BPW Agricultural Solutions

Product catalogue

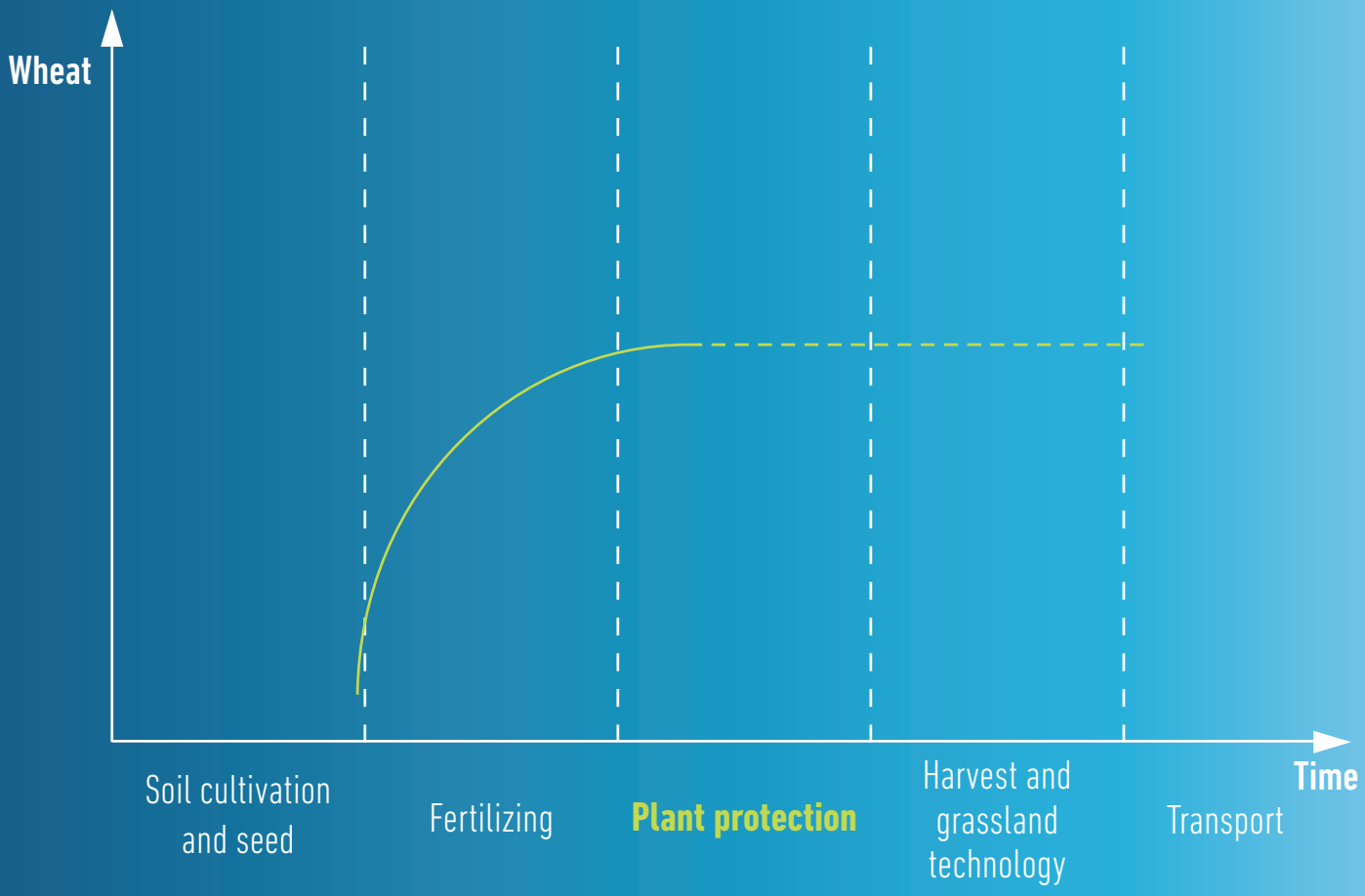
Field of application: Plant protection

EN

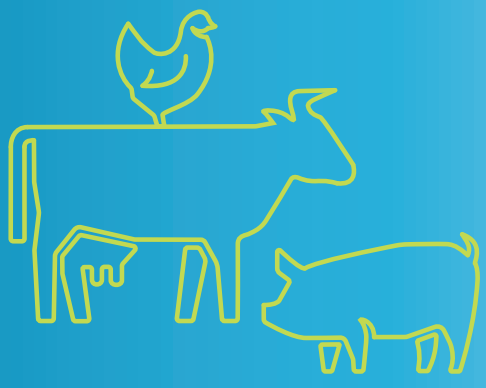
Customised Solutions

Fields of application

Customised Solutions for agricultural use



Forest technology



Livestock farming

Relevant vehicles

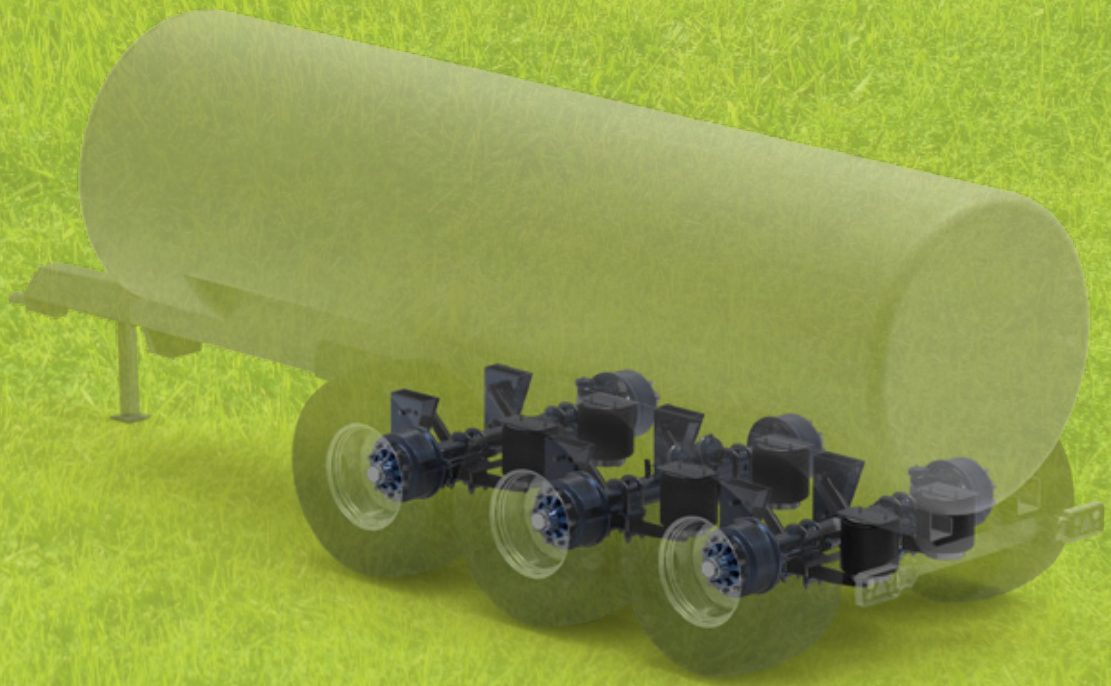
BPW recommendations

Irrigation machine

› Single axle – Unsprung
› Tandem – Pendle suspension

Field sprayer

› Single axle – Unsprung, Cellasto suspension, Trailing arm suspension, Air suspension, Hydropneumatic suspension
› Tandem – Air suspension, Hydropneumatic suspension

