

# S12

## FORK CLAMPS

Fork clamps allow forks to be adjusted beyond the width of the attachment. Due to their robust construction and appropriate cylinders with check valves, a powerful clamping force can be generated and maintained between the forks. Special slip-on arms enable palletless handling of different goods and versatile load handling, for example block and brick clamp arms for construction material or drum clamp arms for drum handling. By installing an adjustable pressure relief valve the clamping pressure can be changed. Fork clamps can be combined with separate sideshift or a sideshift valve.

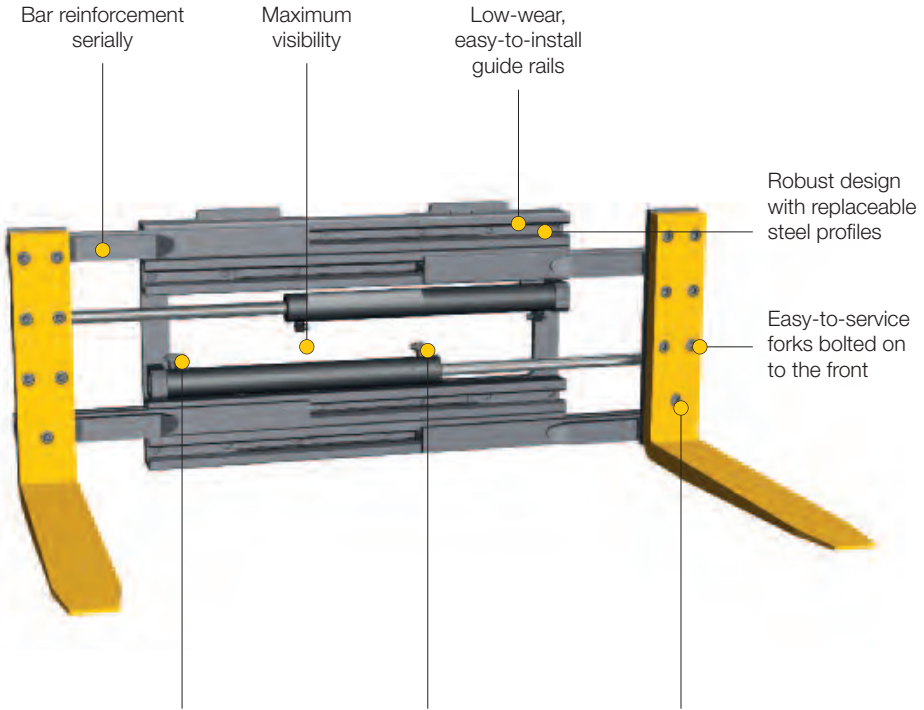
With rotatable fork clamps different types of bins can be handled and emptied sideward.

