

Technical Data

Name PB S275-24 DS 4x4

Design Scissor Lift

Serial-Number 24275.*

Color RAL 3002

Transport dimensions

Gross vehicle weight	22130	kg
Overall Length	6600	mm
Overall width	2390	mm
Overall height – Rails up	4000	mm
Overall height – Rails down	3135	mm

Work platform

Maximum platform capacity	900	kg equally shared max. 300 kg/m ²
allowed persons	4	(80 kg/person)
maximum vehicle payload	580	kg
Platform extension one-side	2250	mm
Hand force	400	N
Platform length	6150	mm
Platform width	2390	mm
Platform railing height	1210	mm
Foot Protection Bar	240	mm
Access heights	400	mm
Platform height – extended	25200	mm
Platform height - lowered	2787	mm
Weight control	electronically through measuring axes	
Electric power supply on platform	prepared	

Lifting gear

Lifting	22413	mm
Horizontal outreach	inexistent	mm (outer edge basket)
Maximum noise level	70	db(A)
operable temperature range	-5 to +50	Centigrade
Emergency lowering	Valve with hand pump	
Operating pressure max. (payload)		
Lifting cylinder scissor	230	bar
Pressure relief	250	bar
Operating range:		
Maximum working height	27200	mm
Maximum horizontal outreach	inexistent	mm
at platform height	inexistent	mm
Operating outside	yes	
Maximum wind speed	12,5	m/s
Lifting time	151	sec.
Lowering time	196	sec.

Chassis

Length	6600	mm
Width	2390	mm
Shaft center distance	4980	mm
Wheelbase	2061	mm
Move by crane	yes	
Attachment points	4	Piece
Maximum load	70	KNewton/Piece
Maximum drawbar load (wheel)	165	KNewton
Permitted Inclination		
Longitudinal axis (inside)	2,5 → supported	0,3 degree
Longitudinal axis (outside)	2,5 → supported	0,3 degree
Diagonal axis (inside)	2,5 → supported	0,3 degree
Diagonal axis (outside)	2,5 → supported	0,3 degree
Incline control	Incline switch with audible and acoustic alarm	

Max. Speeds:

retracted	2,7	km/h
extended	0,7	km/h
Grade ability fixated underground	25	%
permissible inclination in diagonal axis at transport position	25	%
Turning radius outside	7430	mm
Ground clearance center chassis	276	mm
Pothole protection	-	
Reduction ground clearance to	-	mm

Tires:

Type of tires	solid rubber	
Name		
Manufacturer	Comso	
Size	36 x 14 - 20	inch
Diameter / width	910 x 320	mm
Rim	7,50	inch

Levelling system

Levelling system yes/no	yes	
Automatic leveling system	yes	
Distance	174	mm
Adjustment		
In cross direction	8,22	%
	4,7	degree
lengthwise	3,14	%
	1,8	degree
max. vertical load every bracket	65	KN

Actuation

Power unit:	diesel hydraulic	
Manufacturer	Bosch Rexroth	
Type	Piston pump A10VG63EP4D1 / Gear pump AZPFF-11-019	
Four-wheel drive:	traction motor + hub gear + brake	
Manufacturer	Bosch Rexroth	
Nature	piston engine	
Type	A2FM56/63W	
Steering	hydraulisch, four-wheel steering	
Driving	hydraulic	
Differential lock	hydraulic 100%	
Hub gear:		
Gear reduction	i = 53:1	
Gear rating	10000	Nm

Brake:

Manufacturer	Regiana Reduttori	
Nature	spring-operated brake	
Type	RRWD800DB/53,00 RF15 SD LC25-45 Ruota	
static torque brake	230	Nm
brake torque		Nm/driven wheel
cracking pressure brake	20	bar

Supply unit**Motor**

Manufacturer	Deutz
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Type	diesel engine 36,3 KW
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Battery	2	Piece
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Battery voltage	24	V
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Capacity	180	Ah
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Type	starter battery
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Manufacturer	Banner
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Control:

Software version	
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Manufacturer	PB Liftechnik GmbH
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Mode of operation	proportional
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Nature	dual processor controlling with safety control
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Control voltage	24	V
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IP protection	65
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Floor Loads

		PB S275-24 DS 4x4
Own weight:	[kg]	22130
Max. additional load:	[kg]	900
Total weight:	[kg]	23030
Width b:	[m]	2,39
Length l:	[m]	6,60
Retracted area chassis b x l :	[m ²]	15,77
Max. supporting force per Wheel	[KN]	164,66
Max. supporting force per Support	[KN]	65,17
Bearing area per wheel:	[cm ²]	450
Traffic load $p = \frac{\text{Total weight}}{\text{Retracted area}}$	$\left[\frac{\text{kg}}{\text{m}^2} \right]$	1460
Traffic load $p = \frac{\text{Total weight}}{\text{Retracted area}}$	$\left[\frac{\text{KN}}{\text{m}^2} \right]$	14,60
Max. point load	$\left[\frac{\text{N}}{\text{cm}^2} \right]$	365,92
Max. point load	$\left[\frac{\text{N}}{\text{mm}^2} \right]$	4,35

Working diagram

