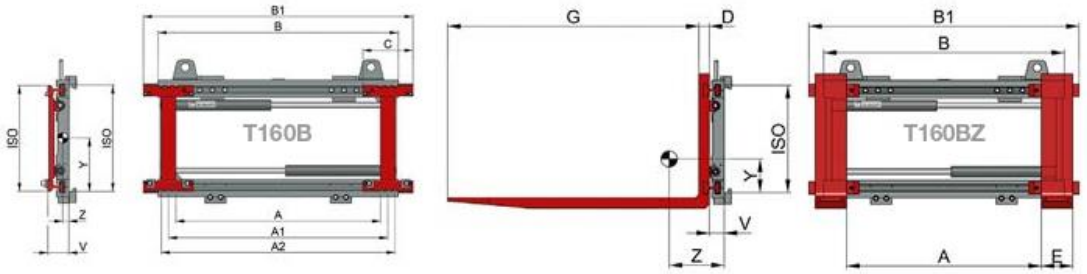
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Fork Positioners for Reach Trucks

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.





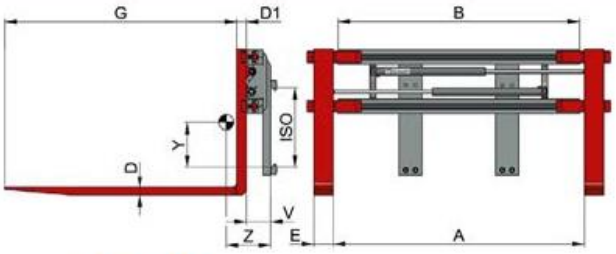
Fork Positioner T160B for reach trucks

Model	Capacity kg	LCD mm	Opening range centre to centre fork A mm	A1 mm	A2 mm	B mm	B1 mm	C mm	suitable for max. fork width	ISO cl.	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
2T 160B	2.080	600	150-410	250-510	320-580	750	750	240	120	2	96	33	234	100
			180-440	250-510	350-610	750	750					33	234	100
			150-550	250-650	320-720	750	890					33	234	100
2,5T 160B	2.500	600	150-410	250-510	320-580	750	750	240	120	2	96	30	246	105
			180-440	250-510	350-610	750	750					30	246	105
			150-550	250-650	320-720	750	890					30	245	105

Fork Positioner T160BZ for reach trucks

Model	Capacity kg	LCD mm	A mm	B mm	B1 mm	D mm	E mm	G mm	ISO Kl.	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
1,5T 160BZ	1.330	600	150 - 510	750	750	40	100	1.200	2	71	265	124	187
			150 - 610	750	850						265	124	187
2T 160BZ	2.080	600	110 - 470	750	750	45	120	1.200	2	71	304	109	222
			110 - 570	750	850						304	109	223
2,5 T160BZ	2.500	600	110 - 470	750	750	50	120	1.200	2	71	303	114	240
			110 - 570	750	850						302	115	241







Fork Positioner T466ZH for reach trucks

Model	Capacity kg	LCD mm	A mm	B mm	D mm	D1 mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
2T 466 ZH	1.900	600	325-1.285	1.250	40	50	120	1.200	2	126	258	191	270
			320-1.780	1.720						135	222	318	380
			320-1.900	1.860						135	219	324	390

Also available with sideshift.

T411IZH / T411ZH

Integrated / hook-on fork positioners based on clamp body - long-drop version - especially for four-way trucks. Available upon request



KAUP Fork Positioners

The demands on material handling tasks are increasingly more complex. KAUP Fork Positioners accommodate these requirements, as they increase the flexibility and profitability with more handling capacity of every forklift truck.

Especially when the width of the load changes constantly. For this reason Fork Positioners are the most frequent attachment found on forklift trucks after sideshifters. And KAUP offers a large variety of Fork Positioners - suitable for every transportation and operational task.

KAUP Fork Positioners are also, in some cases, available as integrated version with even better residual capacity.

Application recommendation for KAUP Fork Positioners

Light duty



Series T156: Starter series of KAUP Fork Positioners offer excellent value for money. The attachment is designed with hydraulic parallel movement with two cylinders and is based on the P5 sideshifter with fork positioning.



Series T163S: Fork Positioners specially designed for handling narrow loads to be picked up outside the width of the forklift truck as well as for loading and unloading of containers.



Series T163SN: Inexpensive, simple Fork Positioner with independent sideshift and absolutely symmetrical fork adjustment via positive synchronism by a chain. The original forklift truck forks can be used. The construction width and therefore the opening range of the attachment is not dependent on the width of the fork carriage of the forklift truck. Also available without sideshift function (T163N).

Medium duty



Series T160: Very economical Fork Positioner which allows the forklift truck driver excellent view on to the fork tips and the load. Fork Positioners T160 have a very favourable lost load centre. Therefore the achievable residual capacity is very good. Attachments in this range are fitted with „valve block sideshift“ as standard (see explanation on page 11). In addition the original forklift truck forks can be used on models T160 and T160BI. Models T160Z and T160IZ are fitted with weld-on forks.



Series T466: Extremely variable concept with independent sideshift and a total of four different versions:
T466 - hook-on design allowing the use of the original truck forks
T466Z - hook-on design with forks welded on
T466BI - integrated design allowing the use of the original truck forks
T466BIZ - integrated design with forks welded on
Special features:
1. Excellent residual capacity - especially the two versions with weld-on forks - T466Z / T66BIZ.
2. The integrated version has a minimum loss of the truck capacity - about 2 % - compared to the residual capacity of version with integrated sideshifter.

Heavy duty



Series T411Z, T411BZ, T411BZI and T411ZR (Fork Positioner with round forks)

Fork Positioners for extremely tough operation. The T411Z range of Fork Positioners is based on the T400 Clamp series. Spreading forces occuring, for example when handling coils, cable drums, rolls or wire coils, can readily be supported due to the large overlap of sectional profiles between fork guide and clamp body. Independent sideshift enables the load to be handled with the forks fully opened or closed together. The BZ and BZI versions function valveblock sideshift. (No sideshift possible when the forks are opened to the widest position). Sideshift strokes are dependent on opening range. This version is standard design concept for large opening ranges - up to 5.600 mm measured over the inner edges of forks. The BZI version is for integration into the mast to achieve even better residual capacities.



