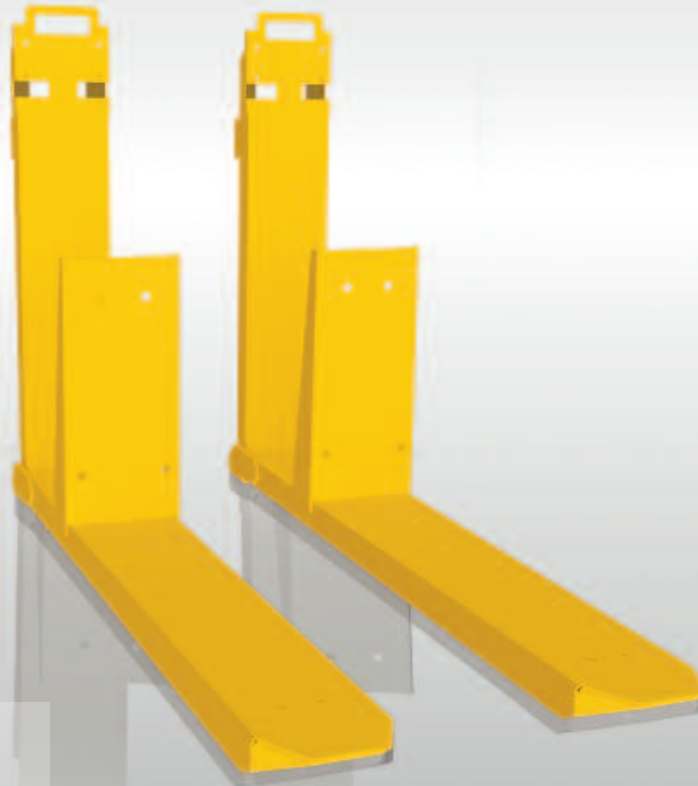


TELESCOPIC FORKS LOAD EXTENDERS

S5

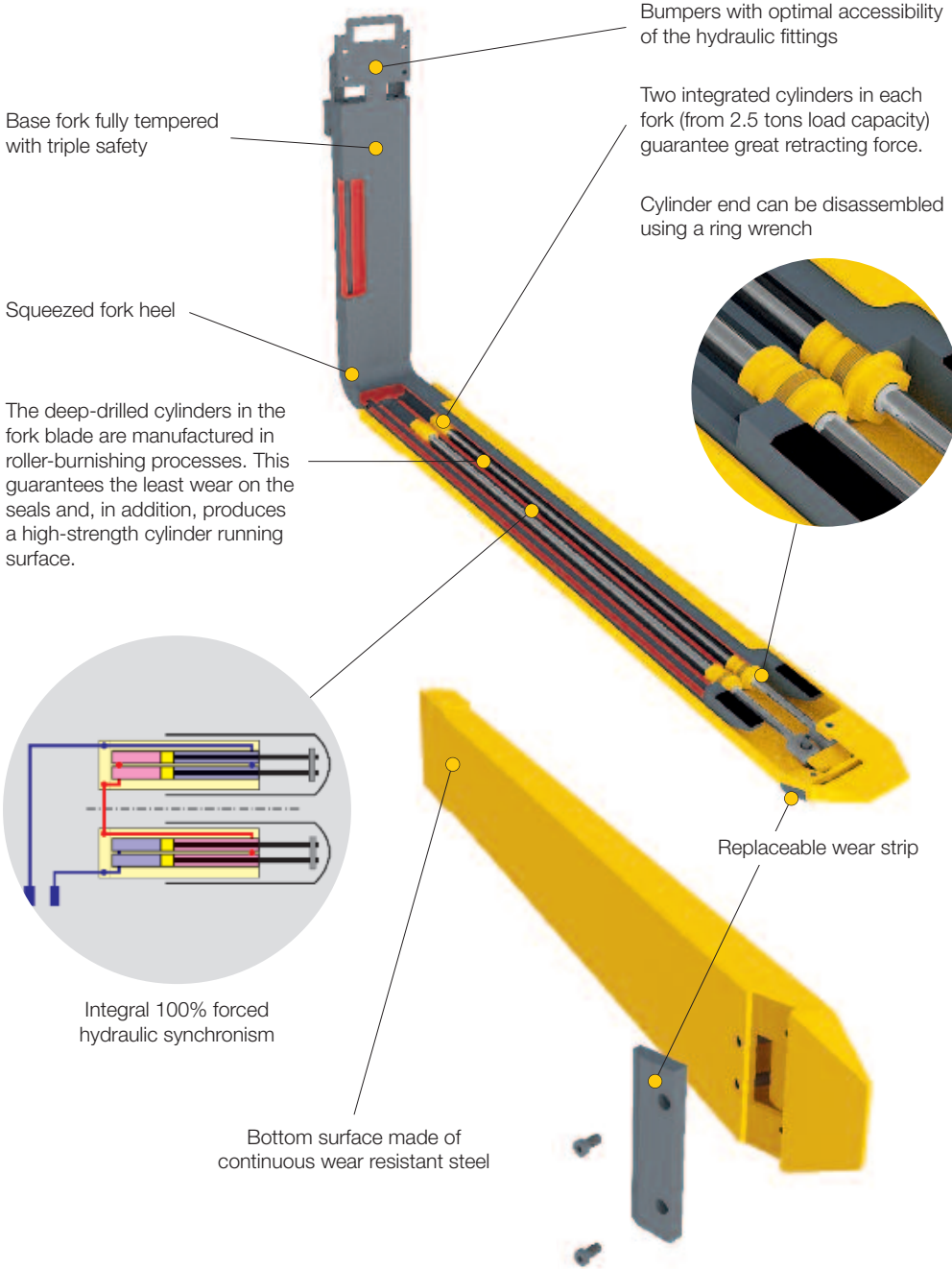
In many areas of logistics and warehousing technology, telescopic forks are used in order to facilitate one-sided loading of trucks or storage in double-deep racks. Furthermore, these forks can be used as extensions for the adjustment of load depth. Telescopic forks are equipped with two-cylinder forced hydraulic synchronism. The residual load capacity of the lift truck and driver visibility are far superior to reach forks and load extenders.

