

S11

FORK POSITIONERS

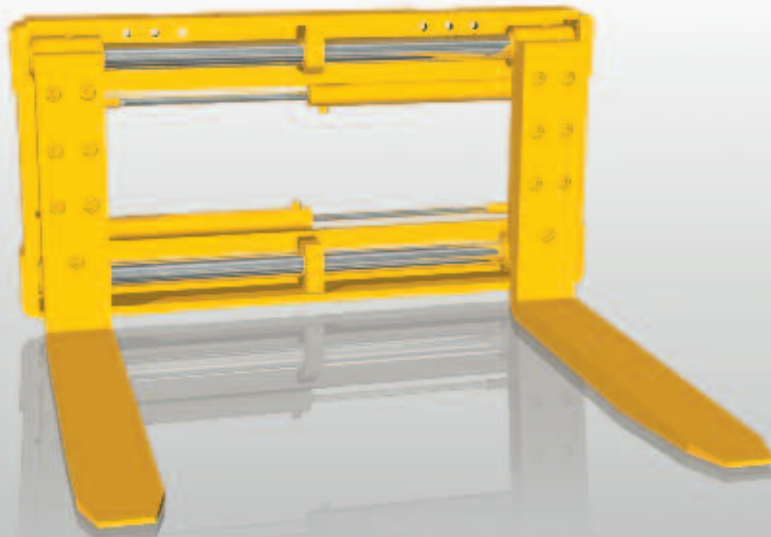
Fork positioners enable hydraulic positioning of forks. These attachments are used in particular for frequently changing load widths.

Due to the sturdy frame construction, the heavy-duty version is even suitable for the toughest applications. A great deal of spreading stress can be absorbed due to the double-shaft guide and the bolt-on forks. When handling round goods, we recommend chamfering the inner and outer edges of the forks in order to avoid damage to the goods. For the emptying of boxes, the attachment is available as a rotatable version.

If a wide opening range is required, hydraulic fork spreaders should be used. With hydraulic fork spreaders and a frame width corresponding to the vehicle, the opening range of the forks can be adjusted beyond the width of the vehicle. Loads cannot be clamped with this attachment. Both attachments can be equipped with telescopic forks, which are serially provided as bolt-on forks.

Fork positioners can be equipped with a separate sidershifter or a sideshift valve. With the integral version, the attachment and not the fork carrier is mounted directly into the mast. This keeps the loss in load capacity to a minimum and enhances driver visibility.

Fork positioners ZVP/ZVPV allow mounting the truck's forks. Due to the profile guide, the opening range of the forks can be adjusted in accordance with the width of the attachment.



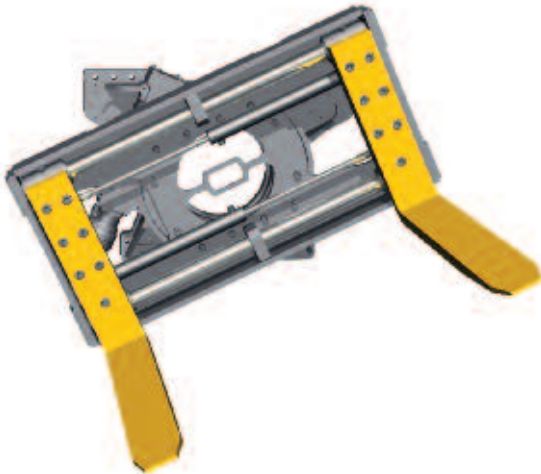
Fork Positioners (Heavy-Duty)



Model S 11 - ZV

- Frame construction
 - Double-shaft guided
 - Adjustable to any position on the fork carriage
 - Serial bolt-on forks
- from page 72

S11 Fork Positioners, Rotatable



Model S 11 - ZV-360°

- Rotation range 360°
 - Frame construction
 - Double-shaft guided
 - Adjustable to any position on the fork carriage
 - Serial bolt-on forks
- from page 78

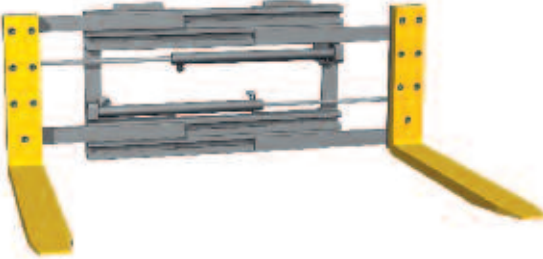
Fork Positioners, profile-guided



Model S 11 - ZVP/ZVPV

- Profile-guided
 - Forks can be mounted
 - ZVP for ISO classes 2 and 3 with forced hydraulic synchronism
 - ZVPV for ISO class 4
 - Adjustable to any position on the fork carriage
- from page 80

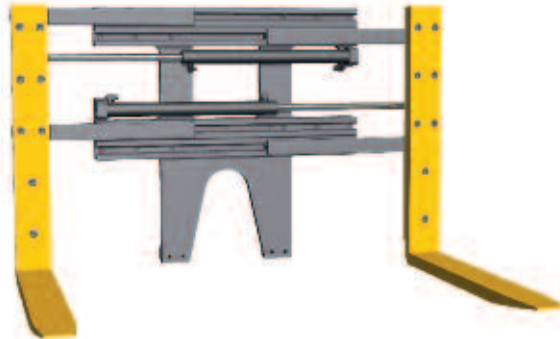
Fork Positioners with Large Opening Range



Model S 11 - ZVKG

- Profile-guided
 - Opening range of the forks beyond the width of the attachment
 - Serial weld-on forks
- from page 92

Fork Positioners for Reach Trucks



Model S 11 - ZVKG S

- Profile-guided
 - Opening range of the forks beyond the width of the attachment
 - Various designs for reach trucks
 - Serial weld-on forks
- from page 94

Fork Positioners with Telescopic Forks

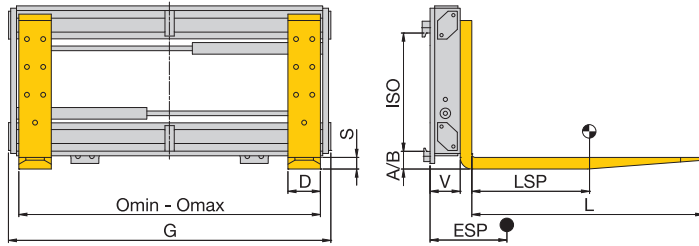


Model S 11 - ZV-TG

- Bolt-on telescopic forks serially
 - ZV-TG shaft-guided –
Adjustable to any position on the fork carriage
 - ZVP/ZVPV-TG profile-guided –
Adjustable to any position on the fork carriage
 - ZVKG-TG profile-guided –
opening range of the forks beyond the width of the attachment
- from page 96

Fork Positioners ZV-Series (Heavy-Duty)

1 hydraulic function



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg	mm		mm	mm	mm	mm	mm	mm	mm				
S 11 - ZV 20	2000	500	2	400-1000	1090	120	40	1000	120	190	265	4,600.-	65.-	180.-
S 11 - ZV 25	2500	600	2	400-1100	1190	125	45	1000	125	195	300	5,180.-	70.-	235.-
S 11 - ZV 30	3000	500	3	400-1200	1300	140	50	1000	130	195	410	5,800.-	80.-	275.-
S 11 - ZV 40	4000	500	3	400-1300	1400	140	50	1000	135	185	435	6,700.-	80.-	340.-
S 11 - ZV 45	4500	600	3	400-1300	1400	150	60	1000	150	210	520	7,120.-	100.-	390.-
S 11 - ZV 48	5000	600	3	400-1300	1400	150	60	1000	150	200	540	7,575.-	100.-	400.-
S 11 - ZV 50	5000	600	4	400-1400	1500	150	60	1000	150	195	610	8,130.-	100.-	420.-
S 11 - ZV 60	6000	600	4	400-1700	1800	150	65	1000	155	190	700	9,180.-	120.-	485.-
S 11 - ZV 70	7000	600	4	400-1900	2010	150	70	1000	170	185	875	10,545.-	130.-	570.-
S 11 - ZV 80	8000	600	4	500-1900	2010	200	70	1000	175	205	1010	12,110.-	170.-	620.-
S 11 - ZV 80/900	8000	900	4	500-2100	2220	200	70	1000	185	180	1340	14,935.-	170.-	715.-
S 11 - ZV 100	10000	600	4	500-2100	2220	200	70	1000	185	180	1340	14,935.-	170.-	715.-

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length € 600.-; from 1600 mm length € 830.-.

- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.

- Inner opening range = 0, on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners	S 11 -	ZV 20	ZV 20	ZV 25	ZV 30	ZV 30	ZV 40	ZV 40	ZV 45	ZV 48 ZV 50	ZV 60	ZV 70	ZV 80	ZV 100
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750
LC (LSP) = 500 mm	kg	1220	1710	2110	2480	2960	3380	3820	4190					
LC (LSP) = 600 mm	kg	1110	1560	1930	2270	2720	3100	3510	3850	4250	5050	5900	6660	8350
LC (LSP) = 700 mm	kg	1010	1440	1780	2100	(2360)	2870	(3150)	3560	3950	4690	5500	6220	7850
LC (LSP) = 800 mm	kg	940	1330	1650	1940	(2060)	2670	(2750)	3310	3690	4380	5160	5850	7400

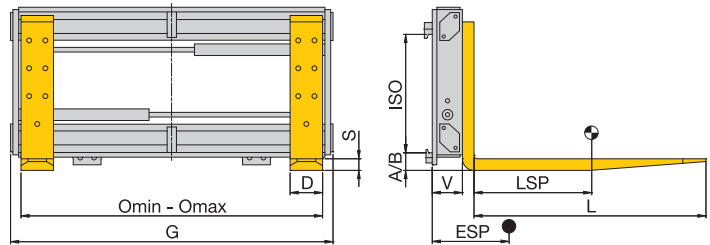
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZV-Series (Heavy-Duty) with Sideshift Valve

2 hydraulic functions



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg													
S 11 - ZV 20-SV	2000	500	2	400-1000	1090	120	40	1000	120	190	270	5,305.-	65.-	180.-
S 11 - ZV 25-SV	2500	600	2	400-1100	1190	125	45	1000	125	195	305	5,880.-	70.-	235.-
S 11 - ZV 30-SV	3000	500	3	400-1200	1300	140	50	1000	130	190	420	6,565.-	80.-	275.-
S 11 - ZV 40-SV	4000	500	3	400-1300	1400	140	50	1000	135	185	450	7,455.-	80.-	340.-
S 11 - ZV 45-SV	4500	600	3	400-1300	1400	150	60	1000	150	205	540	7,890.-	100.-	390.-
S 11 - ZV 48-SV	5000	600	3	400-1300	1400	150	60	1000	150	195	550	8,340.-	100.-	400.-
S 11 - ZV 50-SV	5000	600	4	400-1400	1500	150	60	1000	150	190	620	9,075.-	100.-	420.-
S 11 - ZV 60-SV	6000	600	4	400-1700	1800	150	65	1000	155	190	710	10,125.-	120.-	485.-
S 11 - ZV 70-SV	7000	600	4	400-1900	2010	150	70	1000	170	180	895	11,490.-	130.-	570.-
S 11 - ZV 80-SV	8000	600	4	500-1900	2010	200	70	1000	175	205	1030	13,055.-	170.-	620.-
S 11 - ZV 80/900-SV	8000	900	4	500-2100	2220	200	70	1000	190	180	1360	16,035.-	170.-	715.-
S 11 - ZV 100-SV	10000	600	4	500-2100	2220	200	70	1000	190	180	1360	16,035.-	170.-	715.-

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length € 600.-; from 1600 mm length € 830.-.
- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.
- Inner opening range = 0, on request.
- No sideshifting when forks are in their end positions! See also page 9.

Standard values for residual load capacity of lift trucks**

Fork Positioners	S 11 -	ZV 20-SV	ZV 20-SV	ZV 25-SV	ZV 30-SV	ZV 30-SV	ZV 40-SV	ZV 40-SV	ZV 45-SV	ZV 48/50-SV	ZV 60-SV	ZV 70-SV	ZV 80-SV	ZV 100-SV
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750
LC (LSP) = 500 mm	kg	1220	1710	2110	2480	2960	3380	3820	4190					
LC (LSP) = 600 mm	kg	1110	1560	1930	2270	2720	3100	3510	3850	4250	5050	5900	6660	8300
LC (LSP) = 700 mm	kg	1010	1440	1780	2100	(2360)	2870	(3150)	3560	3950	4690	5500	6220	7800
LC (LSP) = 800 mm	kg	940	1330	1650	1940	(2060)	2670	(2750)	3310	3690	4380	5160	5850	7350

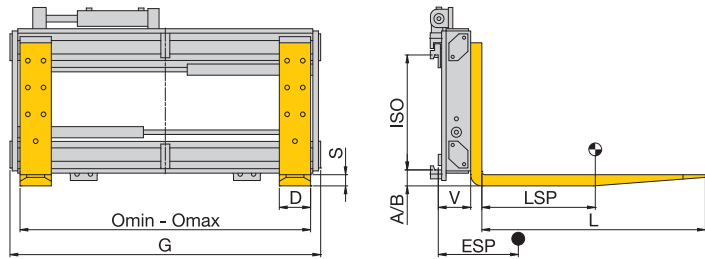
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZV-Series (Heavy-Duty) with Separate Sideshift

2 hydraulic functions



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Side-shift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg	mm													
S 11 - ZV 20-S	2000	500	2	400-1000	1090	± 100	120	40	1000	135	180	295	5,915.-	65.-	180.-
S 11 - ZV 25-S	2500	600	2	400-1100	1190	± 100	125	45	1000	140	190	330	6,525.-	70.-	235.-
S 11 - ZV 30-S	3000	500	3	400-1200	1300	± 100	140	50	1000	145	190	445	7,175.-	80.-	275.-
S 11 - ZV 40-S	4000	500	3	400-1300	1400	± 100	140	50	1000	150	180	475	8,065.-	80.-	340.-
S 11 - ZV 45-S	4500	600	3	400-1300	1400	± 100	150	60	1000	165	210	560	8,495.-	100.-	390.-
S 11 - ZV 48-S	5000	600	3	400-1300	1400	± 100	150	60	1000	165	200	580	8,950.-	100.-	400.-
S 11 - ZV 50-S	5000	600	4	400-1400	1500	± 100	150	60	1000	165	190	665	10,060.-	100.-	420.-
S 11 - ZV 60-S	6000	600	4	400-1700	1800	± 150	150	65	1000	170	190	755	11,120.-	120.-	485.-
S 11 - ZV 70-S	7000	600	4	400-1900	2010	± 150	150	70	1000	190	190	950	12,590.-	130.-	570.-
S 11 - ZV 80-S	8000	600	4	500-1900	2010	± 150	200	70	1000	195	210	1085	14,200.-	170.-	620.-
S 11 - ZV 80/900-S	8000	900	4	500-2100	2220	± 150	200	70	1000	215	195	1440	18,135.-	170.-	715.-
S 11 - ZV 100-S	10000	600	4	500-2100	2220	± 150	200	70	1000	215	195	1440	18,135.-	170.-	715.-

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length € 600.-; from 1600 mm length € 830.-.

- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.

- Inner opening range = 0, on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners	S 11 -	ZV 20-S	ZV 20-S	ZV 25-S	ZV 30-S	ZV 30-S	ZV 40-S	ZV 40-S	ZV 45-S	ZV 48/50-S	ZV 60-S	ZV 70-S	ZV 80-S	ZV 100-S
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750
LC (LSP) = 500 mm	kg	1200	1670	2070	2420	2900	3310	3750	4110					
LC (LSP) = 600 mm	kg	1090	1530	1900	2220	2670	3050	3450	3790	4170	4960	5760	6530	8100
LC (LSP) = 700 mm	kg	1000	1410	1750	2050	(2360)	2820	(3150)	3510	3880	4620	5400	6110	7650
LC (LSP) = 800 mm	kg	920	1310	1620	1900	(2060)	2630	(2750)	3270	3630	4320	5060	5740	7200

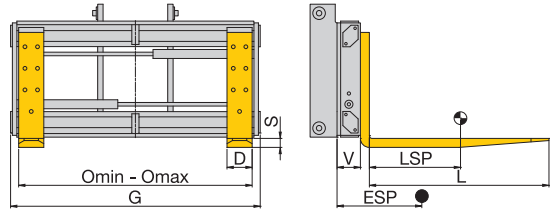
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVI-Series, Integral (Heavy-Duty)

1 hydraulic function



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	Omin - Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg												
S 11 - ZVI 20	2000	500	400-1000	1090	120	40	1000	120	190	265	6,020.-	65.-	180.-
S 11 - ZVI 25	2500	600	400-1100	1190	125	45	1000	125	195	300	6,490.-	70.-	235.-
S 11 - ZVI 30	3000	500	400-1200	1300	140	50	1000	130	195	410	7,215.-	80.-	275.-
S 11 - ZVI 40	4000	500	400-1300	1400	140	50	1000	135	185	435	8,120.-	80.-	340.-
S 11 - ZVI 45	4500	600	400-1300	1400	150	60	1000	150	210	520	8,550.-	100.-	390.-
S 11 - ZVI 48*	5000	600	400-1300	1400	150	60	1000	150	200	540	8,990.-	100.-	400.-
S 11 - ZVI 50	5000	600	400-1400	1500	150	60	1000	150	195	610	10,040.-	100.-	420.-
S 11 - ZVI 60	6000	600	400-1700	1800	150	65	1000	155	190	700	11,090.-	120.-	485.-
S 11 - ZVI 70	7000	600	400-1900	2010	150	70	1000	170	185	875	12,445.-	130.-	570.-
S 11 - ZVI 80	8000	600	500-1900	2010	200	70	1000	175	205	1010	14,010.-	170.-	620.-
S 11 - ZVI 80/900	8000	900	500-2100	2220	200	70	1000	185	195	1240	16,845.-	170.-	715.-
S 11 - ZVI 100	10000	600	500-2100	2220	200	70	1000	185	195	1240	16,845.-	170.-	715.-
S 11 - ZVI 80/1100	8000	1100	500-2100	2220	200	80	1000	190	200	1360	19,250.-	190.-	810.-
S 11 - ZVI 120	12000	600	500-2100	2220	200	80	1000	190	200	1360	19,250.-	190.-	810.-

* For vehicles of ISO class 3

- Lost load center, center of gravity and weight ex front edge of side brackets.

- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.

- Price includes side brackets.

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length **€ 600.-**
from 1600 mm length **€ 830.-**

- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.

- Inner opening range = 0, on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners integral	S 11 -	ZVI 20	ZVI 20	ZVI 25	ZVI 30	ZVI 30	ZVI 40	ZVI 40	ZVI 45	ZVI 48/50	ZVI 60	ZVI 70	ZVI 80	ZVI 100	ZVI 120
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000	12000
X*	mm	350	450	450	450	500	500	500	500	580	560	650	650	750	800
LC (LSP) = 500 mm	kg	1300	1800	2220	2640	3160	3590	4050	4420						
LC (LSP) = 600 mm	kg	1180	1640	2030	2410	(2750)	3290	(3670)	4060	4560	5400	6310	7120	9300	11100
LC (LSP) = 700 mm	kg	1070	1510	1860	2220	(2360)	3030	(3150)	3750	4230	5000	5880	6640	8690	10400
LC (LSP) = 800 mm	kg	990	1400	1720	2050	(2060)	2810	(2750)	3480	3930	4660	5500	6210	8150	9800

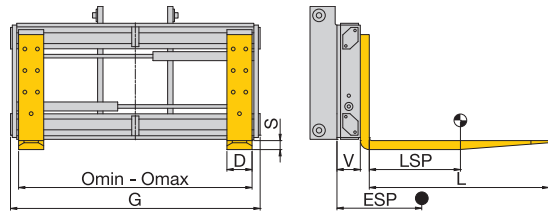
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork positioners ZVI-Series, Integral (Heavy-Duty) with Sideshift Valve

2 hydraulic functions



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg												
S 11 - ZVI 20-SV	2000	500	400-1000	1090	120	40	1000	120	190	270	6,605.-	65.-	180.-
S 11 - ZVI 25-SV	2500	600	400-1100	1190	125	45	1000	125	195	305	7,195.-	70.-	235.-
S 11 - ZVI 30-SV	3000	500	400-1200	1300	140	50	1000	130	190	420	7,970.-	80.-	275.-
S 11 - ZVI 40-SV	4000	500	400-1300	1400	140	50	1000	135	185	450	8,875.-	80.-	340.-
S 11 - ZVI 45-SV	4500	600	400-1300	1400	150	60	1000	150	205	540	9,305.-	100.-	390.-
S 11 - ZVI 48-SV*	5000	600	400-1300	1400	150	60	1000	150	195	550	9,745.-	100.-	400.-
S 11 - ZVI 50-SV	5000	600	400-1400	1500	150	60	1000	150	190	620	10,985.-	100.-	420.-
S 11 - ZVI 60-SV	6000	600	400-1700	1800	150	65	1000	155	190	710	12,025.-	120.-	485.-
S 11 - ZVI 70-SV	7000	600	400-1900	2010	150	70	1000	170	180	895	13,390.-	130.-	570.-
S 11 - ZVI 80-SV	8000	600	500-1900	2010	200	70	1000	175	205	1030	14,955.-	170.-	620.-
S 11 - ZVI 80/900-SV	8000	900	500-2100	2220	200	70	1000	190	195	1260	17,935.-	170.-	715.-
S 11 - ZVI 100-SV	10000	600	500-2100	2220	200	70	1000	190	195	1260	17,935.-	170.-	715.-
S 11 - ZVI 80/1100-SV	8000	1100	500-2100	2220	200	80	1000	195	195	1430	20,475.-	190.-	810.-
S 11 - ZVI 120-SV	12000	600	500-2100	2220	200	80	1000	195	195	1430	20,475.-	190.-	810.-

* For vehicles of ISO class 3

- Lost load center, center of gravity and weight ex front edge of side brackets.
- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.
- Price includes side brackets.

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length **€ 600.-**
- from 1600 mm length **€ 830.-**

- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.
- Inner opening range = 0, on request.
- No sideshifting when forks are in their end positions! See also page 9.

Standard values for residual load capacity of lift trucks**

Fork Positioners integral	S 11 -	ZVI 20-SV	ZVI 20-SV	ZVI 25-SV	ZVI 30-SV	ZVI 30-SV	ZVI 40-SV	ZVI 40-SV	ZVI 45-SV	ZVI 48/50-SV	ZVI 60-SV	ZVI 70-SV	ZVI 80-SV	ZVI 100-SV	ZVI 120-SV
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000	12000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750	800
LC (LSP) = 500 mm	kg	1300	1800	2220	2640	3150	3590	4040	4420						
LC (LSP) = 600 mm	kg	1170	1640	2030	2410	(2750)	3290	3670	4060	4560	5400	6310	7120	9220	11000
LC (LSP) = 700 mm	kg	1070	1510	1860	2220	(2360)	3030	(3150)	3740	4230	5000	5880	6640	8630	10350
LC (LSP) = 800 mm	kg	990	1400	1720	2050	(2060)	2810	(2750)	3480	3930	4660	5500	6210	8100	9750

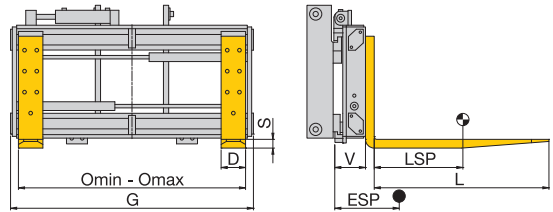
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVI-Series, Integral (Heavy-Duty) with Separate Sideshift

2 hydraulic functions



Shaft-guided · Forks serially bolted on

Model	Load capacity	LC (LSP)	Omin-Omax	G	Side-shift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg											mm		
S 11 - ZVI 20-S	2000	500	400-1000	1090	± 100	120	40	1000	170	185	345	7,415.-	65.-	180.-
S 11 - ZVI 25-S	2500	600	400-1100	1190	± 100	125	45	1000	175	195	380	8,015.-	70.-	235.-
S 11 - ZVI 30-S	3000	500	400-1200	1300	± 100	140	50	1000	185	200	510	8,790.-	80.-	275.-
S 11 - ZVI 40-S	4000	500	400-1300	1400	± 100	140	50	1000	190	200	540	9,675.-	80.-	340.-
S 11 - ZVI 45-S	4500	600	400-1300	1400	± 100	150	60	1000	200	220	630	10,535.-	100.-	390.-
S 11 - ZVI 48-S*	5000	600	400-1300	1400	± 100	150	60	1000	205	225	650	10,985.-	100.-	400.-
S 11 - ZVI 50-S	5000	600	400-1400	1500	± 100	150	60	1000	225	210	820	12,205.-	100.-	420.-
S 11 - ZVI 60-S	6000	600	400-1700	1800	± 150	150	65	1000	230	210	910	13,475.-	120.-	485.-
S 11 - ZVI 70-S	7000	600	400-1900	2010	± 150	150	70	1000	245	215	1100	14,955.-	130.-	570.-
S 11 - ZVI 80-S	8000	600	500-1900	2010	± 150	200	70	1000	250	240	1230	16,550.-	170.-	620.-
S 11 - ZVI 80/900-S	8000	900	500-2100	2220	± 150	200	70	1000	260	220	1590	20,710.-	170.-	715.-
S 11 - ZVI 100-S	10000	600	500-2100	2220	± 150	200	70	1000	260	220	1590	20,710.-	170.-	715.-
S 11 - ZVI 80/1100-S	8000	1100	500-2100	2220	± 150	200	80	1000	265	230	1720	24,130.-	190.-	810.-
S 11 - ZVI 120-S	12000	600	500-2100	2220	± 150	200	80	1000	265	230	1720	24,130.-	190.-	810.-

* For vehicles of ISO class 3

- Lost load center, center of gravity and weight ex front edge of side brackets.
- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.
- Price includes side brackets.

- Surcharge for chamfer on fork inner edge 25 x 45°, up to 1500 mm length € 600.-
- from 1600 mm length € 830.-

- Fork positioners with ISO fork carriage plates for mounting the truck's forks on request.
- Inner opening range = 0, on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners integral	S 11 -	ZVI 20-S	ZVI 25-S	ZVI 30-S	ZVI 30-S	ZVI 40-S	ZVI 40-S	ZVI 45-S	ZVI 48/50-S	ZVI 60-S	ZVI 70-S	ZVI 80-S	ZVI 100-S	ZVI 120-S	
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000	12000
X*	mm	350	450	450	450	500	500	500	560	560	650	650	750	800	
LC (LSP) = 500 mm	kg	1200	1680	2080	2460	2940	3350	3790	4150						
LC (LSP) = 600 mm	kg	1090	1540	1900	2250	2710	3080	3480	3820	4200	5000	5850	6610	8600	10350
LC (LSP) = 700 mm	kg	1000	1420	1760	2080	(2360)	2850	(3150)	3540	3900	4650	5470	6180	8070	9730
LC (LSP) = 800 mm	kg	920	1320	1630	1930	(2060)	2650	(2750)	3300	3640	4350	5140	5810	7600	9180

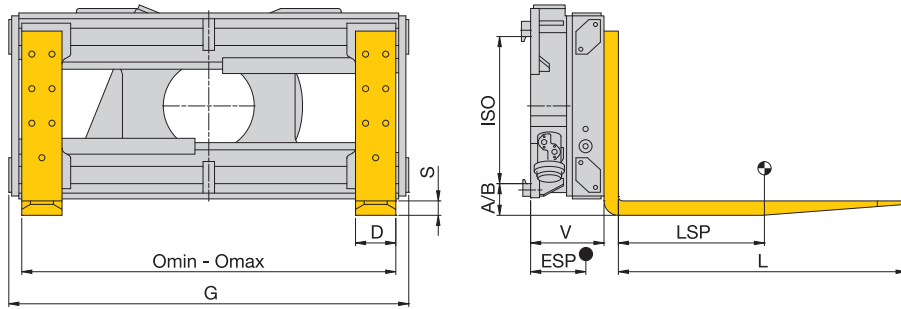
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZV-Series, Rotatable

2 hydraulic functions



Shaft-guided · Forks serially bolted on · Rotation range 360°

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range	Surcharge for sep. sideshift
S 11 - ZV 12-360°	1200	500	2	500-1000	1090	100	40	1000	230	190	450	12,380.-	60.-	150.-	1,860.-
S 11 - ZV 20-360°	2000	500	2	500-1000	1090	120	40	1000	240	200	480	12,980.-	65.-	180.-	1,860.-
S 11 - ZV 22-360°	2200	500	2	500-1000	1090	125	45	1000	245	210	505	13,420.-	70.-	180.-	1,860.-
S 11 - ZV 25-360°	2500	500	3	500-1100	1190	125	45	1000	250	215	540	13,955.-	70.-	235.-	2,195.-
S 11 - ZV 30-360°	3000	500	3	500-1200	1300	140	50	1000	255	230	655	15,605.-	80.-	275.-	2,195.-
S 11 - ZV 40-360°	4000	500	3	500-1300	1400	140	50	1000	265	225	715	19,165.-	80.-	340.-	2,260.-
S 11 - ZV 45-360°	4500	600	3	500-1300	1400	150	60	1000	280	240	785	19,930.-	100.-	390.-	2,260.-
S 11 - ZV 50-360°	5000	600	4	500-1400	1500	150	60	1000	290	220	1085	23,440.-	100.-	420.-	2,660.-
S 11 - ZV 60-360°	6000	600	4	500-1700	1800	150	65	1000	295	230	1190	26,230.-	120.-	485.-	2,995.-

- Surcharge for solenoid valve € 920.-

- Fork positioner with higher load capacity on request.