Recommended Oil flow rates and Pressures

Fork Positioners

Attachment	Page	Oil flow rate (oil volume) [l/min] min.	optimum	max.	Maximum operating pressure [bar]
2T 156 B	29	12	25	30	200
4,5T 156	29	12	25	30	200
2T 163 S	30	10	15	20	200
4,8T 163 S	30	15	25	30	200
2T 163 N / SN	31	12	20	25	180
4T 163 N / SN	31	12	20	25	180
4,5T 163 N / SN	31	12	20	25	180
4,8T 163 N / SN	30-31	12	20	25	180
5T 163 N / SN	30	15	25	35	180
6T 163 N / SN	30	15	25	35	180
8T 163 N / SN	30	15	25	35	180
1,5T 160 BZ	34-35, 44	15	25	30	180
2T 160 B / Z	32-35, 44	15	25	30	180
2,5T 160 B / Z	32-35, 44	15	25	30	180
3,5T 160 B / Z	32-35	15	25	30	180
4,5T 160 B / Z	34-35	15	25	30	180
4,8T 160 B / Z	32-35	15	25	30	180
6T 160 / Z	32-35	25	40	50	180
8T 160 / Z	32-35	25	40	50	180
10T 160 / Z	32-35	25	40	50	180
1,5T 466 BZ	38-39	15	25	30	180
2T 466 B / BZ	36-39	15	25	30	180
2,5T 466 B / BZ	36-39	15	25	30	180
3,5T 466 B / BZ	36-39	15	25	30	180
4,5T 466 BZ	36-39	15	25	30	180
4,8T 466 B / BZ	36-39	15	25	30	180
6T 466 / Z	36-39	25	40	50	180
8T 466 / Z	36-39	25	40	50	180
10T 466 / Z	36-39	25	40	50	180
1T 411 Z / ZR	41, 43	15	25	30	180
1,5T 411 Z / ZR	41, 43	15	25	30	180
1,6T 411 Z	41	15	25	30	180
2T 411 Z / ZR	41, 43	15	25	30	180
2,5T 411 Z	41	15	25	30	180
3T 411 Z	41	15	25	30	180
4T 411 Z	41	15	25	30	180
4,5T 411 Z	41	15	25	30	180
4,5T 411 Z.1	41	15	25	30	180
4,8T 411 Z	41	15	25	30	180
5T 411 Z	41	15	25	45	180
4T 411 BZ (I)	42-43	12	20	25	180
4,8T 411 BZ (I)	42-43	15	25	45	180
5T 411 BZ (I)	42-43	25	40	60	180
6T 411 BZ (I)	42-43	25	40	60	180
8T 411 BZ (I)	42-43	25	40	60	180
2T 466 ZH	44	10	15	20	180


T156B


T163S


T163SN


T160BZ


T466BZ


T411ZR


T411Z

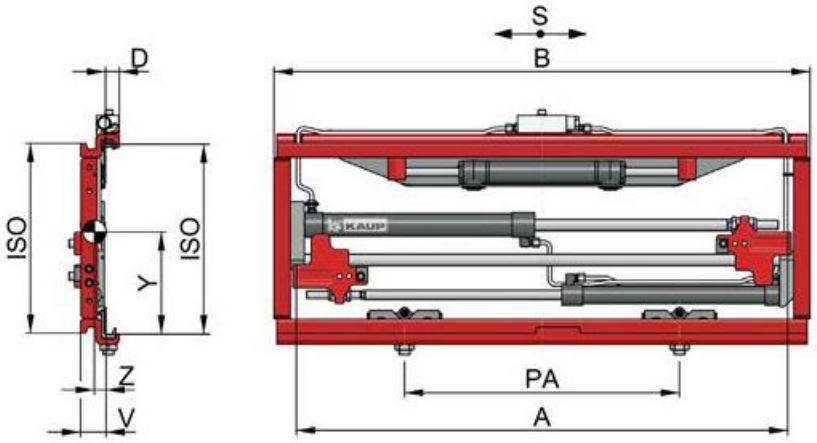

T411BZ


T411ZA


T411IZ


T411BZI


T160BI



Fork Positioner T156

Model	Capacity kg	LCD mm	S mm	Opening range A mm	B mm	D mm	PA mm	suitable for fork width mm	ISO cl.	V mm	CofG Z mm	CofG$_v$ Y mm	Weight kg
2T 156B	2.500	500	± 100	290 - 795	890	28	590	70 - 125	2	55	23	217	60
				290 - 885	980	28	590				22	217	63
				310 - 945	1.040	28	590				22	216	66
				295 - 1.055	1.150	28	590				22	215	70
4,5 T156	5.000	500	± 100	355 - 1.055	1.150	40	600	100 - 150	3	82	39	265	136
				355 - 1.255	1.350	40	600				40	265	152

The original forks of the forklift truck, up to length of 1.800 mm, can be used.

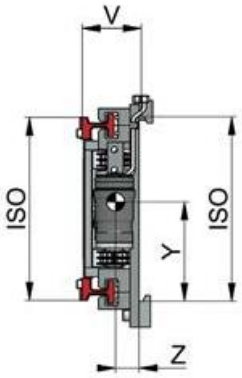


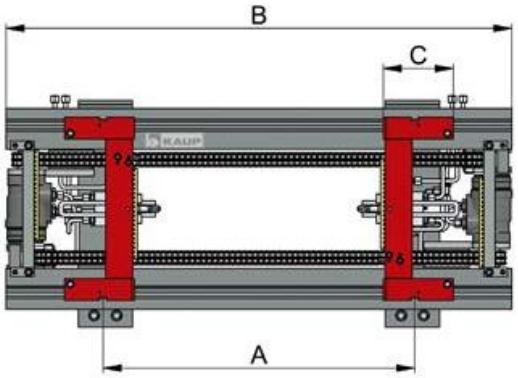




2T156B 4.5T156









2T163S



4,8T163S

Fork Positioner T163S

with sideshift dependent on the opening range

Model	Capacity kg	LCD mm	S_{max}* mm	Opening range A mm	B mm	C mm	suitable for fork width mm	ISO cl.	V mm	CofG Z mm	$CofG_V$ Y mm	Weight kg
2T 163S	2.500	600	± 385	140 - 910	1.040	155	125	2	126	50	217	129
2T 163S	2.500	600	± 425	140 - 990	1.120	155	125	2	126	50	217	134
4,8T 163S	5.000	600	± 505	260 - 1.270	1.350	240	120/130/140/150	3	141	59	253	244

Higher capacities and other construction widths available upon request.