Load extenders are applied where telescopic forks cannot be used due to a low ground clearance of the load or where loads picked up by clamps are to be telescoped.



Telescopic Forks

SS



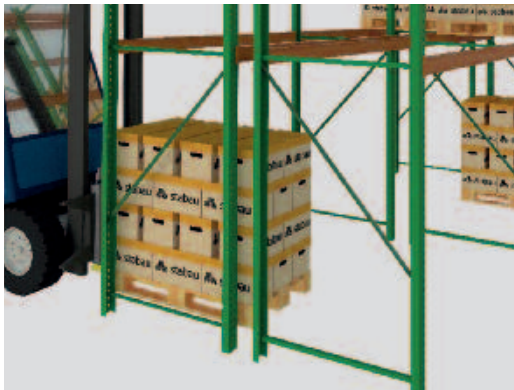
Applications of Telescopic Fork



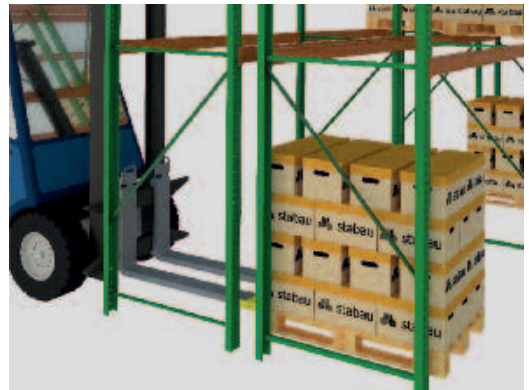
Truck loading with retracted forks



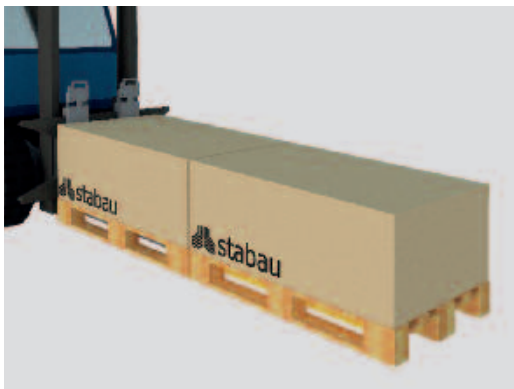
Truck loading with extended forks



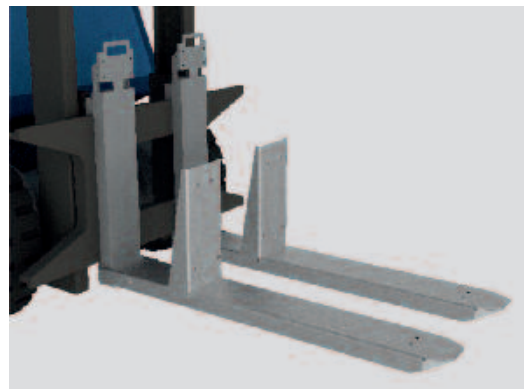
Double-deep storage retracted



Double-deep storage extended



Handling of 2 pallets

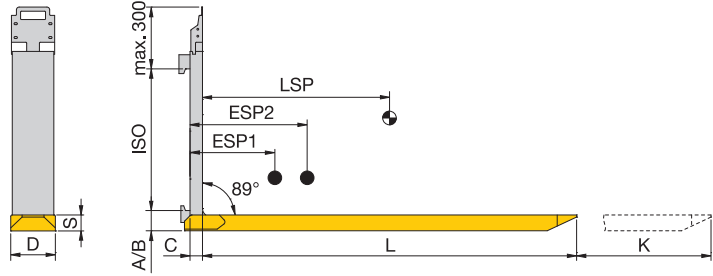


Ex-protection version

Telescopic Forks

(retractable and extendable with load)

1 hydraulic function



Integral synchronous system up to and including TGH 60

Model	Load capacity/pair at ... mm LC (LSP)			for lift trucks up to	ISO	Cross section* D x S	C	L	K	CoG 1 / CoG 2 (ESP 1) / (ESP 2)	Weight per pair	Price per pair	Surcharge per 100 mm add. fork length
	600	1450	1750										
	kg	kg	kg	to		mm	mm	mm	mm	mm	kg		

1-cylinder version

S 5 - TGHS 20 1200/850	2000	960	800	2,0/600	2	133 x 58	45	1200	850	420/625	160		
S 5 - TGHS 20 1350/1000								1350	1000	490/735	175		
S 5 - TGHS 25 1200/850	2500	1450	1200	2,5/600	2	133 x 63	50	1200	850	425/610	175		
