

BPW Agricultural Solutions

Product catalogue

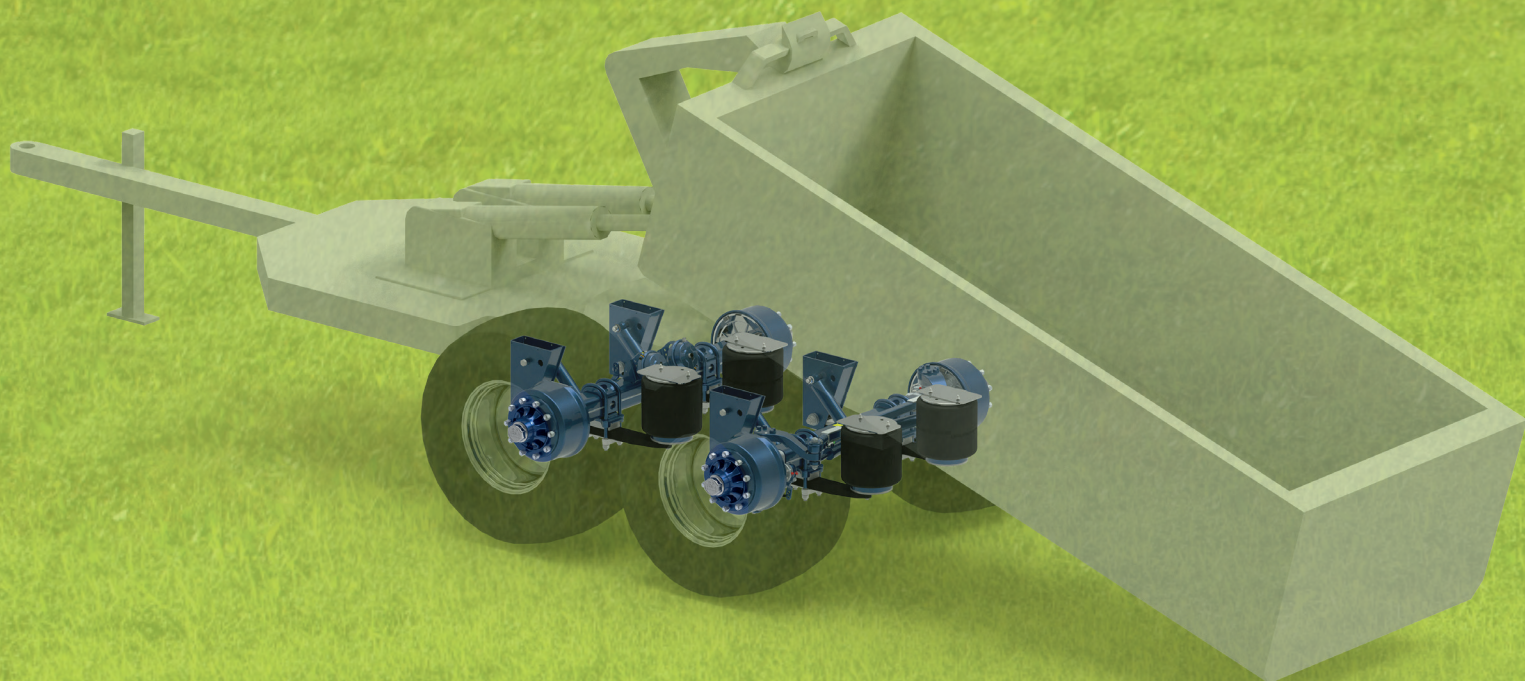
Transport

EN



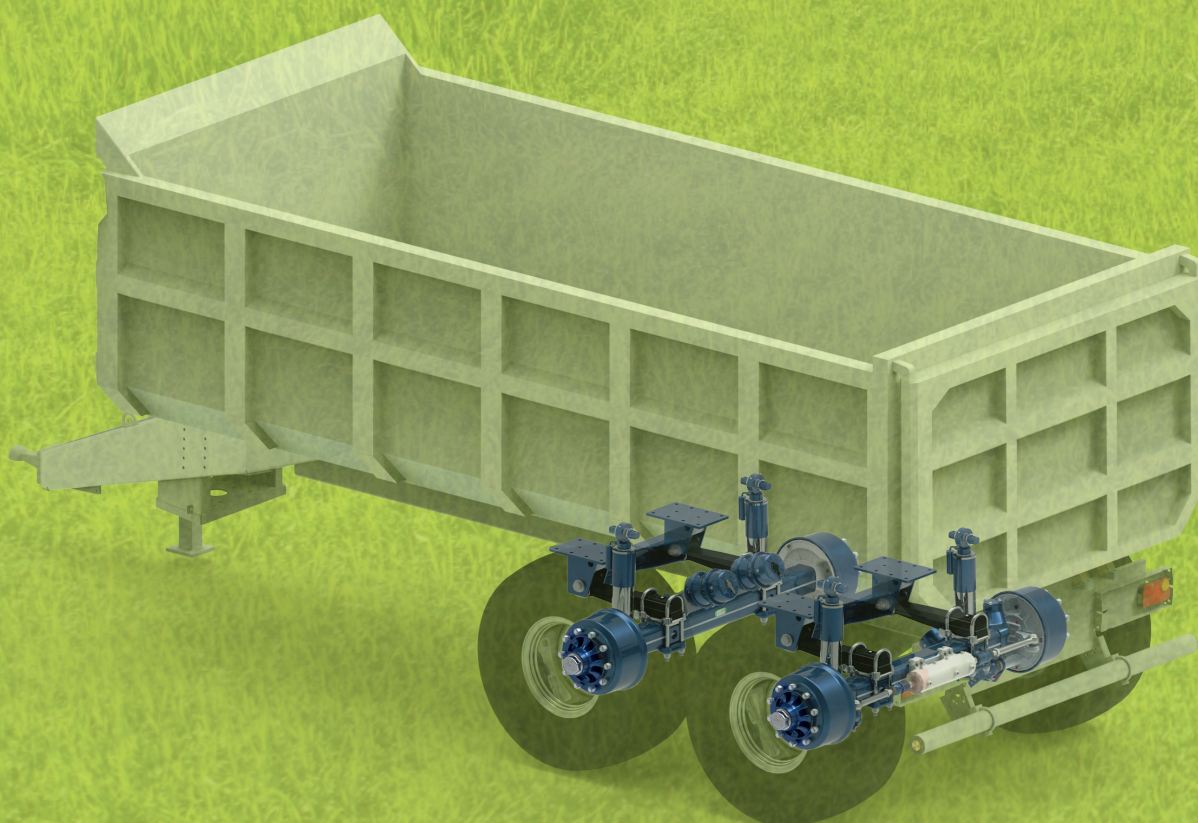
Relevant vehicles

BPW recommendations



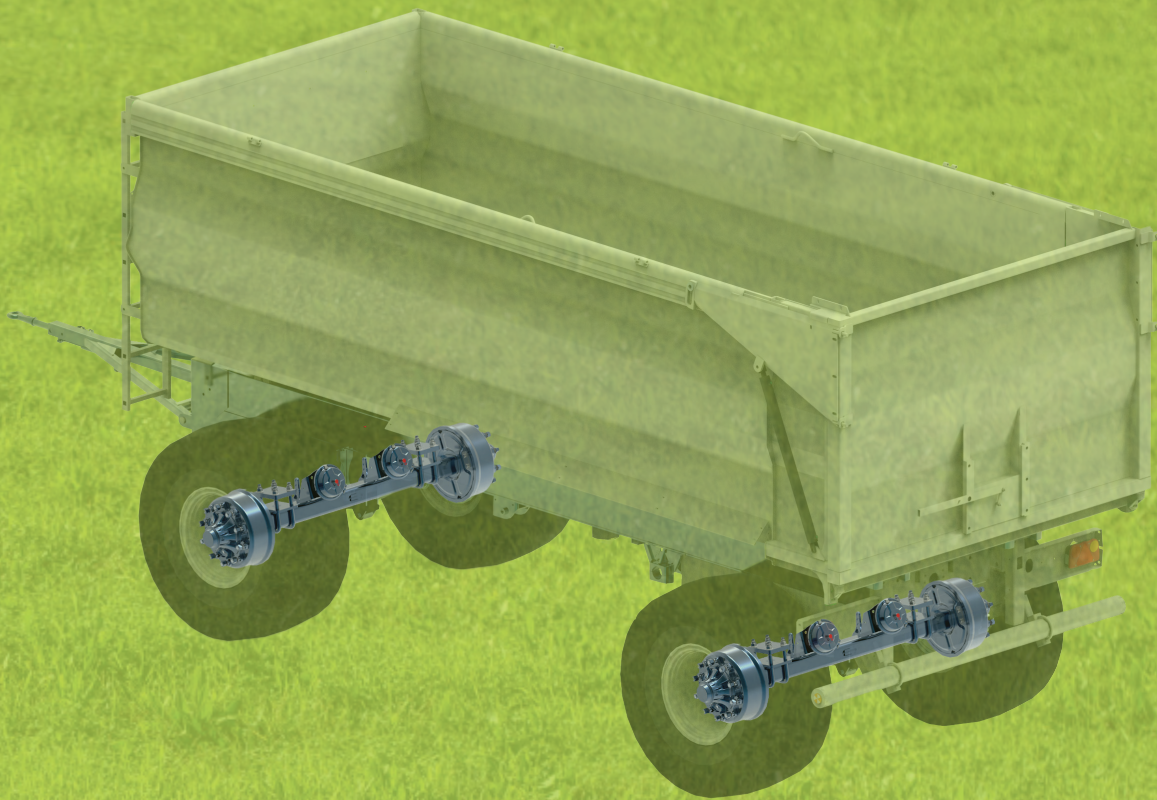
Hook-lift trailers

- › Single axle – Air suspension, HP
- › Tandem – Air suspension, HP



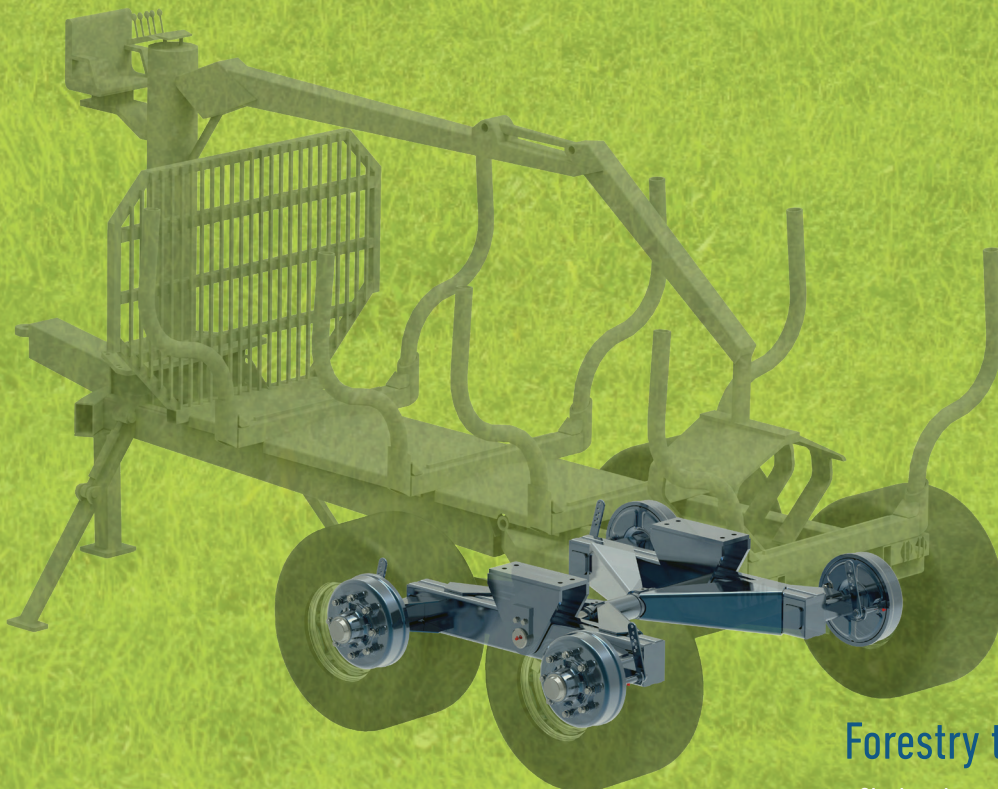
Dumpers

- › Tandem – Bogie, Pendle, HP
- › Tridem – HP



Tipper and push-off trailers

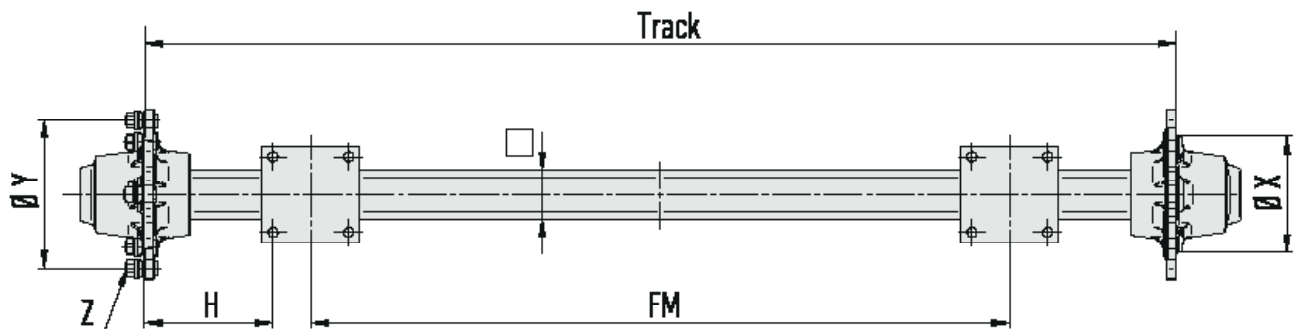
- › Single axle – unsprung
- › Two axle – Single axles for mechanical suspension
- › Tandem-Air suspension, Pendle, Bogie, HP
- › Tridem-Air suspension, HP



