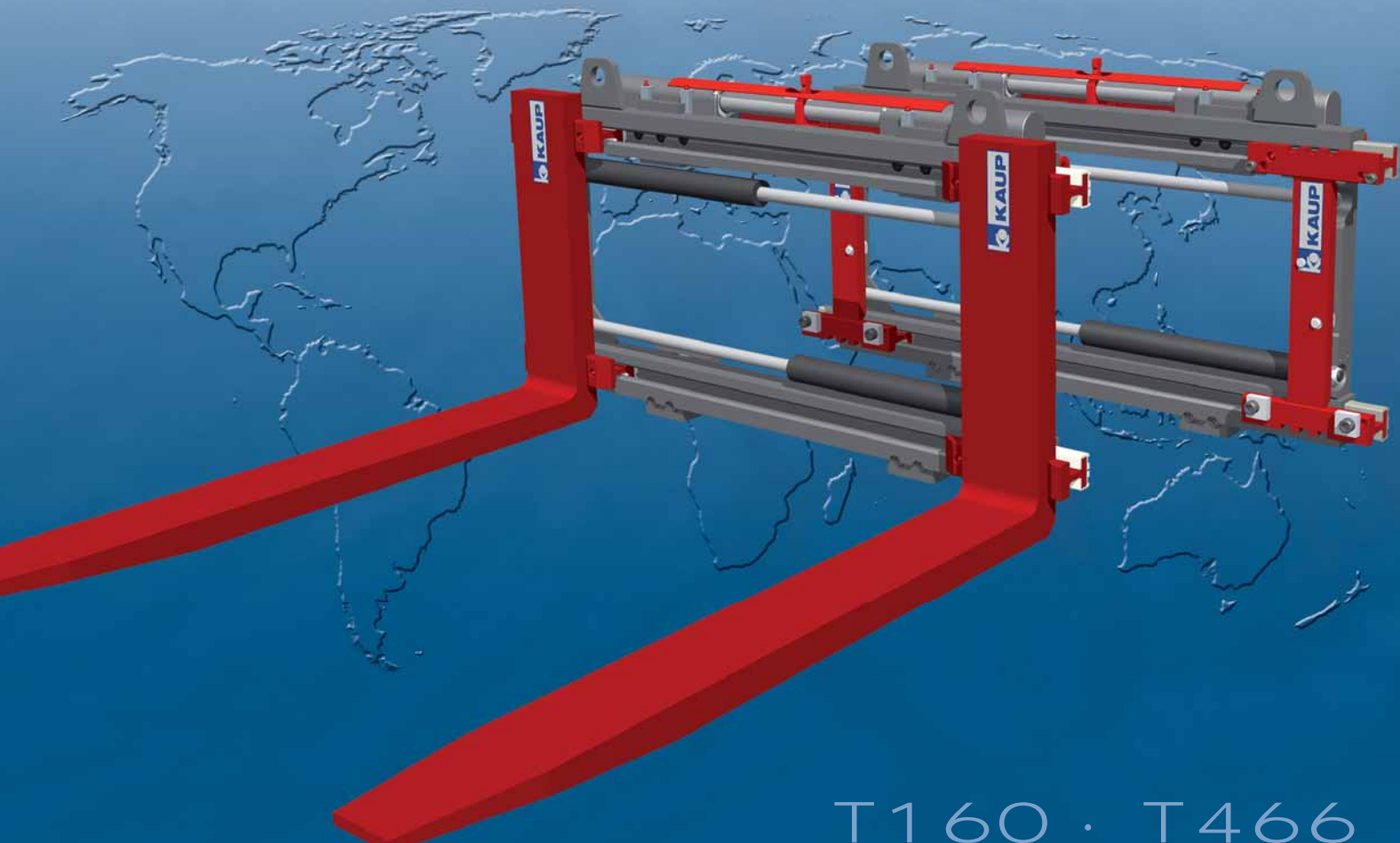




Helping hands for your Forklift truck

# Fork Positioners

T160 · T466



T160 · T466

Along with sidershifters, fork positioners are amongst the most commonly used attachments on forklift trucks. Fork positioners are a valuable work aid wherever loads of varying widths need to be handled, requiring the fork spacing to be adjusted accordingly. Use of KAUP high-visibility fork positioners enables the truck operator to control fork spacing conveniently from the driver seat. This increases the operating efficiency of the forklift and greatly reduces accidents.

- Enlarging the supporting width improves the stability of wide loads while diminishing the risk of the load slipping off the forks if picked up off centre.
- Adjusting the supporting width to the width of the load prevents over loading any part of the mast.
- The high-visibility design ensures the driver exact and precise working with the fork positioner which guarantees high job performance with a low risk of accidents.