S 5 - TGHS 25 1350/1000								1350	1000	495/720	195		
S 5 - TGHS 30 1200/850	3000	1450	1200	3,0/500	3	133 x 63	50	1200	850	405/585	185		
S 5 - TGHS 30 1350/1000								1350	1000	475/690	200		

2-cylinder version

S 5 - TGH 25 1200/850	2500	1450	1200	2,5/600	2	163 x 58	45	1200	850	415/625	195		
S 5 - TGH 25 1350/1000								1350	1000	485/740	210		
S 5 - TGH 30 1200/850	3000	1450	1200	3,0/500	3	163 x 58	45	1200	850	400/600	205		
S 5 - TGH 30 1350/1000								1350	1000	465/710	220		
S 5 - TGH 40 1200/850	4000	1850	1550	3,5/600 4,0/500	3	163 x 58	45	1200	850	400/600	205		
S 5 - TGH 40 1350/1000								1350	1000	465/710	220		
S 5 - TGH 48 1200/850	5000	2310	1920	5,0/600	3	165 x 64	50	1200	850	405/605	230		
S 5 - TGH 48 1350/1000								1350	1000	475/715	250		
S 5 - TGH 50 1200/850	5000	2310	1920	5,0/600	4	165 x 64	50	1200	850	370/550	255		
S 5 - TGH 50 1350/1000								1350	1000	430/655	275		
S 5 - TGH 60 1200/850	6000	3100	2560	6,0/600	4	217 x 67	50	1200	850	380/570	350		
S 5 - TGH 60 1350/1000								1350	1000	445/680	380		
S 5 - TGH 80 1200/850	8000	4300	3600	8,0/600	4	217 x 77	60	1200	850	380/550	415		
S 5 - TGH 80 1350/1000								1350	1000	445/650	450		

- One-sided loading and unloading of trucks requires a usable length of 1350 mm with 1000 mm stroke.