Forestry trailers

- › Single axle – unsprung
- › Two axle- Pendle

Unbraked axles with solid and hollow axle beam



Designation	Axle cross-section (mm)	H (mm)	Static axle load (kg)									Wheel connection		
			25 km/h			40 km/h			60 km/h			Z	Ø X (mm)	Ø Y (mm)



Unbraked axles up to 3.600 kg axle load with bearing 30206/30209

GS 3606	55	215	4.000	3.400	0	3.700	3.100	0	3.400	2.900	0	6	M18 x 1,5	160	205
---------	----	-----	-------	-------	---	-------	-------	---	-------	-------	---	---	-----------	-----	-----

Unbraked axles up to 4.000 kg axle load with bearing 32207/30210

GS 4006	60	210	5.300	4.500	0	4.900	4.100	0	4.500	3.800	0	6	M18 x 1,5	160	205
---------	----	-----	-------	-------	---	-------	-------	---	-------	-------	---	---	-----------	-----	-----

Unbraked axles up to 5.500 kg axle load with bearing 32207/32013x

GS 5506	70	250	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	6	M18 x 1,5	160	205
GS 5506	80	370	7.000	6.000	5.500	6.500	5.500	5.000	6.500	5.000	4.500	6	M18 x 1,5	160	205
GS 5508	70	250	7.000	6.000	5.500	6.500	5.500	5.000	6.500	5.000	4.500	8	M20 x 1,5	220	275
GS 5508	80	370	7.000	6.000	5.500	6.500	5.500	5.000	6.500	5.000	4.500	8	M20 x 1,5	220	275

Unbraked axles up to 7.000 kg axle load with bearing 30210/32014x

GS 7006	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	6	M18 x 1,5	160	205
GS 7006	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	6	M18 x 1,5	160	205
GS 7008	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	8	M20 x 1,5	220	275
GS 7008	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	8	M20 x 1,5	220	275
GS 7008	120 x 15	645	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	8	M18 x 1,5	220	275

Unbraked axles up to 8.000 kg axle load with bearing 32213/32215

GS 8008	90	345	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	8	M20 x 1,5	220	275
GS 8008	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	8	M20 x 1,5	220	275
GS 8010	90	345	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	10	M22 x 1,5	280	335
GS 8010	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	10	M22 x 1,5	280	335

Unbraked axles up to 9.000 kg axle load with bearing 32213/32215

GS 9008	110 x 10*	305	11.500	10.000	9.000	10.500	9.000	8.500	9.500	8.500	8.000	8	M20 x 1,5	220	275
GS 9008	110 x 14	385	11.500	10.000	9.000	10.500	9.000	8.500	9.500	8.500	8.000	8	M20 x 1,5	220	275
GS 9010	110 x 10*	305	11.500	10.000	9.000	10.500	9.000	8.500	9.500	8.500	8.000	10	M22 x 1,5	280	335
GS 9010	110 x 14	385	11.500	10.000	9.000	10.500	9.000	8.500	9.500	8.500	8.000	10	M22 x 1,5	280	335

Unbraked axles up to 11.000 kg axle load with bearing 32310/33116

GS 11008	120 x 10	325	14.000	12.500	11.000	13.000	11.500	10.000	11.500	10.500	9.000	8	M20 x 1,5	220	275
GS 11008	120 x 15	420	14.000	12.500	11.000	13.000	11.500	10.000	11.500	10.500	9.000	8	M20 x 1,5	220	275
GS 11010	120 x 10	325	14.000	12.500	11.000	13.000	11.500	10.000	11.500	10.500	9.000	10	M22 x 1,5	280	335
GS 11010	120 x 15	420	14.000	12.500	11.000	13.000	11.500	10.000	11.500	10.500	9.000	10	M22 x 1,5	280	335

Unbraked axles up to 12.000 kg axle load with bearing 33213/33118

GS 12010	150 x 10	425	15.000	15.000	14.000	15.000	15.000	13.000	15.000	13.500	12.000	10	M22 x 1,5	280	335
GS 12010	150 x 16	565	15.000	15.000	14.000	15.000	15.000	13.000	15.000	13.500	12.000	10	M22 x 1,5	280	335

Unbraked axles up to 14.000 kg axle load with bearing 32219/33215

GS 14010	150 x 16	530	17.000	17.000	16.000	17.000	16.000	15.000	16.000	15.000	14.000	10	M22 x 1,5	280	335
GS 14010	150 x 20	615	17.000	17.000	16.000	17.000	16.000	15.000	16.000	15.000	14.000	10	M22 x 1,5	280	335
GS 14010	150 x 24	725	17.000	17.000	16.000	17.000	16.000	15.000	16.000	15.000	14.000	10	M22 x 1,5	280	335

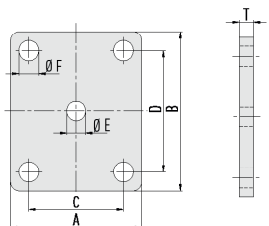
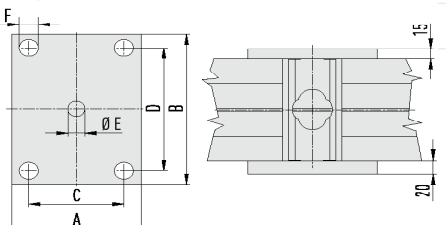
*The list of options does not apply for these versions. Options available on request.

Track: 1.500—2.300 mm in 50-mm increments. Other dimensions available on request.

Spring centre on request.

List of Options



Spring seat									
Designation								Representation / description	
without								—	
Spring seat for axle types GS 3006 — GS 8010									
Spring	Square	C	D	E	F	A	t		
80	70	101	125	20	21	140	15		
	80	101	135	20	21	140	15		
	90	101	145	20	21	140	15		
	100	101	155	20	21	140	15		
100	90	126	155	25	26	165	15		
	100	126	165	25	26	165	15		
Spring seat for axle types GS 9008 — GS 14010									
Spring	Square	C	D	F	A	B			
80	120	101	155	21	140	195			
100	120	125	150	26	175	200			
100	120	125	150	26	175	200			
100	150	125	180	25	170	220			
100	150	125	180	25	170	220			
100	150	125	180	25	170	220			

* Other spring seats available on request.

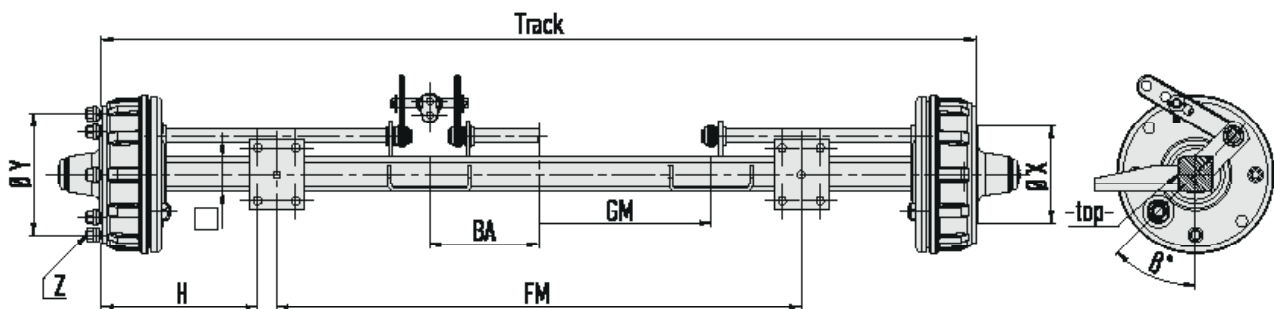
Preparation for central tire inflation system	
Designation	Representation / description
without	—
with	possible only for types GS 11010 (8) / GS 12010 / GS 14010

Twin tyres	
Designation	Representation / description
without	—
with	possible only for types GS 11010 (8) / GS 12010 / GS 14010

Sensor — SDS/ABS	
Designation	Representation / description
without	—
with	possible only for types GS 11010 (8) / GS 12010 / GS 14010

Special seal	
Designation	Representation / description
without	—
with	Sealing suitable for difficult conditions

Braked axles with solid axle beam



Designation	Axle cross-section (mm)	H	Static axle load (kg)									Brake	Wheel connection				
			25 km/h			40 km/h			60 km/h				Z	Ø X (mm)	Ø Y (mm)		
Braked axles up to 3.600 kg axle load																	
GS 3606	55	215	4.000	3.400	0	3.700	3.100	0	3.400	2.900	0	N 3006	6	M18 x 1,5	160	205	
Braked axles up to 4.000 kg axle load																	
GS 4006	60	210	5.300	4.500	0	4.900	4.100	0	4.500	3.800	0	N 3006	6	M18 x 1,5	160	205	
GS 4006	70	330	5.300	4.500	0	4.900	4.100	0	4.500	3.800	0	N 3006	6	M18 x 1,5	160	205	
Braked axles up to 5.500 kg axle load																	
GS 5506	70	250	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	N 3006	6	M18 x 1,5	160	205	
GS 5506	70	250	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	N 3108	6	M18 x 1,5	160	205	
GS 5506	80	370	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	N 3108	6	M18 x 1,5	160	205	
GS 5508	70	250	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	N 3108	8	M20 x 1,5	220	275	
GS 5508	80	370	7.000	6.000	5.500	6.500	5.500	5.000	6.000	5.000	4.500	N 3108	8	M20 x 1,5	220	275	
Braked axles up to 7.000 kg axle load																	
GS 7006	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3108	6	M18 x 1,5	160	205	
GS 7006	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3108	6	M18 x 1,5	160	205	
GS 7006	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	6	M20 x 1,5	220	275	
GS 7006	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	6	M20 x 1,5	220	275	
GS 7008	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3108	8	M20 x 1,5	220	275	
GS 7008	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3108	8	M20 x 1,5	220	275	
GS 7008	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	8	M20 x 1,5	220	275	
GS 7008	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	8	M18 x 1,5	220	275	
GS 7008	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	8	M20 x 1,5	220	275	
GS 7008	90	410	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	8	M18 x 1,5	220	275	
GS 7008	120 x 15*	645	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 3411	8	M18 x 1,5	220	275	
GS 7008	80	290	9.000	7.500	7.000	8.500	7.000	6.500	7.500	6.500	6.000	N 4008	8	M20 x 1,5	220	275	

* Hollow axle beam.

Braked axles up to 8.000 kg axle load																
GS 8008	90	345	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 3108	8	M20 x 1,5	220	275
GS 8008	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 3108	8	M20 x 1,5	220	275
GS 8008	90	345	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 4008	8	M20 x 1,5	220	275
GS 8008	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 4008	8	M20 x 1,5	220	275
GS 8008	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 3411	8	M20 x 1,5	220	275
GS 8010	90	345	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 4008	10	M22 x 1,5	280	335
GS 8010	100	475	11.000	9.500	8.500	10.000	8.500	8.000	9.000	8.000	7.500	N 4008	10	M22 x 1,5	280	335

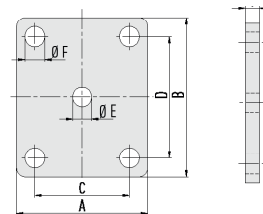
Track: 1.500–2.300 mm in 50-mm increments. Other dimensions available on request.

Spring centre / brake cylinder bracket centre on request.

List of Options



Spring seat								
Designation								
without								
Spring	Square	C	D	E	F	A	B	t
80	70	101	125	20	21	140	165	15
	80	101	135	20	21	140	175	15
	90	101	145	20	21	140	185	15
	100	101	155	20	21	140	195	15
100	90	126	155	25	26	165	195	15
	100	126	165	25	26	165	205	15



Brake cylinder bracket	
Designation	Representation / description
without	—
$\beta = 0^\circ$	

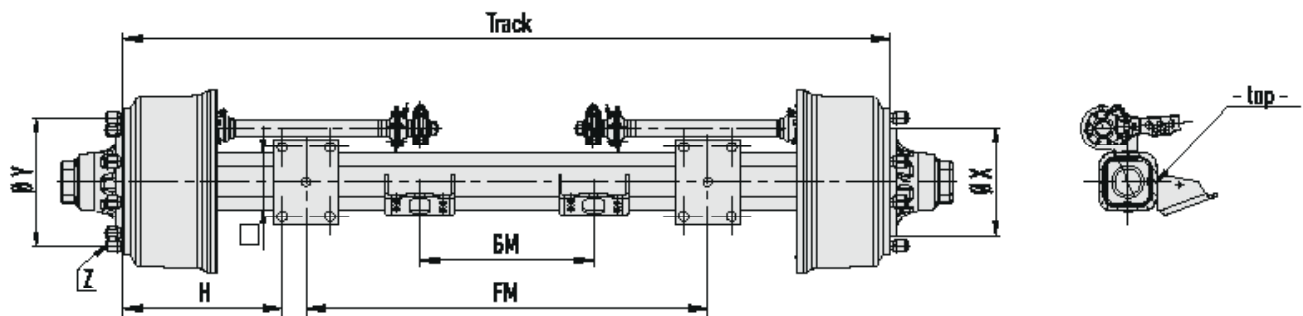
Brake equalisation	
Designation	Representation / description
without	Two brake cylinders
Middle	One brake cylinder BA = 0
Offset (left)	One brake cylinder BA = 250 mm
Offset (right)	One brake cylinder BA = 250 mm

Other BA dimensions on request

Brake lever	
Designation	Representation / description
without	—
Lever for direct operation (two cylinder / axle)	
Lever for brake equaliser (one cylinder / axle)	
Manual slack adjuster (MSA) for direct operation (two cylinder / axle)	
Manual slack adjuster (MSA) for brake equaliser (one cylinder / axle)	
Manual slack adjuster (MSA) for direct operation* (two cylinder / axle)	
Automatic slack adjuster (ASA)	

* Only for brakes N 3411 - 1.