- Surcharge for foundry version on request.

- Surcharge for integral design, see accessories, page 195.

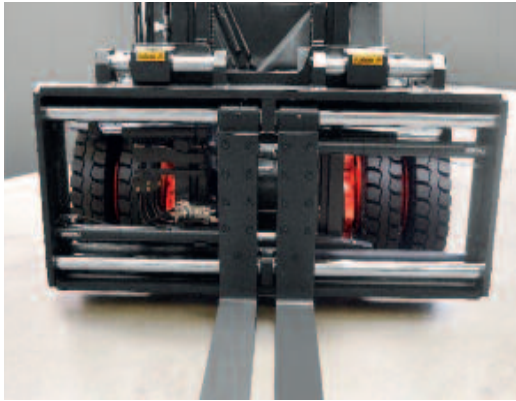
Standard values for residual load capacity of lift trucks**

Fork Positioners rotatable	S 11 -	ZV 12 -360°	ZV 20 -360°	ZV 20 -360°	ZV 25 -360°	ZV 30 -360°	ZV 30 -360°	ZV 40 -360°	ZV 45 -360°	ZV 45/50 -360°	ZV 50 -360°	ZV 60 -360°
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000
X*	mm	350	450	450	450	500	500	500	500	560	560	650
LC (LSP) = 500 mm	kg	1010	1420	1820	2160	2520	2920	3270	3600			
LC (LSP) = 600 mm	kg	930	1310	1680	2000	2340	2700	3030	3350	3560	4370	5200
LC (LSP) = 700 mm	kg	850	1220	1560	1850	2180	(2360)	2820	3120	3330	4090	4890
LC (LSP) = 800 mm	kg	790	1140	(1380)	1730	2040	(2060)	2640	2920	3130	3840	4600

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

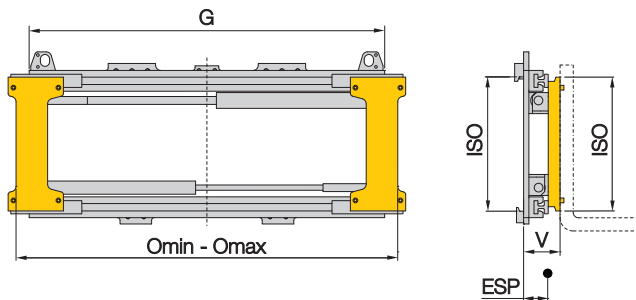
* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().



Fork Positioners ZVP-Series

1 hydraulic function



For forks according to ISO 2328

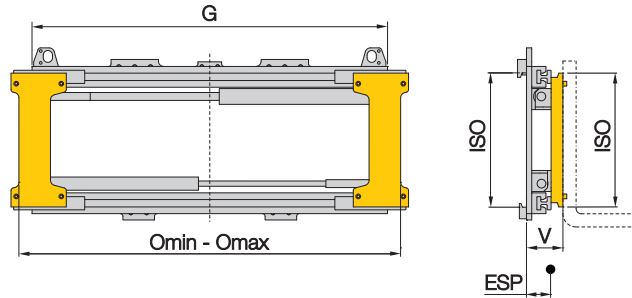
S11

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm	mm	mm	kg	€
S 11 - ZVP 20	2000	500	2	400-1050	1050	128	50	125	3,825.-
				500-1150	1050	128	50	125	3,825.-
				400-1150	1150	128	50	130	3,920.-
				500-1250	1150	128	50	130	3,920.-
S 11 - ZVP 25	2500	600	2	400-1150	1150	128	50	135	3,970.-
				500-1250	1150	128	50	135	3,970.-
				400-1250	1250	128	50	140	4,065.-
				500-1350	1250	128	50	140	4,065.-
S 11 - ZVP 35	3500	500	3	400-1050	1050	143	65	175	3,950.-
				500-1150	1050	143	65	175	3,950.-
				400-1150	1150	143	65	180	4,045.-
				500-1250	1150	143	65	180	4,045.-
				400-1250	1250	143	65	185	4,140.-
				500-1350	1250	143	65	185	4,140.-
				400-1350	1350	143	65	190	4,235.-
				500-1450	1350	143	65	190	4,235.-

- For load backrests see page 174.

Fork Positioners ZVP-Series

1 hydraulic function



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm	mm	mm		
S 11 - ZVP 48	4800	600	3	400-1250	1250	167	75	210	4,780.-
				500-1350	1250	167	75	210	4,780.-
				400-1350	1350	167	75	215	4,895.-
				500-1450	1350	167	75	215	4,895.-
				400-1450	1450	167	75	220	5,010.-
				500-1550	1450	167	75	220	5,010.-
				400-1550	1550	167	75	225	5,125.-
				500-1650	1550	167	75	225	5,125.-

- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

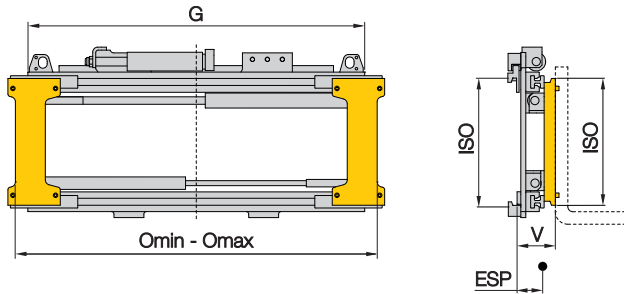
Fork Positioners	S 11 -	ZVP 20	ZVP 20	ZVP 25	ZVP 35	ZVP 35	ZVP 48	ZVP 48	ZVP 48
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500
X*	mm	350	450	450	450	500	500	500	500
LC (LSP) = 500 mm	kg	1250	1700	2140	2520	2970	3320	3740	4170
LC (LSP) = 600 mm	kg	1140	1560	1960	2310	2730	3060	3450	3840
LC (LSP) = 700 mm	kg	1040	1440	1810	2130	2530	2830	3200	3560
LC (LSP) = 800 mm	kg	960	1330	1680	1980	2350	2640	2980	3320

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVP-Series with Separate Sideshift

2 hydraulic functions



For forks according to ISO 2328

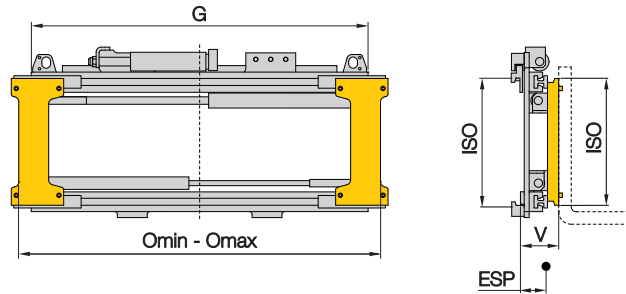
S11

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Sideshift	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm					
S 11 - ZVP 20-S	2000	500	2	400-1050	1050	± 100	143	55	160	4,245.-
				500-1150	1050					4,245.-
				400-1150	1150					4,340.-
				500-1250	1150					4,340.-
S 11 - ZVP 25-S	2500	600	2	400-1150	1150	± 100	143	55	170	4,390.-
				500-1250	1150					4,390.-
				400-1250	1250					4,485.-
				500-1350	1250					4,485.-
S 11 - ZVP 35-S	3500	500	3	400-1050	1050	± 100	158	70	210	4,475.-
				500-1150	1050					4,475.-
				400-1150	1150					4,570.-
				500-1250	1150					4,570.-
				400-1250	1250					4,665.-
				500-1350	1250					4,665.-
				400-1350	1350		158	70	225	4,760.-
				500-1450	1350		158	70	225	4,760.-

- For load backrests see page 174.

Fork Positioners ZVP-Series with Separate Sideshift

2 hydraulic functions



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Sideshift	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm					
S 11 - ZVP 48-S	4800	600	3	400-1250	1250	± 100	182	80	250	5,325.-
				500-1350	1250					5,325.-
				400-1350	1350					5,440.-
				500-1450	1350					5,440.-
				400-1450	1450					5,555.-
				500-1550	1450					5,555.-
				400-1550	1550					5,670.-
500-1650	1550	5,670.-								

- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

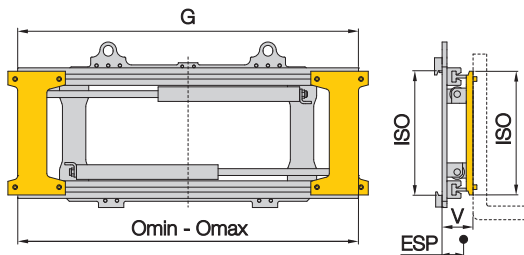
Fork Positioners	S 11 -	ZVP 20-S	ZVP 20-S	ZVP 25-S	ZVP 35-S	ZVP 35-S	ZVP 48-S	ZVP 48-S	ZVP 48-S
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500
X*	mm	350	450	450	450	500	500	500	500
LC (LSP) = 500 mm	kg	1220	1660	2090	2470	2910	3250	3680	4090
LC (LSP) = 600 mm	kg	1110	1520	1920	2270	2680	3000	3390	3780
LC (LSP) = 700 mm	kg	1120	1400	1770	2090	2480	2780	3150	3500
LC (LSP) = 800 mm	kg	940	1300	1640	1950	2310	2600	2930	3270

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPV-Series with Sideshift Valve

2 hydraulic functions



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm	mm	mm	kg	€
S 11 - ZVPV 60-SV	6000	600	4	500-1450	1450	159	60	290	7,750.-
				500-1550	1550	159	60	305	7,835.-
				500-1750	1750	159	60	325	8,110.-
				500-1850	1850	159	60	340	8,425.-
S 11 - ZVPV 70-SV	7000	600	4	500-1750	1750	171	65	370	8,665.-
				500-1950	1950	171	65	400	8,755.-
				500-2050	2050	171	65	415	9,085.-
S 11 - ZVPV 80-SV	8000	600	4	500-1950	1950	171	65	410	8,970.-
				500-2100	2100	171	65	430	9,355.-
				500-2200	2200	171	65	440	9,685.-
S 11 - ZVPV 80/900-SV	8000	900	4	500-1950	1950	184	65	520	11,540.-
				500-2100	2100	184	65	550	12,035.-
				500-2200	2200	184	65	565	13,360.-
S 11 - ZVPV 100-SV	10000	600	4	500-1950	1950	184	65	520	11,540.-
				500-2100	2100	184	65	550	12,035.-
				500-2200	2200	184	65	565	13,360.-
S 11 - ZVPV 80/1100-SV	8000	1100	4	500-2000	2100	184	70	570	12,215.-
				500-2100	2200	184	70	590	12,865.-
				500-2300	2400	184	70	625	13,515.-

- Available without sideshift

- For load backrests see page 174.

- No sideshifting when forks are in their end positions! See also page 9.

Standard values for residual load capacity of lift trucks**

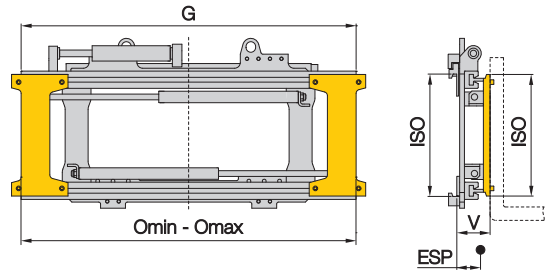
Fork Positioners	S 11 -	ZVPV 60-SV	ZVPV 60-SV	ZVPV 70-SV	ZVPV 80-SV	ZVPV 100-SV
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4270	5150	5960	6820	8500
LC (LSP) = 700 mm	kg	3970	4780	5570	6370	7980
LC (LSP) = 800 mm	kg	3710	4470	5220	5980	7520

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPV-Series with Separate Sideshift

2 hydraulic functions



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin - Omax	G	Side-shift	V	CoG (ESP)	Weight	Price	
				mm	mm						mm
S 11 - ZVPV 60-S	6000	600	4	500-1450	1450	± 150	174	65	350	8,840.-	
				500-1550	1550					365	8,980.-
				500-1750	1750					390	9,270.-
				500-1850	1850					405	9,580.-
S 11 - ZVPV 70-S	7000	600	4	500-1750	1750	± 150	190	70	430	9,825.-	
				500-1950	1950					460	9,910.-
				500-2050	2050					475	10,245.-
S 11 - ZVPV 80-S	8000	600	4	500-1950	1950	± 150	190	70	470	9,990.-	
				500-2100	2100					490	10,500.-
				500-2200	2200					500	10,845.-
S 11 - ZVPV 80/900-S	8000	900	4	500-1950	1950	± 150	214	85	595	12,780.-	
				500-2100	2100					625	13,275.-
				500-2200	2200					640	13,600.-
S 11 - ZVPV 100-S	10000	600	4	500-1950	1950	± 150	214	85	595	12,780.-	
				500-2100	2100					625	13,275.-
				500-2200	2200					640	13,600.-
S 11 - ZVPV 80/1100-S	8000	1100	4	500-2000	2100	± 150	214	90	645	13,560.-	
				500-2100	2200					665	14,210.-
				500-2300	2400					700	14,860.-

- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

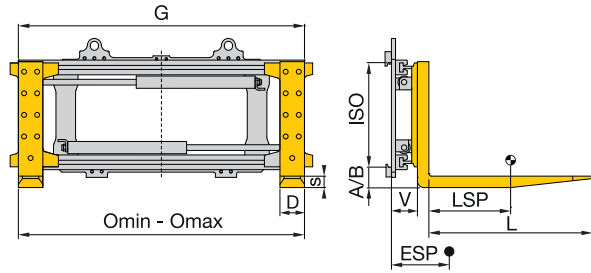
Fork Positioners with Separate Sideshift	S 11 -	ZVPV 60-S	ZVPV 60-S	ZVPV 70-S	ZVPV 80-S	ZVPV 100-S
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4170	5040	5850	6700	8280
LC (LSP) = 700 mm	kg	3880	4690	5470	6260	7790
LC (LSP) = 800 mm	kg	3630	4390	5130	5880	7350

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPV-Series with Sideshift Valve and Forks

2 hydraulic functions



Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length
	kg	mm		mm	mm	mm	mm	mm	mm	mm	mm	kg	€
S 11 - ZVPV 60-SV-Z	6000	600	4	500-1450	1450	150	65	1000	159	220	540	9,560.-	120.-
				500-1550	1550	150	65	1000	159	215	555	9,640.-	120.-
				500-1750	1750	150	65	1000	159	210	575	9,920.-	120.-
S 11 - ZVPV 70-SV-Z	7000	600	4	500-1750	1750	150	70	1000	171	215	640	10,680.-	130.-
				500-1950	1950	150	70	1000	171	210	670	10,770.-	130.-
				500-2050	2050	150	70	1000	171	205	685	11,100.-	130.-
S 11 - ZVPV 80-SV-Z	8000	600	4	500-1950	1950	200	70	1000	171	230	770	11,785.-	170.-
				500-2100	2100	200	70	1000	171	215	790	12,170.-	170.-
				500-2200	2200	200	70	1000	171	225	800	12,505.-	170.-
S 11 - ZVPV 80/900-SV-Z	8000	900	4	500-1950	1950	200	70	1000	184	215	880	14,305.-	170.-
				500-2100	2100	200	70	1000	184	210	910	14,795.-	170.-
				500-2200	2200	200	70	1000	184	205	925	15,120.-	170.-
S 11 - ZVPV 100-SV-Z	10000	600	4	500-1950	1950	200	70	1000	184	215	880	14,305.-	170.-
				500-2100	2100	200	70	1000	184	210	910	14,795.-	170.-
				500-2200	2200	200	70	1000	184	205	925	15,120.-	170.-
S 11 - ZVPV 80/1100-SV-Z	8000	1100	4	500-2000	2100	200	80	1000	184	225	980	15,785.-	190.-
				500-2100	2200	200	80	1000	184	220	1000	16,435.-	190.-
				500-2300	2400	200	80	1000	184	215	1035	17,085.-	190.-

- Available without sideshift

- For load backrests see page 174.

