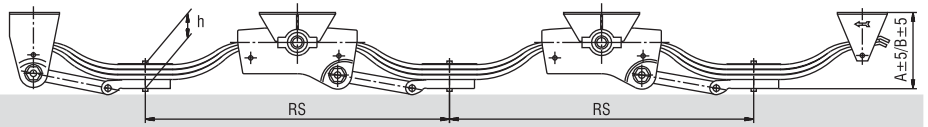


TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18-1400-36	00401843	368	338	185	1400	12 t	41.008-3
LK 18-1400-42	00401853	377	350	209	1400	14 t	41.008-3
LK 18-1400-48	00401863	387	361	209	1400	16 t	41.008-3

LK 18

with parabolic springs

RIDE HEIGHT (laden) **app. 390 mm**

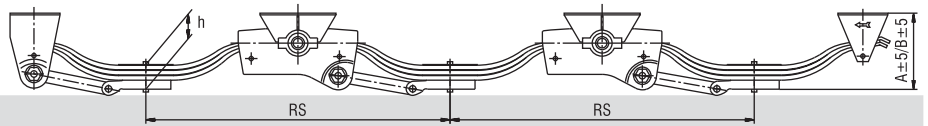


TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18-1400-36 P	00411843	352	319	119	1400	12 t	41.014-3

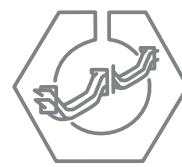
LK 18

with low loader parabolic springs

RIDE HEIGHT (laden) **app. 330 mm**

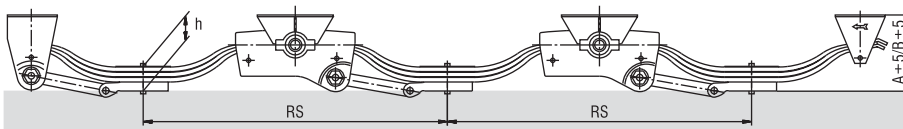


TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18-1310-30 PT	00411835	275	248	113	1310	10 t	41.083-3
LK 18-1310-36 PT	00411846	282	254	119	1310	12 t	41.083-3
LK 18-1400-30 PT	00411832	272	244	100	1400	10 t	41.027-3
LK 18-1400-36 PT	00411844	277	253	108	1400	12 t	41.027-3
LK 18-1400-48 PT	00411864	313	290	134	1400	16 t	41.027-3



TYPE LK Tri-axle Suspensions

LK 18

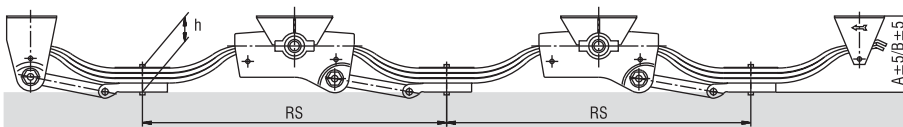


with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 390 mm

3

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18-1310-30 P 2.1	00411871	348	314	113	1310	10 t	41.116-3
LK 18-1400-30 P 2.1	00411873	351	316	118	1400	10 t	41.066-3

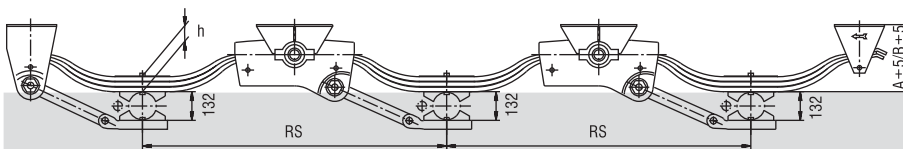
LK 18 U



with parabolic springs, twin-staged
RIDE HEIGHT (laden) app. 180 mm

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18H-1400-30 P 2.1U	00420700	283	248	118	1400	10 t	41.123-4

LK 18 PTG



with low loader parabolic springs
RIDE HEIGHT (laden) app. 290 mm

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
LK 18-1310-30 PTG	00420264	234	207	72	1310	10 t	41.149-3
LK 18-1400-30 PTG	00420544	231	203	59	1400	10 t	41.010-4
LK 18-1400-36 PTG	00420548	236	212	67	1400	12 t	41.010-4
LK 18-1400-48 PTG	00420549	272	249	93	1400	16 t	41.010-4