Braked axles with hollow axle beam



Axle cross-section (mm)	H (mm)	Static axle load (kg)		Brake	Wheel connection		
		40 km/h	60 km/h		Z	Ø X (mm)	Ø Y (mm)

110 x 10*	305	9.000	10.500	8.500	8.500	9.500	8.000	N 3411	8	M20 x 1,5	220	275
110 x 14	385	9.000	10.500	8.500	8.500	9.500	8.000	N 3411	8	M20 x 1,5	220	275
110 x 10*	305	9.000	10.500	8.500	8.500	9.500	8.000	N 4012	8	M20 x 1,5	220	275
110 x 14	385	9.000	10.500	8.500	8.500	9.500	8.000	N 4012	8	M20 x 1,5	220	275
110 x 10*	305	9.000	10.500	8.500	8.500	9.500	8.000	N 4012	10	M22 x 1,5	280	335
110 x 14	385	9.000	10.500	8.500	8.500	9.500	8.000	N 4012	10	M22 x 1,5	280	335

120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	N 4008	8	M20 x 1,5	220	275
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	N 4008	8	M20 x 1,5	220	275
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	N 4012	8	M20 x 1,5	220	275
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	N 4012	8	M20 x 1,5	220	275
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	FL 4112	8	M22 x 1,5	220	275
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	FL 4112	8	M22 x 1,5	220	275
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	N 4008	10	M22 x 1,5	280	335
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	N 4008	10	M22 x 1,5	280	335
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	N 4012	10	M22 x 1,5	280	335
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	N 4012	10	M22 x 1,5	280	335
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	FL 4112	10	M22 x 1,5	280	335
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	FL 4112	10	M22 x 1,5	280	335
120 x 10	325	11.500	13.000	10.000	10.500	11.500	9.000	FL 4118	10	M22 x 1,5	280	335
120 x 15	420	11.500	13.000	10.000	10.500	11.500	9.000	FL 4118	10	M22 x 1,5	280	335

150 x 10	425	15.000	15.000	13.000	13.500	15.000	12.000	FL 4112	10	M22 x 1,5	280	335
150 x 16	565	15.000	15.000	13.000	13.500	15.000	12.000	FL 4112	10	M22 x 1,5	280	335
120 x 15	345	15.000	15.000	13.000	13.500	15.000	12.000	FL 4118	10	M22 x 1,5	280	335
150 x 10	425	15.000	15.000	13.000	13.500	15.000	12.000	FL 4118	10	M22 x 1,5	280	335
150 x 16	565	15.000	15.000	13.000	13.500	15.000	12.000	FL 4118	10	M22 x 1,5	280	335

150 x 16	530	16.000	17.000	15.000	15.000	16.000	14.000	FL 4118	10	M22 x 1,5	280	335
150 x 20	615	16.000	17.000	15.000	15.000	16.000	14.000	FL 4118	10	M22 x 1,5	280	335
150 x 24	725	16.000	17.000	15.000	15.000	16.000	14.000	FL 4118	10	M22 x 1,5	280	335

150 x 16		12.000 at 80 km/h						SN 4220	10	M22 x 1,5	280	335
----------	--	-------------------	--	--	--	--	--	---------	----	-----------	-----	-----

List of Options



Brake cylinder bracket			
Designation	Representation / description	Designation	Representation / description
without	—		
Brake cylinder bracket for GS 9000, Position of the diaphragm cylinder is above the axle		Brake cylinder bracket for GS 12000 / GS 14000, Position of the diaphragm cylinder is above the axle	
Brake cylinder bracket for GS 11000, Position of the diaphragm cylinder is above the axle		Brake cylinder bracket for GS 12000 / GS 14000, Position of the diaphragm cylinder is above the axle	
Brake cylinder bracket for GS 11000, Position of the diaphragm cylinder is above the axle		Brake cylinder bracket for GS 12000 / GS 14000, Position of the diaphragm cylinder is under the axle	
Brake cylinder bracket for GS 11000, Position of the diaphragm cylinder is under the axle		Brake cylinder bracket for GS 12000 / GS 14000, Position of the diaphragm cylinder is under the axle	

Spring seat								Representation / description
without								—
Spring seat								
Spring	Square	C	D	E	F	A	B	
80	120	101	155	20	21	140	195	
100	120	125	150	25	26	175	200	
	120	125	150	24	26	175	200	
	150	125	180	22	25	170	220	
	150	125	180	25	25	170	220	
Spring seat for 120 mm hollow axle beam (one spring seat on the axle)								
Spring seat for 150 mm hollow axle beam (one spring seat on the axle)								

List of Options



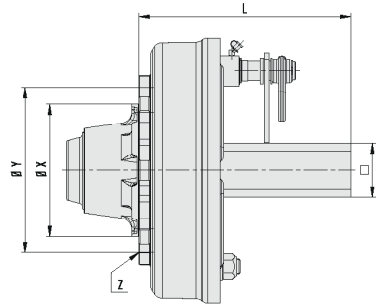
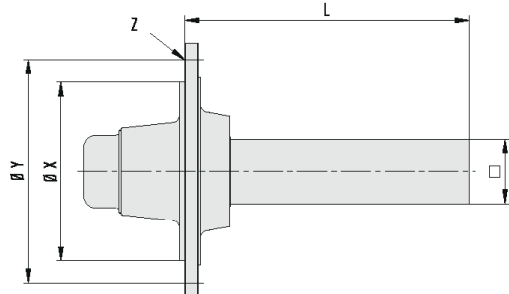
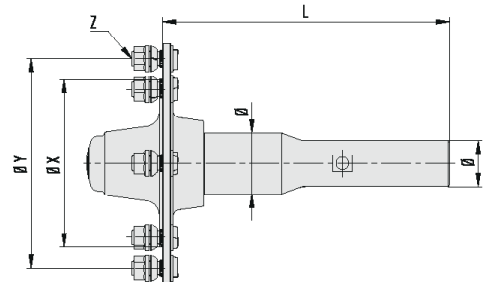
Brake lever				
Designation	Representation / description	Code	Designation	Representation / description
without	—			
Manual slack adjuster (MSA) 1		3	Automatic slack adjuster (ASA) 1	
Manual slack adjuster (MSA) 2		4	Automatic slack adjuster (ASA) 2	

Preparation for central tyre inflation		
Designation	Description	Representation
without	—	—
with	Not possible for GS 9000	

Twin tyres	
Designation	Representation
without	—
with	

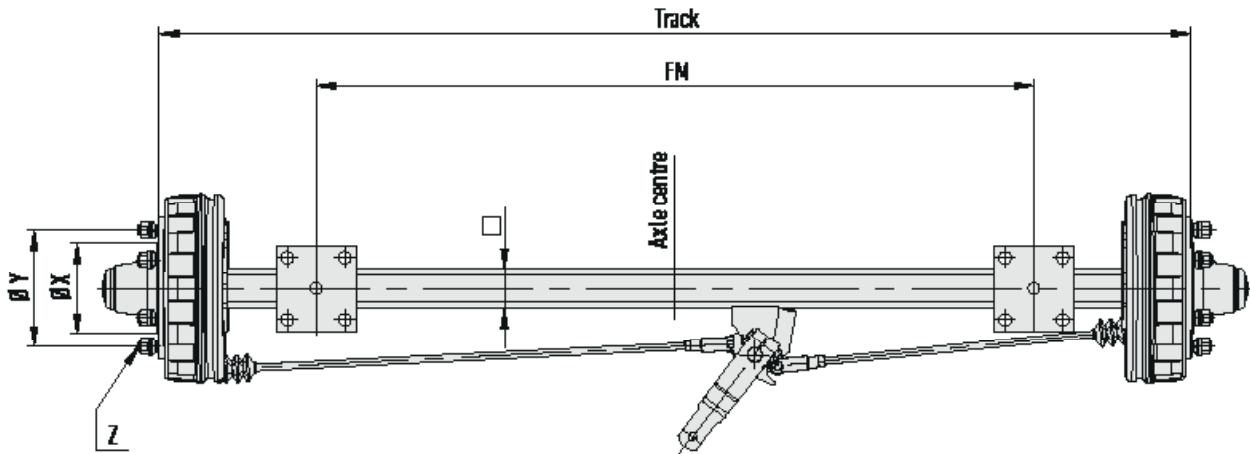
Sensor — SDS/ABS	
Designation	Representation / description
without	—
with	Possible sensor variants SDS/ABS see page 107

Braking axle stub

Braked Solid axle beam or hollow axle beam	
The same variants and options are available as with the other axles. See page: 35 Length (L): on request	
Unbraked Solid axle beam or hollow axle beam	
The same variants and options are available as with the other axles. See page: 33 Length (L): on request	
Special versions	
With solid axle stub, the round axle beam is also possible. Length (L) and diameter (Ø) on request	

Axles

with reversing mechanism



Axle type	Axle cross-section (mm)	H (mm)	Static axle load (kg)		Brake	Wheel connection		
			25 km/h	40 km/h		Z	Ø X (mm)	Ø Y (mm)



Braked axles with wedge-type brake up to 3.600 kg axle load

GS 3606	55	215	4.000	3.400	0	3.700	3.100	0	S 3006-7 RASK	6	M18 x 1,5	160	205
GS 3606	55	215	4.000	3.400	0	3.700	3.100	0	S 3006-7 RAZG	6	M18 x 1,5	160	205

Braked axles with wedge-type brake up to 4.000 kg axle load

GS 4006	60	330	5.300	4.500	0	4.900	4.100	0	S 3006-7 RASK	6	M18 x 1,5	160	205
GS 4006	60	330	5.300	4.500	0	4.900	4.100	0	S 3006-7 RAZG	6	M18 x 1,5	160	205
GS 4006	60	330	5.300	4.500	0	4.900	4.100	0	S 3006-7 ZG	6	M18 x 1,5	160	205

Braked axles with wedge-type brake up to 5.500 kg axle load

GS 5506	70	250	7.000	6.000	5.500	6.500	5.500	5.000	S 3006-7 RASK	6	M18 x 1,5	160	205
GS 5506	80	370	7.000	6.000	5.500	6.500	5.500	5.000	S 3006-7 RASK	6	M18 x 1,5	160	205
GS 5506	70	250	7.000	6.000	5.500	6.500	5.500	5.000	S 3006-7 RAZG	6	M18 x 1,5	160	205
GS 5506	80	370	7.000	6.000	5.500	6.500	5.500	5.000	S 3006-7 RAZG	6	M18 x 1,5	160	205

RASK: Reversing mechanism with cable tubes: equipping of the axle with Bowden brake cable

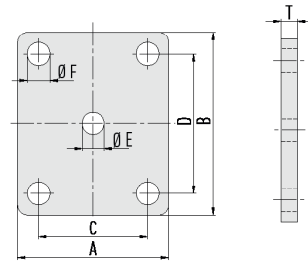
RAZG: Reversing mechanism with brake linkage: equipping of the axle with brake linkage

ZG: Brake linkage without reversing mechanism

List of Options



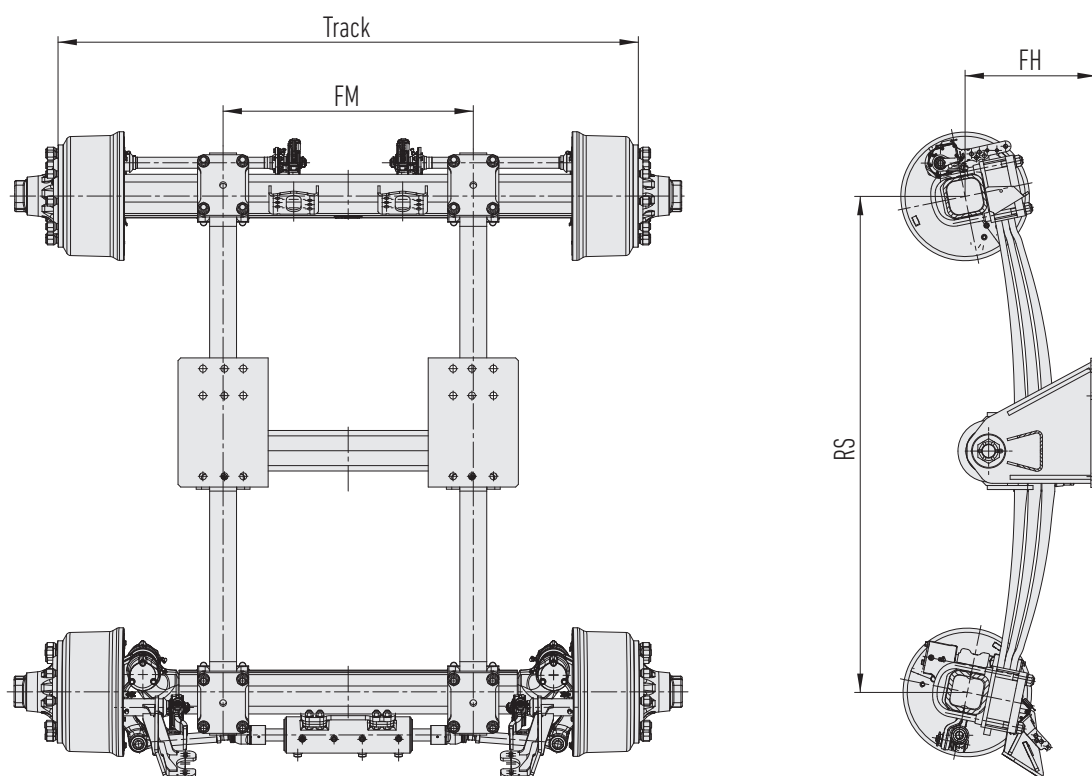
Spring seat								
Designation								
without								
Spring seat								
Spring	Square	C	D	E	F	A	B	t
80	70	101	125	20	21	140	165	15
	80	101	135	20	21	140	175	15



Brake lever	
Designation	Representation / description
without	—
top	
bottom	

Brake equalisation	
Designation	Representation / description
without	—
Middle	
offset — left BA = 250	
offset — right BA = 250	