- No sideshifting when forks are in their end positions! See also page 9.

Standard values for residual load capacity of lift trucks**

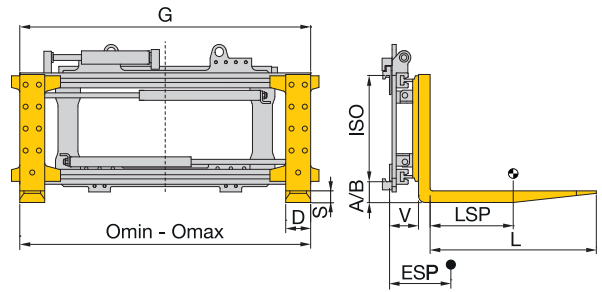
Fork Positioners with Sideshift Valve and Forks	S 11 -	ZVPV 60-SV-Z	ZVPV 60-SV-Z	ZVPV 70-SV-Z	ZVPV 80-SV-Z	ZVPV 100-SV-Z
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4230	5110	6000	6790	8570
LC (LSP) = 700 mm	kg	3930	4750	5600	6350	8050
LC (LSP) = 800 mm	kg	3680	4440	5260	5960	7590

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPV-Series with Separate Sideshift and Forks

2 hydraulic functions



Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Side-shift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length
	kg	mm		mm	mm	mm	mm	mm	mm	mm	mm	kg	€	€
S 11 - ZVPV 60-S-Z	6000	600	4	500-1450	1450	± 150	150	65	1000	174	215	600	10,650.-	120.-
				500-1550	1550		150	65	1000	174	210	615	10,790.-	120.-
				500-1750	1750		150	65	1000	174	205	640	11,080.-	120.-
				500-1850	1850		150	65	1000	174	200	655	11,390.-	120.-
S 11 - ZVPV 70-S-Z	7000	600	4	500-1750	1750	± 150	150	70	1000	190	210	700	11,840.-	130.-
				500-1950	1950		150	70	1000	190	205	730	11,925.-	130.-
				500-2050	2050		150	70	1000	190	200	745	12,260.-	130.-
S 11 - ZVPV 80-S-Z	8000	600	4	500-1950	1950	± 150	200	70	1000	190	230	830	12,805.-	170.-
				500-2100	2100		200	70	1000	190	225	850	13,320.-	170.-
				500-2200	2200		200	70	1000	190	220	860	13,660.-	170.-
S 11 - ZVPV 80/900-S-Z	8000	900	4	500-1950	1950	± 150	200	70	1000	214	230	955	15,540.-	170.-
				500-2100	2100		200	70	1000	214	225	985	16,035.-	170.-
				500-2200	2200		200	70	1000	214	220	1000	16,360.-	170.-
S 11 - ZVPV 100-S-Z	10000	600	4	500-1950	1950	± 150	200	70	1000	214	230	955	15,540.-	170.-
				500-2100	2100		200	70	1000	214	225	985	16,035.-	170.-
				500-2200	2200		200	70	1000	214	220	1000	16,360.-	170.-
S 11 - ZVPV 80/1100-S-Z	8000	1100	4	500-2000	2100	± 150	200	80	1000	214	240	1055	17,130.-	190.-
				500-2100	2200		200	80	1000	214	235	1075	17,780.-	190.-
				500-2300	2400		200	80	1000	214	230	1110	18,430.-	190.-

- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

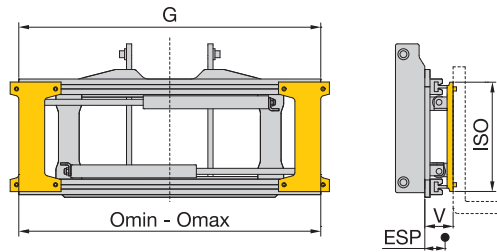
Fork Positioners with Sep. Sideshift and Forks	S 11 -	ZVPV 60-S-Z	ZVPV 60-S-Z	ZVPV 70-S-Z	ZVPV 80-S-Z	ZVPV 100-S-Z
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4150	5020	5890	6670	8360
LC (LSP) = 700 mm	kg	3870	4670	5500	6240	7860
LC (LSP) = 800 mm	kg	3610	4370	5170	5860	7410

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPVI-Series with Sideshift Valve, Integral

2 hydraulic functions



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	V	CoG (ESP)	Weight	Price
	kg	mm		mm	mm	mm	mm		
S 11 - ZVPVI 60-SV	6000	600	4	500-1450	1450	164	70	280	9,630.-
				500-1550	1550	164	70	295	9,720.-
				500-1750	1750	164	70	320	10,000.-
				500-1850	1850	164	70	335	10,310.-
S 11 - ZVPVI 70-SV	7000	600	4	500-1750	1750	185	75	400	10,555.-
				500-1950	1950	185	75	430	10,640.-
				500-2050	2050	185	75	450	10,975.-
S 11 - ZVPVI 80-SV	8000	600	4	500-1950	1950	185	75	435	10,865.-
				500-2100	2100	185	75	460	11,240.-
				500-2200	2200	185	75	480	11,570.-
S 11 - ZVPVI 80/900-SV	8000	900	4	500-1950	1950	194	75	530	13,390.-
				500-2100	2100	194	75	565	13,885.-
				500-2200	2200	194	75	590	14,210.-
S 11 - ZVPVI 100-SV	10000	600	4	500-1950	1950	194	75	530	13,390.-
				500-2100	2100	194	75	565	13,885.-
				500-2200	2200	194	75	590	14,210.-
S 11 - ZVPVI 80/1100-SV	8000	1100	4	500-2000	2100	204	80	640	14,060.-
				500-2100	2200	204	80	665	14,715.-
				500-2300	2400	204	80	710	15,365.-

- Lost load center, center of gravity and weight ex front edge of side brackets.
- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.

- No sideshifting when forks are in their end positions! See also page 9.

- Price includes side brackets.
- Available without sideshift.
- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

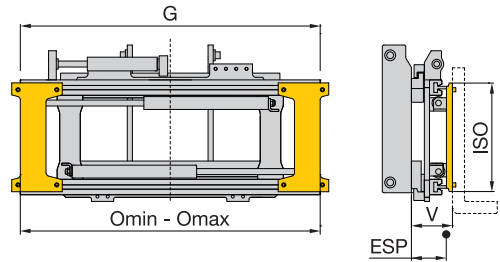
Fork Positioners integral	S 11 -	ZVPVI 60-SV	ZVPVI 60-SV	ZVPVI 70-SV	ZVPVI 80-SV	ZVPVI 100-SV
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4540	5460	6280	7170	9290
LC (LSP) = 700 mm	kg	4210	5060	5860	6690	8700
LC (LSP) = 800 mm	kg	3920	4710	5490	6270	8170

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPVI-Series with Separate Sideshift, Integral

2 hydraulic functions



For forks according to ISO 2328

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Side-shift	V	CoG (ESP)	Weight	Price
				mm	mm					
S 11 - ZVPVI 60-S	6000	600	4	500-1450	1450	± 150	235	95	505	11,195.-
				500-1550	1550		235	95	515	11,335.-
				500-1750	1750		235	95	540	11,625.-
				500-1850	1850		235	95	550	11,935.-
S 11 - ZVPVI 70-S	7000	600	4	500-1750	1750	± 150	246	100	580	12,425.-
				500-1950	1950		246	100	610	12,515.-
				500-2050	2050		246	100	630	12,845.-
S 11 - ZVPVI 80-S	8000	600	4	500-1950	1950	± 150	246	105	615	12,590.-
				500-2100	2100		246	105	635	13,105.-
				500-2200	2200		246	105	650	13,445.-
S 11 - ZVPVI 80/900-S	8000	900	4	500-1950	1950	± 150	270	115	770	15,330.-
				500-2100	2100		270	115	800	15,825.-
				500-2200	2200		270	115	820	16,150.-
S 11 - ZVPVI 100-S	10000	600	4	500-1950	1950	± 150	270	115	770	15,330.-
				500-2100	2100		270	115	800	15,825.-
				500-2200	2200		270	115	820	16,150.-
S 11 - ZVPVI 80/1100-S	8000	1100	4	500-2000	2100	± 150	270	120	815	16,110.-
				500-2100	2200		270	120	835	16,760.-
				500-2300	2400		270	120	875	17,410.-

- Lost load center, center of gravity and weight ex front edge of side brackets.
- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.

- Price includes side brackets.
- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

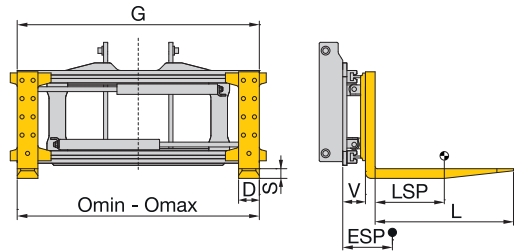
Fork Positioners with Sep. Sideshift, integral	S 11 -	ZVPVI 60-S	ZVPVI 60-S	ZVPVI 70-S	ZVPVI 80-S	ZVPVI 100-S
Load capacity lift truck	kg	5000	6000	7000	8000	10000
X*	mm	560	560	650	650	750
LC (LSP) = 600 mm	kg	4190	5060	5920	6770	8690
LC (LSP) = 700 mm	kg	3900	4710	5530	6330	8150
LC (LSP) = 800 mm	kg	3650	4400	5200	5940	7680

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPVI-Series with Sideshift Valve and Forks, Integral

2 hydraulic functions



Forks serially bolted on

Model	Load capacity	LC (LSP)	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length
	kg	mm	mm	mm	mm	mm	mm	mm	mm	kg	€	€
S 11 - ZVPVI 60-SV-Z	6000	600	500-1450	1450	150	65	1000	164	230	530	11,440.-	120.-
			500-1550	1550	150	65	1000	164	225	545	11,530.-	120.-
			500-1750	1750	150	65	1000	164	220	570	11,810.-	120.-
			500-1850	1850	150	65	1000	164	215	585	12,120.-	120.-
S 11 - ZVPVI 70-SV-Z	7000	600	500-1750	1750	150	70	1000	185	220	670	12,570.-	130.-
			500-1950	1950	150	70	1000	185	215	700	12,655.-	130.-
			500-2050	2050	150	70	1000	185	210	720	12,985.-	130.-
S 11 - ZVPVI 80-SV-Z	8000	600	500-1950	1950	200	70	1000	185	235	795	13,670.-	170.-
			500-2100	2100	200	70	1000	185	230	820	14,060.-	170.-
			500-2200	2200	200	70	1000	185	230	840	14,390.-	170.-
S 11 - ZVPVI 80/900-SV-Z	8000	900	500-1950	1950	200	70	1000	194	225	890	16,150.-	170.-
			500-2100	2100	200	70	1000	194	220	925	16,645.-	170.-
			500-2200	2200	200	70	1000	194	215	950	16,970.-	170.-
S 11 - ZVPVI 100-SV-Z	10000	600	500-1950	1950	200	70	1000	194	225	890	16,150.-	170.-
			500-2100	2100	200	70	1000	194	220	925	16,645.-	170.-
			500-2200	2200	200	70	1000	194	215	950	16,970.-	170.-
S 11 - ZVPVI 80/1100-SV-Z	8000	1100	500-2000	2100	200	80	1000	204	230	1050	17,630.-	190.-
			500-2100	2200	200	80	1000	204	225	1075	18,285.-	190.-
			500-2300	2400	200	80	1000	204	220	1120	18,935.-	190.-
S 11 - ZVPVI 120-SV-Z	12000	600	500-2000	2100	200	80	1000	204	230	1050	17,630.-	190.-
			500-2100	2200	200	80	1000	204	225	1075	18,285.-	190.-
			500-2300	2400	200	80	1000	204	220	1120	18,935.-	190.-

- Lost load center, center of gravity and weight ex front edge of side brackets.
- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.

- No sideshifting when forks are in their end positions!
See also page 9.