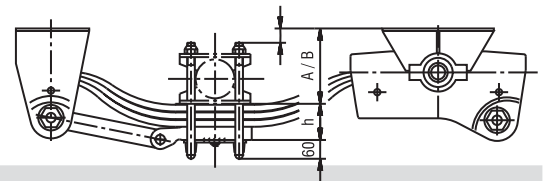


TYPE LK Variations

LK-VARIATIONS reduced and higher

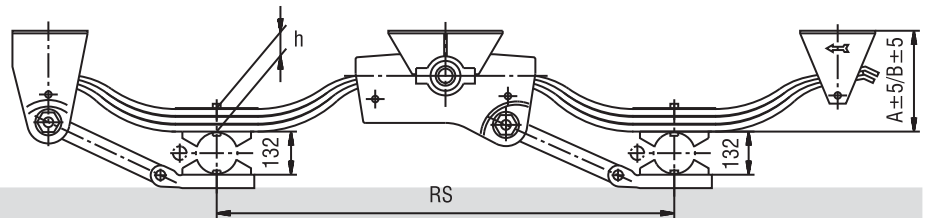
3

VERSION	DESCRIPTION	
reduced ¹⁷	Brackets without top plate: front susp. brackets 73 mm reduced sliding shoe 73 mm reduced main suspension bracket 8 mm reduced	Reduced installation height (dimension A/B): LK 15: 73 mm LK 16: 40 mm
higher ¹⁷	Brackets and installation heights (dimension A/B): 50 eg. 100 mm higher	



LK-VARIATIONS U

VERSION	DESCRIPTION			
Spring below the axle „U“-Version	The installation height A and B are acc. to the standard version less dimension h (see tables on the previous pages)	spring support onto the torque support	torque arm support mounted below the spring with bolt for spring	Take care of sufficient free space - axial movement - Stat. and dyn. deflection



LK-VARIATIONS PTG

VERSION	DESCRIPTION	
PTG	for low loader axles provided with 300 mm brake and cam shaft in line with axle center only	The installation height A and B are acc. to the standard version less 41 mm (see tables on the previous pages)

BEARING APPLICATION of Equalizers

VERSION	DESCRIPTION
rubber bushes	Standard: Axle loads from 4t to 12t for normal running on roads under european conditions. Special: Axle loads from 12t to 16t suitable for arduous conditions out of europe.
bronze bearing “BE”	For axle loads from 12t to 20t suitable for arduous conditions out of europe.

17) special variations on request



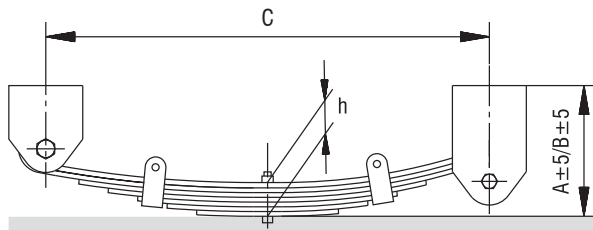
TYPE GK

Single & Tandem Suspensions

GK 1-W

with multi-leaf springs⁸

RIDE HEIGHT (laden) **app. 290 mm**



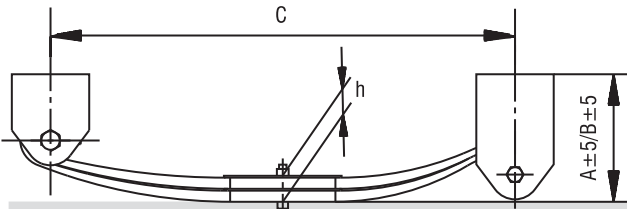
TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	C (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
GK1-40/80 W	00931524	224	201	750	57	4 t	80.032-4
GK1-50/80 W	00931527	227	208	750	60	5 t	80.032-4
GK1-60/80 W	00931530	238	219	750	71	6 t	80.032-4
GK1-60/80 L W	00931532	249	218	900	82	6 t	80.034-4
GK1-80/80/1270 W	00931544	276	241	1020	109	8 t	80.035-4