## Application recommendation for KAUP Fork Positioners

**T163SN\***  
Light duty



Fork carriage guided fork adjustment for pick-up of pallets with different widths · Principally level working conditions · Ideal for working in production halls i.e. relatively clean environment · Opening range restricted to the width of the attachment

**T160(Z) / T466(Z)**  
Medium duty



Frequent fork adjustment · Operating with long forks · Different kinds of goods and ways of handling (e.g. forwarders) · Outdoor operation · Opening range can be slightly larger than the width of the attachment

**T411Z\***  
Heavy duty



Heavy duty version · Load picked up between the forks · Use of long forks and load pick up at fork tips · Frequent load pick up with max. opening range and pick up to top limit of capacity · Uneven floors · Quick working cycles · Opening range much larger than the width of the attachment

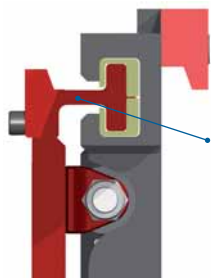
*\* further information can be found in the brochures showing the range T163SN and/or T411Z*

## KAUP Fork Positioners range T160 and T466

Fork Positioners of the T160 and T466 range ensure that the forklift truck driver has an unobstructed view of the fork tips and load. Using state-of-the-art 3D technology the T160 and T466 components are specifically matched to the requirements specified. As a result the units feature high stability along with optimised tare weight, low lost load center and thus a very good residual capacity, excellent view because the design was optimised with regard to visibility, minimised wear, a service-optimised design, and thus low maintenance and operating costs.



Adjusting screws to compensate tolerances between the forks and fork carriage.



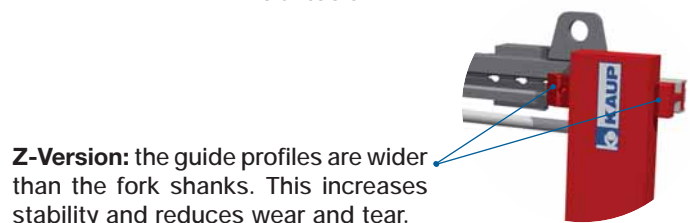
ISO profiles and guide profiles are manufactured from one piece which gives the attachment a high degree of rigidity and solidness. Therefore cracks caused by tension or fatigue, which occur on a welded design, can not develop.



**Optimised service:** The highly wear-resistant sliding profiles can, when necessary, be replaced quickly and simply on site without the use of special tools.



**Load Backrest T479:** The fork positioner can be fitted on site with a load backrest type T479.



**Z-Version:** the guide profiles are wider than the fork shanks. This increases stability and reduces wear and tear.

## KAUP Fork Positioners – range T160



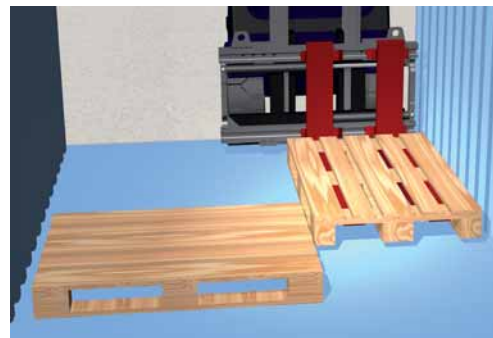
The range T160 with optimised visibility and residual capacity is fitted with valve block sideshift as standard. As valve block sideshift uses the rest stroke of the cylinder for the sideshift function the lateral shift is dependent on the fork position. Depending on the construction width of the attachment a lateral shift of up to  $\pm 300$  mm can be achieved. The possibility of the load being picked up off centre must be taken into account when calculating the residual capacity.

Fork Positioners in the range T160 are alternatively available without a sideshift function.

Choose the optimal attachment for your type of operation from the four variations of T160 available:

- T160.....hook-on attachment with fork carriage bars for attaching the original forks in accordance with ISO 2330;  
*standard forks with all dimensions and lengths up to 2.400 mm  
mechanical adjustment of forks on the fork carriage bars (different opening ranges)*
- T160I.....integrated attachment with fork carriage bars for attaching the original forks in accordance with ISO 2330;  
*increased residual capacity of approx. 10 - 15%  
mechanical adjustment of forks on the fork carriage bars (different opening ranges)*
- T160Z(A) ...hook-on attachment with welded or screw-on (A) forks;  
*T160Z - with forks welded onto the guide profiles  
T160ZA - with screw-on forks suitable for operation with a high degree of wear and tear*
- T160IZ(A) ..integrated attachment with welded or screw-on (A) forks;  
*increased residual capacity of approx. 10 - 15%  
T160IZ - with forks welded onto the guide profiles  
T160IZA - with screw-on forks suitable for operation with a high degree of wear and tear*

**Container loading:** the T160 Fork Positioner with valve block sideshift enables loading and unloading pallets lengthwise on the side walls of the container as it is possible to extend beyond the chassis width.