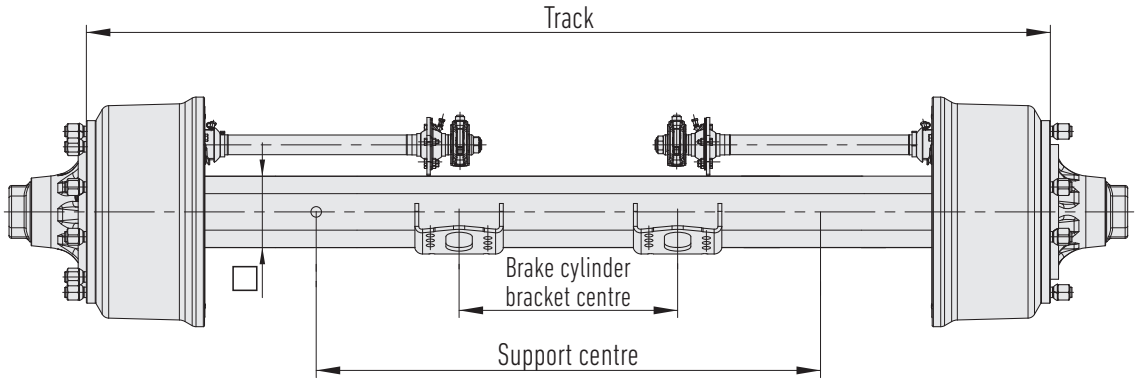


Water tank

› Single axle – Unsprung
› Tandem – Air suspension
› Tridem – Air suspension

BPW Solutions for

Unsprung single axle applications



Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GS 3606	■ 55	N 3006	6	M18 x 1,5	160	205	4.000	3.700	3.400
GS 4006	■ 60	N 3006	6	M18 x 1,5	160	205	5.300	4.900	4.500
GS 4006	■ 70	N 3006	6	M18 x 1,5	160	205			
GS 5506	■ 70	N 3006	6	M18 x 1,5	160	205	7.000	6.500	6.000
GS 5506	■ 70	N 3108	6	M18 x 1,5	160	205			
GS 5506	■ 80	N 3108	6	M18 x 1,5	160	205			
GS 5508	■ 80	N 3108	8	M20 x 1,5	220	275	7.000	6.500	6.000
GS 5508	■ 90	N 3108	8	M20 x 1,5	220	275			
GS 7006	■ 80	N 3108	6	M18 x 1,5	160	205	9.000	8.500	7.500
GS 7006	■ 90	N 3108	6	M18 x 1,5	160	205			
GS 7006	■ 80	N 3411	6	M20 x 1,5	220	275			
GS 7006	■ 90	N 3411	6	M20 x 1,5	220	275			
GS 7008	■ 80	N 3108	8	M20 x 1,5	220	275	9.000	8.500	7.500
GS 7008	■ 90	N 3108	8	M20 x 1,5	220	275			
GS 7008	■ 80	N 3411	8	M20 x 1,5	220	275			
GS 7008	■ 90	N 3411	8	M20 x 1,5	220	275			
GS 9008	□ 110x10	N 3411	8	M20 x 1,5	220	275	11.500	10.500	9.500
GS 9008	□ 110x14	N 3411	8	M20 x 1,5	220	275			
GS 9008	□ 110x10	N 4012	8	M20 x 1,5	220	275			
GS 9008	□ 110x14	N 4012	8	M20 x 1,5	220	275			
GS 9010	□ 110x10	N 4012	10	M22 x 1,5	280	335			
GS 9010	□ 110x14	N 4012	10	M22 x 1,5	280	335			
GS 11010	□ 120x10	N 4012	10	M22 x 1,5	280	335	13.000	13.000	11.500
GS 11010	□ 120x15	N 4012	10	M22 x 1,5	280	335			
GS 11010	□ 120x10	FL 4112	10	M22 x 1,5	280	335			
GS 11010	□ 120x15	FL 4112	10	M22 x 1,5	280	335			
GS 11010	□ 120x10	FL 4118	10	M22 x 1,5	280	335			
GS 11010	□ 120x15	FL 4118	10	M22 x 1,5	280	335			
GS 12010	□ 150x10	FL 4112	10	M22 x 1,5	280	335	15.000	15.000	14.500
GS 12010	□ 150x16	FL 4112	10	M22 x 1,5	280	335			
GS 12010	□ 120x15	FL 4118	10	M22 x 1,5	280	335			
GS 12010	□ 150x10	FL 4118	10	M22 x 1,5	280	335			
GS 12010	□ 150x16	FL 4118	10	M22 x 1,5	280	335			
GS 14010	□ 150x16	FL 4118	10	M22 x 1,5	280	335	17.000	17.000	16.000
GS 14010	□ 150x20	FL 4118	10	M22 x 1,5	280	335			
GS 14010	□ 150x24	FL 4118	10	M22 x 1,5	280	335			

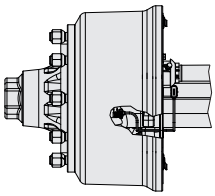
*The axle load depends on the track, support centre and the tyres used.

Other design dimensions

	GS 5500	GS 7000	GS 9000	GS 11000	GS 12000	GS 14000
Track	1.700-2.300 mm in 50 mm increments. Other dimensions are available on request					
Support centre	On request					
Brake cylinder bracket centre	On request					