Bogie suspension unit



Axle type	Axle cross-section Front axle (mm)	Axle cross-section Rear axle (mm)	Static suspension unit load (kg)		Brake	Wheel connection
			40 km/h	60 km/h		
GSBW (LA) 7006/7008*						
GSBW 7006	90	90	13.000	12.000	unbraked	6 x M18 x 1,5 — 160/205
GSBW 7006	90	90	13.000	12.000	N 3411	6 x M18 x 1,5 — 160/205
GSBW 7008	90	90	13.000	12.000	unbraked	8 x M20 x 1,5 — 220/275
GSBW 7008	90	90	13.000	12.000	N 3411	8 x M20 x 1,5 — 220/275
GSBW (LA) 9008/9010*						
GSBW 9008	110 x 14	110 x 14	17.000	16.000	unbraked	8 x M20 x 1,5 — 220/275
GSBW 9008	110 x 14	110 x 14	17.000	16.000	N 3411-1	8 x M20 x 1,5 — 220/275
GSBW 9008	110 x 14	110 x 14	17.000	16.000	N 4012-4	8 x M20 x 1,5 — 220/275
GSBW 9010	110 x 14	110 x 14	17.000	16.000	unbraked	10 x M22 x 1,5 — 280/335
GSBW 9010	110 x 14	110 x 14	17.000	16.000	N 4012-4	10 x M22 x 1,5 — 280/335
GSBW (LA) 11008/11010						
GSBW 11008	120 x 10(15)	120 x 10(15)	20.000	18.000	unbraked	8 x M20 x 1,5 — 220/275
GSBW 11008	120 x 10(15)	120 x 10(15)	20.000	18.000	N 4012	8 x M20 x 1,5 — 220/275
GSBW 11008	120 x 10(15)	120 x 10(15)	20.000	18.000	FL 4112	8 x M20 x 1,5 — 220/275
GSBW 11010	120 x 10(15)	120 x 10(15)	20.000	18.000	unbraked	10 x M22 x 1,5 — 280/335
GSBW 11010	120 x 10(15)	120 x 10(15)	20.000	18.000	N 4012	10 x M22 x 1,5 — 280/335
GSBW 11010	120 x 10(15)	120 x 10(15)	20.000	18.000	FL 4112	10 x M22 x 1,5 — 280/335
GSBW 11010	120 x 10(15)	120 x 10(15)	20.000	18.000	FL 4118	10 x M22 x 1,5 — 280/335
GSBW (LL) 12010						
GSBW 12010	150 x 10(16)	150 x 10(16)	26.000	24.000	unbraked	10 x M22 x 1,5 — 280/335
GSBW 12010	150 x 10(16)	150 x 10(16)	26.000	24.000	FL 4118	10 x M22 x 1,5 — 280/335

* The list of options does not apply for these versions. Variants available on request.

Track widths, spring centres on request.

Axle loads dependent on the ratio track / spring centre and the tyres.

26 tonnes (Heavy-Duty version) is only possible with reinforced support and spring (HD) and with steering axle.

List of Options



Spring mounting kit	
Designation	Representation / description
F0 spring mounted upon the axle	
FU spring mounted below the axle	

RS — Wheel base (mm)	
Designation	Representation / description
1.450	—
1.540	Available up to a load of 20 tonnes
1.600	—
1.900	—

Head plate — Hole pattern	
Designation	Representation / description
without drilled holes	
with drilled holes	

List of Options



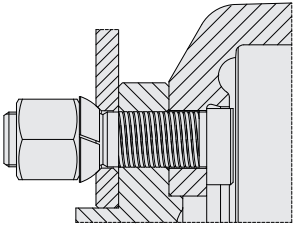
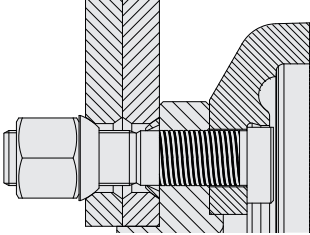
FH - Ride height (mm) — up to 20 tonnes										
Designation	Representation / description									
Wheel base (spring)	1450		1540		1600		1900			
hanger bracket height	FU	FO	FU	FO	FU	FO	FU	FO	—	—
300	—	—	154	374	—	—	—	—	—	—
370	231	443	224	444	231	454	240	464	—	—
400	261	473	254	474	261	484	270	494	—	—

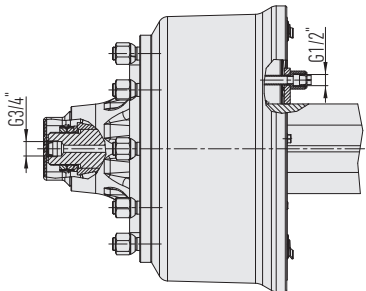
FH — Ride height (mm) — up to 20 - 26 tonnes										
Wheel base (spring)	1450		1600		1600 HD		1900		1900 HD	
hanger bracket height	FU	FO	FU	FO	FU	FO	FU	FO	FU	FO
400		465	219	476	—	—	223	486	—	—
430	232	495	249	506	—	—	253	517	—	—
430 HD	232	495	—	—	240	505	—	—	224	495
470	272	535	287	546	—	—	291	557	—	—
530	332	—	347	—	—	—	353	—	—	—
530 HD	332	—	—	—	340	—	—	—	322	—

Version	
Designation	Representation
Rigid axle — rigid axle not possible with wheel base of 1.900 mm	—
Rigid axle — steering axle	—

Steering axle		
Designation	Description	Representation
without	—	—
Self-steering axle	Locking cylinder — only up to 12 tonnes axle load	
Self-steering axle Self-steering	Combination cylinder — possible only for types GS 11010 (8) and GS 12010	
Self-steering axle Forced-steering	Combination cylinder — possible only for types GS 11010 (8) and GS 12010	
Forced-steering axle	Possible only for types GS 11010 (8) and GS 12010	

Brake lever	
Designation	Representation / description
Manual slack adjuster	The use of manual slack adjuster or automatic slack adjuster depends on the brake cylinder bracket solution, the tyre size and the free space. Should be checked in the 3D model.
Automatic slack adjuster	

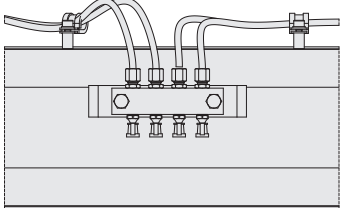
9 Twin tyres			
Code	Designation	Description	Representation
0	without	—	
1	with	possible only for types GS 11010 (8) and GS 12010	

10 Preparation for central tyre inflation (CTIS)			
Code	Designation	Description	Representation
0	without	—	
1	with	possible only for types GS 11010 (8) and GS 12010	

Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

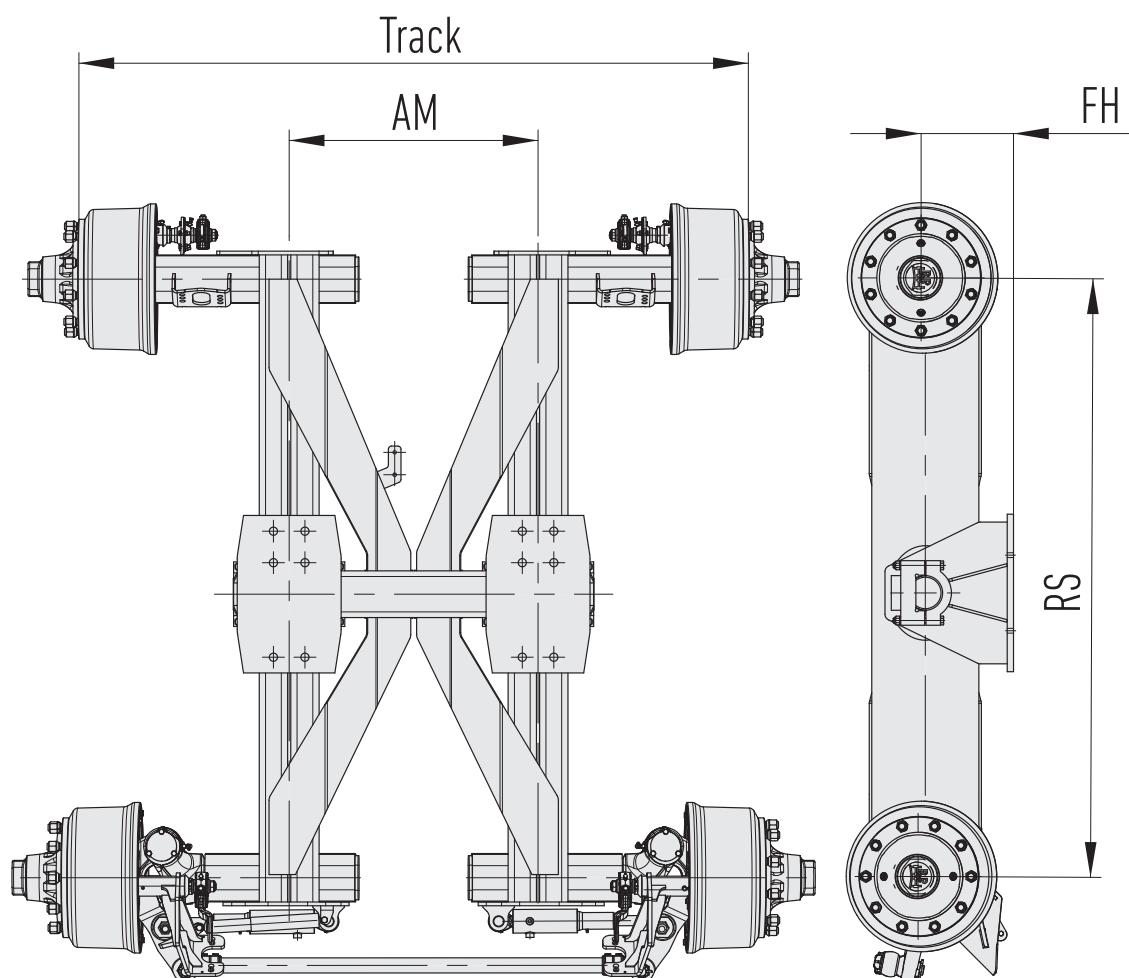
Sensor — SDS/ABS — Steering axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Sensor — Steering angle	
Designation	Representation / description
without	—
with	possible sensors — see page 109 / possible only for types GS 11010 (8) and GS 12010

Central lubrication system	
Designation	Representation / description
without	—
with (for specific lubrication points, further consultation is necessary)	

Brake cylinder	
Designation	Representation / description
without	—
with	The size of the brake cylinder is determined by the brake calculation

Pendle suspension unit



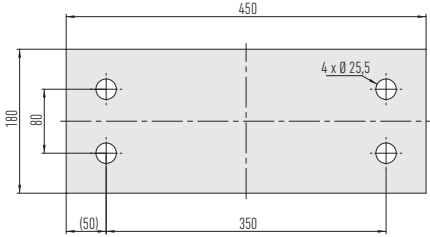
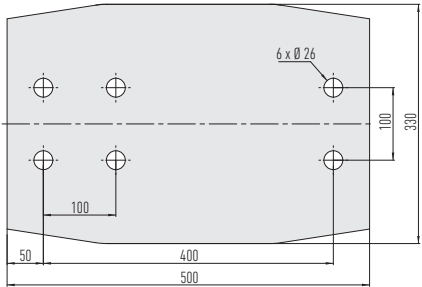
Axle type	Axle cross-section (mm)	Static axle unit load		Brake	Ride height FH (mm)	Wheel connection
		25 km/h	40 km/h			
GSSTP(LS) 8008/8010						
GSSTP 8008	100	16.000	14.000	unbraked	284	8 x M20 x 1,5 - 220/275
GSSTP 8008	100	16.000	14.000	N 4008-4	284	8 x M20 x 1,5 - 220/275
GSSTP 8008	100	16.000	14.000	N 3411	284	8 x M20 x 1,5 - 220/275
GSSTP 8010	100	16.000	14.000	unbraked	284	10 x M22 x 1,5 - 280/335
GSSTP 8010	100	16.000	14.000	N 4008-4	284	10 x M22 x 1,5 - 280/335
GSSTP(LS) 11008/11010						
GSSTP 11008	120 x 10(15)	21.000	20.000	unbraked	280	8 x M20 x 1,5 - 220/275
GSSTP 11008	120 x 10(15)	21.000	20.000	FL 4112	280	8 x M20 x 1,5 - 220/275
GSSTP 11010	120 x 10(15)	21.000	20.000	unbraked	280	10 x M22 x 1,5 - 280/335
GSSTP 11010	120 x 10(15)	21.000	20.000	FL 4112	280	10 x M22 x 1,5 - 280/335
GSSTP(LS) 12010						
GSSTP 12010	150 x 16	27.000	27.000	unbraked	280	10 x M22 x 1,5 - 280/335
GSSTP 12010	150 x 16	27.000	27.000	FL 4118	280	10 x M22 x 1,5 - 280/335

Track widths on request.

Axle loads dependent on the ratio track / spring centre and the tyres.