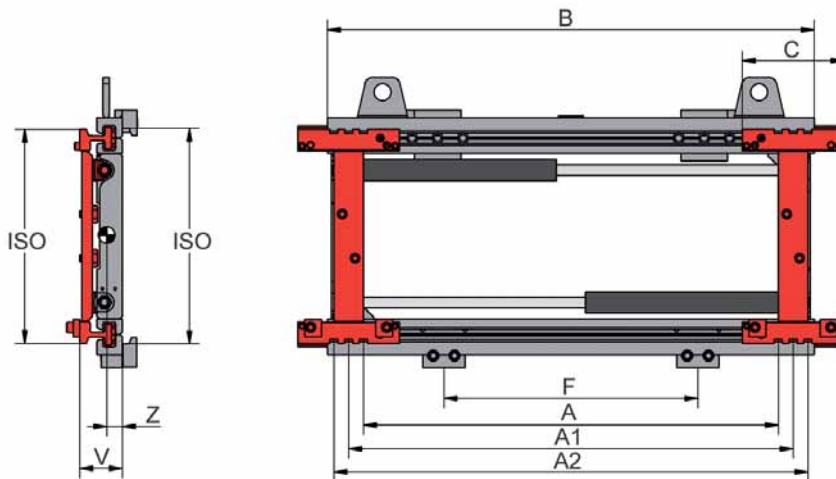
## KAUP Fork Positioners – range T466



The range T466 with optimised visibility and residual capacity is fitted with separate sideshift as standard. This ensures that the permissible lateral shift is fully utilized at any position of the forks. The KAUP separate sideshift components are designed so that there is no loss of residual capacity. The needle bearing roller guided bottom hooks (**SMOOTHROLL**) considerably reduce friction and ensure energy efficient operation of the attachment. End of stroke slow-down (**SOFTSTOP**) considerably reduces the speed over the last 15mm and thus prevents accidents due to loads falling off and protects the mast components. Furthermore lateral stability is enhanced which ensures the stand stability of the forklift truck.

Choose the optimal attachment for your type of operation from the four variations of T466 available

- T466.....hook-on attachment with fork carriage bars for attaching the original forks in accordance with ISO 2330;  
*standard forks with all dimensions and lengths up to 2.400 mm  
mechanical adjustment of forks on the fork carriage bars (different opening ranges)*
- T466I.....integrated attachment with fork carriage bars for attaching the original forks in accordance with ISO 2330;  
*increased residual capacity of approx. 10 - 15%  
mechanical adjustment of forks on the fork carriage bars (different opening ranges)*
- T466Z(A) ...hook-on attachment with welded or screw-on (A) forks;  
*T466Z - with forks welded onto the guide profiles  
T466ZA - with screw-on forks suitable for operation with a high degree of wear and tear*
- T466IZ(A) ..integrated attachment with welded or screw-on (A) forks;  
*increased residual capacity of approx. 10 - 15%  
T466IZ - with forks welded onto the guide profiles  
T466IZA - with screw-on forks suitable for operation with a high degree of wear and tear*



## Fork Positioner T160

with **valveblock sideshift** dependent on opening range · without forks · for forks acc. to ISO 2330  
2 hydraulic functions

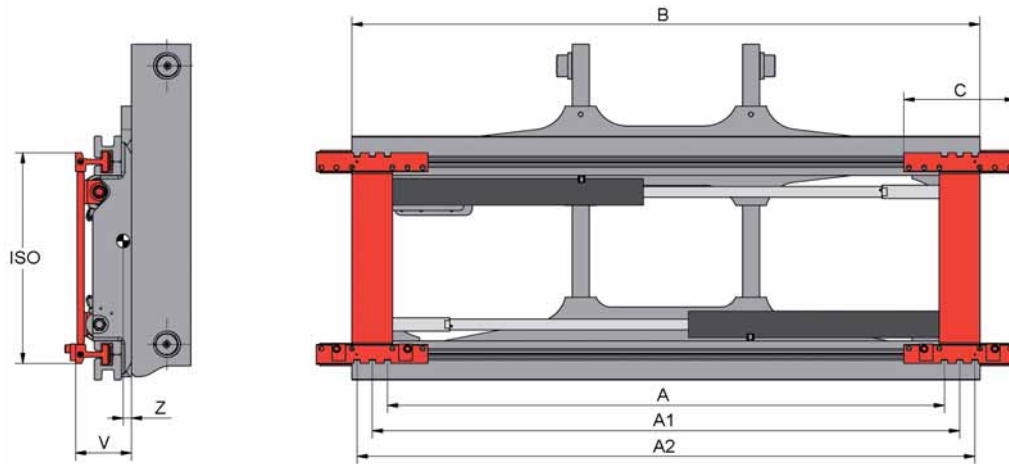
Model	Capacity kg/mm	Opening range centre to centre fork			B mm	C mm	F <sup>1)</sup> mm	suitable for max. fork width	ISO cl.	V mm	CofG Z mm	Weight kg		
		A mm	A1 mm	A2 mm										
2T 160 B	2.500/500	150-690	250-790	320-860	880	240	600	120	2	96	33	111		
		150-850	250-950	320-1.020	1.040								32	119
		150-950	250-1.050	320-1.120	1.150								32	125
		150-1.150	250-1.250	320-1.320	1.350								31	137
3,5T 160 B	3.600/500	180-880	250-950	320-1.020	1.040	240	600	130	3	101	37	121		
		180-980	250-1.050	320-1.120	1.150								37	126
		180-1.180	250-1.250	320-1.320	1.350								36	137
4,8T 160 B*	5.000/600	180-980	250-1.050	320-1.120	1.150	240	650	150	3	111	42	196		
		180-1.180	250-1.250	320-1.320	1.350								41	214
		180-1.280	250-1.350	320-1.420	1.460								40	223
		180-1.360	250-1.430	320-1.500	1.550								40	232
6T 160	6.000/600	260-1.060	350-1.150	440-1.240	1.350	330	1.070	150	4	136	51	261		
		260-1.170	350-1.260	440-1.350	1.460								51	273
		260-1.360	350-1.450	440-1.540	1.650								50	293
		260-1.560	350-1.650	440-1.740	1.860		1.450						49	315
8T 160	8.000/600	260-1.760	350-1.850	440-1.940	2.060	330	1.450	150	4	136	49	335		
		260-1.960	350-2.050	440-2.140	2.260								48	357
		260-2.060	350-2.150	440-2.240	2.400								48	367
10T 160	8.000/1.100	260-1.760	360-1.860	460-1.960	2.060	370	1.450	200	4	170	68	542		
		260-1.960	360-2.060	460-2.160	2.260								67	571
		260-2.060	360-2.160	460-2.260	2.400								67	590

<sup>1)</sup> Min. width of FLT carriage.