3

GK 1-PW

with parabolic springs⁸

RIDE HEIGHT (laden) **app. 260 mm**

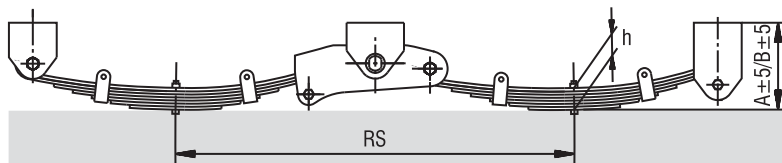


TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	C (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
GK1-40/80 PW	00941524	202	180	750	38	4 t	80.007-4
GK1-50/80 PW	00941527	206	185	750	42	5 t	80.007-4
GK1-60/80 PW	00941530	210	190	750	46	6 t	80.007-4
GK1-60/80 L PW	00941532	214	187	900	50	6 t	80.036-4
GK1-60/80/1270 PW	00941534	216	183	1020	52	6 t	80.019-4
GK1-80/80/1270 PW	00941544	222	192	1020	58	8 t	80.019-4

GK-W

with multi-leaf springs⁸

RIDE HEIGHT (laden) **app. 300 mm**



TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	RS (mm)	h (mm)	AXLE LOAD	DRAWING-NO.
GK 80/80 W	00931624	230	180	990	57	4 t	80.024-4
GK 100/80 W	00931627	233	214	990	60	5 t	80.024-4
GK 120/80 W	00931630	244	225	990	71	6 t	80.024-4
GK 120/80 LW	00931632	244	225	1040	71	6 t	80.022-4
GK 120/80/1270 W	00931634	255	224	1260	82	6 t	80.023-4
GK 160/80/1270 W	00931644	282	247	1260	109	8 t	80.023-4
GK 160/80/1320 W	00931646	282	247	1310	109	8 t	80.-026-4

⁸) spring width 80 mm

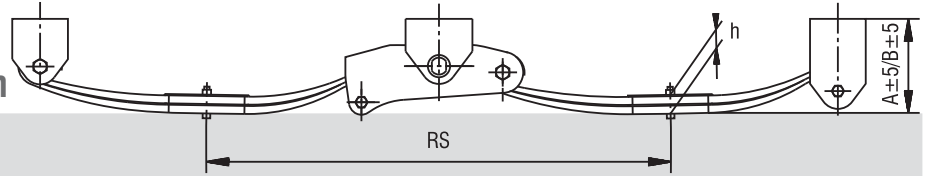


TYPE GK Tandem Suspensions & Variations

GK-PW

with parabolic springs⁶

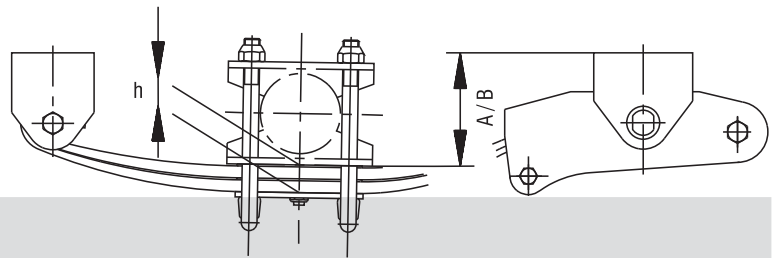
RIDE HEIGHT (laden) app. 270 mm



3

TYPE OF SUSPENSION	ORDER NO.	A (unladen) (mm)	B (laden) (mm)	h (mm)	RS ⁷ (mm)	AXLE LOAD	DRAWING-NO.
GK 80/80 PW	00941624	208	186	38	990	4 t	80.009-4
GK 80/80-1040 PW	00941626	208	186	38	1040	4 t	80.029-4
GK 100/80 PW	00941627	212	191	42	990	5 t	80.009-4
GK 100/80-1040 PW	00941628	212	191	42	1040	5 t	80.029-4
GK 120/80 PW	00941630	216	196	46	990	6 t	80.009-4
GK 120/80-1040 PW	00941631	216	196	46	1040	6 t	80.029-4
GK 120/80 L PW	00941632	220	193	50	1140	6 t	80.030-4
GK 120/80/1190 PW	00941633	220	193	50	1190	6 t	80.037-4
GK 120/80/1270 PW	00941634	222	189	52	1260	6 t	80.021-4
GK 120/80/1320 PW	00941636	222	189	52	1310	6 t	80.031-4
GK 160/80/1270 PW	00941644	228	198	58	1260	8 t	80.021-4
GK 160/80/1320 PW	00941646	228	198	58	1310	8 t	80.031-4