- Price includes side brackets.
- Available without sideshift.
- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

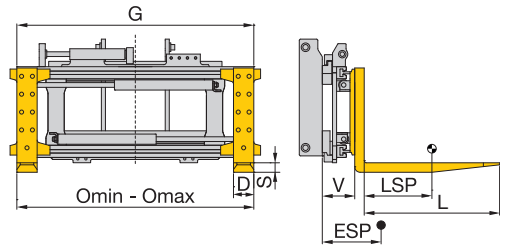
Fork Positioners, integral	S 11 -	ZVPVI 60-SV-Z	ZVPVI 60-SV-Z	ZVPVI 70-SV-Z	ZVPVI 80-SV-Z	ZVPVI 100-SV-Z	ZVPVI 120-SV-Z
Load capacity lift truck	kg	5000	6000	7000	8000	10000	12000
X*	mm	560	560	650	650	750	800
LC (LSP) = 600 mm	kg	4520	5430	6320	7150	9370	11120
LC (LSP) = 700 mm	kg	4190	5030	5890	6670	8760	10430
LC (LSP) = 800 mm	kg	3910	4690	5520	6240	8230	9820

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVPVI-Series with Separate Sideshift, Integral and Forks

2 hydraulic functions



Forks serially bolted on

Model	Load capacity	LC (LSP)	Omin-Omax	G	Sideshift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length
	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	€	€
S 11 - ZVPVI 60-S-Z	6000	600	500-1450	1450	± 150	150	65	1000	235	225	755	13,005.-	120.-
			500-1550	1550		150	65	1000	235	220	765	13,145.-	120.-
			500-1750	1750		150	65	1000	235	215	790	13,435.-	120.-
			500-1850	1850		150	65	1000	235	215	800	13,745.-	120.-
S 11 - ZVPVI 70-S-Z	7000	600	500-1750	1750	± 150	150	70	1000	246	225	850	14,440.-	130.-
			500-1950	1950		150	70	1000	246	220	880	14,525.-	130.-
			500-2050	2050		150	70	1000	246	215	900	14,860.-	130.-
S 11 - ZVPVI 80-S-Z	8000	600	500-1950	1950	± 150	200	70	1000	246	250	975	15,405.-	170.-
			500-2100	2100		200	70	1000	246	245	995	15,920.-	170.-
			500-2200	2200		200	70	1000	246	240	1010	16,260.-	170.-
S 11 - ZVPVI 80/900-S-Z	8000	900	500-1950	1950	± 150	200	70	1000	270	245	1130	18,095.-	170.-
			500-2100	2100		200	70	1000	270	240	1160	18,585.-	170.-
			500-2200	2200		200	70	1000	270	235	1180	18,915.-	170.-
S 11 - ZVPVI 100-S-Z	10000	600	500-1950	1950	± 150	200	70	1000	270	245	1130	18,095.-	170.-
			500-2100	2100		200	70	1000	270	240	1160	18,585.-	170.-
			500-2200	2200		200	70	1000	270	235	1180	18,915.-	170.-
S 11 - ZVPVI 80/1100-S-Z	8000	1100	500-2000	2100	± 150	200	80	1000	270	255	1225	19,680.-	190.-
			500-2100	2200		200	80	1000	270	250	1245	20,330.-	190.-
			500-2300	2400		200	80	1000	270	250	1285	20,980.-	190.-
S 11 - ZVPVI 120-S-Z	12000	600	500-2000	2100	± 150	200	80	1000	270	255	1225	19,680.-	190.-
			500-2100	2200		200	80	1000	270	250	1245	20,330.-	190.-
			500-2300	2400		200	80	1000	270	250	1285	20,980.-	190.-

- Lost load center, center of gravity and weight ex front edge of side brackets.

- Price includes side brackets.

- Detail drawings of fork carriage, roller studs and chain anchors or the fork carriage have to be provided by the customer.

- For load backrests see page 174.

Standard values for residual load capacity of lift trucks**

Fork Positioners, integral	S 11 -	ZVPVI 60-S-Z	ZVPVI 60-S-Z	ZVPVI 70-S-Z	ZVPVI 80-S-Z	ZVPVI 100-S-Z	ZVPVI 120-S-Z
Load capacity lift truck	kg	5000	6000	7000	8000	10000	12000
X*	mm	560	560	650	650	750	800
LC (LSP) = 600 mm	kg	4170	5030	5960	6740	8760	10540
LC (LSP) = 700 mm	kg	3880	4690	5570	6300	8220	9920
LC (LSP) = 800 mm	kg	3630	4380	5230	5920	7750	9360

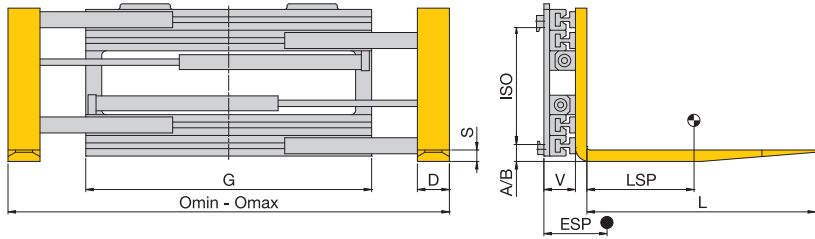
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

Fork Positioners ZVKG-Series

1 hydraulic function

In order to keep maintenance costs low, we recommend using bolt-on forks.



Large opening range · Forks serially welded on

Model	Load capacity	LC (LSP)	ISO	Omin - Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg	mm		mm	mm	mm	mm	mm	mm	mm				
S 11 - ZVKG 18	1800	500	2	560-1640	950	120	40	1000	130	165	340	5,450.-	65.-	200.-
S 11 - ZVKG 25	2500	500	2	560-1740	1050	125	45	1000	130	175	375	5,975.-	70.-	245.-
S 11 - ZVKG 25/600	2500	600	2	560-1740	1050	125	45	1000	130	170	395	6,260.-	70.-	265.-
S 11 - ZVKG 30	3000	500	3	560-1840	1150	140	50	1000	130	185	435	7,235.-	80.-	295.-
S 11 - ZVKG 40	4000	500	3	560-1940	1250	140	50	1000	140	170	520	7,930.-	80.-	360.-
S 11 - ZVKG 45	4500	600	3	560-2040	1350	150	60	1000	140	185	580	9,075.-	100.-	370.-
S 11 - ZVKG 48	5000	600	3	560-2040	1350	150	60	1000	140	180	600	9,360.-	100.-	390.-
S 11 - ZVKG 50	5000	600	4	560-2140	1450	150	60	1000	155	175	715	9,820.-	100.-	400.-
S 11 - ZVKG 60	6000	600	4	560-2280	1600	150	65	1000	155	175	760	10,805.-	120.-	485.-
S 11 - ZVKG 70	7000	600	4	560-2410	1750	150	70	1000	155	180	800	11,950.-	130.-	515.-
S 11 - ZVKG 80	8000	600	4	560-2410	1750	200	70	1000	170	180	1110	14,270.-	170.-	580.-
S 11 - ZVKG 80/900	8000	900	4	560-2650	2000	200	70	1000	170	175	1190	19,250.-	170.-	630.-
S 11 - ZVKG 100	10000	600	4	560-2650	2000	200	70	1000	170	175	1190	19,250.-	170.-	630.-

- Not suited for clamping applications

- Surcharge for ISO 2 bolt-on forks € 550.-
- Surcharge for ISO 3 bolt-on forks € 675.-
- Surcharge for ISO 4 bolt-on forks € 830.-

- Surcharge for integral design, see page 195.

- Surcharge for sideshift valve, see page 195.

Please note: No sideshifting when handling euro-pallets lengthwise.

- Version for reach trucks see page 94/95.

Standard values for residual load capacity of lift trucks**

Fork Positioners Spreaders	S 11 -	ZVKG 18	ZVKG 18	ZVKG 25	ZVKG 30	ZVKG 30	ZVKG 40	ZVKG 40	ZVKG 45	ZVKG 48/50	ZVKG 60	ZVKG 70	ZVKG 80	ZVKG 100
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750
LC (LSP) = 500 mm	kg	1180	1650	2060	2460	2940	3320	3760	4180					
LC (LSP) = 600 mm	kg	1070	1510	1890	2250	2710	3050	3450	3840	4190	5030	6000	6640	8500
LC (LSP) = 700 mm	kg	980	1400	1740	2080	(2360)	2820	(3150)	3560	3890	4670	5600	6210	7980
LC (LSP) = 800 mm	kg	900	(1240)	1620	1930	(2060)	2630	(2750)	3310	3630	4370	5250	5820	7510

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

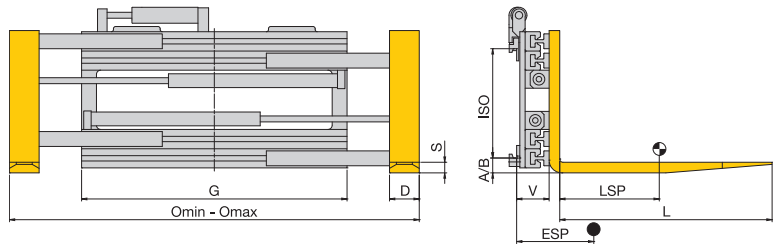
* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVKG-Series with Separate Sideshift

2 hydraulic functions

In order to keep maintenance costs low, we recommend using bolt-on forks.



Large opening range · Forks serially welded on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Side-shift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg														
S 11 - ZVKG 18-S	1800	500	2	560-1640	950	±100	120	40	1000	145	165	375	6,605.-	65.-	200.-
S 11 - ZVKG 25-S	2500	500	2	560-1740	1050	±100	125	45	1000	145	175	410	7,225.-	70.-	245.-
S 11 - ZVKG 25/600-S	2500	600	2	560-1740	1050	±100	125	45	1000	145	170	430	7,595.-	70.-	265.-
S 11 - ZVKG 30-S	3000	500	3	560-1840	1150	±100	140	50	1000	145	185	475	8,560.-	80.-	295.-
S 11 - ZVKG 40-S	4000	500	3	560-1940	1250	±100	140	50	1000	155	170	560	9,400.-	80.-	360.-
S 11 - ZVKG 45-S	4500	600	3	560-2040	1350	±100	150	60	1000	155	190	620	10,470.-	100.-	370.-
S 11 - ZVKG 48-S	5000	600	3	560-2040	1350	±100	150	60	1000	155	185	640	10,840.-	100.-	390.-
S 11 - ZVKG 50-S	5000	600	4	560-2140	1450	±100	150	60	1000	170	175	775	11,720.-	100.-	400.-
S 11 - ZVKG 60-S	6000	600	4	560-2280	1600	±150	150	65	1000	170	175	820	13,115.-	120.-	485.-
S 11 - ZVKG 70-S	7000	600	4	560-2410	1750	±150	150	70	1000	175	180	885	14,230.-	130.-	515.-
S 11 - ZVKG 80-S	8000	600	4	560-2410	1750	±150	200	70	1000	190	190	1190	16,530.-	170.-	580.-
S 11 - ZVKG 80/900-S	8000	900	4	560-2650	2000	±150	200	70	1000	190	185	1270	21,580.-	170.-	630.-
S 11 - ZVKG 100-S	10000	600	4	560-2650	2000	±150	200	70	1000	190	185	1270	21,580.-	170.-	630.-

- Not suited for clamping applications

- Surcharge for ISO 2 bolt-on forks € 550.-

- Surcharge for ISO 3 bolt-on forks € 675.-

- Surcharge for ISO 4 bolt-on forks € 830.-

- Surcharge for integral design, see page 195.

- Version for reach trucks see page 94/95.

Standard values for residual load capacity of lift trucks**

Fork Positioners	S 11 -	ZVKG 18-S	ZVKG 18-S	ZVKG 25-S	ZVKG 30-S	ZVKG 30-S	ZVKG 40-S	ZVKG 40-S	ZVKG 45-S	ZVKG 48/50-S	ZVKG 60-S	ZVKG 70-S	ZVKG 80-S	ZVKG 100-S
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000	10000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650	750
LC (LSP) = 500 mm	kg	1140	1610	2020	2400	2880	3250	3680	4100					
LC (LSP) = 600 mm	kg	1040	1480	1850	2200	2650	3000	3400	3780	4110	4940	5860	6500	8340
LC (LSP) = 700 mm	kg	950	1360	1710	2030	(2360)	2770	3140	3500	3830	4600	5480	6090	7830
LC (LSP) = 800 mm	kg	880	(1240)	1590	1900	(2060)	2580	(2750)	3260	3580	4300	5140	5720	7380

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

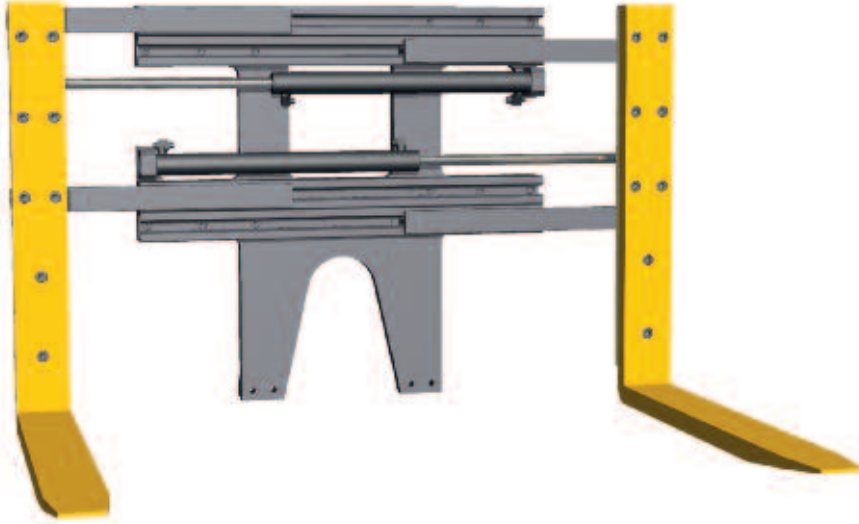
* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners for Reach Trucks

For reach trucks, we recommend using hydraulic fork spreaders at a body width that corresponds to the inner width of the truck's support arms. If, due to a greater opening range, a wider frame should be required, we

recommend positioning the frame above the support arms. For this purpose, the forks and the mounting are extended downwards by the height of the support arms.



S11



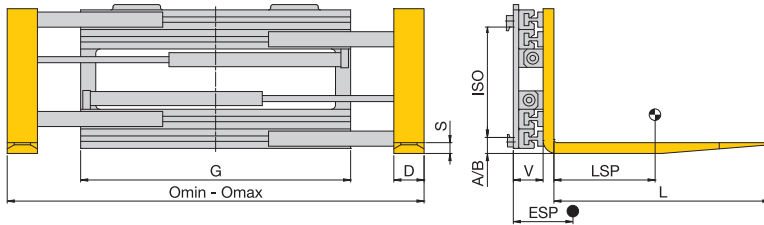
ZVKGS, narrow design for reach trucks



ZVKGS-H, extended height for reach trucks

Fork Positioners ZVKGs-Series for Reach Trucks

1 hydraulic function



Large opening range · Forks serially welded on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V*	CoG* (ESP*)	Weight*	Price	Surcharge per 100 mm add. fork length
	kg	mm		mm	mm	mm	mm	mm	mm	mm	kg	€	€
S 11 - ZVKGs 18	1500	600	2	560-1560	880	120	40	1000	130	170	335	6,710.-	65.-
S 11 - ZVKGs 25	2200	600	2	560-1560	880	125	45	1000	130	180	350	6,815.-	70.-

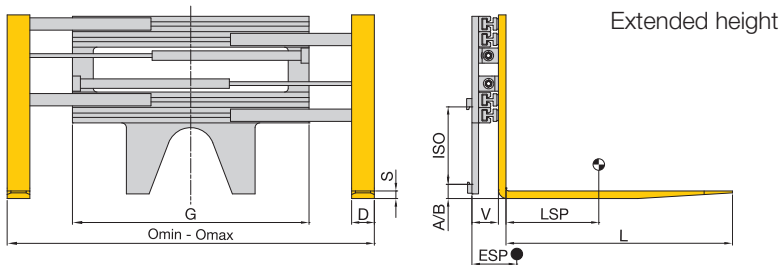
- Not suited for clamping applications

- Surcharge for bolt-on forks € 550.-
- Surcharge for separate sideshift € 1,250.-

- Surcharge for forced hydraulic synchronism on request.