\* 4,8T with capacity (kg/mm) 2.700/1.200 available upon request.

Forks suitable for above attachments available upon request.

Not suitable for clamping between the forks.



## Fork Positioner integrated T160I

with valveblock sideshift dependent on opening range · without forks · for forks acc. to ISO 2330

2 hydraulic functions

Model	Capacity kg/mm	Opening range centre to centre fork			B mm	C mm	suitable for max. fork width	ISO cl.	V mm	CofG Z mm	Weight kg		
		A mm	A1 mm	A2 mm									
6T 160 BI	6.000/600	260-1.170	350-1.260	440-1.350	1.460	330	150	4	166	64	395		
		260-1.360	350-1.450	440-1.540	1.650							63	411
		260-1.560	350-1.650	560-1.860	1.860							61	457
8T 160 BI	8.000/600	260-1.560	350-1.650	440-1.740	1.860	330	150	4	166	61	457		
		260-1.760	350-1.850	440-1.940	2.060							61	474
		260-1.960	350-2.050	440-2.140	2.260							62	490
		260-2.060	350-2.150	440-2.240	2.400							62	502
10T 160 BI	8.000/1.100	260-1.760	360-1.860	440-1.960	2.060	370	200	4	210	97	605		
		260-1.960	360-2.060	440-2.160	2.260							96	635
		260-2.060	360-2.160	440-2.260	2.400							94	654

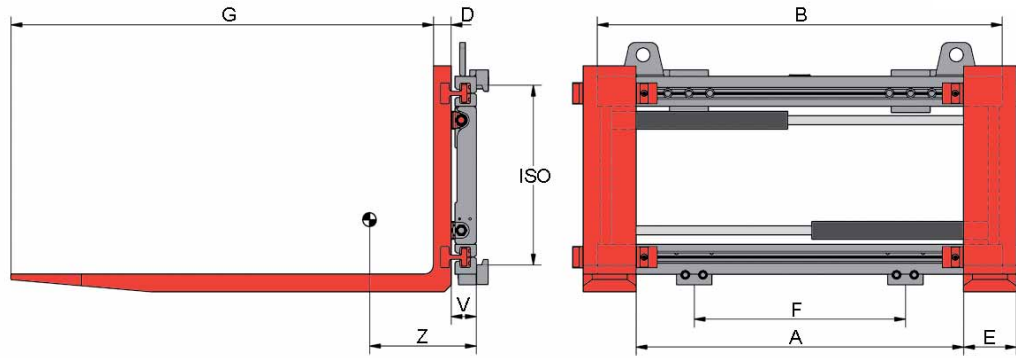
CofG and weight measurements do not take the cheek plates into account.

Forks suitable for above attachments available upon request.

Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary.

Not suitable for clamping between the forks.





## Fork Positioner T160Z

with valveblock sideshift dependent on opening range · 2 hydraulic functions

Model	Capacity kg/mm	A mm	B mm	fork profile		F <sup>1)</sup> mm	G mm	ISO cl.	V mm	CofG Z mm	Weight kg
				D mm	E mm						
1,5T 160 BZ	1.600/500	170-710	880	40	100	600	1.200	2	71	254	205
		170-870	1.040							250	213
		170-970	1.150							245	219
2T 160 BZ	2.500/500	130-670	880	45	120	600	1.200	2	71	284	239
		130-830	1.040							280	247
		130-930	1.150							275	253
		130-1.130	1.350							271	265
3,5T 160 BZ	3.600/500	130-830	1.040	50	150	600	1.200	3	71	305	302
		130-930	1.150							303	307
		130-1.130	1.350							298	317
4,5T 160 BZ	5.000/500	130-930	1.150	60	150	650	1.200	3	84	274	403
		130-1.130	1.350							264	421
		130-1.310	1.550							256	439
4,8T 160 BZ*	2.500/1.200	130-930	1.150	70	150	650	2.400	3	84	719	638
		130-1.130	1.350							713	656
		130-1.230	1.460							708	665
		130-1.310	1.550							705	674
6T 160 Z	6.000/600	200-1.110	1.350	70	150	1.070	1.200	4	111	257	529
		200-1.200	1.460							252	541
		200-1.400	1.650							245	561
		200-1.600	1.860							237	583
8T 160 Z	8.000/600	200-1.800	2.060	70	150	1.450	1.200	4	111	230	604
		200-2.000	2.260							224	625
		210-2.060	2.400							220	636
10T 160 Z	8.000/900	100-1.730	2.060	70	200	1.450	2.400	4	138	595	1.123
		100-1.900	2.260							581	1.151
		100-2.000	2.400							573	1.171
10T 160 Z	8.000/1.100	100-1.730	2.060	80	200	1.450	2.400	4	138	612	1.203
		100-1.900	2.260							599	1.231
		100-2.000	2.400							591	1.250