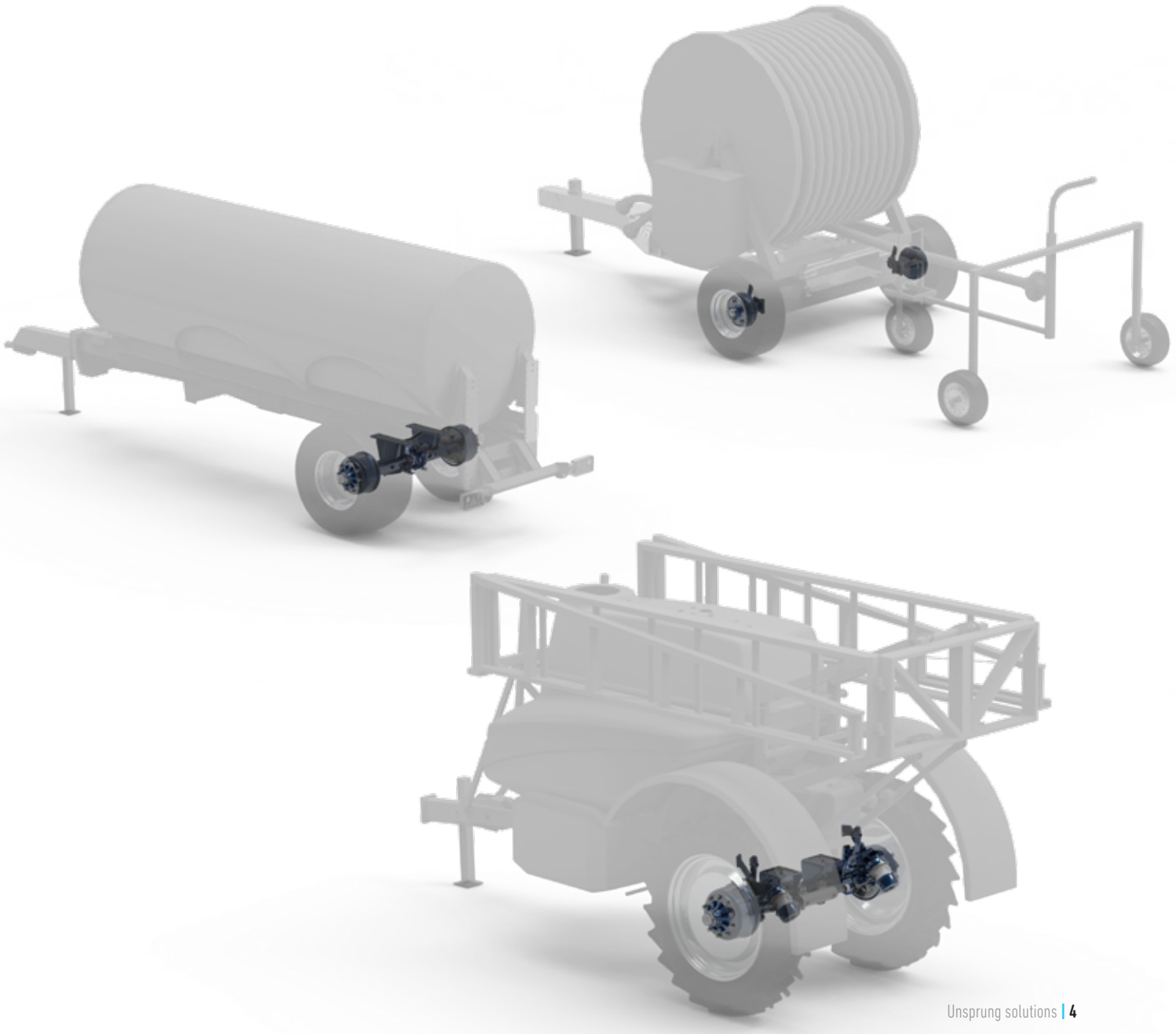
Options

Wheel sensors



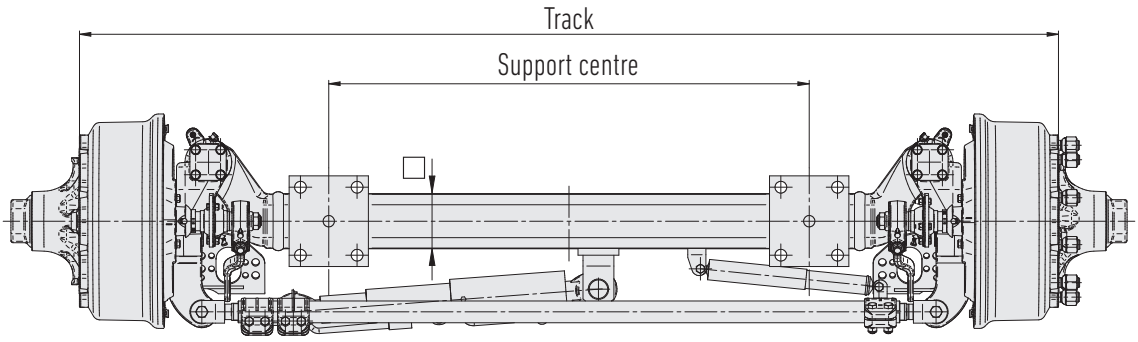
	GS 5500	GS 7000	GS 9000	GS 11000	GS 12000	GS 14000
ABS Sensor *		✓	✓	✓	✓	✓
SDS Sensor *		✓	✓	✓	✓	✓

*Possible sensor variations are available at the chapter of sensors



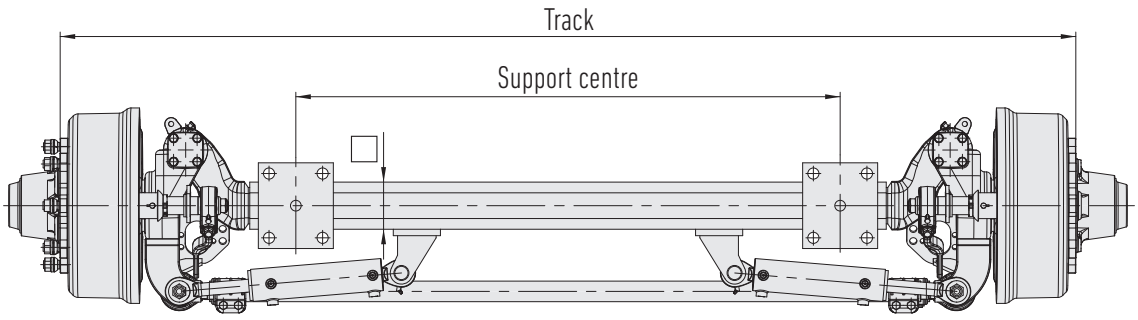
BPW Solutions for

Self-steering axle with locking cylinder



Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSLM 7008	■ 90	unbraked	8	M20 x 1,5	220	275	7.500	7.000	6.500
GSLM 7006	■ 90	N 3411-1	6	M20 x 1,5	220	275			
GSLM 7008	■ 90	N 3411-1	8	M18 x 1,5	220	275	7.500	7.000	6.500
GSLM 7008	■ 90	N 3411-1	8	M20 x 1,5	220	275			
GSLA 9008	▣ 110x14	unbraked	8	M20 x 1,5	220	275	10.000	9.000	8.500
GSLA 9008	▣ 110x14	N 3411-1	8	M20 x 1,5	220	275			
GSLA 9008	▣ 110x14	N 4012-4	8	M20 x 1,5	220	275			
GSLA 9010	▣ 110x14	N 4012-4	10	M22 x 1,5	280	335	10.000	9.000	8.500
GSLA 11008	▣ 120x15	unbraked	8	M20 x 1,5	220	275	12.000	10.500	10.000
GSLA 11008	▣ 120x15	N 4012	8	M20 x 1,5	220	275			
GSLA 11008	▣ 120x15	FL 4112	8	M22 x 1,5	220	275			
GSLA 11010	▣ 120x15	unbraked	10	M22 x 1,5	280	335	12.000	10.500	10.000
GSLA 11010	▣ 120x15	N 4012	10	M22 x 1,5	280	335			
GSLA 11010	▣ 120x15	FL 4112	10	M22 x 1,5	280	335			
GSLL 12010	▣ 150x16	unbraked	10	M22 x 1,5	280	335	13.000	12.000	11.000
GS(H)LL 12010	▣ 150x16	FL 4112	10	M22 x 1,5	280	335	13.000	12.000	11.000
GS(H)LL 12010	▣ 150x16	FL 4118	10	M22 x 1,5	280	335			

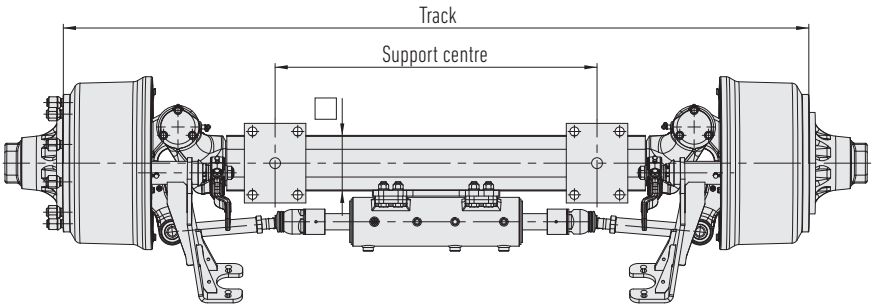
Self-steering axle with force-steering cylinder



Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSLA 9008	▣ 110x14	unbraked	8	M20 x 1,5	220	275	10.000	9.000	8.500
GSLA 9008	▣ 110x14	N 3411-1	8	M20 x 1,5	220	275			
GSLA 9008	▣ 110x14	N 4012-4	8	M20 x 1,5	220	275			
GSLA 9010	▣ 110x14	N 4012-4	10	M22 x 1,5	280	335	10.000	9.000	8.500

These types are suitable for force-steering.

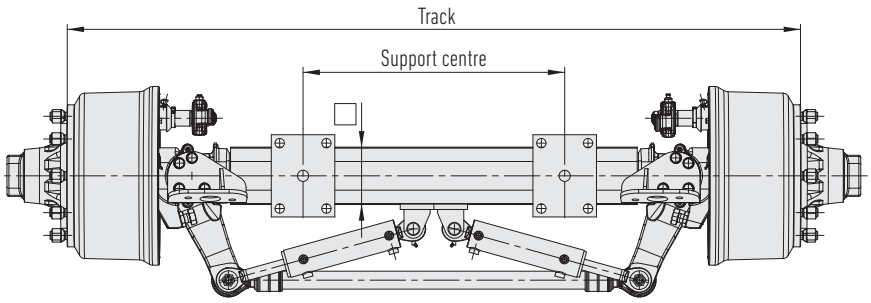
Self-steering axle with combination cylinder



Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSLA 11008	◻ 120x15	unbraked	8	M22 x 1,5	220	275	12.000	10.500	10.000
GSLA 11008	◻ 120x15	FL 4112	8	M22 x 1,5	220	275			
GSLA 11010	◻ 120x15	unbraked	10	M22 x 1,5	280	335	12.000	10.500	10.000
GSLA 11010	◻ 120x15	FL 4112	10	M22 x 1,5	280	335			
GSLL 12010*	◻ 150x16	unbraked	10	M22 x 1,5	280	335	14.000	13.500	12.000
GS(H)LL 12010*	◻ 150x16	FL 4118	10	M22 x 1,5	280	335			
GSLL 14010	◻ 150x16	unbraked	10	M22 x 1,5	280	335	15.000	14.000	13.000
GS(H)LL 14010	◻ 150x16	FL 4118	10	M22 x 1,5	280	335	15.000	14.000	13.000
GSN(H)LL 12010	◻ 150x16	SN 4220	10	M22 x 1,5	280	335	-	-	-