- Camera systems on request.

* Can vary depending on the vehicle type.



Large opening range · Forks serially welded on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length	Surcharge per 100 mm add. opening range
	kg	mm		mm	mm	mm	mm	mm	mm	mm	kg	€	€	€
S 11 - ZVKGs 18-H	1500	600	2	560-1840	1150	120	40	1000	140	135	480	8,065.-	65.-	200.-
S 11 - ZVKGs 25-H	2200	600	2	560-1840	1150	125	45	1000	140	145	530	8,180.-	70.-	245.-

- Not suited for clamping applications

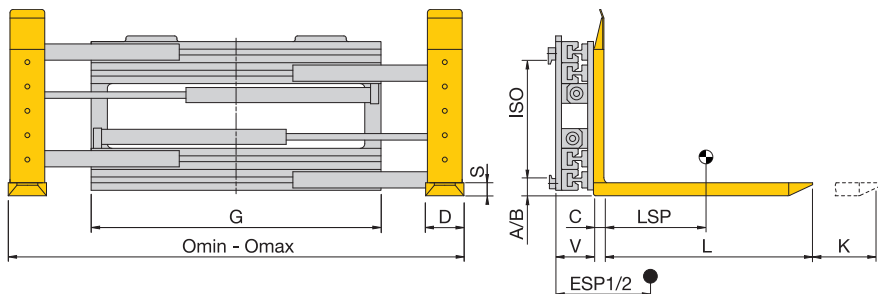
- Surcharge for bolt-on forks € 675.-
- Surcharge for separate sideshift € 1,365.-

- Surcharge for forced hydraulic synchronism on request.

- Camera systems on request.

Fork Positioners ZVKGs-series with Telescopic Forks for Reach Trucks

2 hydraulic functions



S11

Large opening range · Forks serially bolted on

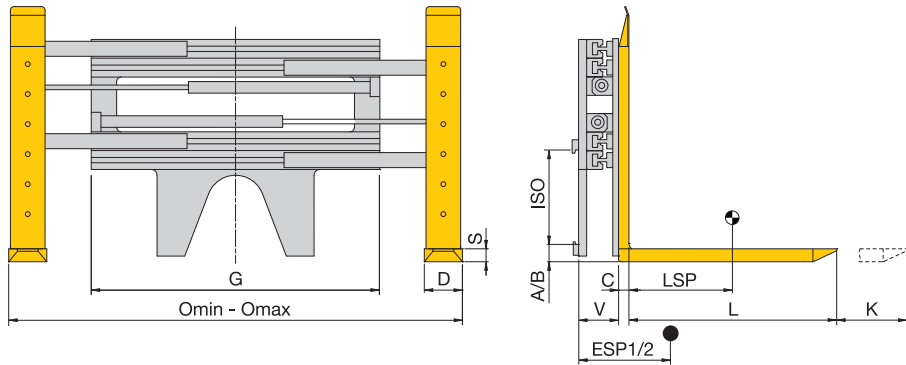
Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Fork-cross section* D x S		C	L	K	V**	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)**	Weight**	Price	Surcharge per 100 mm add. fork length
	kg	mm		mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	€	€
S 11 - ZVKGs 18/TG 20 1200/850	1800	600	2	560-1560	880	135	56	45	1200	850	155	280/340	425	11,520.-	200.-
S 11 - ZVKGs 18/TG 20 1350/1000	1800	600	2	560-1560	880	135	56	45	1350	1000	155	320/395	445	11,720.-	200.-
S 11 - ZVKGs 25/TG 25 1200/850	2500	600	2	560-1560	880	165	56	45	1200	850	155	305/370	475	11,780.-	240.-
S 11 - ZVKGs 25/TG 25 1350/1000	2500	600	2	560-1560	880	165	56	45	1350	1000	155	350/430	495	12,010.-	240.-

- Not suited for clamping applications

- Surcharge for separate sideshift € 1,250.-
- Surcharge for forced hydraulic synchronism on request.
- * Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker)
- * Surcharge for wear-resistant manganese steel strips on underside of outer forks, dimension S increases by 5 mm € 250.-
- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-
- Surcharge for pallet stops A3 (height 850 mm) € 310.-
- Surcharge for solenoid valve € 920.-
- ** Can vary depending on the vehicle type.
- Camera systems on request.

Fork Positioners ZVKG-S-H-series with Telescopic Forks for Reach Trucks

2 hydraulic functions



Large opening range · Forks serially bolted on

Model	Load capacity	LC (LSP)	ISO	Omin-Omax	G	Fork cross section*		C	L	K	V**	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)**	Weight**	Price	Surcharge per 100 mm add. fork length	
	kg	mm				mm	mm								mm	mm
S 11 - ZVKG 18-H/TG 20 1200/850	1800	600	2	560-1840	1150	135	56	45	1200	850	165	220/265	590	13,650.-	200.-	200.-
S 11 - ZVKG 18-H/TG 20 1350/1000	1800	600	2	560-1840	1150	135	56	45	1350	1000	165	255/310	605	13,850.-	200.-	200.-
S 11 - ZVKG 25-H/TG 25 1200/850	2500	600	2	560-1840	1150	165	56	45	1200	850	165	240/290	660	13,950.-	240.-	245.-
S 11 - ZVKG 25-H/TG 25 1350/1000	2500	600	2	560-1840	1150	165	56	45	1350	1000	165	275/335	680	14,180.-	240.-	245.-

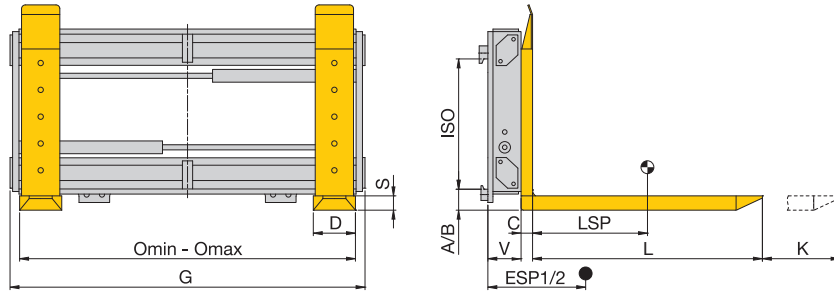
- Not suited for clamping applications

- Surcharge for separate sideshift € 1,365.-
- Surcharge for forced hydraulic synchronism on request.
- * Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker)
- * Surcharge for wear-resistant manganese steel strips on underside of outer forks, dimension S increases by 5 mm € 250.-
- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-
- Surcharge for pallet stops A3 (height 850 mm) € 310.-
- Surcharge for solenoid valve € 920.-
- ** Can vary depending on the vehicle type.
- Camera systems on request.

S11

Fork Positioners ZV-Series with Telescopic Forks

2 hydraulic functions



LC = 600 mm · Forks serially bolted on

Model	Load capacity	for lift trucks up to	ISO	Omin-Omax	G	Fork cross section* D x S		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight	Price	Surcharge per 100 mm add. fork length	
						mm	mm								€	€
S 11 - ZV 20/TG 20 1200/850	2000	2,0	2	400-1000	1090	135	56	45	1200	850	120	305/385	335	9,590.-	200.-	180.-
S 11 - ZV 20/TG 20 1300/950				400-1000	1090	135	56	45	1300	950	120	335/425	350	9,820.-	200.-	180.-
S 11 - ZV 25/TG 25 1200/850	2500	2,5	2	400-1100	1190	165	56	45	1200	850	125	320/405	395	10,345.-	240.-	235.-
S 11 - ZV 25/TG 25 1300/950				400-1100	1190	165	56	45	1300	950	125	355/445	410	10,595.-	240.-	235.-
S 11 - ZV 30/TG 35 1200/850	3000	3,0	3	400-1200	1300	165	56	45	1200	850	130	280/350	475	10,795.-	250.-	275.-
S 11 - ZV 30/TG 35 1300/950				400-1200	1300	165	56	45	1300	950	130	310/385	490	11,060.-	250.-	275.-
S 11 - ZV 40/TG 45 1200/850	4000	3,5	3	400-1300	1400	165	56	45	1200	850	135	275/340	500	11,815.-	300.-	340.-
S 11 - ZV 40/TG 45 1300/950				400-1300	1400	165	56	45	1300	950	135	305/375	515	12,130.-	300.-	340.-
S 11 - ZV 45/TG 45 1200/850	4500	4,0	3	400-1300	1400	165	56	45	1200	850	150	270/330	540	12,235.-	300.-	390.-
S 11 - ZV 45/TG 45 1300/950				400-1300	1400	165	56	45	1300	950	150	300/365	555	12,550.-	300.-	390.-
S 11 - ZV 45/TG 60 1200/850	4500	4,5	3	400-1300	1400	167	64	50	1200	850	150	290/365	575	12,990.-	330.-	390.-
S 11 - ZV 45/TG 60 1300/950				400-1300	1400	167	64	50	1300	950	150	320/400	590	13,335.-	330.-	390.-
S 11 - ZV 48/TG 60 1200/850	5000	5,0	3	400-1300	1400	167	64	50	1200	850	150	280/355	595	13,430.-	330.-	400.-
S 11 - ZV 48/TG 60 1300/950				400-1300	1400	167	64	50	1300	950	150	310/390	610	13,780.-	330.-	400.-
S 11 - ZV 60/TG 60 1200/850	6000	5,0	4	400-1400	1500	167	64	50	1200	850	155	265/330	660	14,690.-	330.-	485.-
S 11 - ZV 60/TG 60 1300/950				400-1400	1500	167	64	50	1300	950	155	290/365	675	15,040.-	330.-	485.-
S 11 - ZV 70/TG 80 1200/850	7000	6,0	4	500-1700	1810	219	65	50	1200	850	170	265/325	900	16,645.-	400.-	570.-
S 11 - ZV 70/TG 80 1300/950				500-1700	1810	219	65	50	1300	950	170	290/360	920	17,065.-	400.-	570.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.

- Camera systems on request.

- The handling of 2 euro-pallets lengthwise requires a usable length of 1350 mm with 1000 mm stroke.

* Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

* Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm € 250.-

- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-

- Surcharge for pallet stops A3 (height 850 mm). € 310.-

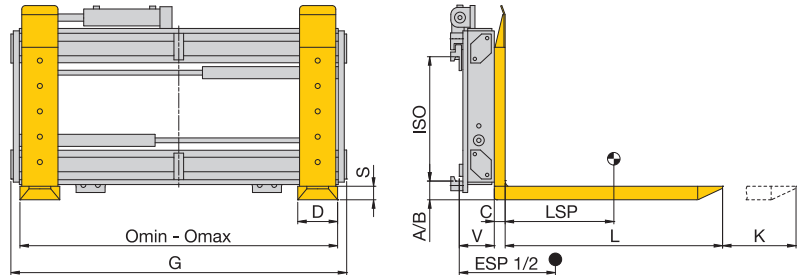
- Surcharge for integral design, see page 195.

- Different load capacities and versions available on request.

See page 106 for standard values for the residual load capacity of lift trucks.

Fork Positioners ZV-Series with Telescopic Forks and Separate Sideshift

2 hydraulic functions
+ solenoid valve



LC = 600 mm · Forks serially bolted on · Incl. solenoid valve

Model	Load capacity		ISO	Omin-Omax	G	Side-shift	Fork cross section* D x S		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight	Price	Surcharge per 100 mm add. fork length	
	kg	to					mm	mm								mm	mm
S 11 - ZV 20/TG 20 1200/850-S	2000	2,0	2	400-1000	1090	± 100	135	56	45	1200	850	135	295/370	365	11,460.-	200.-	180.-
S 11 - ZV 20/TG 20 1300/950-S				400-1000	1090	± 100	135	56	45	1300	950	135	325/405	380	11,690.-	200.-	180.-
S 11 - ZV 25/TG 25 1200/850-S	2500	2,5	2	400-1100	1190	± 100	165	56	45	1200	850	140	315/390	420	12,215.-	240.-	235.-
S 11 - ZV 25/TG 25 1300/950-S				400-1100	1190	± 100	165	56	45	1300	950	140	345/430	435	12,465.-	240.-	235.-
S 11 - ZV 30/TG 35 1200/850-S	3000	3,0	3	400-1200	1300	± 100	165	56	45	1200	850	145	275/335	515	12,720.-	250.-	275.-
S 11 - ZV 30/TG 35 1300/950-S				400-1200	1300	± 100	165	56	45	1300	950	145	300/370	530	12,980.-	250.-	275.-
S 11 - ZV 40/TG 45 1200/850-S	4000	3,5	3	400-1300	1400	± 100	165	56	45	1200	850	150	270/330	540	13,735.-	300.-	340.-
S 11 - ZV 40/TG 45 1300/950-S				400-1300	1400	± 100	165	56	45	1300	950	150	295/360	555	14,050.-	300.-	340.-
S 11 - ZV 45/TG 45 1200/850-S	4500	4,0	3	400-1300	1400	± 100	165	56	45	1200	850	165	265/320	580	14,155.-	300.-	390.-
S 11 - ZV 45/TG 45 1300/950-S				400-1300	1400	± 100	165	56	45	1300	950	165	290/355	595	14,470.-	300.-	390.-
S 11 - ZV 45/TG 60 1200/850-S	4500	4,5	3	400-1300	1400	± 100	167	64	50	1200	850	165	285/355	615	14,910.-	330.-	390.-
S 11 - ZV 45/TG 60 1300/950-S				400-1300	1400	± 100	167	64	50	1300	950	165	310/390	630	15,260.-	330.-	390.-
S 11 - ZV 48/TG 60 1200/850-S	5000	5,0	3	400-1300	1400	± 100	167	64	50	1200	850	165	280/345	635	15,355.-	330.-	400.-
S 11 - ZV 48/TG 60 1300/950-S				400-1300	1400	± 100	167	64	50	1300	950	165	305/380	650	15,700.-	330.-	400.-
S 11 - ZV 60/TG 60 1200/850-S	6000	5,0	4	400-1400	1500	± 150	167	64	50	1200	850	170	255/315	715	17,160.-	330.-	485.-
S 11 - ZV 60/TG 60 1300/950-S				400-1400	1500	± 150	167	64	50	1300	950	170	280/350	730	17,505.-	330.-	485.-
S 11 - ZV 70/TG 80 1200/850-S	7000	6,0	4	500-1700	1810	± 150	219	65	50	1200	850	190	260/315	995	19,240.-	400.-	570.-
S 11 - ZV 70/TG 80 1300/950-S				500-1700	1810	± 150	219	65	50	1300	950	190	285/350	1015	19,660.-	400.-	570.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.