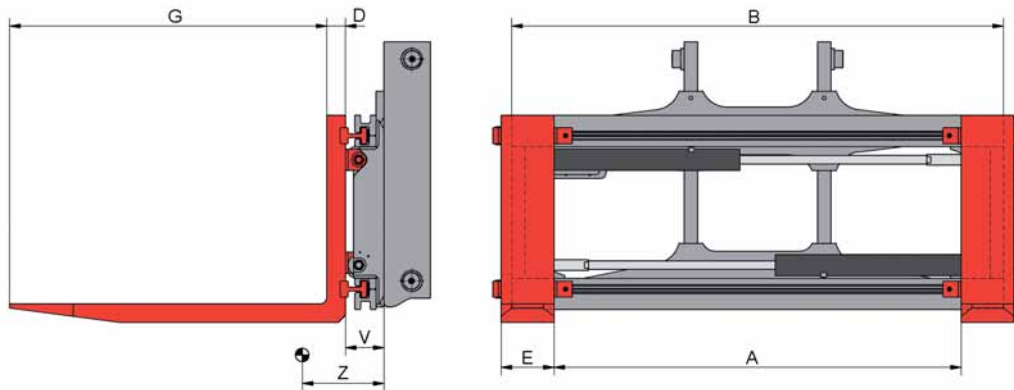
<sup>1)</sup> Min. width of FLT carriage.

\* 4,8T with capacity (kg/mm) 2.700/1.200 available upon request.

Not suitable for clamping between the forks.

**ZA-Version:** with screw-on forks suitable for operation with a high degree of wear and tear and quick exchange of forks on site.





## Fork Positioner integrated T160IZ

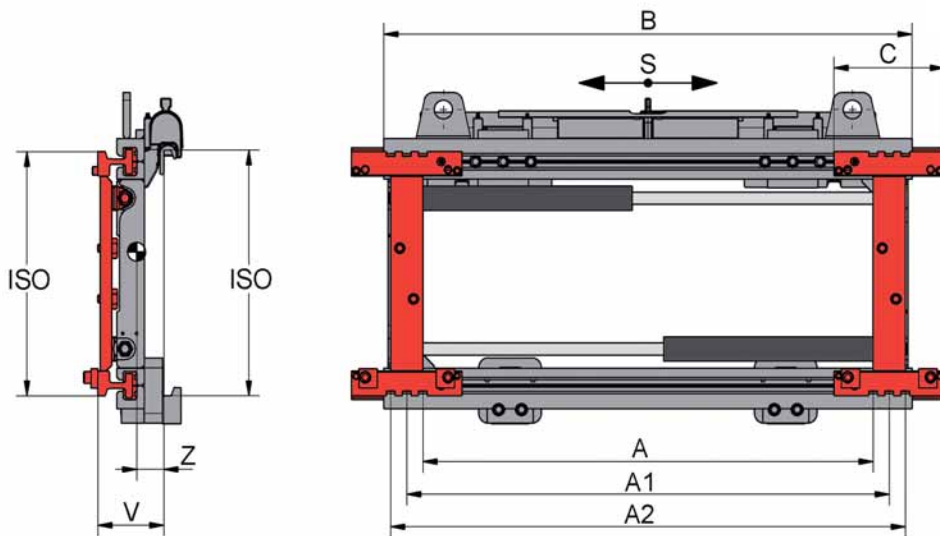
with valveblock sideshift dependent on opening range · 2 hydraulic functions

Model	Capacity kg/mm	A mm	B mm	fork profile		G mm	V mm	CofG Z mm	Weight kg		
				D mm	E mm						
6T 160 BIZ	6.000/600	200-1.200	1.460	70	150	1.200	141	254	676		
		200-1.400	1.650							247	692
		200-1.600	1.860							239	738
8T 160 BIZ	8.000/600	200-1.800	2.060	70	150	1.200	141	233	755		
		200-2.000	2.260							228	771
		210-2.060	2.400							224	783
10T 160 BIZ	8.000/900	100-1.730	2.060	70	200	2.400	178	596	1.182		
		100-1.900	2.260							585	1.210
		100-2.000	2.400							577	1.230
10T 160 BIZ	8.000/1.100	100-1.730	2.060	80	200	2.400	178	615	1.262		
		100-1.900	2.260							602	1.290
		100-2.000	2.400							594	1.310
12T 160 IZ	12.000/600	440-1.840	2.400	80	200	1.200	230	205	1.885		
		430-2.060	2.700							196	2.020
		540-2.440	3.100							188	2.160
16T 160 IZ	16.000/600	300-1.800	2.400	90	200	1.200	230	212	1.970		
	8.000/1.200		2.400			439				2.297	
	8.000/1.200	640-2.540	3.100			2.400				413	2.555
24T 160 IZ	24.000/600	200-1.700	2.400	90	250	1.200	230	231	2.113		
	12.000/1.200		2.400			495				2.537	
	12.000/1.200	540-2.440	3.100			2.400				459	2.782
32T 160 IZ	32.000/600	300-1.930	2.600	100	250	1.200	230	231	2.243		
	16.000/1.200		2.400			498				2.713	
	16.000/1.200	540-2.440	3.100			2.400				473	2.887

CofG and weight measurements do not take the cheek plates into account.  
 Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary.  
 Not suitable for clamping between the forks.  
 Larger models and different widths available upon request.

**IZA-Version:** with screw-on forks suitable for operation with a high degree of wear and tear and quick exchange of forks on site.