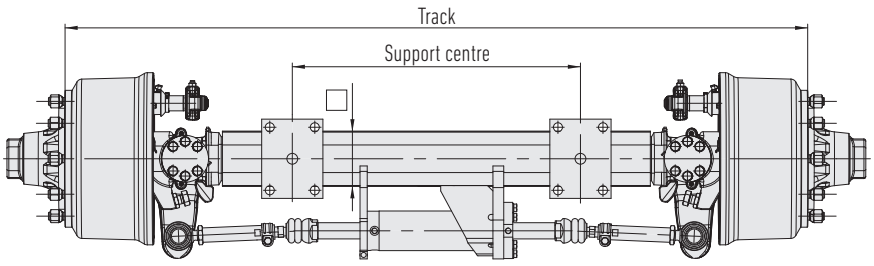
*AGRO Turn

Force-steering axle with two cylinders



Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSL 11008	◻ 120x15	unbraked	8	M22 x 1,5	220	275	12.000	10.500	10.000
GSL 11008	◻ 120x15	FL 4112	8	M22 x 1,5	220	275			
GSL 11010	◻ 120x15	unbraked	10	M22 x 1,5	280	335	12.000	10.500	10.000
GSL 11010	◻ 120x15	FL 4112	10	M22 x 1,5	280	335			
GSL 12010	■ 120	FL 4118	10	M22 x 1,5	280	335	13.000	12.000	11.000
GSL 12010	◻ 150x16	unbraked	10	M22 x 1,5	280	335			
GSL 12010	◻ 150x16	FL 4118	10	M22 x 1,5	280	335			

Force-steering axle with one cylinder



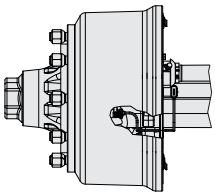
Axle type	Axle cross section [mm]	Brake	Wheel connection				Static axle load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSL 11008	◻ 120x15	unbraked	8	M22 x 1,5	220	275	12.000	10.500	10.000
GSL 11008	◻ 120x15	FL 4112	8	M22 x 1,5	220	275			
GSL 11010	◻ 120x15	unbraked	10	M22 x 1,5	280	335	12.000	10.500	10.000
GSL 11010	◻ 120x15	FL 4112	10	M22 x 1,5	280	335			
GSL 12010	◻ 150x16	unbraked	10	M22 x 1,5	280	335	13.000	12.000	11.000
GSL 12010	◻ 150x16	FL 4118	10	M22 x 1,5	280	335			

Other design dimensions

	GS 7000	GS 9000	GS 11000	GS 12000	GS 14000
Track	1.700-2.300 mm in 50 mm increments. Other dimensions are available on request				
Support centre	On request				
Brake cylinder bracket centre	On request				

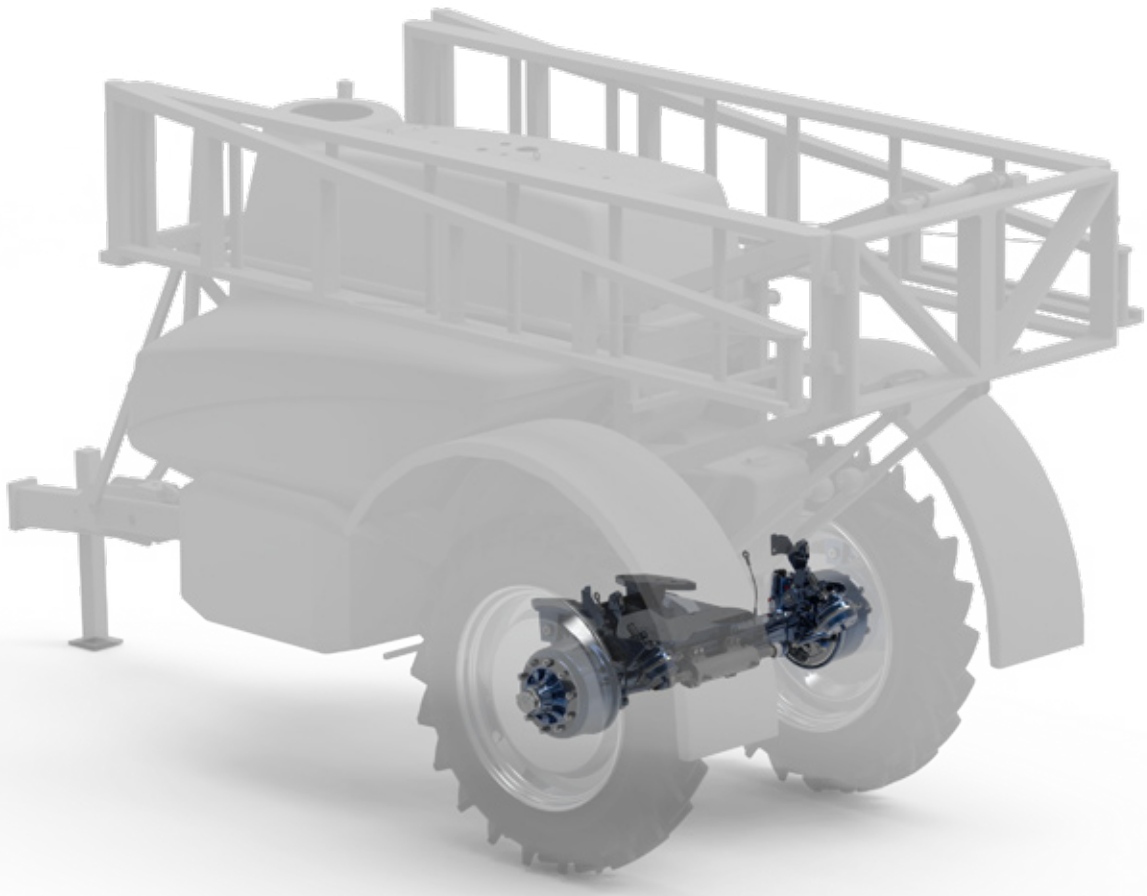
Options

Wheel sensors

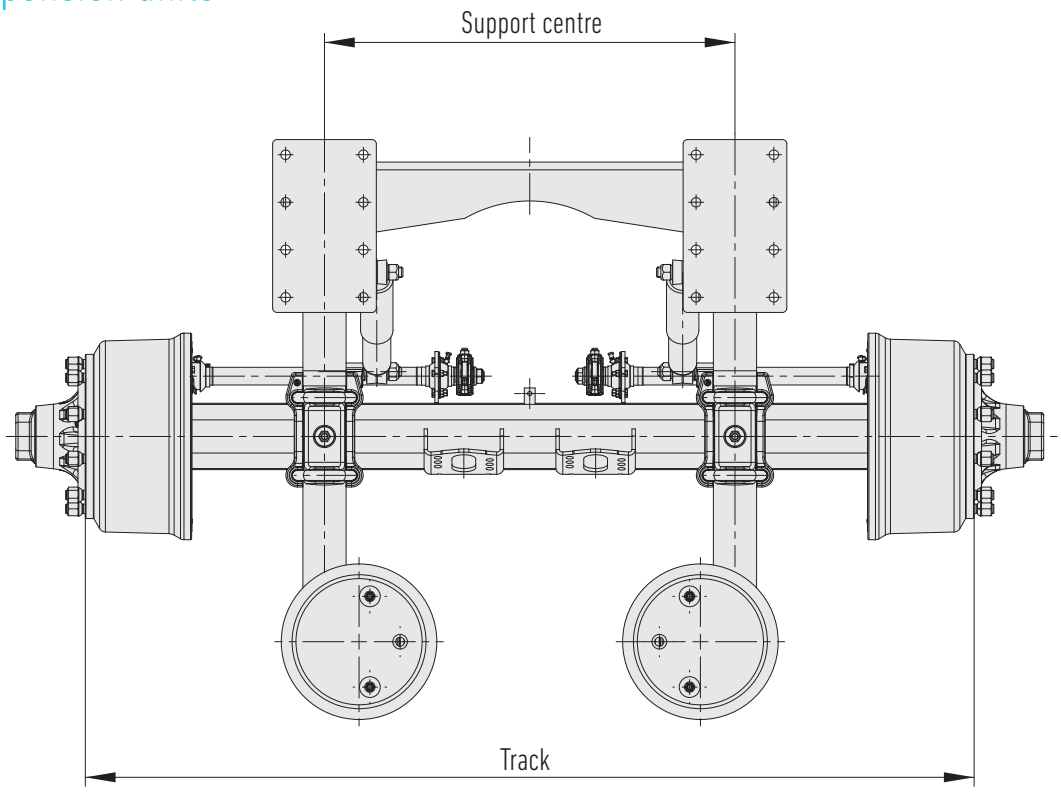


	GS 5500	GS 7000	GS 9000	GS 11000	GS 12000	GS 14000
ABS Sensor *		✓	✓	✓	✓	✓
SDS Sensor *		✓	✓	✓	✓	✓