List of Options

RS — Wheel base (mm) — GSSTP 8008 (10)	
Designation	Representation / description
1.350	—
1.500	—
RS — Wheel base (mm) — GSSTP 11008 (10)	
Designation	Representation / description
1.300	max. axle unit load 18 tonnes at 40 km/h — possible with hole pattern 2
1.550	—
RS — Wheel base (mm) — GSSTP 12010	
Designation	Representation / description
1.550	—
1.900	—

Head plate — Hole pattern	
Designation	Representation / description
without drilled holes	
with borehole for GSTP 8008 (10) / 11008 (10)	
with borehole for GSTP 11008 (10) / 12010	

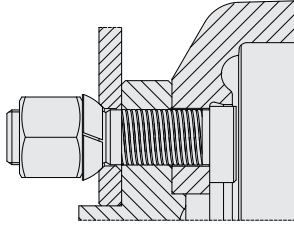
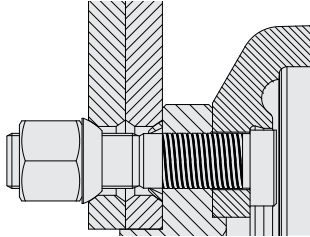
List of Options



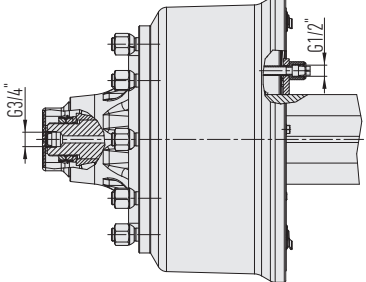
AM — support centre (mm)	
Designation	Representation / description
1.100	Possible only for type GSSTP 8008 (10)
790	
890	
other dimension	Check required

Version	
Designation	Representation / description
rigid	Rigid axle— rigid axle not possible with wheel base of 1.900 mm
steered	Rigid axle — steered

Steering axle	
Designation	Representation / description
without	—
Self-steering axle	—
Forced-steering axle	—

Twin tyres		
Designation	Description	Representation
without	—	
with	possible only for types GS 11010 (8) and GS 12010	

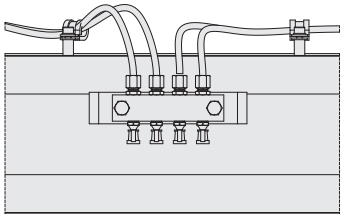


Preparation for central tyre inflation (CTIS)		
Designation	Representation / description	
without	—	
with	possible only for types GS 11010 (8) and GS 12010	

Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Sensor — SDS/ABS — Steering axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Sensor — Steering angle	
Designation	Representation / description
without	—
with	possible sensors — see page 109 possible only for types GS 11010 (8) and GS 12010

Central lubrication system	
Designation	Representation / description
without	—
with (for specific lubrication points, further consultation is necessary)	

Brake cylinder	
Designation	Representation / description
without	—
with	The size of the brake cylinder is determined by the brake calculation

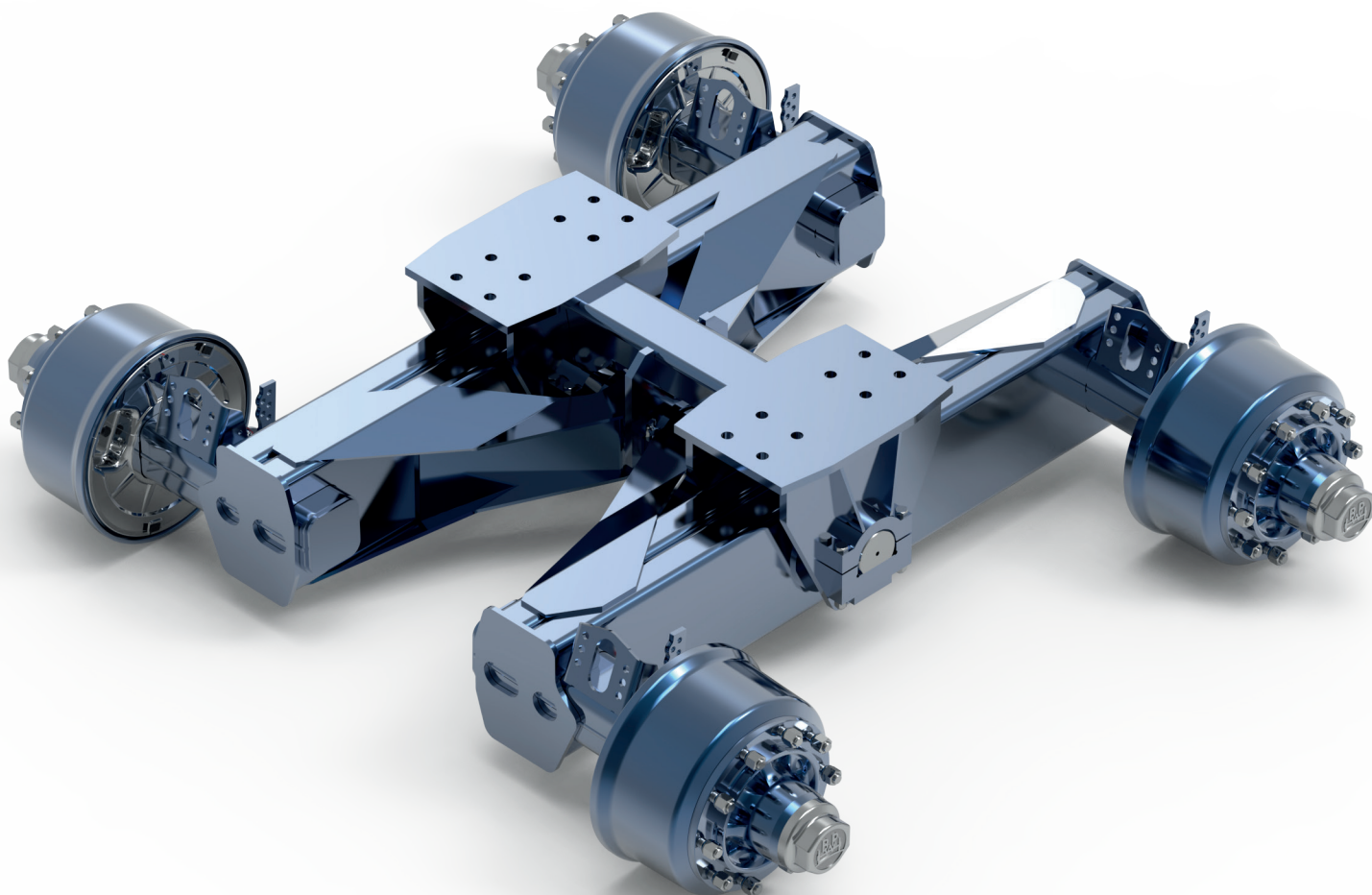
AGRO Robust

Axle type	Axle cross-section (mm)	Version	Track	Support centre AM (mm)	Static axle load	Brake	Ride height FH (mm)	Wheel connection
					40 km/h			
GSSTP 14010	150 x 20	A	1.900	790	30.000	FL 4118	280	M22 x 1,5 – 280/335
GSSTP 14010	150 x 20	B	1.950	790	30.000	FL 4118	280	M22 x 1,5 – 280/335
GSSTP 14010	150 x 20	A	2.050	890	30.000	FL 4118	280	M22 x 1,5 – 280/335

Axle loads dependent on the ratio track / spring centre and the tyres.

Track widths on request.

Steered version on request.



List of Options



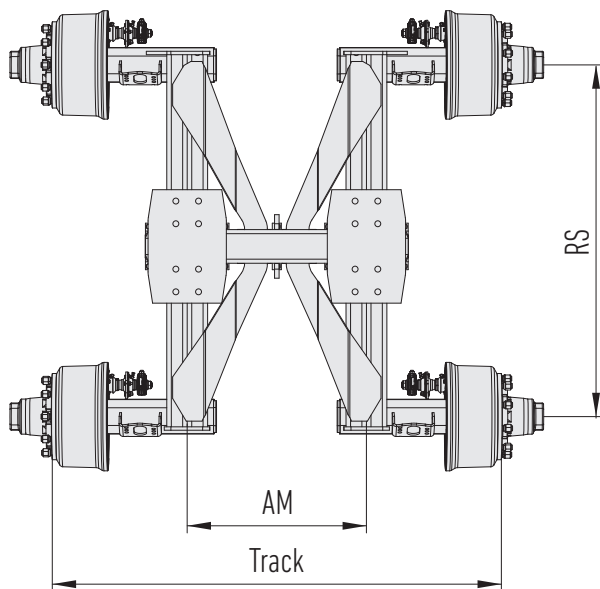
Preparation for central tyre inflation (CTIS)	
Designation	Representation / description
without	—
with	—

Central lubrication system	
Designation	Representation / description
without	—
with	—

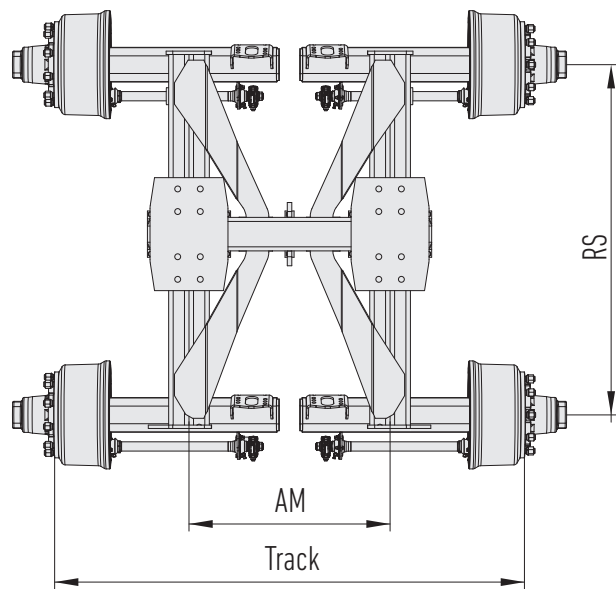
Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Brake cylinder	
Designation	Representation / description
without	—
with	The size of the brake cylinder is determined by the brake calculation

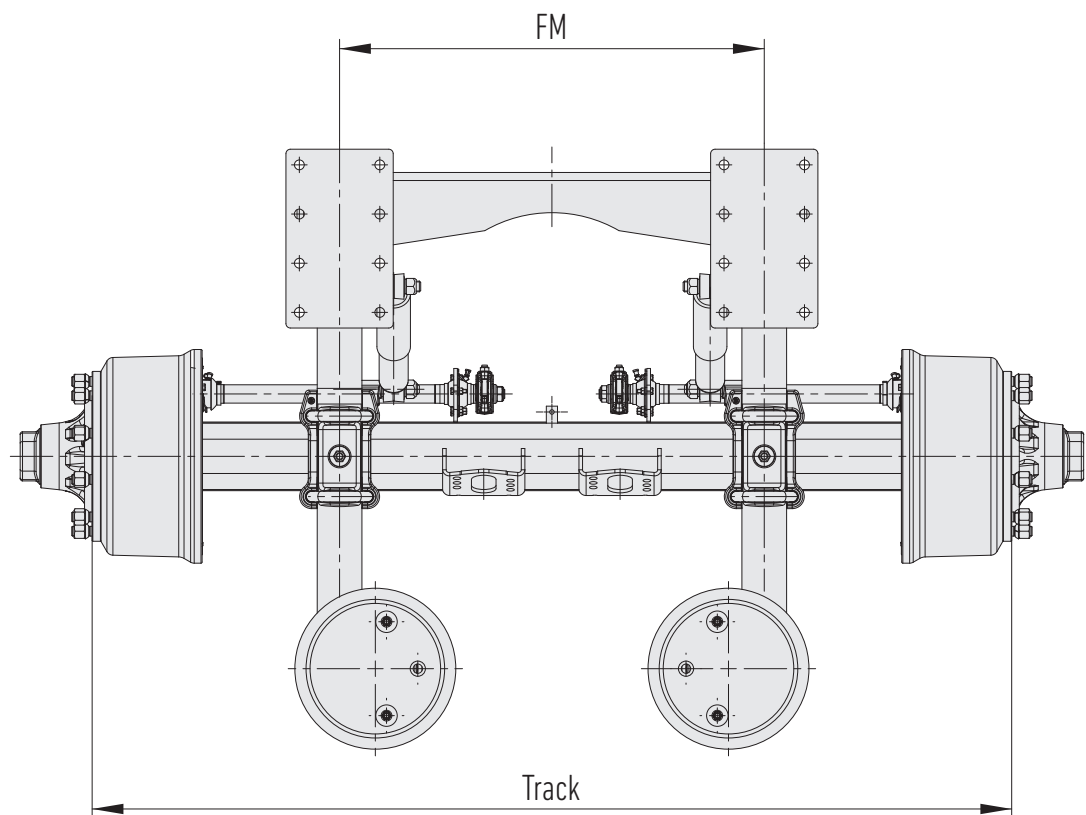
Version A



Version B



Air suspension unit

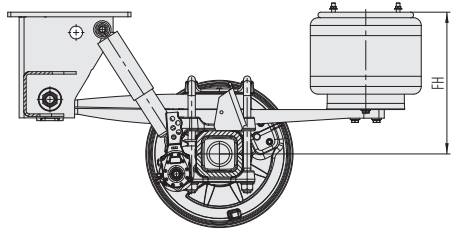
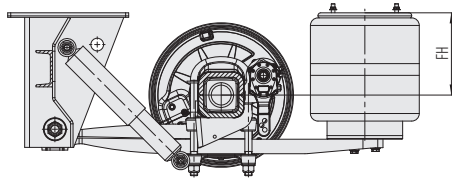


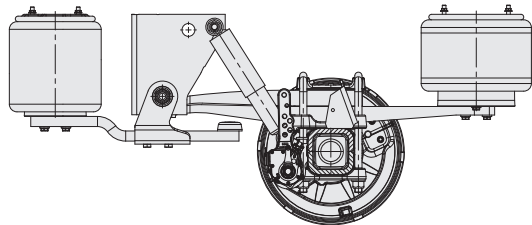
Axle type	Axle cross-section (mm)	Static axle load (kg)			Brake	Wheel connection
		40 km/h	60 km/h	80 km/h		
GSSL0/U 9008/9010						
GSSL0(U) 9008	110 x 14	8.500	8.000	—	unbraked	8 x M20 x 1,5 — 220/275
GSSL0(U) 9008	110 x 14	8.500	8.000	—	N 3411-1	8 x M20 x 1,5 — 220/275
GSSL0(U) 9008	110 x 14	8.500	8.000	—	N 4012-4	8 x M20 x 1,5 — 220/275
GSSL0(U) 9010	110 x 14	8.500	8.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSSL0(U) 9010	110 x 14	8.500	8.000	—	N 4012-4	10 x M22 x 1,5 — 280/335
GSSL0/U 11008/11010						
GSSL0(U) 11008	120 x 15	10.000	9.000	—	unbraked	8 x M20 x 1,5 — 220/275
GSSL0(U) 11008	120 x 15	10.000	9.000	—	N 4012	8 x M20 x 1,5 — 220/275
GSSL0(U) 11008	120 x 15	10.000	9.000	—	FL 4112	8 x M20 x 1,5 — 220/275
GSSL0(U) 11010	120 x 15	10.000	9.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSSL0(U) 11010	120 x 15	10.000	9.000	—	N 4012	10 x M22 x 1,5 — 280/335
GSSL0(U) 11010	120 x 15	10.000	9.000	—	FL 4112	10 x M22 x 1,5 — 280/335
GSSL0/U 12010						
GSSL0(U) 12010	150 x 16	13.000	12.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSSL0(U) 12010	150 x 16	13.000	12.000	—	FL 4118	10 x M22 x 1,5 — 280/335
GSSL0(U) 12010	150 x 16	—	—	12.000	SN4220	10 x M22 x 1,5 — 280/335
GSSL0/U 14010						
GSSL0(U) 14010	150 x 16	14.000	14.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSSL0(U) 14010	150 x 16	14.000	14.000	—	FL 4118	10 x M22 x 1,5 — 280/335
GSSL0(U) 14010	150 x 20	14.000	14.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSSL0(U) 14010	150 x 20	14.000	14.000	—	FL 4118	10 x M22 x 1,5 — 280/335

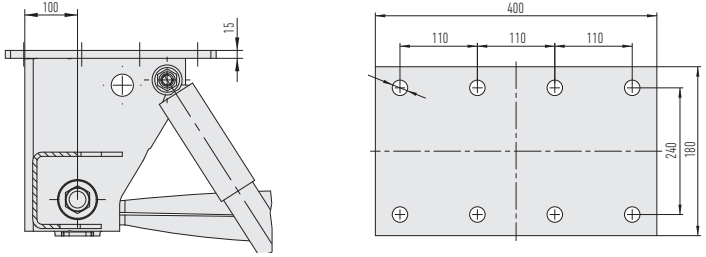
Track widths, spring centres on request.