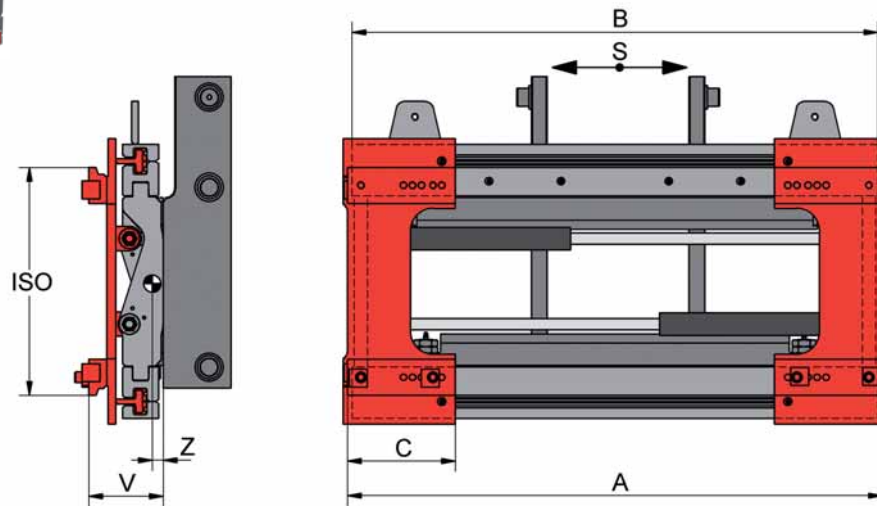
## Fork Positioner T466

with independent sideshift · without forks · for forks acc. to ISO 2330 · 2 hydraulic functions

Model	Capacity kg/mm	opening range centre to centre fork			B mm	C mm	S mm	suitable for max. fork width	ISO cl.	V mm	CofG Z mm	Weight kg
		A mm	A1 mm	A2 mm								
2T 466 B	2.500/500	150-690	250-790	320-860	880	240	± 100	120	2	138	58	134
		150-850	250-950	320-1.020	1.040						57	145
		150-950	250-1.050	320-1.120	1.150						57	152
		150-1.150	250-1.250	320-1.320	1.350						56	164
3,5T 466 B	3.500/500	180-880	250-950	320-1.020	1.040	240	± 100	130	3	143	59	162
		180-980	250-1.050	320-1.120	1.150						59	169
		490-1.390	250-1.250	320-1.320	1.350						57	184
4,8T 466 B*	5.000/600	180-980	250-1.050	320-1.120	1.150	240	± 100	150	3	153	69	237
		180-1.180	250-1.180	320-1.320	1.350						68	257
		180-1.280	250-1.280	320-1.420	1.460						68	268
		180-1.360	250-1.430	320-1.500	1.550						67	287
6T 466	6.000/600	260-1.060	350-1.150	440-1.240	1.350	330	± 100	150	4	176	72	348
		260-1.170	350-1.260	440-1.350	1.460						72	363
		260-1.560	350-1.650	440-1.740	1.860		± 160				73	404
8T 466	8.000/600	260-1.760	350-1.850	440-1.940	2.060	330	± 160	150	4	176	73	425
		260-1.960	350-2.050	440-2.140	2.260						74	445
		260-2.060	350-2.150	440-2.240	2.400						74	460
10T 466	8.000/1.100	260-1.760	360-1.860	460-1.960	2.060	370	± 160	200	4	270	106	733
		260-1.960	360-2.060	460-2.160	2.260						106	758
		260-2.060	360-2.160	460-2.260	2.400						106	779

Forks suitable for above attachments available upon request.  
 \* 4,8T with capacity (kg/mm) 2.700/1.200 available upon request.  
 Not suitable for clamping between the forks.





## Fork Positioner integrated T466I

with independent sideshift · without forks · for forks acc. to ISO 2330 · 2 hydraulic functions

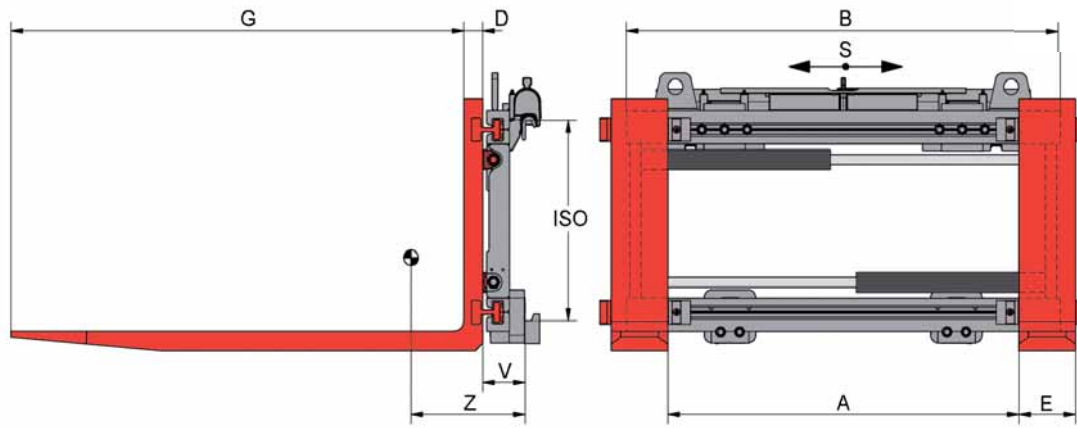
Model	Capacity kg/mm	A mm	B mm	C mm	S mm	ISO cl.	V mm	CofG Z mm	Weight kg
1,5T 466 I	1.600/500	490-1.090	1.040	240	±100	2	129	51	175
		490-1.190	1.150					51	181
2T 466 I	2.300/500	490-1.190	1.150	240	±100	2	138	57	194
		490-1.390	1.350					56	205
3,5T 466 I	3.200/500	490-1.190	1.170	240	±100	3	165	63	274
		490-1.390	1.350					62	294
4T 466 I	5.000/500	490-1.390	1.350	240	±100	3	165	59	354
		490-1.590	1.550					59	374
6T 466 I	6.000/600	490-1.670	1.650	240	±140	4	180	63	424
		490-1.790	1.850					63	443
8T 466 I	8.000/600	560-1.960	1.860	270	±140	4	214	80	754
		560-2.360	2.260					78	868
		560-2.460	2.400					78	888
10T 466 I	8.000/1.100	560-2.160	2.060	295	±160	4	252	95	1.065
		560-2.360	2.260					95	1.115
		560-2.460	2.400					95	1.135