***Please note that sideshift values can be considerably above maximum safety values for lateral stability.**

Fork Positioner T163ST with telescopic forks

Ideal attachment for:

- loading and unloading of containers,
- handling of narrow loads to be picked up outside the width of the forklift truck,
- handling of loads with low entry height e.g. sheet metal, chip boards etc.

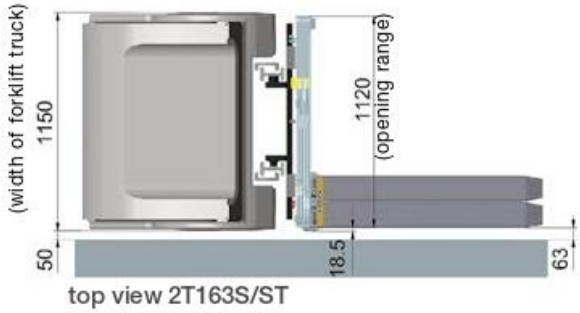
Maximum sideshift available when forks are in their closed position



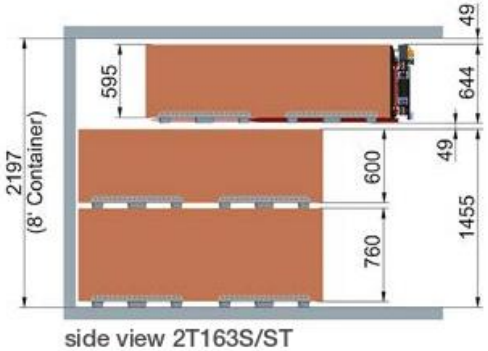




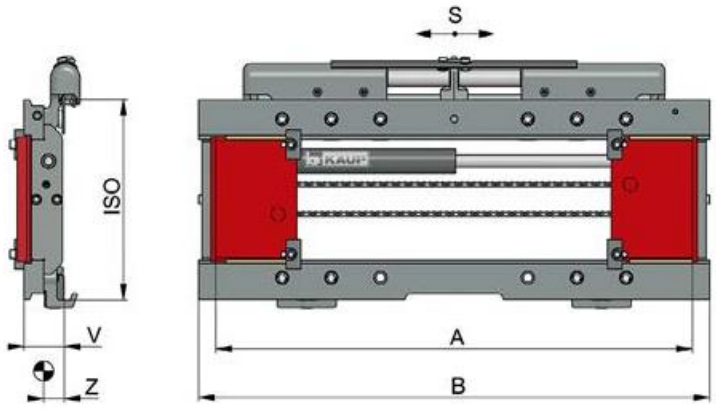
Maximum productivity in loading and unloading of containers



top view 2T163S/ST



side view 2T163S/ST



Fork Positioner T163SN

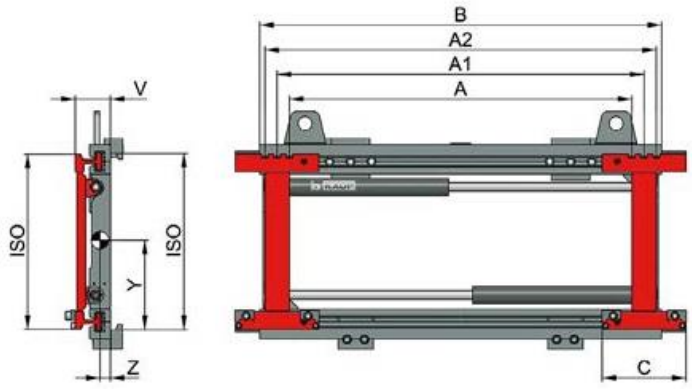
Model	Capacity kg	LCD mm	S mm	Opening range A mm	B mm	suitable for fork width mm	ISO cl.	V mm	CofG Z mm	Weight kg
2T 163 SN	2.500	600	± 100	350- 820	830	70-120	2	82	38	91
				350- 820	830	125-140		82	38	92
				310-1.030	1.040	70-120		82	40	104
				350-1.030	1.040	125-140		82	40	104
				430-1.150	1.160	70-120		82	41	109
				390-1.350	1.360	70-120		92	49	134
				390-1.490	1.500	70-120		92	50	143
				390-1.690	1.710	70-120		92	49	171
				500-2.120	2.130	70-120		92	51	209
4T 163 SN	4.000	500	± 100	390-1.030	1.040	90-160	3	82	41	153
				430-1.150	1.160	90-160		82	42	162
				390-1.350	1.360	90-160		82	43	177
				390-1.490	1.510	90-160		92	51	214
				390-1.690	1.710	90-160		92	52	232
4,5T 163 SN	5.000	500	± 100	430-1.150	1.160	90-160	3	92	48	182
				390-1.350	1.360	90-160		92	50	200
				390-1.790	1.810	90-160		112	65	303
				450-1.900	1.910	90-160		112	65	316
4,8T 163 SN	5.000	600	± 100	430-1.150	1.160	90-160	3	92	45	195
				390-1.350	1.360	90-160		92	50	216
5T 163 SN	5.000	600	± 100	470-1.190	1.200	150-200	4	102	57	256
6T 163 SN	8.000	600	± 160	470-1.390	1.400	150-200	4	102	46	345
				470-1.470	1.510	150-200		102	50	353
				500-1.680	1.690	150-200		102	50	385
				470-1.870	1.880	150-200		112	58	451
				530-1.980	1.990	150-200		112	58	463
8T 163 SN	8.000	600	± 160	500-2.120	2.130	150-200	4	132	68	588
				530-2.380	2.400	150-200		132	70	642

Preferential range

The original forks of the forklift truck, up to length of 1.600 mm, can be used.
If using longer forks the minimum bracket width to be selected is 240 mm (recommended width).
Model T163N - without sideshift.