*Possible sensor variations are available at the chapter of sensors



BPW Solutions for
Air suspension units

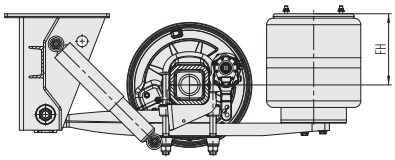
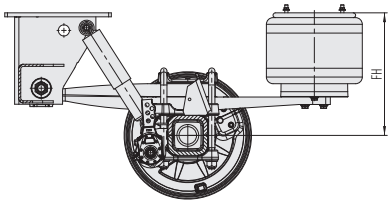


Type	Axle cross section [mm]	Brake	Wheel connection				Static suspension unit load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSSLU/OLA 11010	□ 120x15	N 4012	10	M22 x 1,5	280	335	-	10.000	9.000
GSSLU/OLA 11010	□ 120x15	FL 4112	10	M22 x 1,5	280	335			
GSSLU/OLL 12010	□ 150x16	FL 4118	10	M22 x 1,5	280	335	-	13.000	12.000
GSSLU/OLL 14010	□ 150x16	FL 4118	10	M22 x 1,5	280	335	-	14.000	14.000
GSSLU/OLL 14010	□ 150x20	FL 4118	10	M22 x 1,5	280	335	-		

*Suspension unit load depends on the ratio of the track and support centre, and on the tyres.

Other design dimensions

	GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000
Track	1.700-2.300 mm in 50 mm increments. Other dimensions are available On request		
Support centre	On request		

Spring mounting	
Spring mounted below the axle **SLU**	
Spring mounted upon the axle **SLO**	

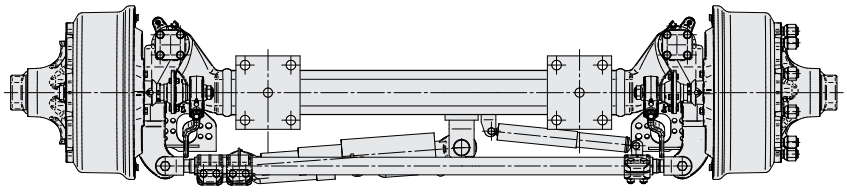
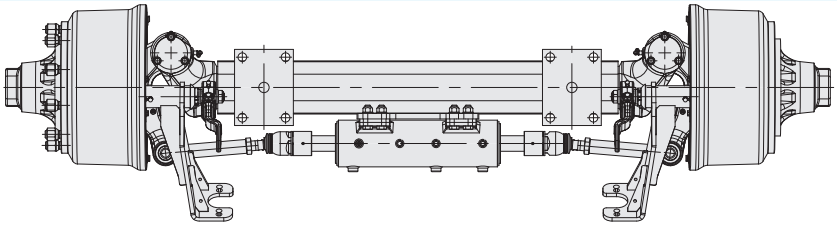
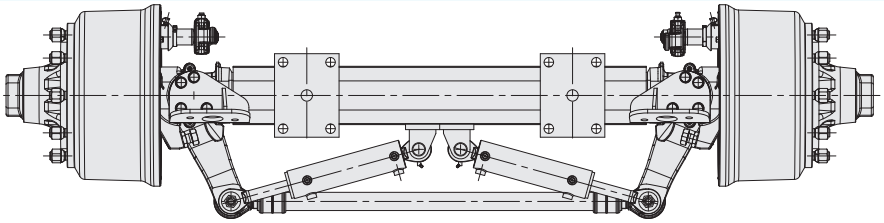
Ride heights of the single modules GS 11 000 (FH [mm])				
Wheel base (Spring)	SLO		SLU	
Support height	without plate	with plate	without plate	with plate
184	414-439	421-454	-	-
268	474-523	480-538	217-267	224-282
302	-	-	230-301	237-316
370	-	-	283-369	290-384

Ride heights of the single modules GS 12000 / GS 14000 (FH [mm])				
Wheel base (Spring)	SLO		SLU	
Support height	without plate	with plate	without plate	with plate
184	430-455	435-470	-	-
268	488-538	495-553	175-252	182-267
302	-	-	215-286	222-301
370	-	-	268-351	275-370

Product variations

		GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000	Comments
Tandem	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		Possible variations are available at the chapter of AGRO FlexFrame
Tridem	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		Possible variations are available at the chapter of AGRO FlexFrame

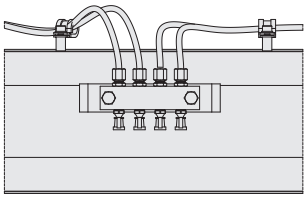
Options

Steering axles	
GSLA Self-steering axle	
GSLL AGRO Turn	
GSL Force-steering axle	

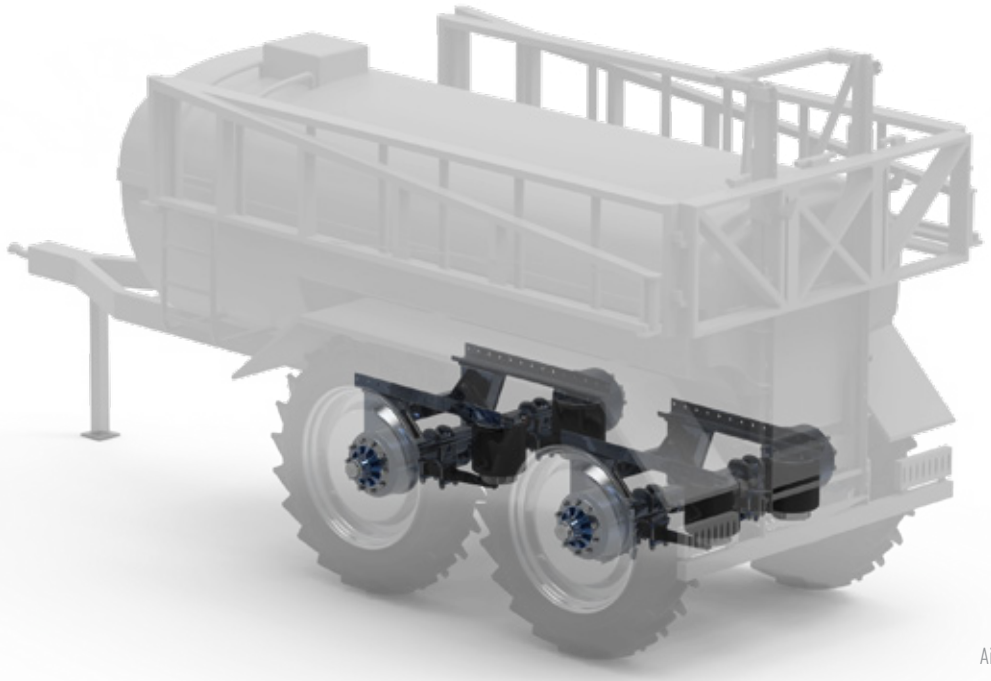
Tandem				
Versions		GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000
rigid	GSLA self-steering axle with self-steering	✓		
rigid	GSLL – AGRO Turn self-steering axle with self-steering		✓	
rigid	GSLL – AGRO Turn self-steering axle with force-steering		✓	
rigid	GSLL self-steering axle with self-steering			✓
rigid	GSLL self-steering axle with force-steering			✓
rigid	GSL force-steering axle with force-steering	✓	✓	