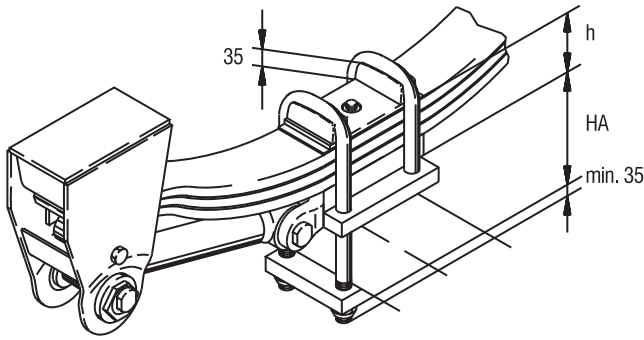
GK-VARIATION



VERSION	DESCRIPTION	
Spring below the axle "U"-Version	The installation height A and B are acc. to the standard version less dimension h (see tables on the pages 51)	Take care of sufficient free space - axial movement - Stat. and dyn. deflection special variations on request

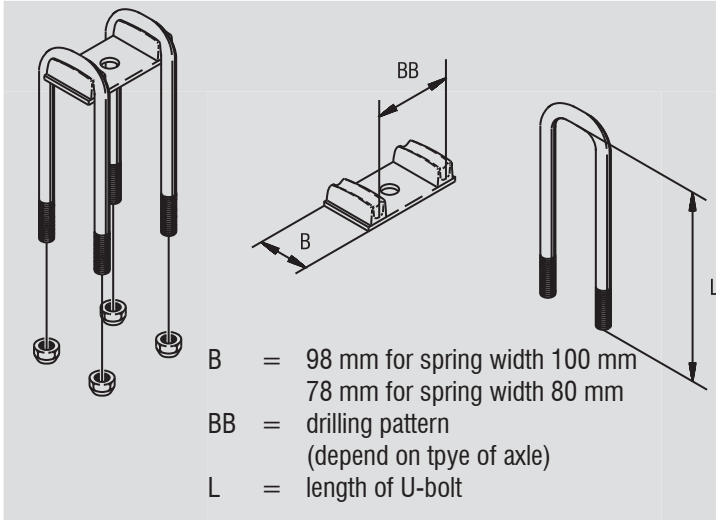


Axle and Spring ATTACHMENT



SPRING attachment

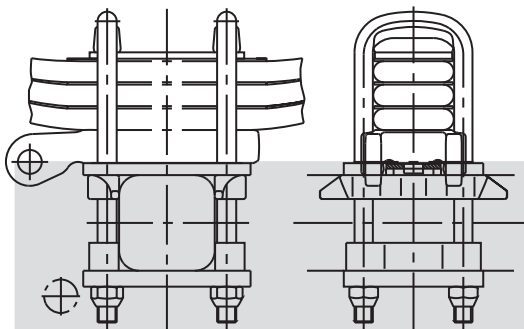
3



Example for calculation of U-bolt length „L“.

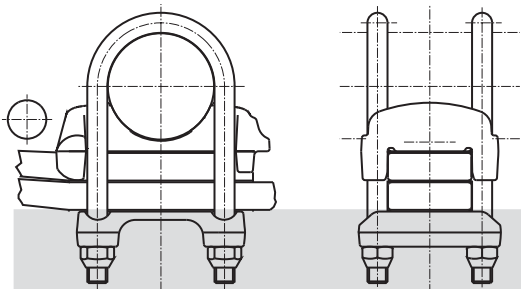
- _____ mm spring support plate
- h: _____ mm Height of spring incl. torque arm support (41 mm)
- HA: _____ mm Height of axle incl axle plate
- _____ mm Tread length for fastening of lock nut

- L: _____ mm Add up the sum, U-bolt length are in 20 mm increments e. g. 300, 320, 340 etc.



CLAMP attachment

The clamp attachment has got all requirements of a modern and durable axle attachment. The advantages of this attachment are that you do not have to weld anything to the axle beam (when fitted with centre piece). You can choose between attachments for mechanical and air suspensions (European patent). The installation is very simple and you will have an optimal connection between axle beam and the spring.



AXLE ATTACHMENT with U-bolts

The attachment with U-bolts (for round beam) is a proved connection between axle and suspension. This attachment is very light because of the reduced number of parts and at the same time, the numbers of joint interfaces is also reduced. The possibility of working loose is decreased.

Compact power.



Air tanks.



Concentrated pressure needs a safe container. We have it. Clad in steel and black powder coating , it takes your compressed air anywhere.