150
T180
T479 / T479.1
151

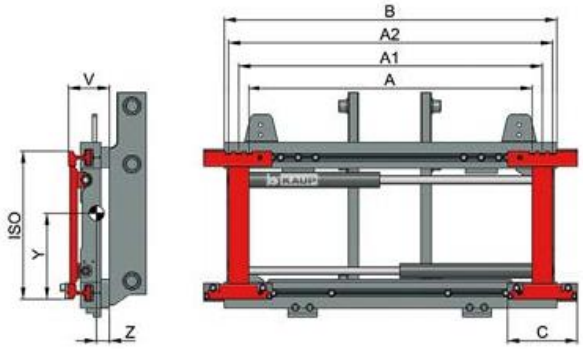


Fork Positioner T160

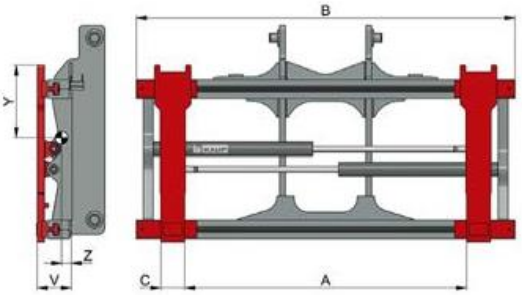
Model	Capa-city kg	LCD mm	Opening range centre to centre fork A mm	A1 mm	A2 mm	B mm	C mm	suitable for max. fork width	VS max mm	ISO cl.	V mm	CofG Z mm	CofG Y mm	Weight kg
2T160B	2.500	500	150-790	250-890	320-960	980	240	120	±160	2	96	32	235	115
			150-850	250-950	320-1.020	1.040			±175			32	234	119
			150-950	250-1.050	320-1.120	1.150			±200			31	232	125
			150-1.150	250-1.250	320-1.320	1.350			±250			31	230	137
2,5T160B	2.500	600	150-850	250-950	320-1.020	1.040	240	120	±175	2	96	30	244	124
			150-950	250-1.050	320-1.120	1.150			±200			30	242	130
3,5T160B	3.600	500	180-880	250-950	320-1.020	1.040	240	130	±175	3	101	38	258	119
			180-980	250-1.050	320-1.120	1.150			±200			37	257	125
			180-1.080	250-1.150	320-1.220	1.250			±225			37	257	131
			180-1.180	250-1.250	320-1.320	1.350			±250			37	257	137
			180-1.380	250-1.450	320-1.520	1.550			±300			35	255	149
			180-1.480	250-1.550	320-1.620	1.650			±325			34	254	155
4,8T160B*	5.000	600	180-980	250-1.050	320-1.120	1.150	255	150	±200	3	111	42	252	196
			180-1.180	250-1.250	320-1.320	1.350			±250			41	253	214
			180-1.280	250-1.350	320-1.420	1.460			±275			40	253	223
			180-1.360	250-1.430	320-1.500	1.550			±295			40	254	232
			180-1.580	250-1.650	320-1.720	1.750			±350			39	255	260
			180-1.680	250-1.750	320-1.820	1.850			±375			39	255	274
6T160	6.000	600	260-1.060	350-1.150	440-1.240	1.350	330	150	±200	4	136	54	324	256
			260-1.170	350-1.260	440-1.350	1.460			±227,5			53	323	268
			260-1.360	350-1.450	440-1.540	1.650			±275			53	323	287
			260-1.560	350-1.650	440-1.740	1.860			±325			52	323	308
8T160	8.000	600	260-1.560	350-1.650	440-1.740	1.860	330	150	±325	4	136	52	323	308
			260-1.760	350-1.850	440-1.940	2.060			±375			52	323	328
			260-1.960	350-2.050	440-2.140	2.260			±425			51	323	348
			260-2.060	350-2.150	440-2.240	2.400			±450			51	323	359
10T160	8.000	1.100	260-1.760	360-1.860	460-1.960	2.060	370	200	±375	4	170	68	326	542
			260-1.960	360-2.060	460-2.160	2.260			±425			67	326	571
			260-2.060	360-2.160	460-2.260	2.400			±450			67	326	590

Preferential range

*4,8T with capacity (kg/mm) 2.700/1.200 available upon request. Available without sideshift.



T160BI



T160ITW

Fork Positioner integrated T160BI

Model	Capa-city kg	LCD mm	Opening range centre to centre fork A mm	A1 mm	A2 mm	B mm	C mm	suitable for max. fork width	VS max mm	ISO cl.	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
2T 160BI	2.500	500	150-850	250-950	320-1.020	1.040	240	120	± 175	2	116	51	210	117
			150-950	250-1.050	320-1.120	1.150			± 200			51	210	123
2,5T 160BI	2.500	600	150-850	250-950	320-1.020	1.040	240	120	± 175	2	126	57	211	126
			150-950	250-1.050	320-1.120	1.150			± 200			57	210	132
3,5T 160BI	3.600	500	180-980	250-1.050	320-1.120	1.150	240	130	± 200	3	141	61	247	173
			180-1.180	250-1.250	320-1.320	1.350			± 250			61	248	188
4,8T 160BI*	5.000	600	180-1.180	250-1.250	320-1.320	1.350	255	150	± 250	3	141	63	255	250
			180-1.360	250-1.430	320-1.500	1.550			± 295			63	255	269
6T 160BI	6.000	600	260-1.170	350-1.260	440-1.350	1.460	330	150	± 227,5	4	166	64	330	395
			260-1.360	350-1.450	440-1.540	1.650			± 275			63	330	411
			260-1.560	350-1.650	440-1.740	1.860			± 325			61	328	457
8T 160BI	8.000	600	260-1.560	350-1.650	440-1.740	1.860	330	150	± 325	4	166	61	328	457
			260-1.760	350-1.850	440-1.940	2.060			± 375			61	328	474
			260-1.960	350-2.050	440-2.140	2.260			± 425			62	328	490
			260-2.060	350-2.150	440-2.240	2.400			± 450			62	327	502
10T 160BI	8.000	1.100	260-1.760	360-1.860	460-1.960	2.060	370	200	± 375	4	210	97	328	605
			260-1.960	360-2.060	460-2.160	2.260			± 425			96	328	635
			260-2.060	360-2.160	460-2.260	2.400			± 450			94	328	654

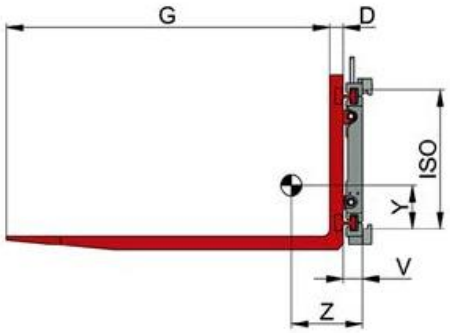
*4,8T with capacity (kg/mm) 2.700/1.200 available upon request. Forks manually adjustable. CofG and weight measurements do not take the cheek plates into account. Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary. Available without sideshift. Higher capacities and other construction widths available upon request.