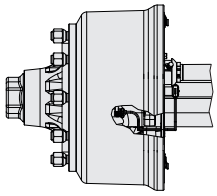
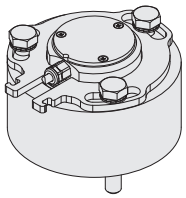
Tridem					
Versions			GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000
GSLA self-steering axle with self-steering	rigid	GSLA self-steering axle with self-steering	✓		
GSLL – AGRO Turn self-steering axle with self-steering	rigid	GSLL – AGRO Turn self-steering axle with self-steering		✓	
GSLL – AGRO Turn self-steering axle with force-steering	rigid	GSLL – AGRO Turn self-steering axle with force-steering		✓	
GSLL self-steering axle with self-steering	rigid	GSLL self-steering axle with self-steering			✓
GSLL self-steering axle with force-steering	rigid	GSLL self-steering axle with force-steering			✓
GSL force-steering axle with force-steering	rigid	GSL force-steering axle with force-steering	✓	✓	

Central lubrication system



	Versions			
	GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000	Comment
Central lubrication system	✓	✓	✓	for specific lubrication points further consultation is necessary

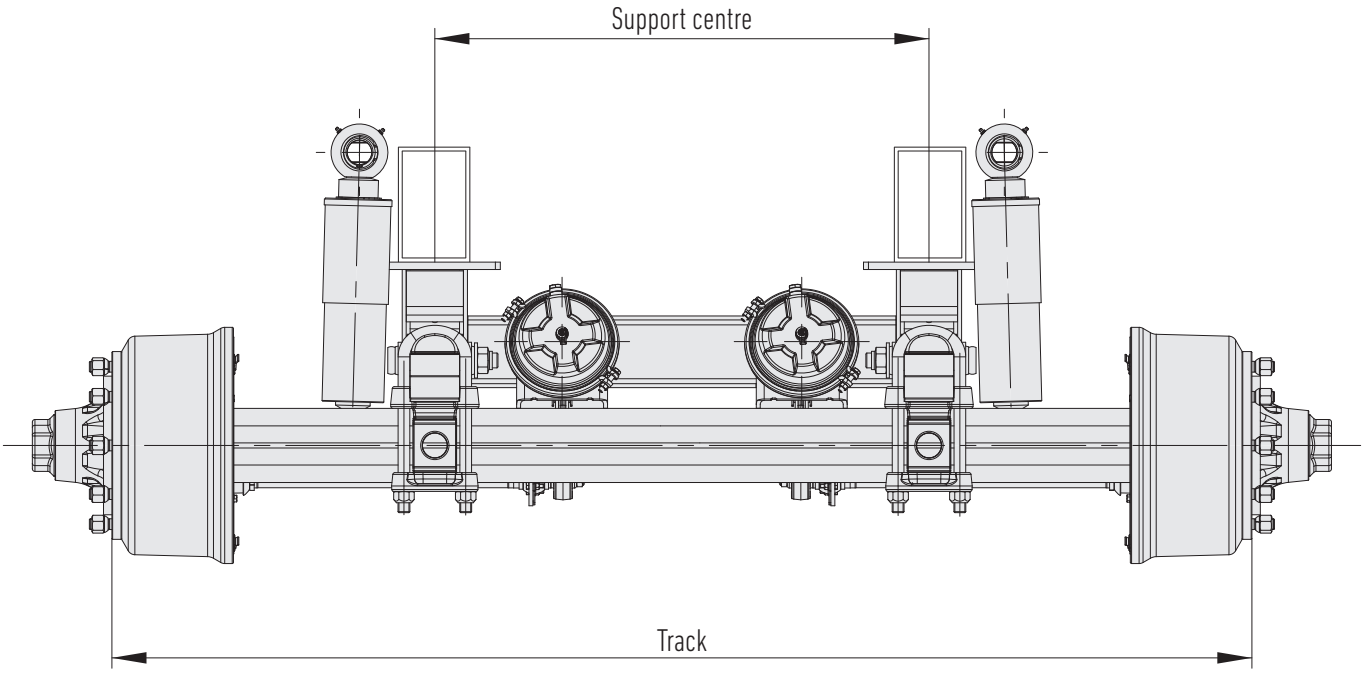


Wheel sensors	Integrated steering angle sensor
	

	Versions		
	GSSLU/OLA 11000	GSSLU/OLL 12000	GSSLU/OLL 14000
ABS sensor*	✓	✓	✓
SDS sensor*	✓	✓	✓
Steering angle sensor	✓	✓	✓

*Possible sensor variations are available at the chapter of sensors

BPW Solutions for
Hydropneumatic suspension units

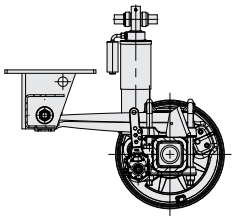
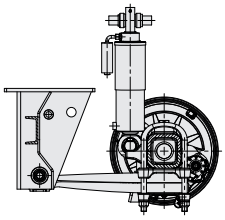


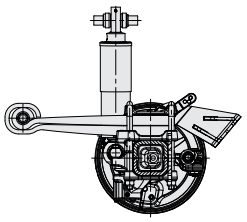
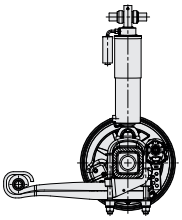
Designation of the individual modules									
Type	Axle cross section [mm]	Brake	Wheel connection				Static suspension unit load [kg]*		
			Z		Ø X [mm]	Ø Y [mm]	25 km/h	40 km/h	60 km/h
GSOH 11010	◘ 120x15	FL 4112	10	M22 x 1,5	280	335	-	10.000	9.000
GSOH 12010	◘ 150x16	FL 4118	10	M22 x 1,5	280	335	-	13.000	12.000
GSOH 14010	◘ 150x16	FL 4118	10	M22 x 1,5	280	335	-	14.000	14.000
GSOH 14010	◘ 150x20	FL 4118	10	M22 x 1,5	280	335	-		

*Suspension unit load depends on the ratio of the track and support centre, and on the tyres.

Other design dimensions

	GSOH 11000	GSOH 12000	GSOH 14000
Track	1.700-2.300 mm in 50 mm increments. Other dimensions are available on request		
Support centre	On request		

Spring mounting	
Spring mounted upon the axle **FO**	
Spring mounted below the axle **FU**	

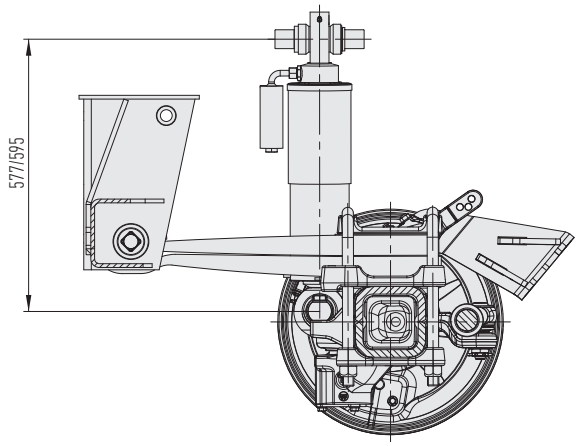
Cylinder position	
HP cylinder in front of the axle*	
HP cylinder on the axle*	

*Further technical consultation is necessary.