CofG and weight measurements do not take the cheek plates into account.

Forks suitable for above attachments available upon request.

Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary.

Not suitable for clamping between the forks.



## Fork Positioner T466Z

with independent sideshift · 2 hydraulic functions

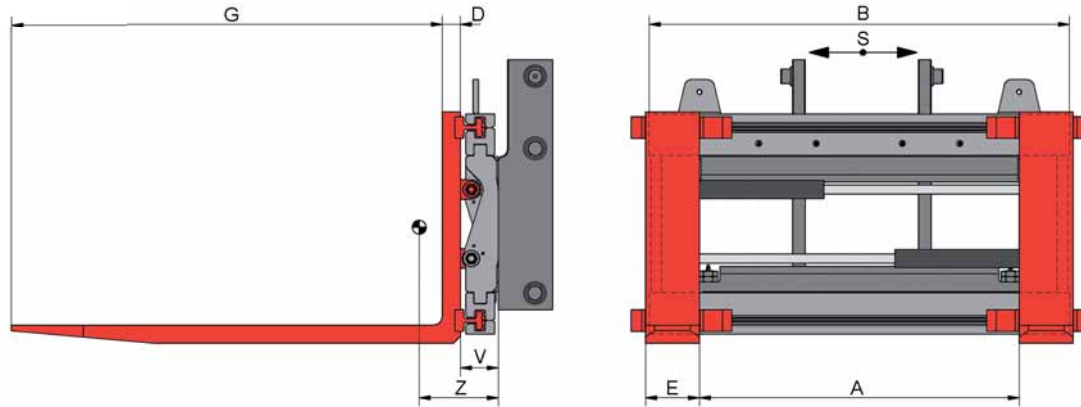
Model	Capacity kg/mm	A mm	B mm	fork profile		G mm	S mm	ISO cl.	V mm	CofG Z mm	Weight kg
				D mm	E mm						
1,5T 466 BZ	1.600/500	170-710	880	40	100	1.200	± 100	2	113	264	232
		170-870	1.040							259	240
		170-970	1.150							254	246
2T 466 BZ	2.500/500	130-670	880	45	120	1.200	± 100	2	113	291	266
		130-830	1.040							286	274
		130-930	1.150							281	280
		130-1.130	1.350							277	292
3,5T 466 BZ	3.500/500	130-830	1.040	50	150	1.200	± 100	3	113	308	341
		130-930	1.150							303	346
		130-1.130	1.350							295	356
4,5T 466 BZ	5.000/500	130-930	1.150	60	150	1.200	± 100	3	126	285	440
		130-1.130	1.350							275	458
		130-1.310	1.550							267	476
4,8T 466 BZ*	2.500/1.200	130-930	1.150	70	150	2.400	± 100	3	126	709	675
		130-1.130	1.350							703	693
		130-1.230	1.460							698	702
		130-1.310	1.550							695	711
6T 466 Z	6.000/600	200-1.110	1.350	70	150	1.200	± 100	4	151	261	644
		200-1.200	1.460				± 160			257	656
		200-1.600	1.860				248			670	
8T 466 Z	8.000/600	200-1.800	2.060	70	150	1.200	± 160	4	151	265	732
		200-2.000	2.260				256			749	
		210-2.060	2.400				247			763	
10T 466 Z	8.000/900	160-1.790	2.060	70	200	2.400	± 160	4	190	566	1.290
		160-1.960	2.260				556			1.317	
		160-2.060	2.400				550			1.337	
10T 466 Z	8.000/1.100	160-1.790	2.060	80	200	2.400	± 160	4	190	586	1.360
		160-1.960	2.260				577			1.397	
		160-2.060	2.400				570			1.416	

Not suitable for clamping between the forks.

\* 4,8T with capacity (kg/mm) 2.700/1.200 available upon request.

**ZA-Version:** with screw-on forks suitable for operation with a high degree of wear and tear and quick exchange of forks on site.