Our partner TG Automotive Ltd. is the largest manufacturer of compressed air tanks for braking systems in the United Kingdom. Every year more than 200,000 coated tanks are produced for the leading European vehicle manufacturers. And this with good reason: These compressed air tanks stand out especially for their longevity and low weight. They are powder-coated inside and outside, and can be re-coated without any problems as required. Combined with an effective corrosion protection they offer not only topmost safety and maximum service life, but on account of their powder coating they correspond to the highest quality requirements of leading European vehicle manufacturers.

With the optimised technology of gigant!

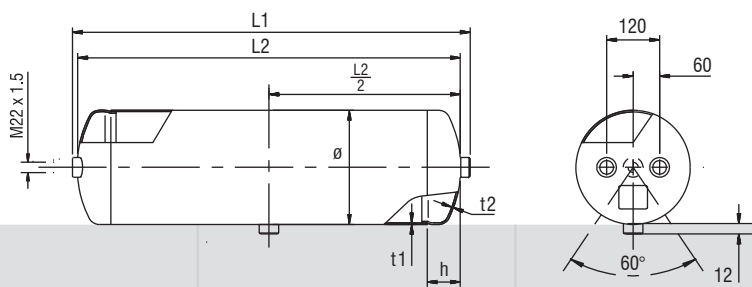




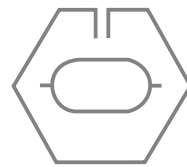
AIR PRESSURE VESSELS

AIR PRESSURE VESSELS

steel, powder coated



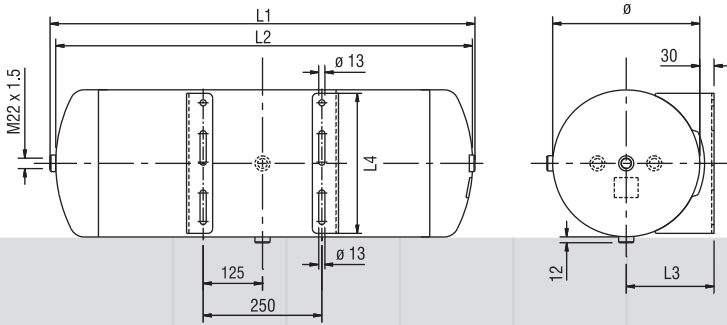
CAPACITY (Ltr.) ±4%	ø (mm)	L1 (mm)	L2 (mm)	h (mm)	t1 (mm)	t2 (mm)	DRAWING NO.	PART-NO.	WEIGHT (kg)	NUMBER/ PALLET*
5	206	215	198	59	2,15	2,5	SPA 1000	10500969	4	50
10	206	370	353	59	2,15	2,5	SPA 1001	10500970	5	42
15	206	530	513	59	2,15	2,5	SPA 1002	10500303	7	42
20	206	690	673	59	2,15	2,5	SPA 1003	10500971	8	42
20	246	500	483	72	2,15	2,5	SPA 1004	10500972	8	70
30	246	720	703	72	2,15	2,5	SPA 1005	10500973	10	35
37	246	852	835	72	2,15	2,5	SPA 1006	10500988	12	35
40	246	940	923	72	2,15	2,5	SPA 1007	10500974	13	35
40	276	760	743	72	2,15	2,5	SPA 1008	10500975	13	28
40	310	620	603	99	2,15	2,5	SPA 1009	10500976	15	24
60	246	1352	1335	72	2,15	2,5	SPA 1010	10500989	19	25
60	276	1110	1093	72	2,15	2,5	SPA 1011	10500977	18	24
60	310	895	878	99	2,15	2,5	SPA 1012	10500978	18	24
60	396	580	563	97	2,75	3,0	SPA 1013	10500980	19	24
80	310	1162	1145	99	2,15	2,5	SPA 1017	10500985	21	24
80	396	750	733	97	2,75	3,0	SPA 1014	10500981	23	12
100	396	915	898	97	2,75	3,0	SPA 1015	10500983	28	12
120	396	1067	1050	97	2,75	3,0	SPA 1016	10500984	33	9