Axle loads dependent on the ratio track / spring centre and the tyres.

List of Options

Spring mounting kit	
Designation	Representation / description
SLO spring mounted upon the axle	
SLU spring mounted below the axle	

Lift axle	
Designation	Representation / description
without	
with	

Head plate — Hole pattern	
Designation	Representation / description
without	
with head plate	

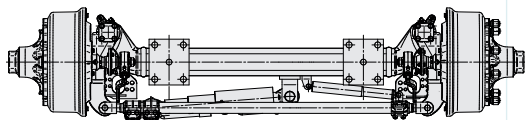
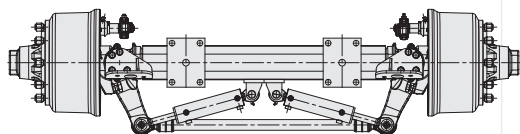
List of Options

FH — Ride height (mm) — GS 9000				
Designation	Representation / description			
Wheel base (spring) hanger bracket height	SLO		SLU	
	without plate	with plate	without plate	with plate
184	395–425	—	190–225	—
268	425–505	—	225–305	—
268	455–505	—	205–305	—

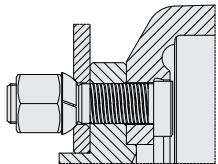
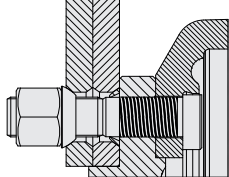
FH — Ride height (mm) — GS 11000				
Designation	Representation / description			
Wheel base (spring) hanger bracket height	SLO		SLU	
	without plate	with plate	without plate	with plate
184	414–439	421–454	—	—
268	474–523	480–538	217–267	224–282
302	—	—	230–301	237–316
370	—	—	283–369	290–384

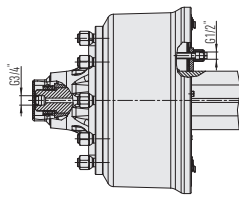
FH — Ride height (mm) — GS 12000/GS 14000				
Designation	Representation / description			
Wheel base (spring) hanger bracket height	SLO		SLU	
	without plate	with plate	without plate	with plate
184	430–455	435–470	—	—
268	488–538	495–553	175–252	182–267
302	—	—	215–286	222–301
370	—	—	268–351	275–370

Version	
Designation	Representation / description
1	rigid
2	steered

Steering axle		
Designation	Description	Representation
without	—	—
Self-steering axle	Locking cylinder — only up to 12 tonnes axle load	
Self-steering axle Self-steering	Combination cylinder — possible only for types GS 11010 (8) and GS 12010	
Self-steering axle Forced-steering	Combination cylinder — possible only for types GS 11010 (8) and GS 12010	
Forced-steering axle	Possible only for types GS 11010 (8) and GS 12010	

Brake lever	
Designation	Representation / description
Manual slack adjuster	The use of manual slack adjuster or automatic slack adjuster depends on the brake cylinder bracket solution, the tyre size and the free space. Should be checked in the 3D model.
Automatic slack adjuster	

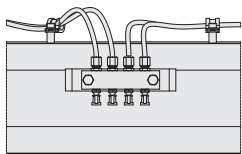
Twin tyres		
Designation	Description	Representation
without	—	
with	not possible for type GS 9000	

Preparation for central tyre inflation (CTIS)		
Designation	Representation / description	
without	—	
with	not possible for type GS 9000	

Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

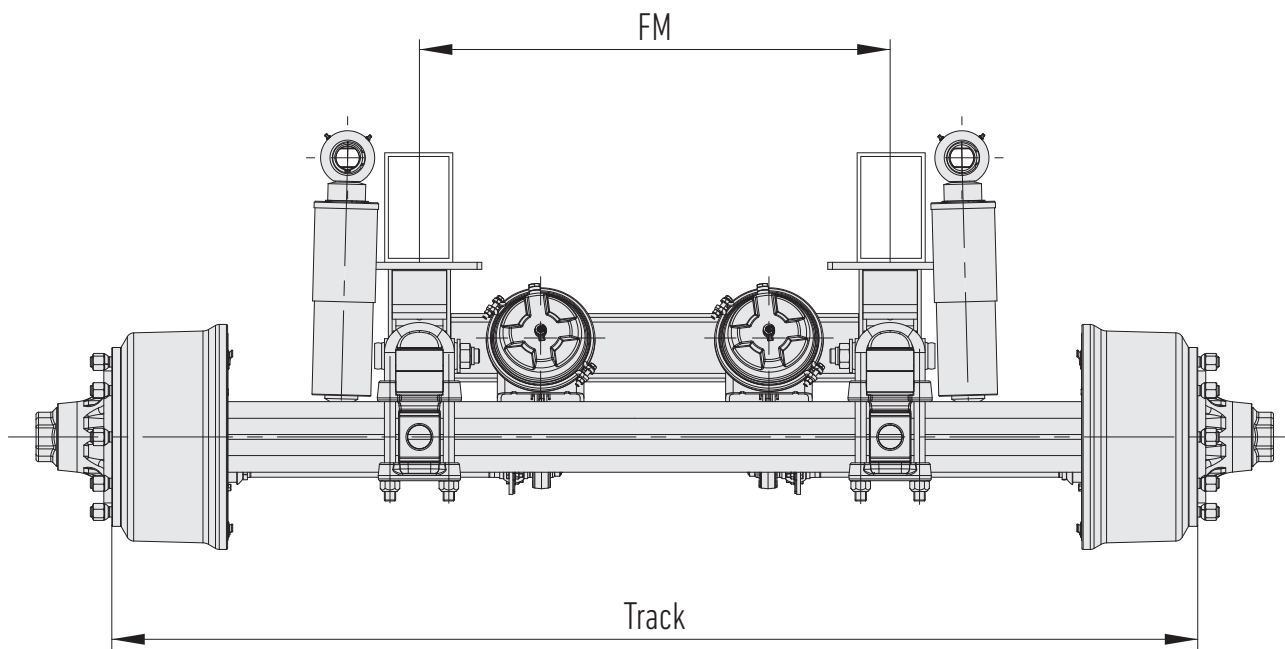
Sensor — SDS/ABS — Steering axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Sensor - Steering angle	
Designation	Representation / description
without	—
with	possible sensors — see page 109 possible only for types GS 11010 (8) / GS 12010 / GS 14010

Central lubrication system		
Designation	Description	Representation
without	—	
with	not possible for type GS 9000 (for specific lubricating points further consultation is necessary)	

Brake cylinder	
Designation	Representation / description
without	—
with	The size of the brake cylinder is determined by the brake calculation

Hydro-pneumatic suspension unit



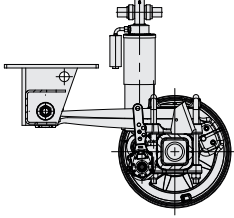
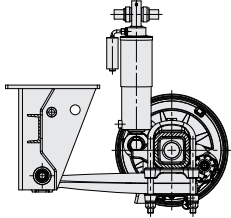
Axle type	Axle cross-section (mm)	Static axle load			Brake	Wheel connection
		40 km/h	60 km/h	80 km/h		
GSOH(LA) 11008/11010						
GSOH 11008	120 x 15	10.000	9.000	—	unbraked	8 x M20 x 1,5 — 220/275
GSOH 11008	120 x 15	10.000	9.000	—	FL 4112	8 x M20 x 1,5 — 220/275
GSOH 11010	120 x 15	10.000	9.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSOH 11010	120 x 15	10.000	9.000	—	FL 4112	10 x M22 x 1,5 — 280/335
GSOH(LL) 12010						
GSOH 12010	150 x 16	13.000	12.000	—	unbraked	10 x M22 x 1,5 — 280/335
GSOH 12010	150 x 16	13.000	12.000	—	FL 4118	10 x M22 x 1,5 — 280/335
GSOH 12010	150 x 16	—	—	12.000	SN4220	10 x M22 x 1,5 — 280/335
GSOH(LL) 14010						
GSOH 14010	150 x 16	14.000	—	—	unbraked	10 x M22 x 1,5 — 280/335
GSOH 14010	150 x 16	14.000	—	—	FL 4118	10 x M22 x 1,5 — 280/335
GSOH 14010	150 x 20	14.000	—	—	unbraked	10 x M22 x 1,5 — 280/335
GSOH 14010	150 x 20	14.000	—	—	FL 4118	10 x M22 x 1,5 — 280/335

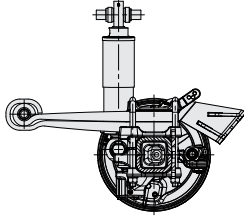
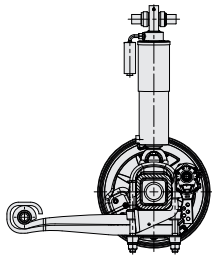
Track widths, spring centres on request.

Axle loads dependent on the ratio track / spring centre and the tyres.

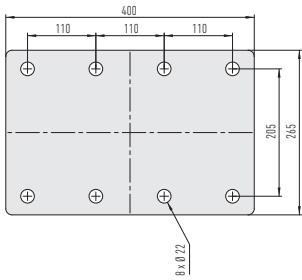
List of Options



Spring mounting kit	
Designation	Representation / description
FO spring mounted upon the axle	
FU spring mounted below the axle	

Cylinder position	
Designation	Representation / description
HP cylinder in front of the axle	
HP cylinder on the axle	

This option must be coordinated with the engineering department.

Head plate — Hole pattern	
Designation	Representation / description
without head plate	—
with head plate	

List of Options



FH — Ride height (mm) — GS 11000				
Designation	Representation / description			
Hanger bracket height	FO		FU	
	without plate	with plate	without plate	with plate
without support	Trailing arm is mounted on the axle			
184	336	351	—	—
268	420	435	—	—
302	—	—	—	—
370	—	—	—	—

FH — Ride height (mm) — GS 12000				
Designation	Representation / description			
Hanger bracket height	FO		FU	
	without plate	with plate	without plate	with plate
without support	Trailing arm is mounted on the axle			
184	356	371	—	—
268	440	455	—	—
302	474	489	194	209
370	—	—	262	277

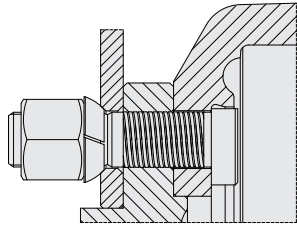
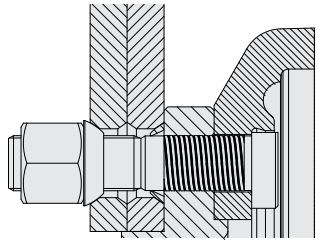
FH — Ride height (mm) — GS 14000				
Designation	Representation / description			
Hanger bracket height	FO		FU	
	without plate	with plate	without plate	with plate
without support	Trailing arm is mounted on the axle			
184	378	393	—	—
268	462	477	—	—
302	—	—	172	187
370	—	—	240	255

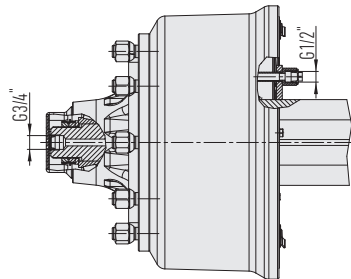
Cylinder installation dimension	
Designation	Representation / description
577 mm STROKE: 185 mm	
595 mm STROKE: 210 mm	

Version	
Designation	Representation / description
rigid	—
steered	—

Steering axle	
Designation	Representation / description
without	—
Self-steering axle	Locking cylinder — not possible for type GS 14000
Self-steering axle	Combination cylinder
Forced-steering axle	Combination cylinder

Brake lever	
Designation	Representation / description
Manual slack adjuster	The use of manual slack adjuster or automatic slack adjuster depends on the brake cylinder bracket solution, the tyre size and the free space. Should be checked in the 3D model.
Automatic slack adjuster	