- Camera systems on request.

- The handling of 2 euro-pallets lengthwise requires a usable length of 1350 mm with 1000 mm stroke.

* Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

* Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm € 250.-

- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-

- Surcharge for pallet stops A3 (height 850 mm) € 310.-

- Surcharge for integral design, see page 195.

- Different load capacities and versions available on request.

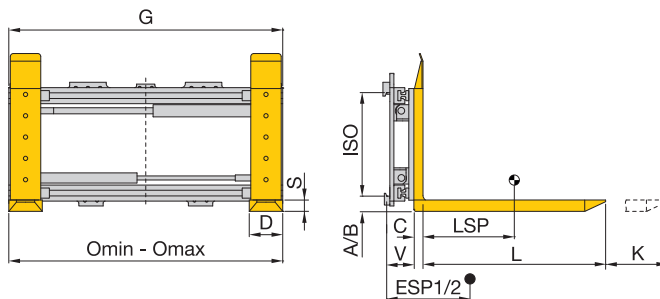
- Price reduction without solenoid valve

€ 390.-

See page 106 for standard values for the residual load capacity of lift trucks.

Fork Positioners ZVP-Series with Telescopic Forks

2 hydraulic functions



LC = 600 mm · Forks serially bolted on

Model	Load capacity	for lift trucks up to	ISO	Omin-Omax	G	Fork cross section* D x S		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight	Price
	kg	to		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	kg
S 11 - ZVP 20/TG 20 1200/850	2000	1,8	2	400-1050	1050	135	56	45	1200	850	119	345/435	285	8,700.-
				400-1150	1150	135	56	45	1200	850	119	340/430	290	8,800.-
S 11 - ZVP 20/TG 20 1300/950	2000	1,8	2	400-1050	1050	135	56	45	1300	950	119	375/480	300	8,960.-
				400-1150	1150	135	56	45	1300	950	119	370/475	305	9,060.-
S 11 - ZVP 25/TG 25 1200/850	2500	2,5	2	400-1050	1050	165	56	45	1200	850	119	370/470	325	8,915.-
				400-1150	1150	165	56	45	1200	850	119	365/460	330	9,010.-
				400-1250	1250	165	56	45	1200	850	119	360/455	335	9,105.-
S 11 - ZVP 25/TG 25 1300/950	2500	2,5	2	400-1050	1050	165	56	45	1300	950	119	410/515	340	9,170.-
				400-1150	1150	165	56	45	1300	950	119	400/510	345	9,265.-
				400-1250	1250	165	56	45	1300	950	119	395/505	350	9,360.-
S 11 - ZVP 35/TG 35 1200/850	3500	3,0	3	400-1050	1050	165	56	45	1200	850	124	335/415	380	9,315.-
				400-1150	1150	165	56	45	1200	850	124	330/410	385	9,410.-
				400-1250	1250	165	56	45	1200	850	124	325/405	390	9,505.-
				400-1350	1350	165	56	45	1200	850	124	320/400	395	9,600.-
S 11 - ZVP 35/TG 35 1300/950	3500	3,0	3	400-1050	1050	165	56	45	1300	950	124	370/470	390	9,580.-
				400-1150	1150	165	56	45	1300	950	124	365/465	395	9,675.-
				400-1250	1250	165	56	45	1300	950	124	365/460	400	9,765.-
				400-1350	1350	165	56	45	1300	950	124	360/455	405	9,860.-
S 11 - ZVP 48/TG 45 1200/850	4500	4,0	3	400-1250	1250	165	56	45	1200	850	147	330/405	415	11,110.-
				400-1350	1350	165	56	45	1200	850	147	325/400	420	11,225.-
				400-1450	1450	165	56	45	1200	850	147	320/400	425	11,340.-
				400-1550	1550	165	56	45	1200	850	147	320/395	430	11,460.-
S 11 - ZVP 48/TG 45 1300/950	4500	4,0	3	400-1250	1250	165	56	45	1300	950	147	365/450	425	11,425.-
				400-1350	1350	165	56	45	1300	950	147	360/450	430	11,540.-
				400-1450	1450	165	56	45	1300	950	147	355/445	435	11,655.-
				400-1550	1550	165	56	45	1300	950	147	355/440	440	11,775.-

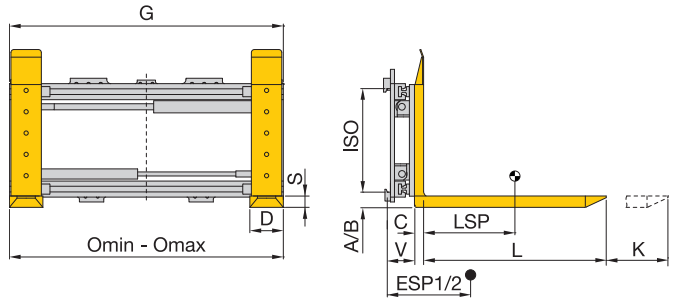
S11

Fork Positioners

ZVP-Series

with Telescopic Forks

2 hydraulic functions



LC = 600 mm · Forks serially bolted on

Model	Load capacity	for lift trucks up to	ISO	Omin-Omax	G	Fork cross section*		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight	Price
				mm	mm	mm	mm							
S 11 - ZVP 48/TG 60 1200/850	4800	4,5	3	400-1250	1250	167	64	50	1200	850	147	350/445	445	11,865.-
				400-1350	1350	167	64	50	1200	850	147	350/440	450	11,985.-
				400-1450	1450	167	64	50	1200	850	147	345/435	455	12,100.-
				400-1550	1550	167	64	50	1200	850	147	340/430	460	12,215.-
S 11 - ZVP 48/TG 60 1300/950	4800	4,5	3	400-1250	1250	167	64	50	1300	950	147	385/490	460	12,215.-
				400-1350	1350	167	64	50	1300	950	147	380/485	465	12,330.-
				400-1450	1450	167	64	50	1300	950	147	380/480	470	12,445.-
				400-1550	1550	167	64	50	1300	950	147	375/480	475	12,560.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.
- The attachment may not be used as fork extension for handling 2 euro-pallets lengthwise.

* Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

* Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm € 250.-

- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-

- Surcharge for pallet stops A3 (height 850 mm) € 310.-

- Camera systems on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners with Telescopic Forks	S 11 -	ZVP 25/ TG 25	ZVP 25/ TG 25	ZVP 25/ TG 25	ZVP 35/ TG 35	ZVP 48/ TG 45	ZVP 48/ TG 45	ZVP 48/ TG 60
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500
X*	mm	370	450	450	450	500	500	500
LC (LSP) = 600 mm	kg	1290	1470	1880	2250	2640	3050	3410
LC (LSP) = 1200 mm	kg	820	970	1230	1480	1770	2040	2300
LC (LSP) = 1450 mm	kg	720	840	1070	1290	1560	1800	2010
LC (LSP) = 1650 mm	kg	640	760	(910)	1180	1420	1640	(1750)

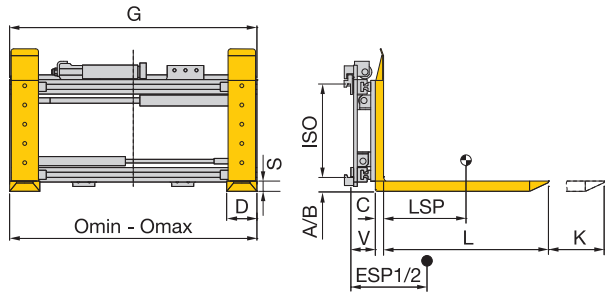
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVP-Series with Telescopic Forks and Separate Sideshift

2 hydraulic functions
+ solenoid valve



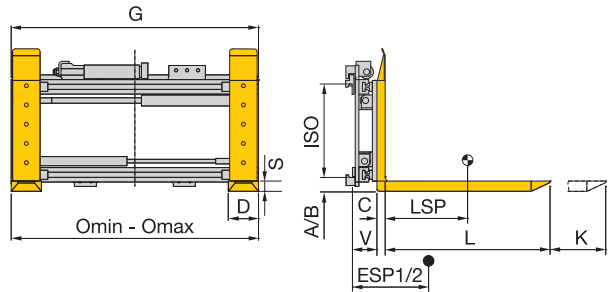
LC = 600 mm · Forks serially bolted on · Incl. solenoid valve

Model	Load capacity kg	for lift trucks up to to	ISO	Omin-Omax mm	G mm	Side-shift mm	Fork cross section* D x S		C mm	L mm	K mm	V mm	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)		Weight kg	Price €
							mm	mm					mm	mm		
S 11 - ZVP 20/TG 20 1200/850-S	2000	1,8	2	400-1050	1050	± 100	135	56	45	1200	850	134	320/405	320	10,050.-	
				400-1150	1150	± 100	135	56	45	1200	850	134	315/400	325	10,145.-	
S 11 - ZVP 20/TG 20 1300/950-S	2000	1,8	2	400-1050	1050	± 100	135	56	45	1300	950	134	350/445	335	10,300.-	
				400-1150	1150	± 100	135	56	45	1300	950	134	345/440	340	10,395.-	
S 11 - ZVP 25/TG 25 1200/850-S	2500	2,5	2	400-1050	1050	± 100	165	56	45	1200	850	134	350/440	360	10,260.-	
				400-1150	1150	± 100	165	56	45	1200	850	134	345/430	365	10,355.-	
				400-1250	1250	± 100	165	56	45	1200	850	134	340/425	370	10,450.-	
S 11 - ZVP 25/TG 25 1300/950-S	2500	2,5	2	400-1050	1050	± 100	165	56	45	1300	950	134	385/485	375	10,515.-	
				400-1150	1150	± 100	165	56	45	1300	950	134	380/480	380	10,605.-	
				400-1250	1250	± 100	165	56	45	1300	950	134	375/475	385	10,700.-	
S 11 - ZVP 35/TG 35 1200/850-S	3500	3,0	3	400-1050	1050	± 100	165	56	45	1200	850	139	320/400	415	10,765.-	
				400-1150	1150	± 100	165	56	45	1200	850	139	320/395	420	10,860.-	
				400-1250	1250	± 100	165	56	45	1200	850	139	315/390	425	10,955.-	
				400-1350	1350	± 100	165	56	45	1200	850	139	310/385	430	11,050.-	
S 11 - ZVP 35/TG 35 1300/950-S	3500	3,0	3	400-1050	1050	± 100	165	56	45	1300	950	139	355/445	425	11,025.-	
				400-1150	1150	± 100	165	56	45	1300	950	139	355/440	430	11,120.-	
				400-1250	1250	± 100	165	56	45	1300	950	139	350/435	435	11,215.-	
				400-1350	1350	± 100	165	56	45	1300	950	139	345/430	440	11,310.-	
S 11 - ZVP 48/TG 45 1200/850-S	4500	4,0	3	400-1250	1250	± 100	165	56	45	1200	850	162	315/385	455	12,580.-	
				400-1350	1350	± 100	165	56	45	1200	850	162	310/385	460	12,695.-	
				400-1450	1450	± 100	165	56	45	1200	850	162	310/380	465	12,810.-	
				400-1550	1550	± 100	165	56	45	1200	850	162	305/375	470	12,930.-	
S 11 - ZVP 48/TG 45 1300/950-S	4500	4,0	3	400-1250	1250	± 100	165	56	45	1300	950	162	350/430	465	12,895.-	
				400-1350	1350	± 100	165	56	45	1300	950	162	345/425	470	13,010.-	
				400-1450	1450	± 100	165	56	45	1300	950	162	340/420	475	13,125.-	
				400-1550	1550	± 100	165	56	45	1300	950	162	340/415	480	13,245.-	

S11

Fork Positioners ZVP-Series with Telescopic Forks and Separate Sideshift

2 hydraulic functions
+ solenoid valve



LC = 600 mm · Forks serially bolted on · Incl. solenoid valve

Model	Load capacity kg	for lift trucks up to to	ISO	Omin-Omax	G	Side-shift	Fork cross section* D x S		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight kg	Price €
				mm	mm		mm	mm							
S 11 - ZVP 48/TG 60 1200/850-S	4800	4,5	3	400-1250	1250	± 100	167	64	50	1200	850	162	340/425	485	13,335.-
				400-1350	1350	± 100	167	64	50	1200	850	162	335/420	490	13,455.-
				400-1450	1450	± 100	167	64	50	1200	850	162	335/415	495	13,570.-
				400-1550	1550	± 100	167	64	50	1200	850	162	330/415	500	13,685.-
S 11 - ZVP 48/TG 60 1300/950-S	4800	4,5	3	400-1250	1250	± 100	167	64	50	1300	950	162	370/470	500	13,685.-
				400-1350	1350	± 100	167	64	50	1300	950	162	365/465	505	13,800.-
				400-1450	1450	± 100	167	64	50	1300	950	162	365/460	510	13,915.-
				400-1550	1550	± 100	167	64	50	1300	950	162	360/455	515	14,030.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.
- The attachment may not be used as fork extension for handling 2 euro-pallets lengthwise.
- * Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

- * Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm **€ 250.-**
- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) **€ 140.-**
- Surcharge for pallet stops A3 (height 850 mm) **€ 310.-**
- Price reduction without solenoid valve **€ 390.-**
- Camera systems on request.