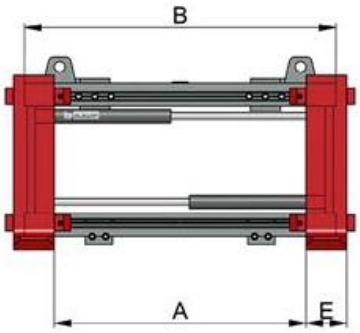
Fork Positioner integrated T160ITW for forks with quick release system 'Terminal West'

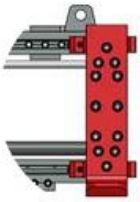
Model	Capacity kg	LCD mm	A mm	B mm	C mm	VS max mm	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
12T 160ITW	12.000	600	370-2.000	2.400	200	± 407,5	223	90	482	1.135
			300-2.300	2.700		± 500		87	484	1.235
			500-2.700	3.100		± 550		87	484	1.330
16T 160ITW	16.000	600	370-2.000	2.400	200	± 407,5	223	90	482	1.135
			500-2.700	3.100		± 550		87	484	1.330
24T 160ITW	24.000	600	270-1.900	2.400	250	± 407,5	233	90	483	1.175
			400-2.600	3.100		± 550		87	484	1.340
32T 160ITW	32.000	600	270-2.100	2.600	250	± 457,5	233	88	493	1.470
			260-2.600	3.100		± 585		86	494	1.590

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. Available without sideshift. Higher capacities and other construction widths available upon request.









T160ZA

Fork Positioner T160Z

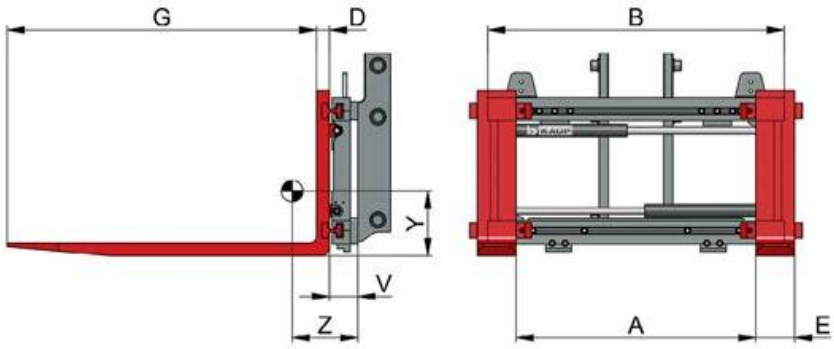
Model	Capacity kg	LCD mm	A mm	B mm	Fork profile D mm	Fork profile E mm	G mm	VS max mm	ISO cl.	V mm	CofG Z mm	CofG Y mm	$CofG_V$ Weight kg
1,5T160BZ	1.600	500	170-810	980	40	100	1.200	±160	2	71	245	134	209
			170-870	1.040				±175			240	135	213
			170-970	1.150				±200			234	137	219
2T160BZ	2.500	500	130-770	980	45	120	1.200	±160	2	71	284	118	244
			130-830	1.040				±175			280	120	247
			130-930	1.150				±200			273	122	253
			130-1.130	1.350				±250			263	125	265
2,5T160BZ	2.500	600	130-830	1.040	50	120	1.200	±175	2	71	274	126	266
			130-930	1.150				±200			269	128	272
3,5T160BZ	3.600	500	130-830	1.040	50	150	1.200	±175	3	71	308	126	302
			130-930	1.150				±200			303	129	307
			130-1.030	1.250				±225			300	131	312
			130-1.130	1.350				±250			292	133	317
			130-1.330	1.550				±300			292	138	327
			130-1.430	1.650				±325			290	140	332
4,5T160BZ	5.000	500	130-930	1.150	60	150	1.200	±200	3	84	275	144	403
			130-1.130	1.350				±250			264	149	421
			130-1.230	1.460				±275			258	152	433
			130-1.310	1.550				±295			253	154	439
			130-1.530	1.750				±350			244	160	458
			130-1.630	1.850				±375			240	162	467
4,8T160BZ*	5.000	600	130-930	1.150	60	150	1.200	±200	3	84	275	144	403
			130-1.130	1.350				±250			264	149	421
			130-1.230	1.460				±275			258	152	433
			130-1.310	1.550				±295			253	154	439
			130-1.530	1.750				±350			244	160	458
			130-1.630	1.850				±375			240	162	467
6T160Z	6.000	600	200-1.110	1.350	70	150	1.200	±227,5	4	111	280	182	527
			200-1.200	1.460				±250			275	185	538
			200-1.400	1.650				±300			267	189	558
			200-1.600	1.860				±350			259	194	579
8T160Z	8.000	600	200-1.600	1.860	70	150	1.200	±350	4	111	259	194	579
			200-1.800	2.060				±400			252	199	599
			200-2.000	2.260				±450			245	203	620
			210-2.060	2.400				±462,5			241	204	632
10T160Z	8.000	900	100-1.730	2.060	70	200	1.200	±407,5	4	138	253	212	877
			100-1.900	2.260				±450			247	216	905
			100-2.000	2.400				±475			243	218	924
10T160Z	8.000	1.100	100-1.730	2.060	80	200	1.200	±407,5	4	138	242	219	900
			100-1.900	2.260				±450			236	221	928
			100-2.000	2.400				±475			232	223	947

Preferential range

*4,8T with capacity (kg/mm) 2.700/1.200 available upon request.
Available without sideshift.