Twin tyres		
Designation	Description	Representation
without	—	
with	—	

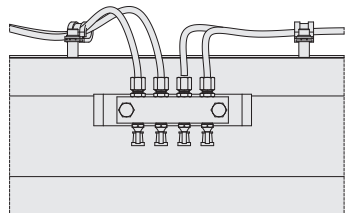
Preparation for central tyre inflation (CTIS)		
Designation	Description	Representation
without	without	
with	with	

Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

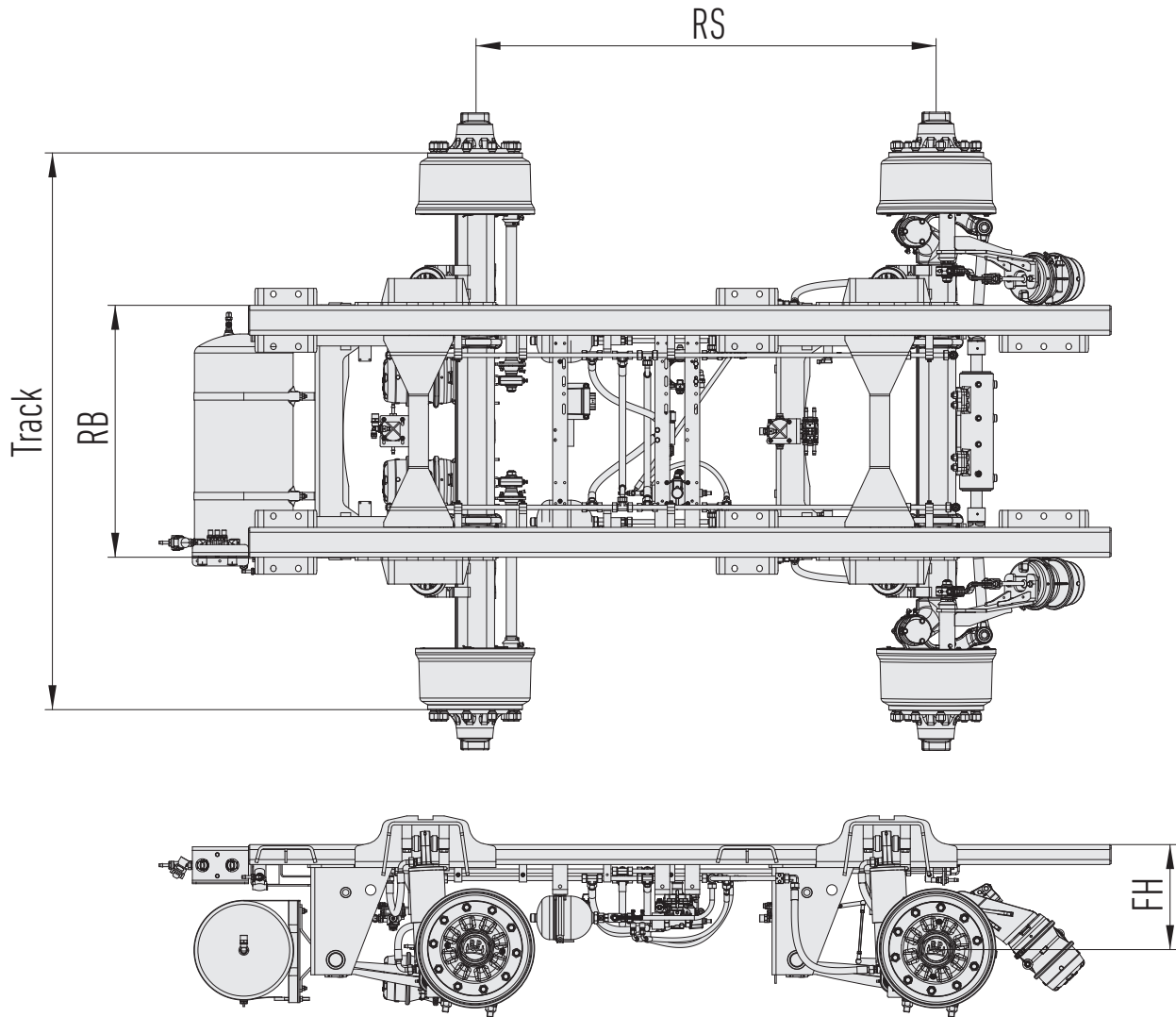
Sensor — SDS/ABS — Steering axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Sensor — Steering angle	
Designation	Representation / description
without	—
with	possible sensors — see page 109, possible for types GS 12010 and GS 14010

Brake cylinder	
Designation	Representation / description
without	—
with	The size of the brake cylinder is determined by the brake calculation

Central lubrication system	
Designation	Representation / description
without	—
with (for specific lubrication points, further consultation is necessary)	

AGRO FlexFrame



Suspension	Version	Axle cross-section (mm)	Static axle unit load	Brake	Track (mm)	Wheel base RS (mm)	Frame width RB (mm)
			40 km/h				
HP	Tandem	150 x 16	24.000	FL 4118	2.225	1.850	1.010
HP	Tandem	150 x 16	24.000	FL 4118	2.200	2.000	970
HP	Tandem	150 x 16	24.000	FL 4118	2.100	2.000	870
Air	Tandem	150 x 16	24.000	FL 4118	2.225	1.850	1.010
Air	Tandem	150 x 16	24.000	FL 4118	2.150	1.850	1.010
Air	Tandem	150 x 16	24.000	FL 4118	2.050	1.850	835
HP	Tridem	150 x 16	36.000	FL 4118	2.200	1.850	970

AGRO FlexFrame tandem version is always manufactured with one rigid axle and one steering axle (AGRO Turn).

AGRO FlexFrame tridem version is always manufactured with one rigid axle and two steering axles (AGRO Turn).

Axle loads dependent on the ratio track / spring centre and the tyres.

List of Options



HP suspension	
Designation	Representation / description
without	—
HP Basic	Hydraulic accumulator; oil reservoir
eHP Standard	Hydraulic accumulator; angle sensor; control block and controller
eHP Premium	Hydraulic accumulator; angle sensor; control block and controller; valve for the traction assist; operating terminal

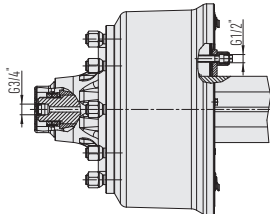
Air suspension	
Designation	Representation / description
without	—
Basic	Air spring valve
Traction assist	Air suspension valve; solenoid valve; operating terminal
Lifting and lowering	Air suspension valve; solenoid valve; rotary slide valve

Brake system	
Designation	Representation / description
without	without brake system and brake cylinder
conventional	Brake system and Tristop cylinder
EBS	EBS system and Tristop cylinder and AGS, EBS option must always be checked

Brake lever	
Designation	Representation / description
Manual slack adjuster	—
Automatic slack adjuster	—

Sensor — SDS/ABS — Rigid axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

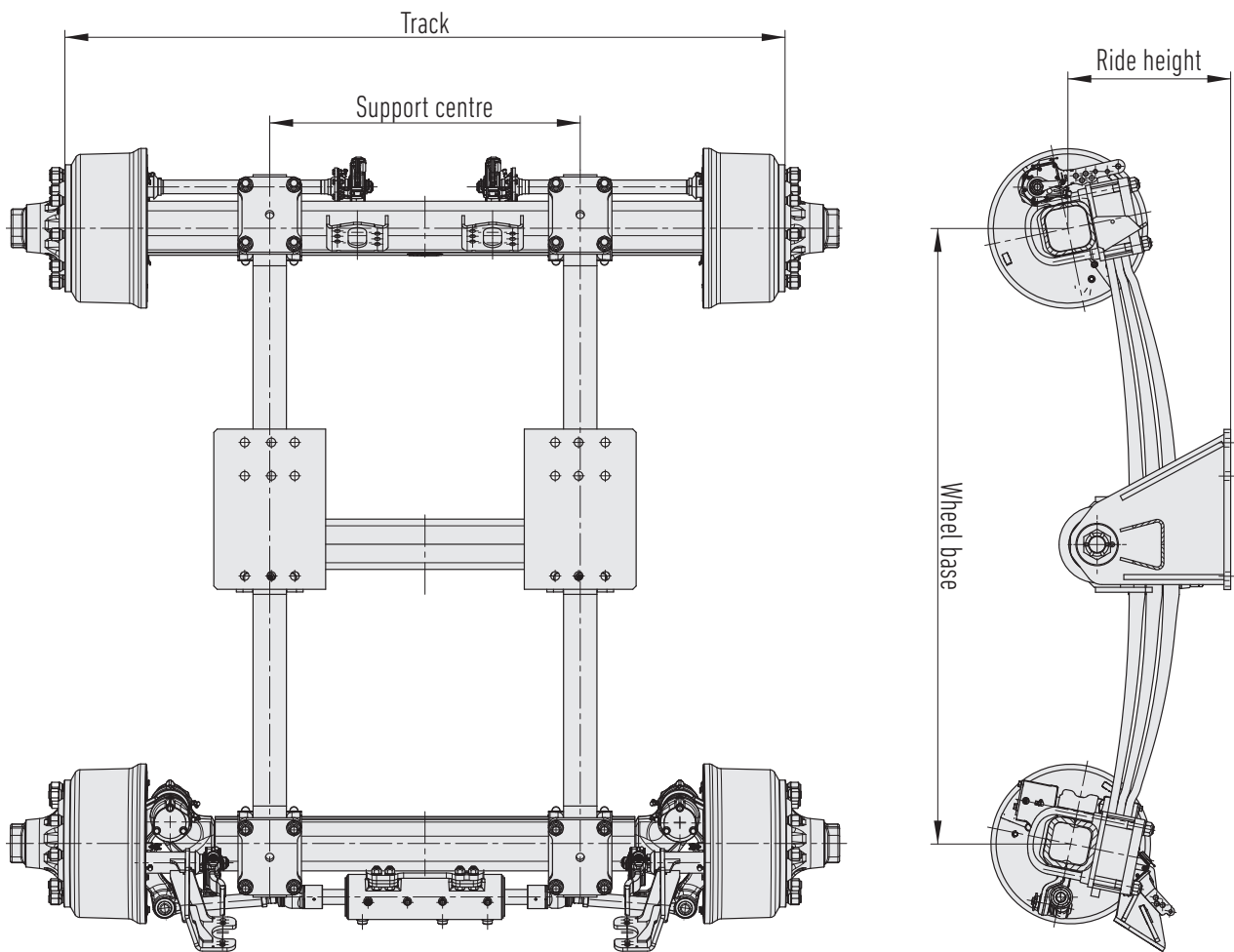
Sensor — SDS/ABS — Steering axle	
Designation	Representation / description
without	—
with	possible sensors SDS/ABS — see page 107

Preparation for central tyre inflation	
Designation	Representation / description
without	—
with	

Sensor — Steering angle	
Designation	Representation / description
without	—
with	possible sensors — see page 109

Electronic force-steering system	
Designation	Representation / description
without	—
preparation only	Speed sensor and ABS sensor with exciter wheel 100 teeth on the rigid axle and ME steering angle sensor
with	Valve block, steering computer with die-cast housing and cable, heavy-duty angle encoder, adapter cable, diaphragm pressure switch and operator terminal

BPW Solutions for Tandem - Bogie suspension unit



Axle type	Axle cross section [mm]	Brake	Wheel connection			Static suspension unit load [kg]*	
			Z	Ø X [mm]	Ø Y [mm]	40 km/h	60 km/h
GSBW 11010	120x10 (15)	N 4012	10	M22 x 1,5	280	20.000	18.000
GSBW 11010	120x10 (15)	FL 4112	10	M22 x 1,5	280	20.000	18.000
GSBW 12010	150x10 (16)	FL 4118	10	M22 x 1,5	280	24.000	22.000
GSBW 12010 HD**	150x10 (16)	FL 4118	10	M22 x 1,5	280	26.000	24.000

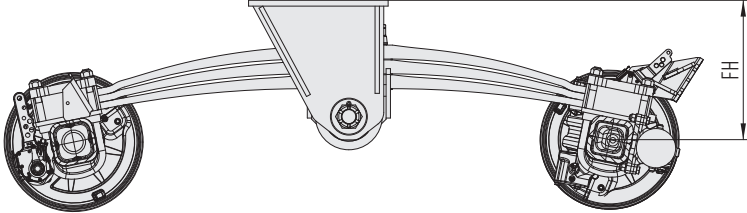
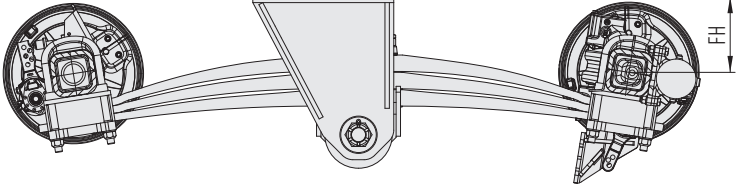
*Suspension unit load depends on the ratio of the track and support centre, and on the tyres.