AIR PRESSURE- VESSELS

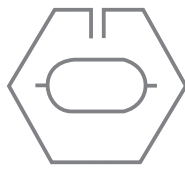
AIR PRESSURE VESSELS

with brackets, steel, powder coated



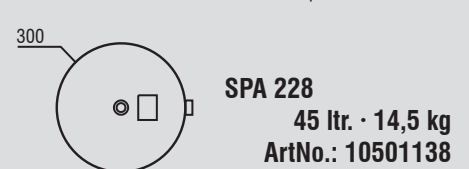
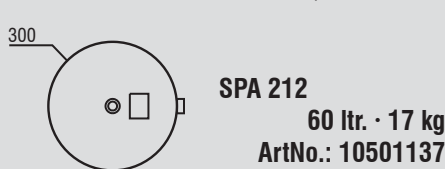
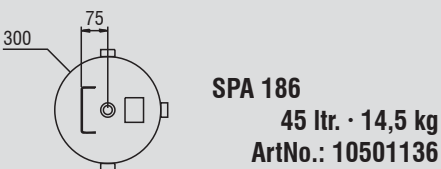
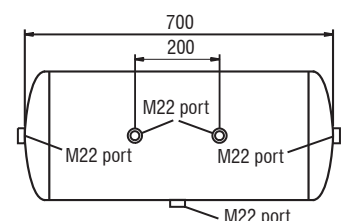
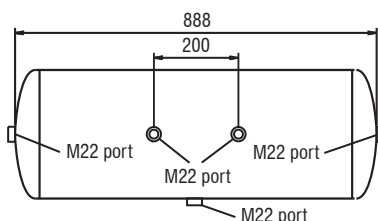
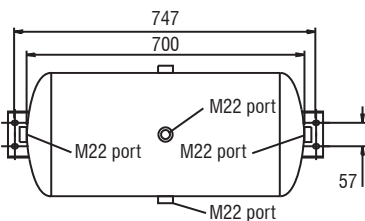
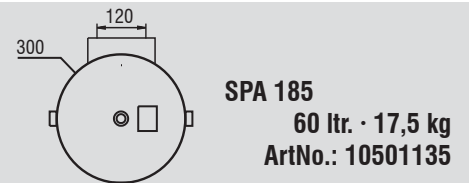
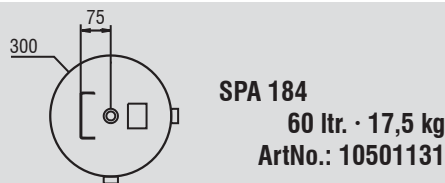
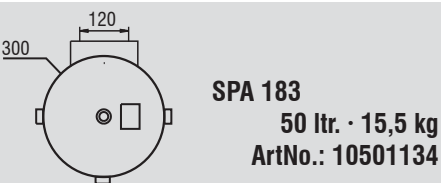
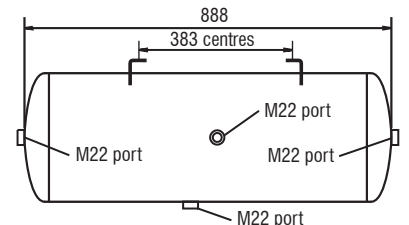
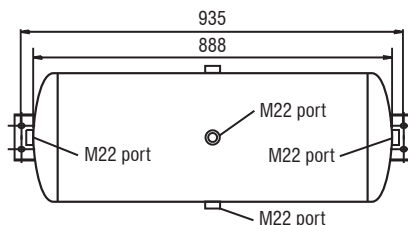
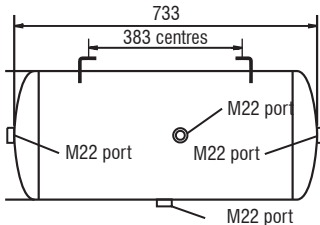
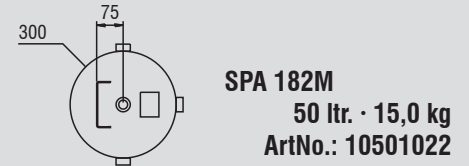
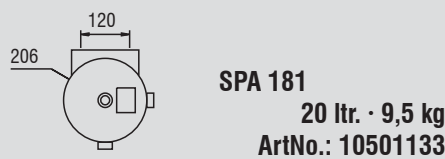
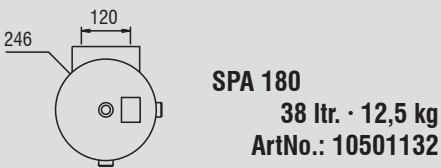
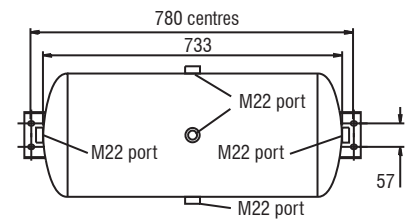
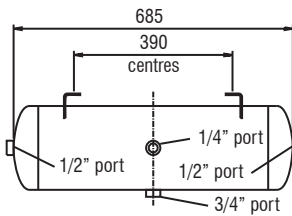
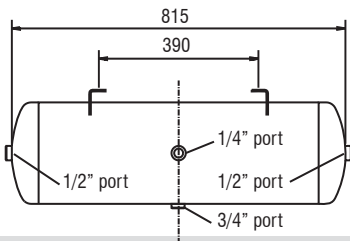
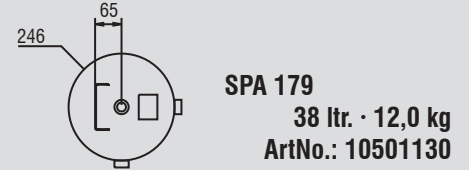
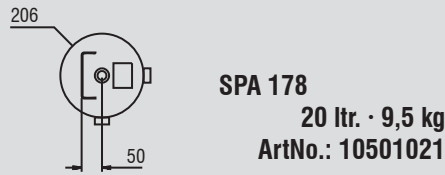
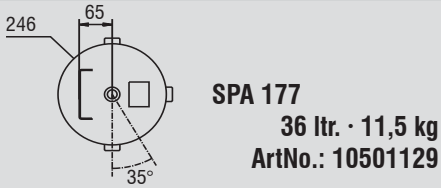
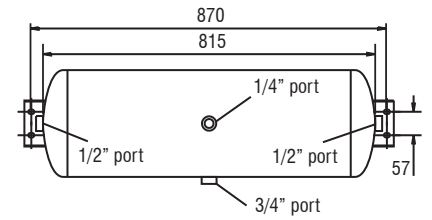
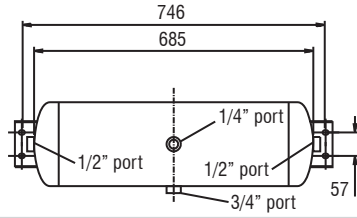