S12



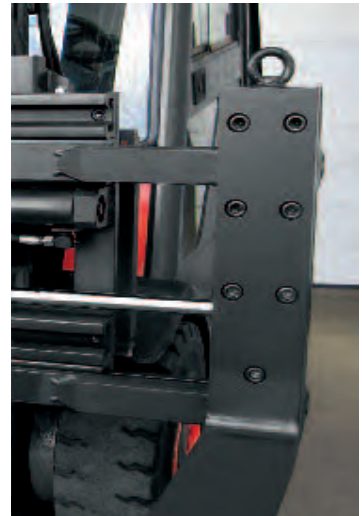
# Fork Clamps

## Model S 12 - KG



Bumpers for the hydraulic connection of cylinders optionally available

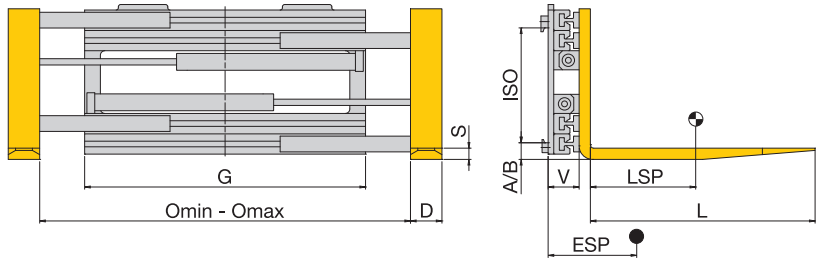
Bolt-on forks optionally available



# Fork Clamps

## 1 hydraulic function

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



Forks serially welded on

Model	Load capacity		LC (LSP)	ISO	Omin-Omax ITI	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm fork length	Surcharge per 100 mm add. opening range
	function	fork function													
	kg	kg	mm		mm	mm	mm	mm	mm	mm	mm	kg			
S 12 - KG 15	1500	1800	500	2	300-1360	950	120	40	1200	130	200	370			
S 12 - KG 22	2200	2500	500	2	300-1460	1050	125	45	1200	130	215	400			
S 12 - KG 28	2800	3300	500	3	280-1550	1150	140	50	1200	140	210	540			
S 12 - KG 35	3500	4000	500	3	280-1650	1250	140	50	1200	140	205	555			
S 12 - KG 45	4500	5000	500	3	260-1700	1350	150	60	1200	155	215	695			
S 12 - KG 48	4500	5000	600	3	260-1700	1350	150	60	1200	155	210	710			
S 12 - KG 50	5000	6000	600	4	260-1800	1450	150	65	1200	155	215	800			
S 12 - KG 60	6000	7000	600	4	260-1950	1600	150	70	1200	175	200	1005			
S 12 - KG 70	7000	8000	600	4	260-2100	1750	200	70	1200	175	215	1230			
S 12 - KG 80	7200	10000	600	4	260-2100	2000	200	80	1200	175	220	1375			

- Surcharge for ISO 2 bolt-on forks
- Surcharge for ISO 3 bolt-on forks
- Surcharge for ISO 4 bolt-on forks
- Surcharge for adjustable pressure relief valve
- Surcharge for pressure gauge
- Fork length from 1,600 mm (adapted clamping force) on request.

- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 2
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 3
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 4
- Surcharge for integral design, see page 209
- For harbor clamp see page 133
- Ex-protection version on request.



## Standard values for residual load capacity of lift trucks\*\*

Fork Clamps	S 12 -	KG 15	KG 22	KG 22	KG 28	KG 35	KG 35	KG 45	KG 45	KG 48/50	KG 50	KG 60	KG 60	KG 70	KG 70
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	6000	7000	7000	8000
X*	mm	350	450	450	450	500	500	500	500	560	560	560	650	650	650
LC (LSP) = 500 mm	kg	1180	1620	2070	2410	2880	3320	3600	4090						
LC (LSP) = 600 mm	kg	1070	1480	1900	2210	2650	3050	3310	3770	4150	5030	4840	5830	5700	6580
LC (LSP) = 700 mm	kg	980	1370	(1730)	2040	2450	(2750)	3070	3490	3860	4680	4510	5450	5330	6190
LC (LSP) = 800 mm	kg	900	1270	(1510)	1890	2280	(2400)	2860	(3100)	3610	(4130)	4210	(4950)	5000	5770

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

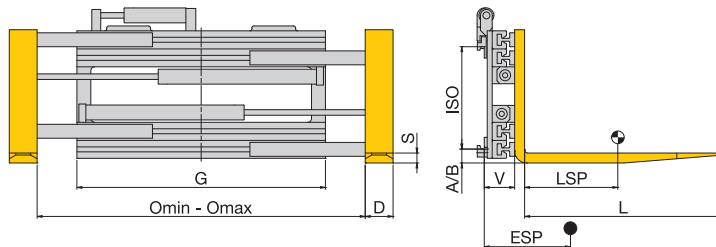
\* Assumed dimensions

- 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 Clamps with Separate Sideshift

## 2 hydraulic functions

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



Forks serially welded on

Model	Load capacity		LC (LSP)	ISO	Omin-Omax ITI	G	Side-shift	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm fork length	Surcharge per 100 mm add. opening range
	Clamp. function	fork function														
S 12 - KG 15-S	1500	1800	500	2	300-1360	950	± 100	120	40	1200	145	200	400			
S 12 - KG 22-S	2200	2500	500	2	300-1460	1050	± 100	125	45	1200	145	215	430			
S 12 - KG 28-S	2800	3300	500	3	280-1550	1150	± 100	140	50	1200	155	210	580			
S 12 - KG 35-S	3500	4000	500	3	280-1650	1250	± 100	140	50	1200	155	205	595			
S 12 - KG 45-S	4500	5000	500	3	260-1700	1350	± 100	150	60	1200	170	220	735			
S 12 - KG 48-S	4500	5000	600	3	260-1700	1350	± 100	150	60	1200	170	215	750			
S 12 - KG 50-S	5000	6000	600	4	260-1800	1450	± 100	150	65	1200	170	215	860			
S 12 - KG 60-S	6000	7000	600	4	260-1950	1600	± 150	150	70	1200	195	205	1085			
S 12 - KG 70-S	7000	8000	600	4	260-2100	1750	± 150	200	70	1200	195	220	1310			
S 12 - KG 80-S	7200	10000	600	4	260-2100	2000	± 150	200	80	1200	195	225	1455			

- Surcharge for ISO 2 bolt-on forks
- Surcharge for ISO 3 bolt-on forks
- Surcharge for ISO 4 bolt-on forks
- Surcharge for adjustable pressure relief valve
- Surcharge for pressure gauge
- Fork length from 1,600 mm (adapted clamping force) on request.

- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 2
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 3
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 4
- Surcharge for integral design, see page 209
- For harbor clamp see page 133
- Ex-protection version on request.



## Standard values for residual load capacity of lift trucks\*\*

Fork Clamps	S 12 -	KG 15-S	KG 22-S	KG 22-S	KG 28-S	KG 35-S	KG 35-S	KG 45-S	KG 45-S	KG 48/50-S	KG 50-S	KG 60-S	KG 60-S	KG 70-S	KG 70-S
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	6000	7000	7000	8000
X*	mm	350	450	450	450	500	500	500	500	560	560	560	650	650	650
LC (LSP) = 500 mm	kg	1140	1580	2020	2350	2810	3250	3530	4010						
LC (LSP) = 600 mm	kg	1040	1450	1850	2150	2600	3000	3250	3700	4070	4930	4720	5700	5580	6440
LC (LSP) = 700 mm	kg	950	1340	1700	1990	2400	2770	3020	3430	3780	4600	4400	5340	5220	6030
LC (LSP) = 800 mm	kg	880	1240	(1510)	1850	2230	(2410)	2810	(3100)	3540	(4130)	4120	(4950)	4900	5660

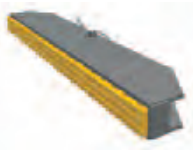
\*\* The load capacity applies to lifting heights up to 3300 mm; specifications for greater lifting heights on request.

\* Assumed dimensions

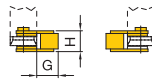
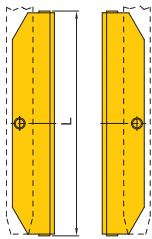
- For greater load centers, where the lift truck has a higher residual load capacity than the attachment, those values, upon the exceedance of which the attachment would be overloaded, are indicated in brackets ( ).

# Slip-On Arms for Fork Clamps

Block and brick clamp arms  
STKA-series



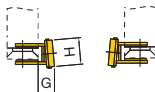
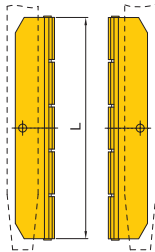
continuous perforated  
PU strip



Block and brick clamp arms  
STKA-U series



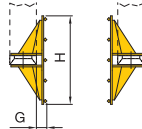
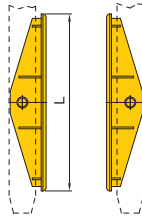
divided full  
PU strip



Bale clamp arms



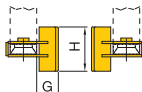
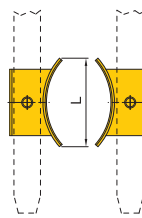
continuous profile  
bars



Drum clamp arms  
for 200 l tight  
head steel drums



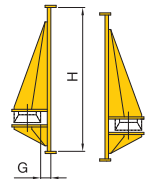
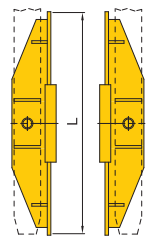
rubber-coated  
contact pads



Box clamp arms



rubber-coated  
contact pads



Tipping drum clamp arms  
FKKA-series on request

Model	Load capacity	L	H	G	Weight per pair	Price per pair	Surcharge per 100 mm height/length
	kg						
S 12 - STKA 20	2000	1200	94	95	120		
S 12 - STKA 20-U	2000	1200	120	75	120		
S 12 - BKA 20	2000	800	400	40	120		
S 12 - FKA 20	2000	400	200	100	40		
S 12 - GBA 20	2000	1240	900	35	190		

- Tilting clamp arms and special designs on request.