Model T160ZA with screw-on forks available upon request







T160IZA





Fork Positioner integrated T160IZ

Model	Capacity kg	LCD mm	A mm	B mm	Fork profile D mm	E mm	G mm	VS max mm	V mm	CofG Z mm	CofG$_V$ Y mm	Weight kg
1,5T160BIZ	1.600	500	170-870	1.040	40	100	1.200	±175	91	261	197	210
			170-970	1.150				±200		255	200	216
2T160BIZ	2.500	500	130-830	1.040	45	120	1.200	±175	91	300	184	245
			130-930	1.150				±200		293	187	251
2,5T160BIZ	2.500	600	130-830	1.040	50	120	1.200	±175	101	305	186	267
			130-930	1.150				±200		300	188	273
3,5T160BIZ	3.600	500	130-930	1.150	50	150	1.200	±200	111	292	221	355
			130-1.130	1.350				±250		283	225	370
4,5T160BIZ	5.000	500	130-1.130	1.350	60	150	1.200	±250	114	263	240	469
			130-1.310	1.550				±295		255	243	489
4,8T160BIZ*	5.000	600	130-1.130	1.350	60	150	1.200	±250	114	263	240	469
			130-1.310	1.550				±295		255	243	489
6T160BIZ	6.000	600	200-1.200	1.460	70	150	1.200	±250	141	261	338	636
			200-1.400	1.650				±300		253	342	661
			200-1.600	1.860				±350		239	349	709
8T160BIZ	8.000	600	200-1.600	1.860	70	150	1.200	±350	141	239	349	709
			200-1.800	2.060				±400		234	352	729
			200-2.000	2.260				±450		230	355	749
			210-2.060	2.400				±462,5		228	356	759
10T160BIZ	8.000	900	100-1.730	2.060	70	200	1.200	±407,5	178	268	350	963
			100-1.900	2.260				±450		263	352	991
			100-2.000	2.400				±475		258	357	1.015
10T160BIZ	8.000	1.100	100-1.730	2.060	80	200	1.200	±407,5	178	279	346	1.012
			100-1.900	2.260				±450		274	349	1.040
			100-2.000	2.400				±475		268	353	1.064
12T160IZ	12.000	600	370-2.000	2.400	80	200	1.200	±407,5	178	225	585	1.450
			300-2.300	2.700				±500		216	590	1.540
			500-2.700	3.100				±550		207	600	1.640
16T160IZ	16.000	600	370-2.000	2.400	90	200	1.200	±407,5	178	222	585	1.600
	8.000	1.200	370-2.000	2.400			2.400	±407,5		475	498	1.905
	8.000	1.200	500-2.700	3.100			2.400	±550		438	517	2.090
24T160IZ	24.000	600	270-1.900	2.400	90	250	1.200	±407,5	178	244	568	1.755
	12.000	1.200	270-1.900	2.400			2.400	±407,5		521	474	2.137
	12.000	1.200	400-2.600	3.100			2.400	±550		486	492	2.320
32T160IZ	32.000	600	270-2.100	2.600	100	250	1.200	±457,5	178	230	585	2.020
	16.000	1.200	270-2.100	2.600			2.400	±457,5		493	493	2.435
	16.000	1.200	260-2.600	3.100			2.400	±585		470	505	2.570

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

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.

Larger models and different widths available upon request.

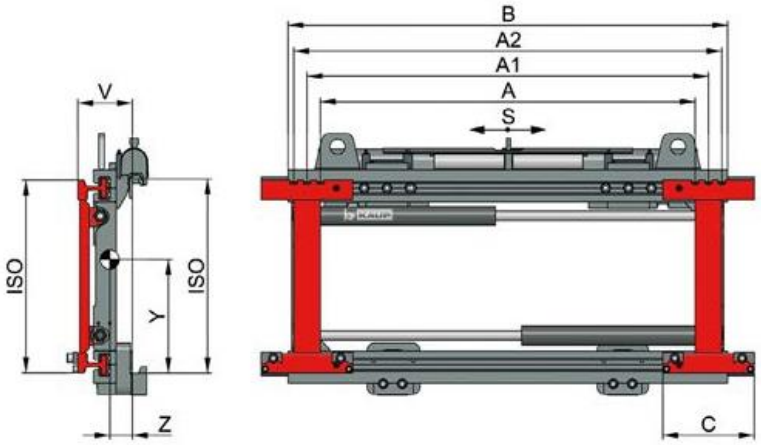
Available without sideshift.