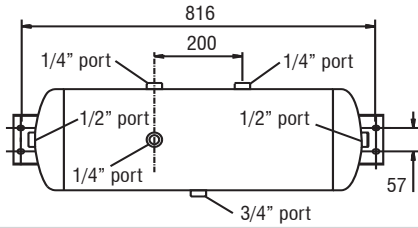
CAPACITY (LIT.) ±4%	Ø (mm)	L1 (mm)	L2 (mm)	L3 (mm)	L4 (mm)	DRAWING NO.	PART-NO.	WEIGHT (kg)	NUMBER/ PALLET*
10	206	370	353	133	190	SPB1001	10501110	5,5	60
15	206	530	513	133	190	SPB1002	10501111	10,0	60
20	206	690	673	133	190	SPB1003	10501112	11,5	30
20	246	500	483	153	230	SPB1004	10501113	9,5	28
25	246	610	593	153	230	SPB1018	10501114	10,5	28
30	246	720	703	153	230	SPB1005	10501115	12,0	28
37	246	852	835	153	230	SPB1006	10501116	14,0	28
40	246	940	923	153	230	SPB1007	10501117	15,0	28
60	246	1352	1335	153	230	SPB1010	10501118	21,0	25
30	276	585	568	168	260	SPB1023	10501119	12,0	40
40	276	760	743	168	260	SPB1008	10501120	14,5	24
60	276	1110	1093	168	260	SPB1011	10501121	19,5	24
85	276	1505	1488	168	260	SPB1020	10501122	22,5	20
40	310	620	603	185	295	SPB1009	10501123	15,0	20
60	310	895	878	185	295	SPB1012	10501124	19,0	20
80	310	1162	1145	185	295	SPB1017	10501125	23,5	20
60	396	580	563	228	380	SPB1013	10501157	22,0	24
80	396	750	733	228	380	SPB1014	10501127	26,0	12
100	396	915	898	228	380	SPB1015	10501128	31,0	12