## Fork Positioner integrated T466IZ

with independent sideshift · 2 hydraulic functions

Model	Capacity kg/mm	A mm	B mm	fork profile		G mm	S mm	V mm	CofG		Weight kg
				D mm	E mm				Z mm	Z mm	
1,5T 466 IZ	1600/500	290- 890	1.040	40	100	1.200	± 100	79	218	223	223
		290- 990	1.150						213	229	
2T 466 IZ	2.300/500	250- 950	1.150	45	120	1.200	± 100	88	251	296	296
		250-1.150	1.350						244	308	
3,5T 466 IZ	3.200/500	190- 890	1.170	50	150	1.200	± 100	105	250	425	425
		190-1.090	1.350						242	440	
4T 466 IZ	5.000/500	190-1.090	1.350	60	150	1.200	± 100	105	223	561	561
		190-1.290	1.550						217	581	
6T 466 IZ	6.000/600	190-1.370	1.650	70	150	1.200	± 140	110	235	675	675
		190-1.490	1.850						230	694	
8T 466 IZ	8.000/600	260-1.660	1.860	70	150	1.200	± 140	128	197	965	965
		260-2.060	2.260						186	1.069	
		260-2.160	2.400						184	1.090	
10T 466 IZ	8.000/900	160-1.760	2.060	70	200	2.400	± 160	158	467	1.564	1.564
		160-1.960	2.260						459	1.590	
		160-2.060	2.400						453	1.615	
10T 466 IZ	8.000/1.100	160-1.760	2.060	80	200	2.400	± 160	158	485	1.652	1.652
		160-1.960	2.260						478	1.676	
		160-2.060	2.400						473	1.700	

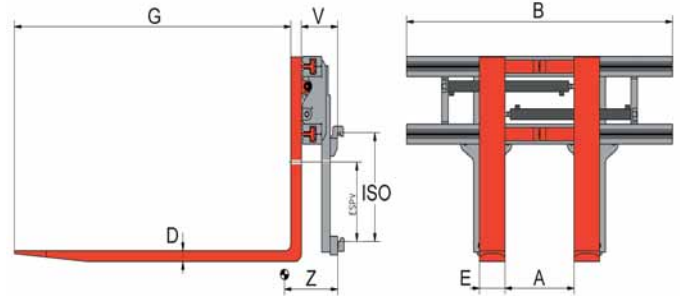
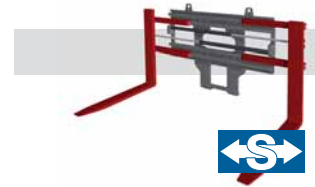
CofG and weight measurements do not take the cheek plates into account.  
 Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary.  
 Not suitable for clamping between the forks.  
 Larger models and different widths available upon request.

**IZA-Version:** with screw-on forks suitable for operation with a high degree of wear and tear and quick exchange of forks on site.



## Fork Positioners for Reach Trucks

As the leading manufacturer of industrial truck attachments, **KAUP** supplies a complete range of attachments specially designed for reach trucks. Due to the complexity of the scope (details regarding the wheel arms, ground clearance, width of the attachment etc.) it is advisable to contact our specialists directly for an individual quotation.



### Fork Positioner T466ZH

without sideshift - 1 hydraulic function

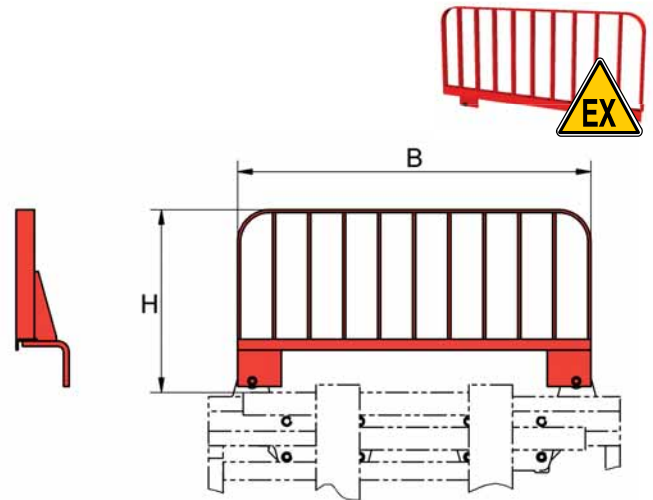
Model	Capacity kg/mm	A mm	B mm	fork profile		G mm	ISO cl.	V mm	CofG Z mm	Weight kg
				D mm	E mm					
2T 466 ZH	1.900/600	325-1.285	1.250	40	120	1.200	2	170	271	345
		320-1.780	1.720						257	380
		320-1.900	1.860						254	390

Fork Positioner T411ZH and T411ZH available upon request.

### Load Backrest T479

for KAUP fork positioners

Model	B mm	H mm	Weight kg
1T 479	970	500	26
1,5T 479	970	500	26
2T 479	1.130	500	28
3T 479	1.130	500	28
4T 479	1.130	500	32
5T 479	1.330	500	37
6T 479	1.550	500	48
8T 479	1.860	500	55
10T 479	2.060	500	78



All parts required for correct fitting to the standard lifting lugs on the attachment will be delivered with the load backrest.

## Symbols



**Operation in explosion hazardous areas**  
Modified available for operation in explosion hazardous areas according to the ATEX standard 94/9 EG II 2G c IIB T4.



Also available with sideshift.



Also available without sideshift.



**Load Backrest**  
Later fitting of a load backrest possible without modification.



Alternatively available with bolt-on forks.

KAUP attachments correspond to the requirements of the EEC regulations regarding quality, safety and technical documentation. Therefore all products will be delivered with CE-Mark. All technical data are subject to alteration.

KAUP is certified acc. to DIN EN ISO 9001



Helping hands for your Forklift truck

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