# Rotatable Fork Clamps

## Model S 12 - KG-360°

Bar reinforcement serially

Protected lateral drive

Low-wear, easy-to-install guide rails

Robust design with replaceable steel profiles

Excellent visibility due to low height

Bolt-on forks optionally available

Easy-to-service forks bolted on to the front

Bumpers for the hydraulic connection of cylinders optionally available

Large centered opening enables good visibility

Maximum visibility

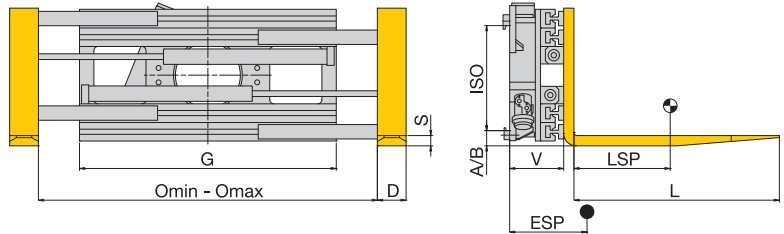
S12



# Fork Clamps, Rotatable

## 2 hydraulic functions

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



Forks serially welded on · rotation range 360°

Model	Load capacity clamping function	LC (LSP)	ISO	Omin-Omax ITI	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm fork length	Surcharge per 100 mm add. opening range	Surcharge for sep. Side-shift
	kg	mm													
S 12 - KG 15-360°	1500	500	2	300-1360	950	120	40	1200	250	225	595				
S 12 - KG 22-360°	2200	500	2	300-1460	1050	125	45	1200	250	235	635				
S 12 - KG 28-360°	2800	500	3	280-1550	1150	140	50	1200	265	245	810				
S 12 - KG 35-360°	3500	500	3	280-1650	1250	140	50	1200	275	245	880				
S 12 - KG 40-360°	4000	600	3	260-1700	1350	150	60	1200	290	265	1015				
S 12 - KG 45-360°	4500	600	4	260-1700	1350	150	60	1200	295	240	1235				
S 12 - KG 50-360°	5000	600	4	260-1800	1450	150	65	1200	295	250	1290				
S 12 - KG 60-360°	6000	600	4	260-1950	1600	150	70	1200	315	255	1550				
S 12 - KG 70-360°	7000	600	4	260-2100	1750	200	70	1200	335	280	1885				
S 12 - KG 80-360°	7200	600	4	260-2100	2000	200	80	1200	335	285	2030				

- Surcharge for ISO 2 bolt-on forks
- Surcharge for ISO 3 bolt-on forks
- Surcharge for ISO 4 bolt-on forks
- Surcharge for adjustable pressure relief valve
- Surcharge for pressure gauge
- Surcharge for solenoid valve with separate sideshift incl. hydraulics safety bar (utilization of only rotation/sideshift admissible)

- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 2
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 3
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 4
- Surcharge for integral design, see page 209
- Fork length from 1,600 mm (adapted clamping force) on request.
- Ex-protection version on request.



## Standard values for residual load capacity of lift trucks\*\*

Fork Clamps, Rotatable	S 12 -	KG 15 -360°	KG 15 -360°	KG 22 -360°	KG 28 -360°	KG 28 -360°	KG 35 -360°	KG 35 -360°	KG 40 -360°	KG 45 -360°	KG 50 -360°	KG 60 -360°	KG 70 -360°
Load capacity lift truck	kg	1500	2000	2500	3000	3500	4000	4500	5000/500	5000	6000	7000	8000
X*	mm	350	450	450	450	500	500	500	500	560	560	650	650
LC (LSP) = 500 mm	kg	940	1360	1730	2000	2440	2780	3180	3470				
LC (LSP) = 600 mm	kg	860	1260	1600	1850	2260	2580	2940	3220	3520	4260	4980	5520
LC (LSP) = 700 mm	kg	800	1170	1480	1720	2110	2400	2740	3000	3300	3990	4680	5200
LC (LSP) = 800 mm	kg	740	(1030)	1390	1610	(1930)	2250	(2410)	2810	3100	3750	4410	4900

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

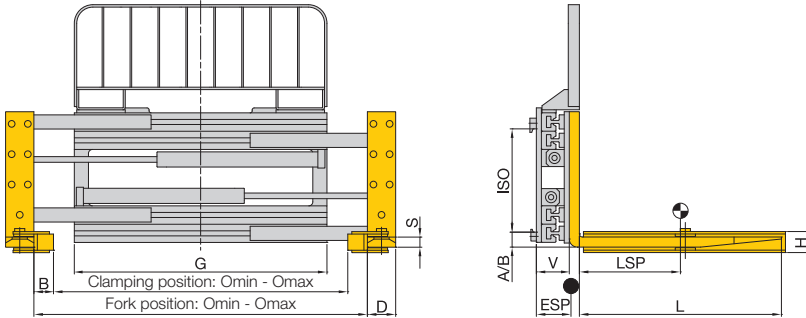
\* Assumed dimensions

- 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 ( ).