- Fork shoe reinforced in the rear area (10 mm wider)

- Surcharges:

*Wear resistant strips of manganese steel on bottom surface of outer forks, dimension S increases by 5 mm

Pallet stops A1 (located on both sides of the fork back) or A2 (400 mm high)

Pallet stops A3 (reinforced and 850 mm high)

Load backrest (width 750 mm, height 1200 mm) incl. A2 pallet stops

Bolt-on telescopic forks for e.g. fork positioner

- Camera systems on request.

- Cold store version on request.

- Ex-protection version on request.

- Higher load capacity and other cross sections on request.

- Max. stroke range 1200 mm, fork length max. 2000 mm

- For hydraulic fork positioners with telescopic forks see pages 111 - 121



Accessories



Pallet Stops Type A1:

Move next to the fork back when the forks are retracted.

50 mm wide, 90 mm high



Pallet Stops Type A2:

Are used to limit the fork length to the desired usable fork length.

Minimum distance to the fork back is 75 mm.

400 mm high



Pallet Stops Type A3:

Are used to limit the fork length to the desired usable fork length.

High pallet stop A3 supports the load.

Minimum distance to the fork back is 125 mm.

850 mm high (reinforced)

Camera Systems:



The design depends on the application.



Load Backrest Type LG:

Is mounted on pallet stop A2 (supplied with the product) and moves forward together with the outer forks. Forks are adjustable within the backrest width.

Minimum distance to the fork back is 100 mm.

750 mm wide, 1200 mm high

Standard values for residual load capacity of lift trucks**

Telescopic Forks	S 5 -	TGHS 20	TGHS 20	TGH 25 TGHS 25	TGH 30 TGHS 30	TGH 40	TGH 40	TGH 48	TGH 48	TGH 48 TGH 50	TGH 60	TGH 80
Load capacity lift truck	kg/mm	1800/500	2000/500	2500/500	3000/500	3500/500	4000/500	4500/500	5000/500	5000/600	6000/600	8000/600
X*	mm	400	450	450	450	500	500	500	500	560	560	650
LC (LSP) = 600 mm	kg	1570	1720	2170	2620	3130	3550	4000	4540	4940	5950	7900
LC (LSP) = 750 mm	kg	1360	1510	1900	2300	2760	3120	3520	3950	4370	5260	7050
LC (LSP) = 1200 mm	kg	940	1050	1330	1620	1980	2250	2530	2800 ¹	2800 ¹	3830	5250 ¹
LC (LSP) = 1450 mm	kg	810	910	1160	1410	1720	1850 ¹	2210	2310 ¹	2310 ¹	3200 ¹	4300 ¹
LC (LSP) = 1750 mm	kg	700	790	1000	1200	1500	1550 ¹	1910	1920 ¹	1920 ¹	2650 ¹	3600 ¹

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

* Assumed dimensions

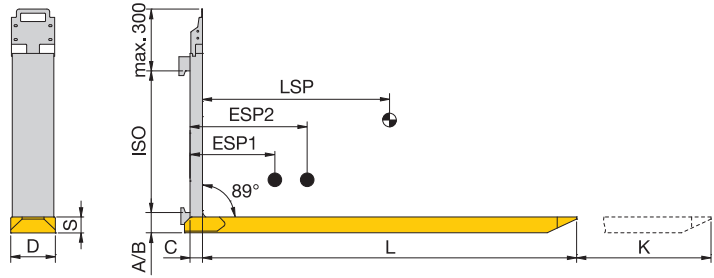
¹ Load capacity of lift truck may be higher

Hydraulically Adjustable Fork Extensions

(retractable and extendable without load)

SS

1 hydraulic function



Model	Load capacity per pair	LC (LSP)	for lift trucks up to	ISO	L	K	Cross section* D x S	C	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	Weight per pair	Price per pair	Surcharge per 100 mm add. fork length
	kg	mm	to		mm	mm						
S 5 - VGH 20 800/400	2000	600	2,0/600	2	800	400	133 x 58	45	245/330	120		
S 5 - VGH 20 1200/400					1200	400						
S 5 - VGH 25 800/400	2500	600	2,5/600	2	800	400	163 x 58	45	245/330	145		
S 5 - VGH 25 1200/400					1200	400						
S 5 - VGH 35 800/400	3500	600	3,5/600	3	800	400	163 x 58	45	230/310	155		
S 5 - VGH 35 1200/400					1200	400						