Model T160IZA with screw-on forks available upon request





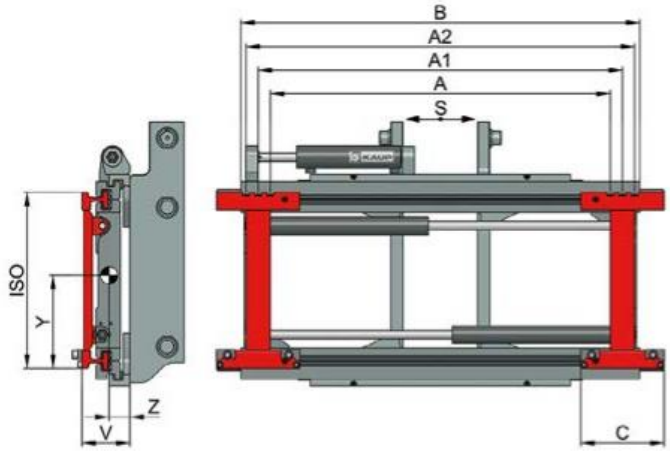




Fork Positioner T466

Model	Capacity kg	LCD mm	Opening range centre to centre fork A mm	A1 mm	A2 mm	B mm	C mm	S mm	suitable for max. fork width	ISO cl.	V mm	CofG Z mm	CofG Y mm	Weight kg
2T466C	2.500	600	150-790	250-890	320-960	980	240	±100	120	2	138	60	243	136
			150-850	250-950	320-1.020	1.040						60	243	137
			150-950	250-1.050	320-1.120	1.150						60	244	139
			150-1.150	250-1.250	320-1.320	1.350						61	241	149
3,5T466C	3.500	500	180-880	250-950	320-1.020	1.040	240	±100	130	3	153	61	285	179
			180-980	250-1.050	320-1.120	1.150						62	284	186
			180-1.080	250-1.150	320-1.220	1.250						62	283	194
			180-1.180	250-1.250	320-1.320	1.350						63	282	201
			180-1.380	250-1.450	320-1.520	1.550						64	280	216
			180-1.480	250-1.550	320-1.620	1.650						65	279	224
4,8T466C*	5.000	600	180-980	250-1.050	320-1.120	1.150	255	±100	150	3	153	65	280	217
			180-1.180	250-1.250	320-1.320	1.350						66	278	236
			180-1.280	250-1.350	320-1.420	1.460						67	278	247
			180-1.380	250-1.450	320-1.520	1.550						67	277	255
			180-1.580	250-1.650	320-1.720	1.750					163	71	274	304
			180-1.680	250-1.750	320-1.820	1.850						72	273	315
6T466	6.000	600	260-1.060	350-1.150	440-1.240	1.350	330	±100	150	4	176	72	367	329
			260-1.170	350-1.260	440-1.350	1.460						72	366	340
			260-1.360	350-1.450	440-1.540	1.650		±160				73	365	362
			260-1.560	350-1.650	440-1.740	1.860						73	362	389
8T466	8.000	600	260-1.560	350-1.650	440-1.740	1.860	330	±160	150	4	176	73	362	389
			260-1.760	350-1.850	440-1.940	2.060						73	360	409
			260-1.960	350-2.050	440-2.140	2.260						74	358	429
			260-2.060	350-2.150	440-2.240	2.400						74	357	440
10T466	8.000	1.100	260-1.760	360-1.860	460-1.960	2.060	370	±160	200	4	238	110	351	700
			260-1.960	360-2.060	460-2.160	2.260						110	350	725
			260-2.060	360-2.160	460-2.260	2.400						110	349	745

Preferential range
*4,8T with capacity (kg/mm) 2.700/1.200 available upon request.
Widths for reach trucks available upon request.
Model without sideshift available upon request.



150
T180
T479 / T479.1
151

Fork Positioner integrated T466BI

Model	Capacity kg	LCD mm	Opening range centre to centre fork A mm	A1 mm	A2 mm	B mm	C mm	S mm	suitable for max. fork width	ISO cl.	CofG V mm	CofG Z mm	CofG Y mm	Weight kg
2T 466 BI	2.500	500	150-850	250-950	320-1.020	1.040	240	± 100	120	2	133	58	218	156
			150-950	250-1.050	320-1.120	1.150						58	217	163
2,5T 466BI	2.500	600	150-850	250-950	320-1.020	1.040	240	± 100	120	2	133	60	218	158
			150-950	250-1.050	320-1.120	1.150						60	217	165
3,5T 466BI	3.500	500	180-980	250-1.050	320-1.120	1.150	240	±100	130	3	138	61	267	173
			180-1.180	250-1.250	320-1.320	1.350						59	265	197
4,8T 466BI*	5.000	600	180-1.180	250-1.250	320-1.320	1.350	255	± 100	150	3	148	65	268	279
			180-1.360	250-1.430	320-1.500	1.550						62	266	319
6T 466BI	6.000	600	260-1.170	350-1.260	440-1.350	1.460	330	± 100	150	4	170	70	330	375
			260-1.360	350-1.450	440-1.540	1.650		± 160				65	352	435
			260-1.560	350-1.650	440-1.740	1.860						64	348	473
8T 466BI	8.000	600	260-1.560	350-1.650	440-1.740	1.860	330	± 160	150	4	170	64	348	473
			260-1.760	350-1.850	440-1.940	2.060						63	345	517
			260-1.960	350-2.050	440-2.140	2.260						63	345	547
			260-2.060	350-2.150	440-2.240	2.400						62	344	579
10T 466BI	8.000	1.100	260-1.760	360-1.860	460-1.960	2.060	370	± 160	200	4	244	104	323	909
			260-1.960	360-2.060	460-2.160	2.260						102	322	979
			260-2.060	360-2.160	460-2.260	2.400						102	322	1.014

*4,8T with capacity (kg/mm) 2.700/1.200 available upon request. CofG and weight measurements do not take the cheek plates into account. Forks manually adjustable. Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary. Model without sideshift available upon request.