Ride heights of the single modules GSOH 11 000 (FH [mm])				
Wheel base (Spring)	FO		FU	
Support height	without plate	with plate	without plate	with plate
184	366	351	-	-
268	420	435	-	-
302	-	-	-	-
370	-	-	-	-

Ride heights of the single modules GSOH 12 000 (FH [mm])				
Wheel base (Spring)	FO		FU	
Support height	without plate	with plate	without plate	with plate
184	356	371	-	-
268	440	455	-	-
302	474	489	194	209
370	-	-	262	277

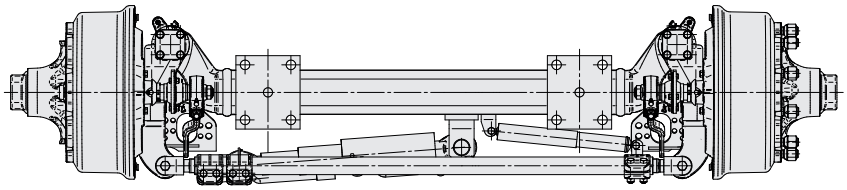
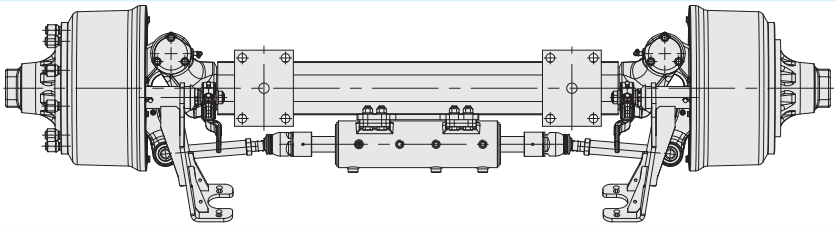
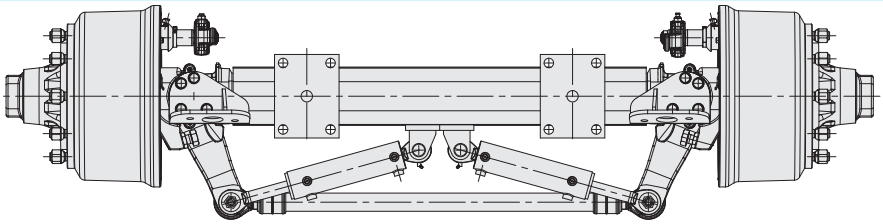
Ride heights of the single modules GSOH 14 000 (FH [mm])				
Wheel base (Spring)	FO		FU	
Support height	without plate	with plate	without plate	with plate
184	378	393	-	-
268	462	477	-	-
302	-	-	172	187
370	-	-	240	255

Cylinder installation dimension	
577 mm HUB: 185 mm	
595 mm HUB: 210 mm	

Product variations

		GSOH 11000	GSOH 12000	GSOH 14000	Comments
Tandem	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		Possible variations are available at the chapter of AGRO FlexFrame
Tridem	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		Possible variations are available at the chapter of AGRO FlexFrame

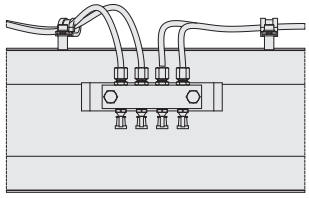
Options

Steering axles	
GSLA Self-steering axle	
GSLL AGRO Turn	
GSL Force-steering axle	

Tandem				
Versions		GSOH 11000	GSOH 12000	GSOH 14000
rigid	GSLA self-steering axle with self-steering	✓		
rigid	GSLL – AGRO Turn self-steering axle with self-steering		✓	
rigid	GSLL – AGRO Turn self-steering axle with force-steering		✓	
rigid	GSLL self-steering axle with self-steering			✓
rigid	GSLL self-steering axle with force-steering			✓
rigid	GSL force-steering axle with force-steering	✓	✓	

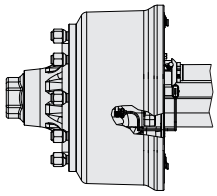
Tridem					
Versions			GSOH 11000	GSOH 12000	GSOH 14000
GSLA self-steering axle with self-steering	rigid	GSLA self-steering axle with self-steering	✓		
GSLL – AGRO Turn self-steering axle with self-steering	rigid	GSLL – AGRO Turn self-steering axle with self-steering		✓	
GSLL – AGRO Turn self-steering axle with force-steering	rigid	GSLL – AGRO Turn self-steering axle with force-steering		✓	
GSLL self-steering axle with self-steering	rigid	GSLL self-steering axle with self-steering			✓
GSLL self-steering axle with force-steering	rigid	GSLL self-steering axle with force-steering			✓
GSL force-steering axle with force-steering	rigid	GSL force-steering axle with force-steering	✓	✓	

Central lubrication system

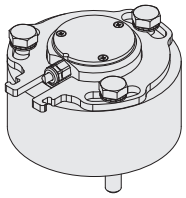


	Versions			
	GSOH 11000	GSOH 12000	GSOH 14000	Comment
Central lubrication system	✓	✓	✓	for specific lubrication points further consultation is necessary

Wheel sensors



Integrated steering angle sensor



	Versions		
	GSOH 11000	GSOH 12000	GSOH 14000
ABS sensor*	✓	✓	✓
SDS sensor*	✓	✓	✓
Steering angle sensor	✓	✓	✓

*Possible sensor variations are available at the chapter of sensors

Control options for tandem or tridem application

e-HP active and electronic suspension control

Basic control

Ride heights depend on the change of the suspension load. No level-control of the system. This solution can be used as a dual circuit or a cross circuit.

System components: Hydraulic accumulator; oil reservoir

Standard system

The riding height is always the same, under loaded or unloaded driving conditions. The system checks the current position via angle sensors and equalises any changes by a respective re-adjustment of the oil level via the hydraulics. This solution is only compatible with cross circuit.

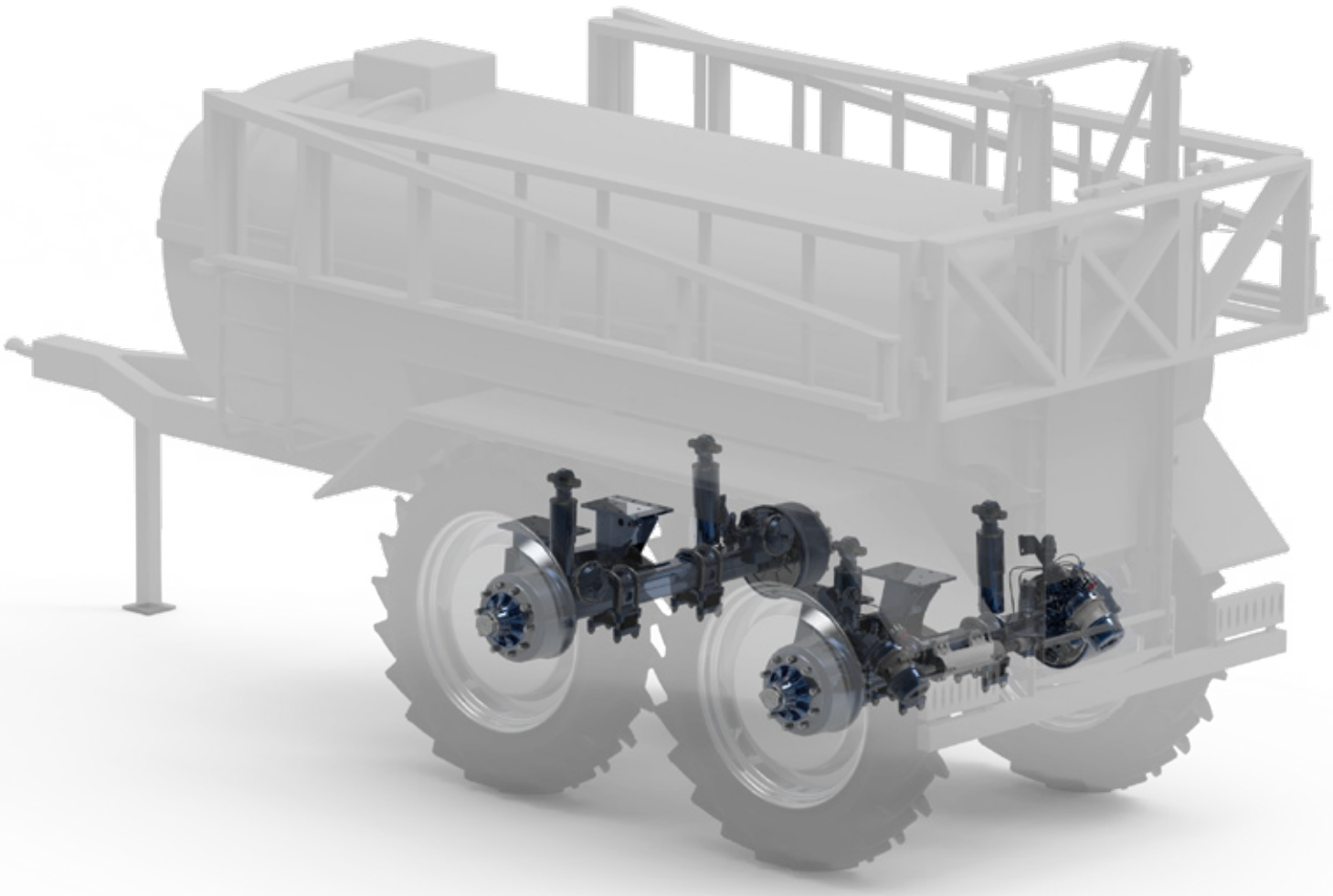
System components: Hydraulic accumulator; angle sensor; control block and controller

Premium system

The riding height is always the same, under loaded or unloaded driving conditions. The system checks the current position via angle sensors and according to this position, readjusts the oil level in the hydraulic system and thus the ride height. This solution is only compatible with cross circuit.