4

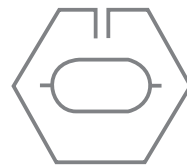


AIR PRESSURE VESSELS

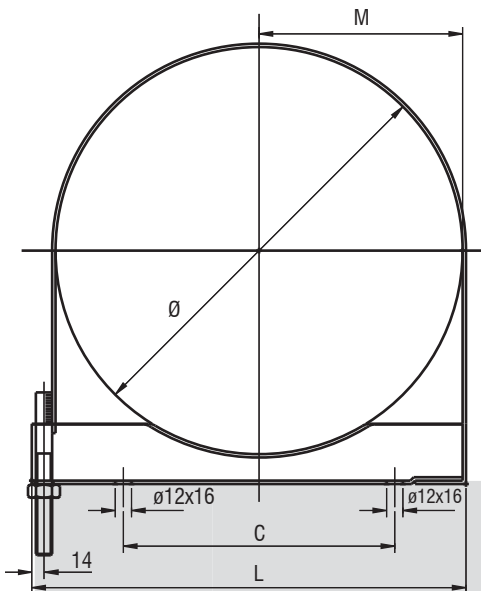
SPECIAL AIR PRESSURE VESSELS, steel, powder coated



4



AIR PRESSURE- VESSELS

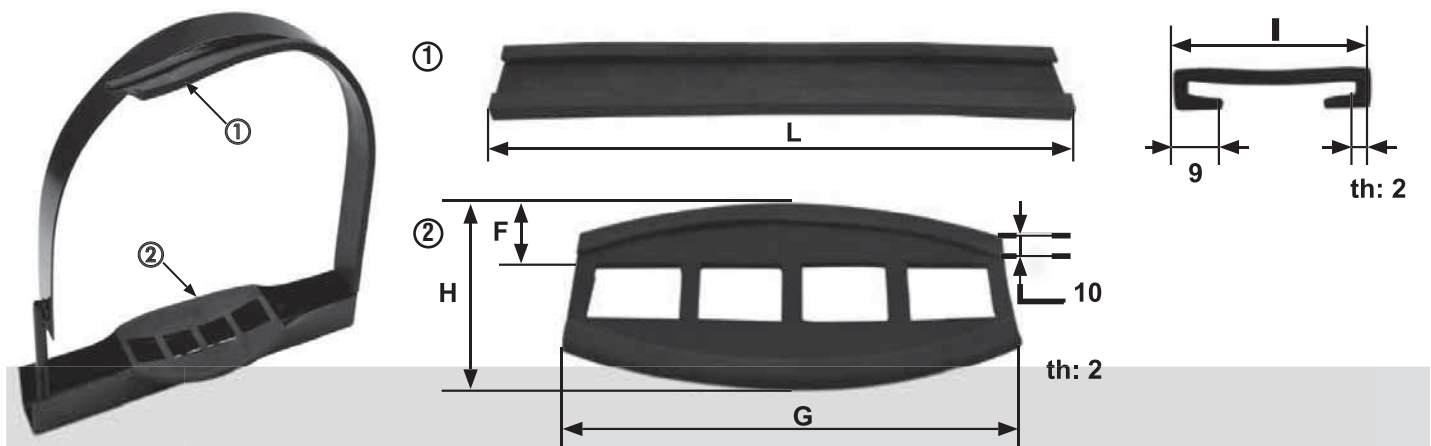


AIR RESERVOIR STRAPS, primed

4

TYPE	ø (mm)	L (mm)	C (mm)	M (mm)	ARTICLE-NO.	WEIGHT (kg)	NUMBER/ PALLET
SP 681 / 206	206	225	122	103	10500024	0,9 kg	48
SP 681 / 246	246	265	161	123	10500037	1,0 kg	48
SP 681 / 276	276	295	192	138	10500038	1,1 kg	48
SP 681 / 310	310	330	227	155	10500040	1,2 kg	48
SP 681 / 396	396	410	311	198	10500041	1,5 kg	24

RUBBER KIT CLAMPS



FOR TYPE	ø (mm)	L (mm)	I (mm)	F (mm)	G (mm)	H (mm)	PART No.
SP 681 / 206	206	450	40	31	126	92	00190194
SP 681 / 246	246	700	40	32	156	95	00190297
SP 681 / 276	276	700	40	32	156	95	00190297
SP 681 / 310	310	700	40	32	156	95	00190297
SP 681 / 396	396	930	40	33	190	96	00190198

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500
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1,7 km	Ernst Bading NFZ Service Böttner GmbH	50825 Köln	-	0049 (0) 221-548054
1,9 km	EUROPART Technischer Handel GmbH	50825 Köln	-	0221/9497170
2,6 km	Schmidt Kfz-Industriebedarf GmbH	50739 Köln	-	0221/9174100
3,4 km	Eugen Trost GmbH & Co. KG	51063 Köln	-	0221/12613-0



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