**Heavy-Duty version with reinforced support and spring.

Other design dimensions

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

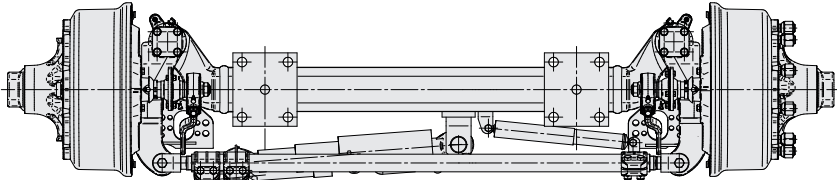
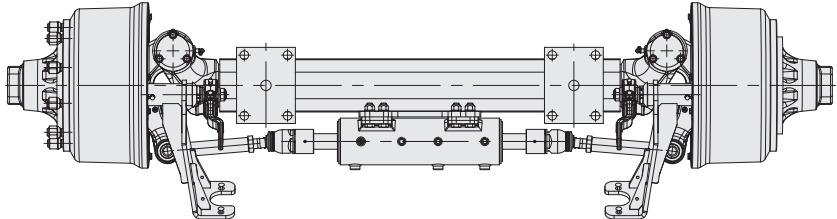
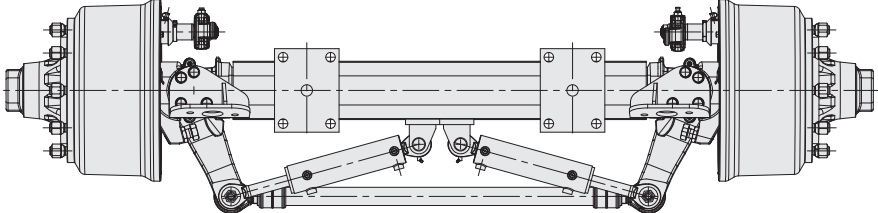
Wheelbase	Versions		Comment
	GSBW 11000	GSBW 12000	
1.450	✓	✓	
1.600	✓	✓	
1.900	✓	✓	

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

Ride height (FH [mm])										
Wheel base	1450		1600		1600 HD**		1900		1900 HD**	
Support height	FU	FO	FU	FO	FU	FO	FU	FO	FU	FO
400	202	465	219	476	-	-	223	486	-	-
430	232	495	249	506	-	-	253	517	-	-
430 HD**	232	495	-	-	240	505	-	-	224	495
470	272	535	287	546	-	-	291	557	-	-
530	332	-	347	-	-	-	353	-	-	-
530 HD**	332	-	-	-	340	-	-	-	322	-

** Heavy-Duty version with reinforced support and spring, and with steered rear axle.

Options

Steering axles	
GSLA Self-steering axle with self-steering	
GSLL AGRO Turn with self-steering or with force steering	
GSL Force-steering axle with force steering	

Steering				
Versions		GSBW(L/LA) 11000	GSBW(L/LL) 12000	Comment
rigid	GSLA self-steering axle	✓		
rigid	GSLL - AGRO Turn		✓	
rigid	GSL force-steering axle	✓	✓	

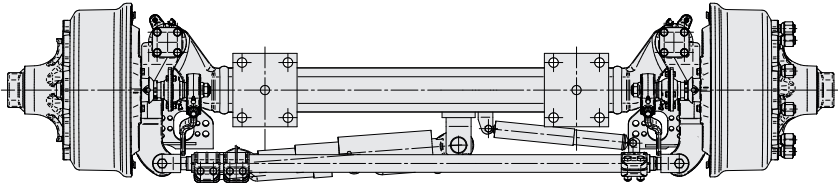
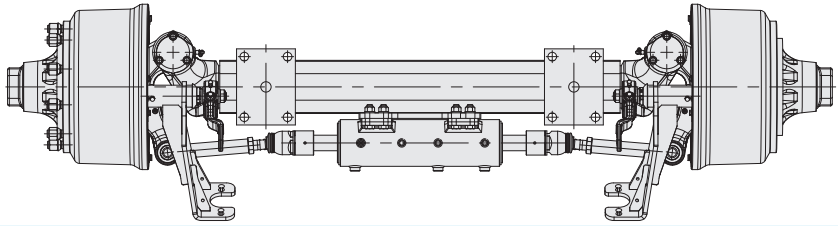
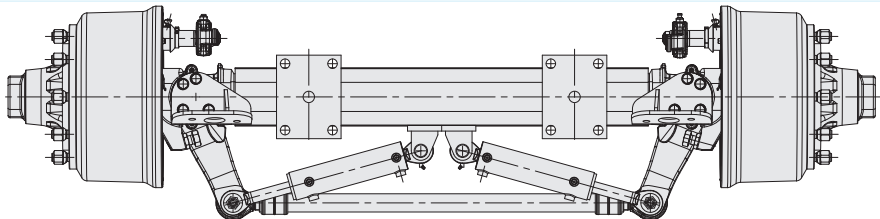
Ride heights of the single modules GS 11000 (FH [mm])				
Wheel base (Spring)	SLO		SLU	
Support height	without plate	with plate	without plate	with plate
184	414-439	421-454	-	-
268	474-523	480-538	217-267	224-282
302	-	-	230-301	237-316
370	-	-	283-369	290-384

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/O 11000	GSSLU/O 12000	GSSLU/O 14000	Comments
Tandem	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		See further options
3-axle unit (Tridem)	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		See further options
4-axle unit (Quadrem)	Single module		✓		

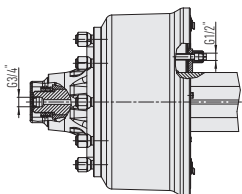
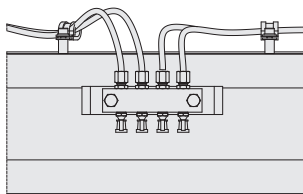
Options

Steering axles	
GSLA Self-steering axle with self-steering	
GSLL AGRO Turn with self-steering or with force steering	
GSL Force-steering axle with force steering	

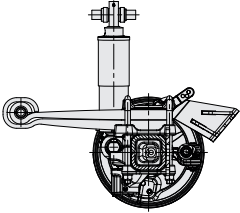
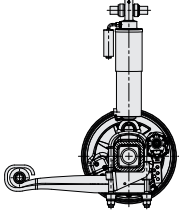
		Tandem		
Versions		GSSLU/O(L/LA) 11000	GSSLU/O(L/LL) 12000	GSSLU/O(L/LL) 14000
rigid	GSLA self-steering axle	✓		
rigid	GSL – AGRO Turn		✓	✓
rigid	GSL self-steering axle		✓	✓
rigid	GSL force-steering axle	✓	✓	

3-axle unit (Tridem)					
Versions			GSSLU/O(L/LA) 11000	GSSLU/O(L/LL) 12000	GSSLU/O(L/LL) 14000
GSLA self-steering axle	rigid	GSLA self-steering axle	✓		
GSL – AGRO Turn	rigid	GSL – AGRO Turn		✓	✓
GSL self-steering axle	rigid	GSL self-steering axle		✓	✓
GSL force-steering axle	rigid	GSL force-steering axle	✓	✓	

4 axle unit (Quadrem)		
Versions	GSSLU/OLL 12000	Comment
GSL – AGRO Turn with electric force-steering	✓	Further consultation is necessary

Preparation for central tyre inflation system (CTIS)	Central lubrication system
	

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

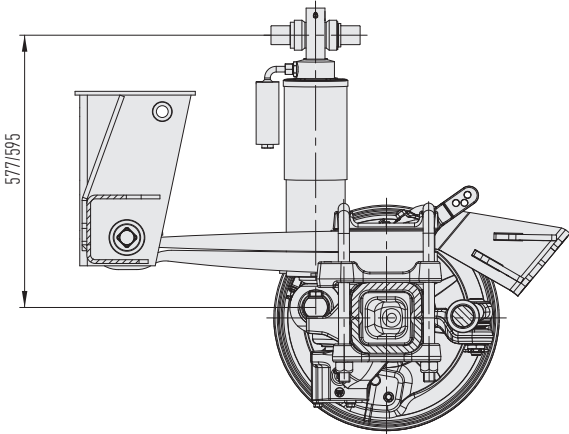
Cylinder position	
HP cylinder in front of the axle*	
HP cylinder on the axle*	

*Further technical consultation is necessary.

Ride heights of the single modules GSOH 11000 (FH [mm])				
Wheel base (Spring)	F0		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 12000 (FH [mm])				
Wheel base (Spring)	F0		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

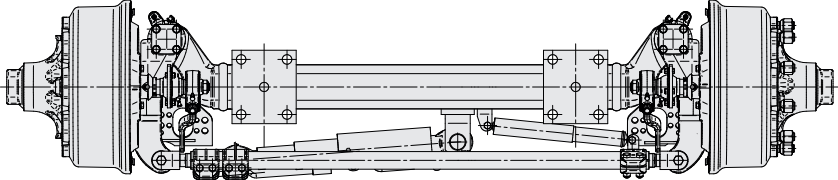
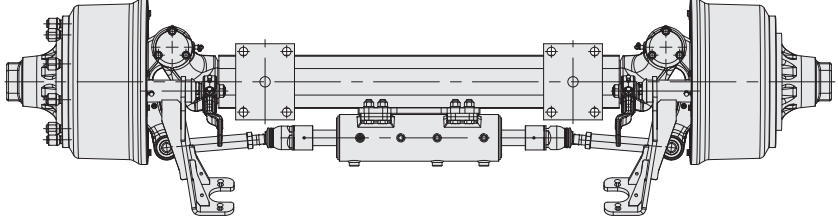
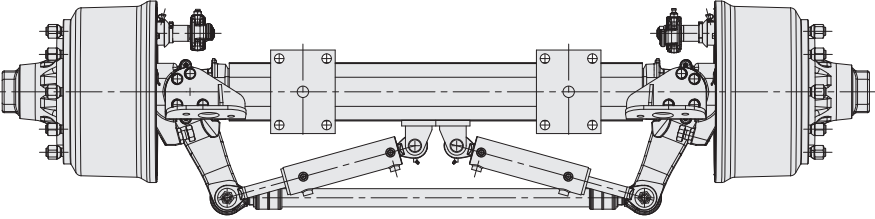
Ride heights of the single modules GSOH 14000 (FH [mm])				
Wheel base (Spring)	F0		FU	
Support height	without plate	with plate	without plate	with plate
184	378	393	-	-
268	462	477	-	-
302	-	-	172	187
370	-	-	240	255

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		✓		See further options
3-axle unit (Tridem)	Single module	✓	✓	✓	
	AGRO FlexModul		✓		
	L-Frame		✓		
	individual Frame	✓	✓	✓	
	AGRO FlexFrame		✓		See further options
4-axle unit (Quadrem)	Single module		✓		

Options

Steering axles	
GSLA Self-steering axle with self-steering	
GSLL AGRO Turn with self-steering or with force-steering	
GSL Force-steering axle with force-steering	

Tandem				
Versions		GSOH(L/LA) 11000	GSOH(L/LL) 12000	GSOH(L/LL) 14000
rigid	GSLA self-steering axle	✓		
rigid	GSLL – AGRO Turn		✓	✓
rigid	GSLL self-steering axle		✓	✓
rigid	GSL force-steering axle	✓	✓	

Wheel sensors

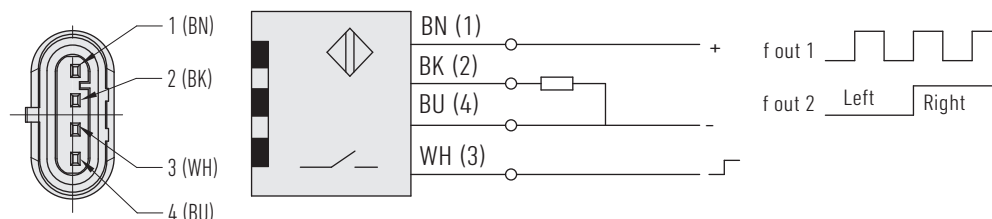
ABS

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.

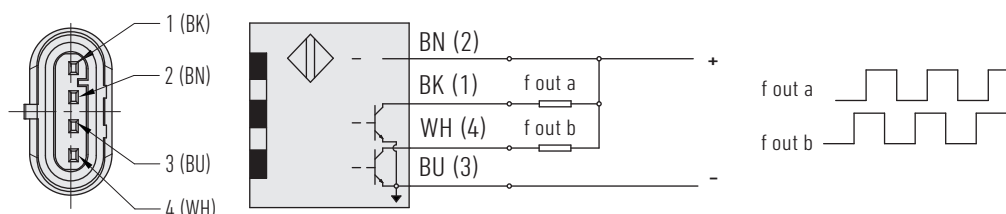
SDS

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 requirements 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

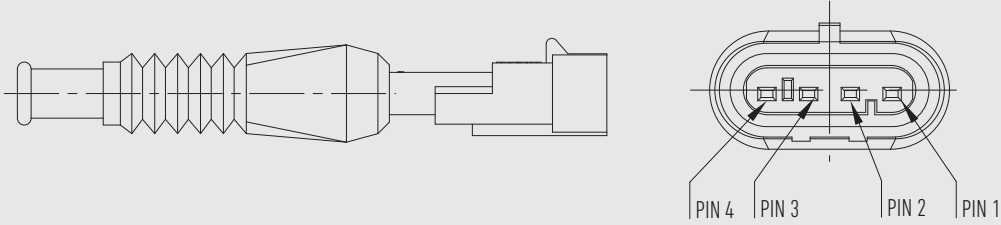
Left	Right	Code
Z100 + SDS	0	A
Z100 + SDS	Z100 + SDS	B
Z100 + ABS	Z100 + ABS	C
Z120 + ABS	Z120 + ABS	D
Z100 + SDS + ABS	Z100 + SDS + ABS	E
Z120 + SDS + ABS	Z120 + SDS + ABS	F

Other options on request.

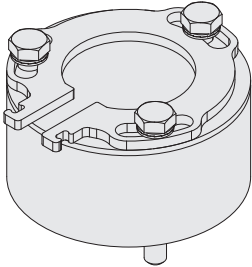
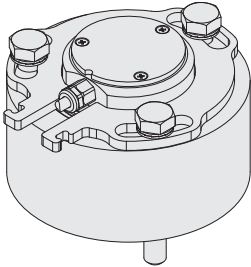
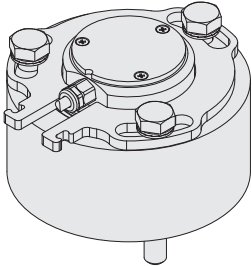
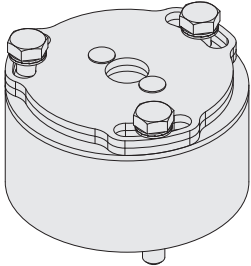
Adapter for steering angle sensor

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)	





The brands of the BPW Group:



BPW Bergische Achsen Kommanditgesellschaft

Postbox 12 80 · 51656 Wiehl, Germany · Telephone +49 (0) 2262 78-0

info@bpw.de · www.bpwagrar.com · www.bpw.de