- Surcharge for wear resistant manganese steel strips on underside of outer forks (5 mm thick)

* Fork shoe reinforced in the rear area (10 mm wider)

* When using wear resistant strips of manganese steel, dimension S increases by 5 mm



Application with different load depths, e.g. 1 x Euro-pallet lengthwise, 2 x Euro-pallets across

Telescopic Forks in Combination



Fork positioner ZV-TGH (page 114/115)



Fork positioner ZVP-TGH (page 116 – 119)



Fork positioner ZVKG-TGH (page 120/121)

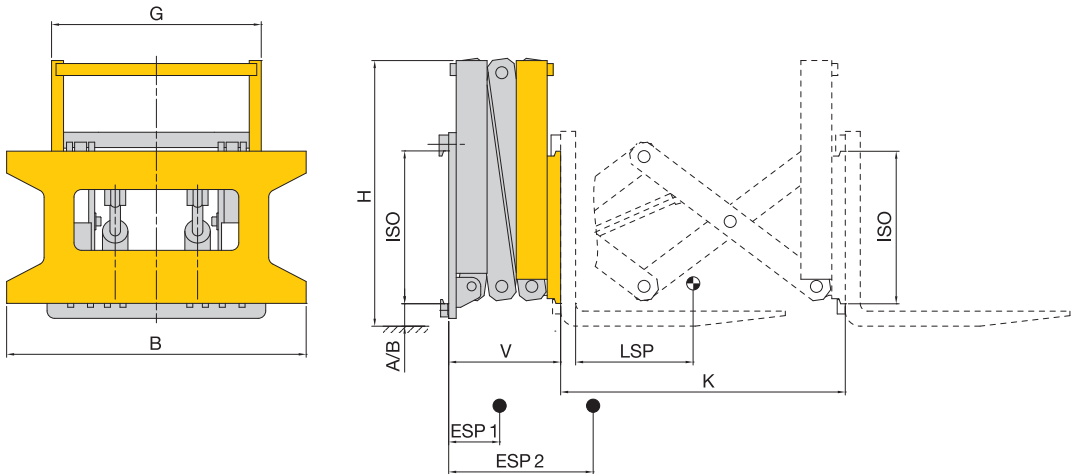


Double pallet handler DPK-TGH (page 48)

Load Extenders

1 hydraulic function

S5



Model	Load capacity*	LC (LSP)	ISO	B	G	H***	K	V	V**	CoG 1/ CoG 2 (ESP 1)/ (ESP 2)	CoG 1**/ CoG 2** (ESP 1)/ (ESP 2)	Weight	Weight**	Price without side-shift	Price with side-shift
	kg														
S 5 - VSCHGT 10	1000	600	2	1000	750	900	950	315	365	150/630	180/570	325	375		
S 5 - VSCHGT 15	1500	600	2	1000	750	900	950	330	380	160/650	185/590	360	410		
S 5 - VSCHGT 25	2500	600	3	1000	750	900	950	380	440	185/695	220/665	470	535		

* Load capacity of retracted attachment

- Surcharge for forks, see page 13

** With integral sideshifter ± 100 mm

- Load pusher on request.

*** For ISO-A mounting

Standard values for residual load capacity of lift trucks**

Load Extenders	S 5 -	Without separate sideshift				With separate sideshift			
		VSCHGT 10	VSCHGT 15	VSCHGT 25	VSCHGT 25	VSCHGT 10-S	VSCHGT 15-S	VSCHGT 25-S	VSCHGT 25-S
Load capacity lift truck	kg	2000	2500	3000	3500	2000	2500	3000	3500
X*	mm	450	450	450	500	450	450	450	500
LC (LSP) = 500 mm	kg	1340	1670	1900	2290	1260	1580	1780	2150
LC (LSP) = 600 mm	kg	1240	1550	1770	2130	1170	1470	1660	2010
LC (LSP) = 1450 mm	kg	660	840	960	1200	630	800	910	1150
LC (LSP) = 1550 mm	kg	630	800	920	1150	600	760	870	1100

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

* Assumed dimensions