In the case of a tridem vehicle, the first axle can be controlled as lift axle. In the case of a tandem vehicle, this is only possible if the rear axle is a rigid axle. If the pressure in the system is too high, the axle lifting function is switched off automatically. With the starting aid function, the solution is possible for a tandem or tridem suspension unit.

System components: Hydraulic accumulator; angle sensor; control block and controller; valve for the traction assist; operating terminal



Wheel sensors

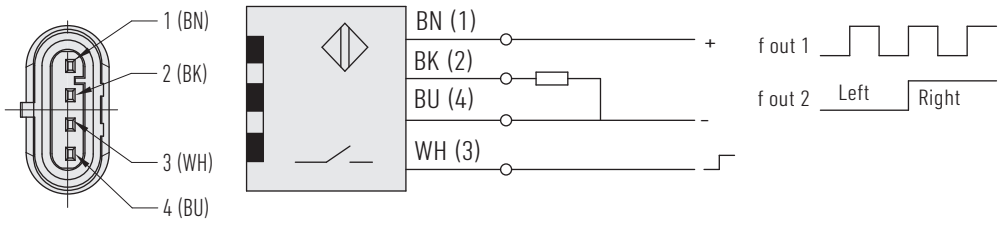
ABS

The anti-lock brake system (ABS) ensures a shorter braking distance, the best possible drive stability and steering properties - for tractors and trailers. Heavy braking is carried out without the wheels blocking which reduces tyre wear. High ABS functional reliability thanks to positioning the sensor in the bend neutral axle centre, no change of air gap at variable axle load.

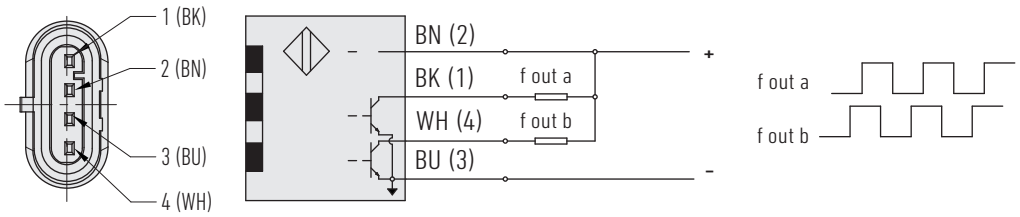
SDS

The speed sensor with recognition of rotating direction is a product developed by BPW. It is an important element of the electronic forced steering system. The sensor signal can also be used for the optimisation of
application rates. The to the requiremntes adapted sensor bracket protects the sensor against twisting. This offers a higher functional reliability.

Type PNP: separate channels for speed and direction of rotation



Type NPN: direction of rotation should be detected by software technology



SDS technical specifications

	PNP	NPN
Output	4 wire PNP pulse output	4 wire NPN 2 channel with phase shift
Operating voltage	10—30 VDC	
Voltage drop	≤ 2,4 V	≤ 0,4 V
Maximum load current	200 mA	
No-load current	≤ 30 mA	
Usable switching frequency	5.000 Hz	
EMC durability	according to DIN EN 60947-5-2 2008-08	
Protection class	IP 67 according to DIN EN 60529	
Type of connection	400 mm cable with Superseal 4-pin	400 mm cable with Superseal 4-pin*

*Cable marked with yellow shrink hose.

Sensor matrix for rigid axle

Left	Right	Code
Z100 + ABS	0	A
Z100 + SDS	0	B
Z100 + ABS	Z100 + ABS	C
Z100 + SDS	Z100 + ABS	D
Z100 + SDS	Z100 + SDS	E
Z120 + ABS	0	F
Z120 + ABS	Z120 + ABS	G

Other options on request.

Sensor matrix for steering axle

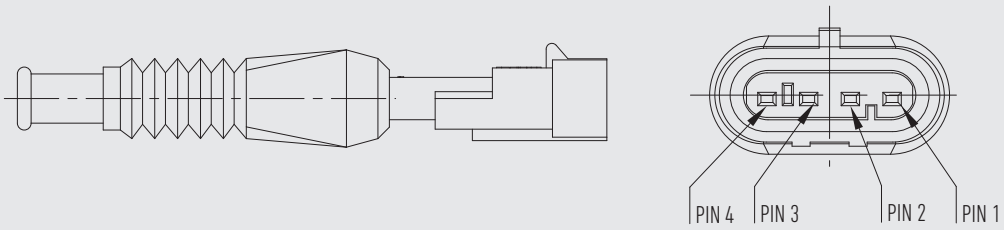
Left	Right	Code
Z100 + SDS	0	A
Z100 + SDS	Z100 + SDS	B
Z100 + ABS	Z100 + ABS	C
Z120 + ABS	Z120 + ABS	D
Z100 + SDS + ABS	Z100 + SDS + ABS	E
Z120 + SDS + ABS	Z120 + SDS + ABS	F

Other options on request.

Adapter for steering angle sensor

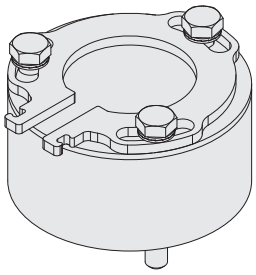
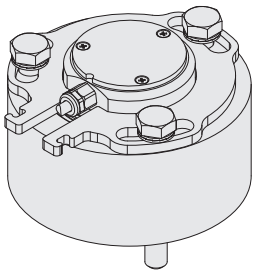
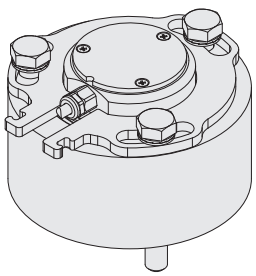
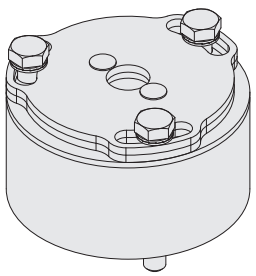
Installation options for ME sensors

- Simple adjustment
- Pre-set sensor
- "Ready to use" in combination with the electronic steering system from the company ME - Mobil Elektronik

	With voltage output	With current output
Voltage supply	9—34 V	
Current consumption	max. 25 mA	max. 60 mA
Output range	0,25—4,75 V	4—20 mA
Measuring range	2x 70 ° (0°± 35 ° for 2,5 V ± 2,25 V)	2x 70°(0°± 35 ° for 12 mA ± 8 mA)
Repeat precision	≤ 0,1 % in case of play-free and central positioning on the installation side	<0,2 % of the measuring range with play-free and central bearing equipped
Temperature range	-30— +80 °C	
Cable length	2,0 m	0,3 m
Housing	IP6K6K/IP6x8 (1 m; 12 h)/IP6K9K	
Plug connection	IP6K6K/IPx7/IPx9K when plugged in	
Superseal		

PIN assignment				
	PIN 1	+UB	PIN 1	GND
	PIN 2	OUT A	PIN 2	+UB
	PIN 3	OUT B	PIN 3	OUT A
	PIN 4	GND	PIN 4	OUT B

Sensor matrix for the steering wheel sensor

Code	Description	Figure	Code	Description	Figure
1	Adapter for ME sensor (without sensor)		3	ME sensor installed (current output)	
2	ME - sensor installed (voltage output)		4	Adapter for ELOBAU sensor (without sensor, the adapter is compatible with various ELOBAU steering angle sensors)	

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