# Block and Brick Clamps

1 - 2 hydraulic functions



Forks serially bolted on · L = 1200 mm · Incl. block and brick clamp arms STKA-series · Incl. load backrest (1200 mm high)

S12

Model	Load capacity		LC (LSP)	ISO	Omin-Omax ITI		G	Side-shift	D	S	B	H	V	CoG (ESP)	Weight kg	Price	Surcharge per 100 mm fork length/arm length
	clamping function	fork function			clamp arms	forks											
	kg	kg			mm	mm											
S 12 - BKG 22	2200	2500	500	2	110-1270	300-1460	1050		125	45	95	94	155	335	575		
S 12 - BKG 22-S	2200	2500	500	2	110-1270	300-1460	1050	± 100	125	45	95	94	170	335	605		
S 12 - BKG 28	2800	3300	500	3	90-1360	280-1550	1150		140	50	95	94	165	310	725		
S 12 - BKG 28-S	2800	3300	500	3	90-1360	280-1550	1150	± 100	140	50	95	94	180	310	765		
S 12 - BKG 35	3500	4000	500	3	90-1460	280-1650	1250		140	50	95	94	165	310	745		
S 12 - BKG 35-S	3500	4000	500	3	90-1460	280-1650	1250	± 100	140	50	95	94	180	300	785		

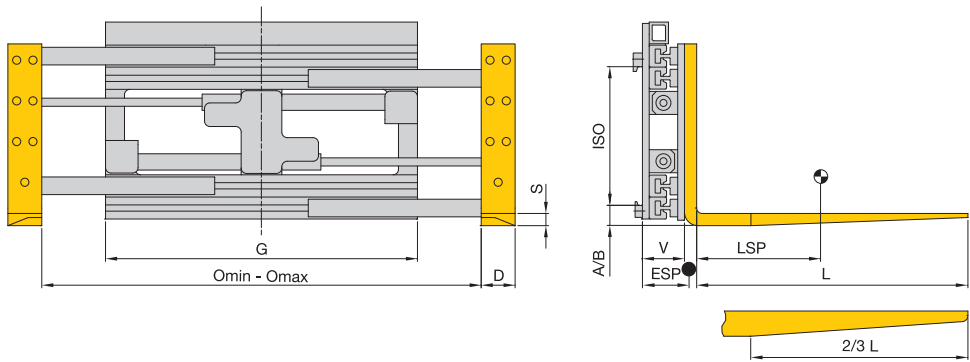
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 2
- Surcharge for bumpers in front of the connections of the adjusting cylinders for ISO 3
- Surcharge for adjustable pressure relief valve incl. pressure gauge





# Harbor Clamps with Sideshift Valve

2 hydraulic functions

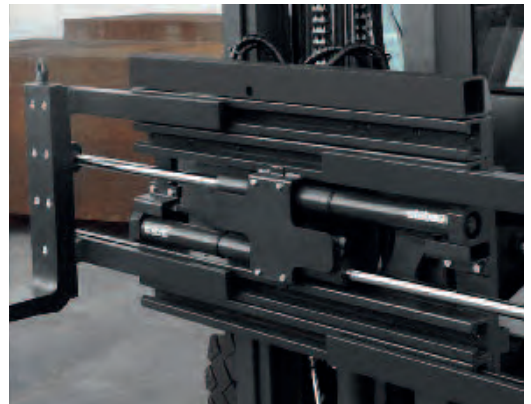


Forks serially bolted on · Incl. bumpers in front of the hydraulic connections

Model	Load capacity		LC (LSP)	ISO	Omin-Omax ITI	G	D	S	L	V	CoG (ESP)	Weight	Price	Surcharge per 100 mm add. fork length
	clamping function	fork function												
	kg	kg	mm	mm										
S 12 - HKG 18-SV	1200	1800	500	2	320-1480	1050	100	45	1200	155	160	385		
S 12 - HKG 25-SV	1600	2500	500	2	320-1620	1150	125	45	1200	155	170	425		
S 12 - HKG 30-SV	1600	3000	500	3	320-1620	1150	125	45	1200	155	165	455		

- Surcharge for adjustable pressure relief valve incl. pressure gauge

- Version with separate sideshift on request.



S12

# Fork clamps in operation



S12