Standard values for residual load capacity of lift trucks**

Fork Positioners with Telescopic Forks and Separate Sideshift	S 11 -	ZVP 25/ TG 25-S	ZVP 25/ TG 25-S	ZVP 25/ TG 25-S	ZVP 35/ TG 35-S	ZVP 48/ TG 45-S	ZVP 48/ TG 45-S	ZVP 48/ TG 60-S
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500
X*	mm	370	450	450	450	500	500	500
LC (LSP) = 600 mm	kg	1260	1440	1840	2210	2600	3000	3350
LC (LSP) = 1200 mm	kg	810	950	1210	1460	1750	2020	2260
LC (LSP) = 1450 mm	kg	700	820	1060	1270	1530	1770	1980
LC (LSP) = 1650 mm	kg	630	750	(910)	1160	1400	1620	(1750)

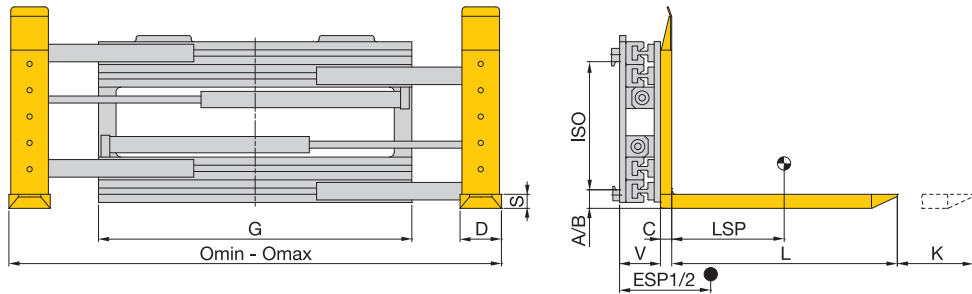
** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVKG-Series with Telescopic Forks

2 hydraulic functions



Large opening range · LC = 600 mm · Forks serially bolted on

Model	Load capacity	for lift trucks up to	ISO	Omin-Omax	G	Fork cross section*		C	L	K	V	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight	Price	Surcharge per 100 mm	
						D x S	mm								mm	add. fork length
	kg	to		mm	mm	mm	mm	mm	mm	mm	mm	mm	kg	€	€	€
S 11 - ZVKG 20/TG 20 1200/850	2000	2,0	2	560-1640	950	135	56	45	1200	850	155	275/335	435	10,535.-	200.-	200.-
S 11 - ZVKG 20/TG 20 1300/950				560-1640	950	135	56	45	1300	950	155	300/370	450	10,765.-	200.-	200.-
S 11 - ZVKG 25/TG 25 1200/850	2500	2,5	2	560-1740	1050	165	56	45	1200	850	155	285/350	495	11,110.-	240.-	245.-
S 11 - ZVKG 25/TG 25 1300/950				560-1740	1050	165	56	45	1300	950	155	315/390	510	11,365.-	240.-	245.-
S 11 - ZVKG 30/TG 35 1200/850	3000	3,0	3	560-1840	1150	165	56	45	1200	850	155	275/340	525	11,880.-	250.-	295.-
S 11 - ZVKG 30/TG 35 1300/950				560-1840	1150	165	56	45	1300	950	155	305/370	540	12,140.-	250.-	295.-
S 11 - ZVKG 40/TG 45 1200/850	4000	3,5	3	560-1940	1250	165	56	45	1200	850	170	250/300	625	13,140.-	300.-	360.-
S 11 - ZVKG 40/TG 45 1300/950				560-1940	1250	165	56	45	1300	950	170	275/330	640	13,455.-	300.-	360.-
S 11 - ZVKG 45/TG 45 1200/850	4500	4,0	3	560-2040	1350	165	56	45	1200	850	170	245/295	640	14,085.-	300.-	370.-
S 11 - ZVKG 45/TG 45 1300/950				560-2040	1350	165	56	45	1300	950	170	270/325	655	14,400.-	300.-	370.-
S 11 - ZVKG 45/TG 60 1200/850	4500	4,5	3	560-2040	1350	167	64	50	1200	850	170	265/325	675	14,870.-	330.-	370.-
S 11 - ZVKG 45/TG 60 1300/950				560-2040	1350	167	64	50	1300	950	170	290/360	690	15,215.-	330.-	370.-
S 11 - ZVKG 48/TG 60 1200/850	5000	5,0	3	560-2040	1350	167	64	50	1200	850	170	260/315	695	15,145.-	330.-	390.-
S 11 - ZVKG 48/TG 60 1300/950				560-2040	1350	167	64	50	1300	950	170	285/350	710	15,490.-	330.-	390.-
S 11 - ZVKG 60/TG 60 1200/850	6000	5,0	4	560-2140	1450	167	64	50	1200	850	185	250/300	810	16,465.-	330.-	485.-
S 11 - ZVKG 60/TG 60 1300/950				560-2140	1450	167	64	50	1300	950	185	275/335	825	16,815.-	330.-	485.-
S 11 - ZVKG 70/TG 80 1200/850	7000	6,0	4	560-2410	1750	219	65	50	1200	850	185	255/315	980	18,830.-	400.-	515.-
S 11 - ZVKG 70/TG 80 1300/950				560-2410	1750	219	65	50	1300	950	185	280/345	1000	19,250.-	400.-	515.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.

- The handling of 2 euro-pallets lengthwise requires a usable length of 1350 mm with 1000 mm stroke.

* Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

* Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm € 250.-

- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-

- Surcharge for pallet stops A3 (height 850 mm). € 310.-

- Surcharge for integral design, see page 195.

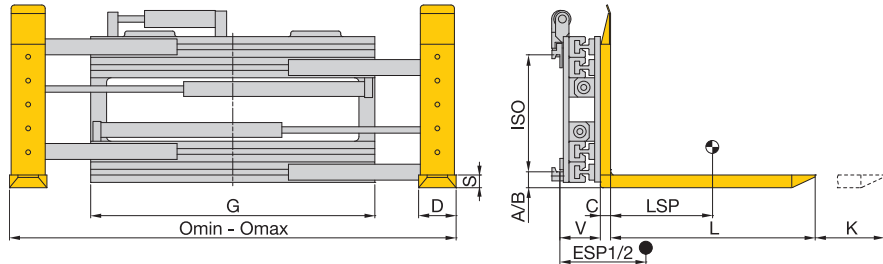
- Different load capacities and versions available on request.

- Camera systems on request.

See page 106 for standard values for the residual load capacity of lift trucks.

Fork Positioners ZVKG-Series with Telescopic Forks and Separate Sideshift

2 hydraulic functions + solenoid valve



Large opening range · LC = 600 mm · Forks serially bolted on · Incl. solenoid valve

Model	Load capacity kg	for lift trucks up to to	ISO	Omin-Omax mm	G mm	Side-shift mm	Fork cross section* D x S		C mm	L mm	K mm	V mm	CoG 1/ CoG 2 (ESP 1)/ (ESP 2) mm	Weight kg	Price €	Surcharge per 100 mm add. fork length opening range €	
							mm	mm								€	€
S 11 - ZVKG 20/TG 20 1200/850-S	2000	2,0	2	560-1640	950	± 100	135	56	45	1200	850	170	270/330	465	12,160.-	200.-	200.-
S 11 - ZVKG 20/TG 20 1300/950-S				560-1640	950	± 100	135	56	45	1300	950	170	295/360	480	12,390.-	200.-	200.-
S 11 - ZVKG 25/TG 25 1200/850-S	2500	2,5	2	560-1740	1050	± 100	165	56	45	1200	850	170	285/345	525	12,835.-	240.-	245.-
S 11 - ZVKG 25/TG 25 1300/950-S				560-1740	1050	± 100	165	56	45	1300	950	170	310/380	540	13,085.-	240.-	245.-
S 11 - ZVKG 30/TG 35 1200/850-S	3000	3,0	3	560-1840	1150	± 100	165	56	45	1200	850	170	270/330	565	13,780.-	250.-	295.-
S 11 - ZVKG 30/TG 35 1300/950-S				560-1840	1150	± 100	165	56	45	1300	950	170	295/360	580	14,040.-	250.-	295.-
S 11 - ZVKG 40/TG 45 1200/850-S	4000	3,5	3	560-1940	1250	± 100	165	56	45	1200	850	185	250/300	665	15,155.-	300.-	360.-
S 11 - ZVKG 40/TG 45 1300/950-S				560-1940	1250	± 100	165	56	45	1300	950	185	275/325	680	15,470.-	300.-	360.-
S 11 - ZVKG 45/TG 45 1200/850-S	4500	4,0	3	560-2040	1350	± 100	165	56	45	1200	850	185	245/295	680	16,100.-	300.-	370.-
S 11 - ZVKG 45/TG 45 1300/950-S				560-2040	1350	± 100	165	56	45	1300	950	185	270/320	695	16,415.-	300.-	370.-
S 11 - ZVKG 45/TG 60 1200/850-S	4500	4,5	3	560-2040	1350	± 100	167	64	50	1200	850	185	265/325	715	16,885.-	330.-	370.-
S 11 - ZVKG 45/TG 60 1300/950-S				560-2040	1350	± 100	167	64	50	1300	950	185	290/355	730	17,235.-	330.-	370.-
S 11 - ZVKG 48/TG 60 1200/850-S	5000	5,0	3	560-2040	1350	± 100	167	64	50	1200	850	185	260/320	735	17,160.-	330.-	390.-
S 11 - ZVKG 48/TG 60 1300/950-S				560-2040	1350	± 100	167	64	50	1300	950	185	285/350	750	17,505.-	330.-	390.-
S 11 - ZVKG 60/TG 60 1200/850-S	6000	5,0	4	560-2140	1450	± 150	167	64	50	1200	850	200	250/295	870	19,335.-	330.-	485.-
S 11 - ZVKG 60/TG 60 1300/950-S				560-2140	1450	± 150	167	64	50	1300	950	200	270/325	885	19,680.-	330.-	485.-
S 11 - ZVKG 70/TG 80 1200/850-S	7000	6,0	4	560-2410	1750	± 150	219	65	50	1200	850	205	255/305	1060	21,695.-	400.-	515.-
S 11 - ZVKG 70/TG 80 1300/950-S				560-2410	1750	± 150	219	65	50	1300	950	205	275/335	1080	22,115.-	400.-	515.-

- One-sided loading of trucks requires a usable length of 1300 mm with 950 mm stroke.

- Camera systems on request.

- The handling of 2 euro-pallets lengthwise requires a usable length of 1350 mm with 1000 mm stroke.

* Fork shoe reinforced in the rear area (10 mm wider/5 mm thicker).

* Surcharge for strips of manganese steel on underside of outer forks, dimension S increases by 5 mm € 250.-

- Surcharge for pallet stops A1 (located on each side of the fork shoe) or pallet stops A2 (height 400 mm) € 140.-

- Surcharge for pallet stops A3 (height 850 mm) € 310.-

- Surcharge for integral design, see page 195.

- Different load capacities and versions available on request.

- Price reduction without solenoid valve

€ 390.-

See page 106 for standard values for the residual load capacity of lift trucks.

Standard values for residual load capacity of lift trucks**

Fork Positioners ZV-Series with Telescopic Forks

(see page 98)

Fork Positioners with Telescopic Forks	S 11 -	ZV 20/ TG 20	ZV 20/ TG 20	ZV 25/ TG 25	ZV 30/ TG 35	ZV 40/ TG 45	ZV 45/ TG 45	ZV 45/ TG 60	ZV 48/ TG 60	ZV 60/ TG 60	ZV 70/ TG 80
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500	5000/500	5000	6000
X*	mm	370	450	450	450	500	500	500	500	560	560
LC (LSP) = 600 mm	kg	1290	1480	1850	2200	2650	3000	3340	3800	4200	4890
LC (LSP) = 1200 mm	kg	820	970	1210	1450	1770	2000	2240	2530	2860	3340
LC (LSP) = 1450 mm	kg	710	830	1040	1270	1550	1770	1970	2280	(2490)	2950
LC (LSP) = 1650 mm	kg	640	740	920	1140	1420	1610	1790	(2000)	(2180)	2700

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZV-Series with Telescopic Forks and Separate Sideshift (see page 99)

Fork Positioners with Telescopic Forks and Separate Sideshift	S 11 -	ZV 20/ TG 20-S	ZV 20/ TG 20-S	ZV 25/ TG 25-S	ZV 30/ TG 35-S	ZV 40/ TG 45-S	ZV 45/ TG 45-S	ZV 45/ TG 60-S	ZV 48/ TG 60-S	ZV 60/ TG 60-S	ZV 70/ TG 80-S
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500	5000/500	5000	6000
X*	mm	370	450	450	450	500	500	500	500	560	560
LC (LSP) = 600 mm	kg	1260	1440	1800	2160	2600	2940	3280	3720	4130	4770
LC (LSP) = 1200 mm	kg	810	950	1180	1420	1730	1970	2200	2500	2820	3270
LC (LSP) = 1450 mm	kg	700	820	1030	1240	1520	1730	1940	2200	2490	2900
LC (LSP) = 1650 mm	kg	630	730	910	1120	1380	1570	1760	(2000)	(2180)	2650

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

S11

Standard values for residual load capacity of lift trucks**

Fork Positioners ZVKG-Series with Telescopic Forks

(see page 104)

Fork Positioners with Telescopic Forks	S 11 -	ZVKG 20/ TG 20	ZVKG 20/ TG 20	ZVKG 25/ TG 25	ZVKG 30/ TG 35	ZVKG 40/ TG 45	ZVKG 45/ TG 45	ZVKG 45/ TG 60	ZVKG 48/ TG 60	ZVKG 60/ TG 60	ZVKG 70/ TG 80
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500	5000/500	5000	6000
X*	mm	370	450	450	450	500	500	500	500	560	560
LC (LSP) = 600 mm	kg	1210	1390	1750	2130	2510	2900	3220	3700	4060	4800
LC (LSP) = 1200 mm	kg	780	920	1150	1400	1680	1950	2190	2480	2790	3280
LC (LSP) = 1450 mm	kg	680	810	1010	1230	1480	1710	1930	2180	2470	2910
LC (LSP) = 1650 mm	kg	620	730	910	1110	1340	1550	1750	1980	(2180)	2650

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions

- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ().

Fork Positioners ZVKG-Series with Telescopic Forks and Separate Sideshift (see page 105)

Fork Positioners with Telescopic Forks and Separate Sideshift	S 11 -	ZVKG 20/ TG 20-S	ZVKG 20/ TG 20-S	ZVKG 25/ TG 25-S	ZVKG 30/ TG 35-S	ZVKG 40/ TG 45-S	ZVKG 45/ TG 45-S	ZVKG 45/ TG 60-S	ZVKG 48/ TG 60-S	ZVKG 60/ TG 60-S	ZVKG 70/ TG 80-S
Load capacity lift truck	kg	1800	2000	2500	3000	3500	4000	4500	5000/500	5000	6000
X*	mm	370	450	450	450	500	500	500	500	560	560
LC (LSP) = 600 mm	kg	1180	1360	1710	2080	2460	2840	3190	3630	3990	4700
LC (LSP) = 1200 mm	kg	770	900	1130	1380	1650	1920	2150	2440	2750	3220
LC (LSP) = 1450 mm	kg	660	790	990	1210	1450	1690	1900	2150	2440	2860
LC (LSP) = 1650 mm	kg	600	720	890	1090	1320	1530	1720	1950	(2180)	2600

** The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

* Assumed dimensions



Fork positioner – load capacity 55,000 kg/1200 mm



Fork positioner with load stabilizer



Fork positioner ZVP-series with telescopic forks



Fork positioner with load arm



Special fork positioner with 4 forks



Fork positioner ZVPV-series