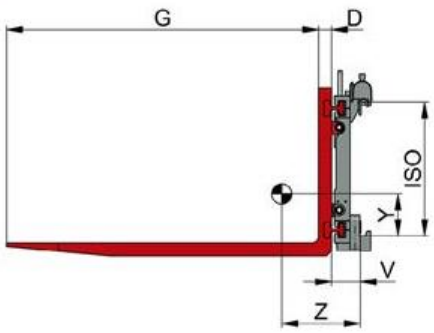

T466

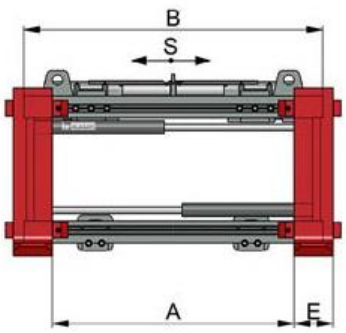

T466Z

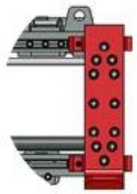

T466BI


T466BIZ









T466ZA

Fork Positioner T466Z

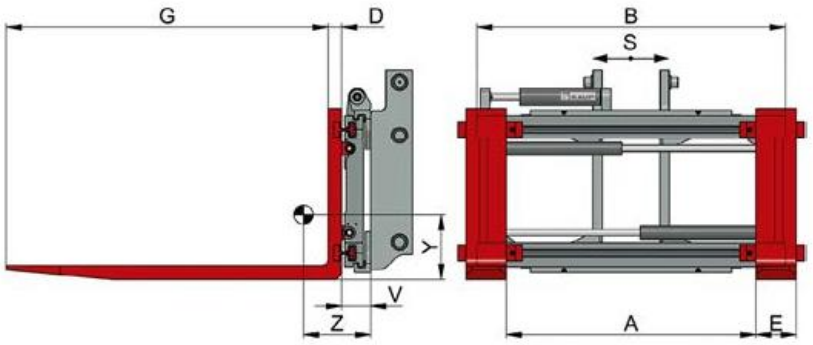
Model	Capacity kg	LCD mm	A mm	B mm	Fork profile D mm	Fork profile E mm	G mm	S mm	ISO cl.	V mm	CofG Z mm	CofG$_v$ Y mm	Weight kg
1,5T466CZ	1.600	500	170-810	980	40	100	1.200	±100	2	113	250	153	230
			170-870	1.040							250	153	231
			170-970	1.150							248	154	233
2T466CZ	2.500	500	130-770	980	45	120	1.200	±100	2	113	290	137	266
			130-830	1.040							289	137	267
			130-930	1.150							287	138	269
			130-1.130	1.350							280	141	278
2,5T466CZ	2.500	600	130-830	1.040	50	120	1.200	±100	2	113	296	134	280
			130-930	1.150							295	135	282
3,5T466CZ	3.500	500	130-830	1.040	50	150	1.200	±100	3	123	295	167	362
			130-930	1.150							290	169	370
			130-1.030	1.250							286	171	378
			130-1.130	1.350							282	172	385
			130-1.330	1.550							274	176	401
			130-1.430	1.650							270	177	408
4,5T466CZ	5.000	500	130-930	1.150	60	150	1.200	±100	3	126	289	170	428
			130-1.130	1.350							280	174	446
			130-1.230	1.460							275	176	457
			130-1.330	1.550							272	177	465
			130-1.530	1.750						136	255	185	514
			130-1.630	1.850							251	186	525
4,8T466CZ*	5.000	600	130-930	1.150	60	150	1.200	±100	3	126	289	170	428
			130-1.130	1.350							280	174	446
			130-1.230	1.460							275	176	457
			130-1.330	1.550							272	177	465
			130-1.530	1.750						136	255	185	514
			130-1.630	1.850							251	186	525
6T466Z	6.000	600	200-1.110	1.350	70	150	1.200	±100	4	153	284	220	597
			200-1.200	1.460							280	222	610
			200-1.400	1.650				±160			269	231	635
			200-1.600	1.860							261	234	662
8T466Z	8.000	600	200-1.600	1.860	70	150	1.200	±160	4	153	261	234	662
			200-1.800	2.060							256	237	682
			200-2.000	2.260							250	239	702
			210-2.060	2.400							248	240	713
10T466Z	8.000	900	160-1.790	2.060	70	200	1.200	±160	4	205	276	245	1.025
			160-1.960	2.260							272	247	1.050
			160-2.060	2.400							269	248	1.070
10T466Z	8.000	1.100	160-1.790	2.060	80	200	1.200	±160	4	205	286	240	1.075
			160-1.960	2.260							283	242	1.100
			160-2.060	2.400							280	243	1.120

Preferential range

*4,8T with capacity (kg/mm) 2.700/1.200 available upon request.
Model without sideshift available upon request.

Model 466ZA with screw-on forks available upon request







T466BIZA



Fork Positioner integrated T466BIZ

Model	Capacity kg	LCD mm	A mm	B mm	Fork profile D mm	Fork profile E mm	G mm	S mm	V mm	CofG Z mm	CofG$_v$ Y mm	Weight kg
1,5T 466BIZ	1.600	500	170-870	1.040	40	100	1.200	± 100	108	236	218	249
			170-970	1.150						231	220	256
2T 466BIZ	2.500	500	130-830	1.040	45	120	1.200	± 100	108	275	204	284
			130-930	1.150						269	206	291
2,5T 466BIZ	2.500	600	130-830	1.040	50	120	1.200	± 100	108	282	202	298
			130-930	1.150						277	203	305
3,5T 466BIZ	3.500	500	130-930	1.150	50	150	1.200	± 100	108	295	228	353
			130-1.130	1.350						279	234	377
4,5T 466BIZ	5.000	500	130-1.130	1.350	60	150	1.200	± 100	121	262	249	485
			130-1.310	1.550						246	255	525
4,8T 466BIZ*	5.000	600	130-1.130	1.350	60	150	1.200	± 100	121	262	249	485
			130-1.310	1.550						246	255	525
6T 466BIZ	6.000	600	200-1.200	1.460	70	150	1.200	± 100	145	263	341	649
			200-1.400	1.650				± 160		244	365	709
			200-1.600	1.860						234	368	747
8T 466BIZ	8.000	600	200-1.600	1.860	70	150	1.200	± 160	145	234	368	747
			200-1.800	2.060						224	373	791
			200-2.000	2.260						218	376	821
			210-2.060	2.400						212	379	852
10T 466BIZ	8.000	900	160-1.790	2.060	70	200	1.200	± 160	211	244	374	1.230
			160-1.960	2.260						235	377	1.298
			160-2.060	2.400						231	379	1.335
10T 466BIZ	8.000	1.100	160-1.790	2.060	80	200	1.200	± 160	211	254	370	1.280
			160-1.960	2.260						245	373	1.347
			160-2.060	2.400						241	375	1.385

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

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.

Larger models and different widths available upon request.

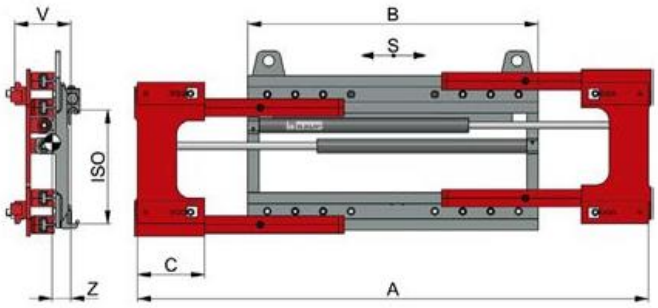
Model without sideshift available upon request.

Model T466BIZA with screw-on forks available upon request









Fork Positioner T410Z

Model	Capacity kg	LCD mm	S mm	A mm	B mm	C mm	ISO cl.	V mm	CofG Z mm	Weight kg
1T410Z	1.500	500	± 100	540-1.500	750	240	2	183	88	173
				540-1.720	970				87	196
				550-1.900	1.130				87	206
				530-1.930	1.200				86	211
1,6T410Z	2.300	500	± 100	530-1.710	1.040	240	2	188	84	225
				560-1.860	1.130				84	231
				560-2.060	1.330				84	244
1,6T400Z	2.300	500	without	540-1540	850	240	2	181	82	209
2,5T410Z	2.800	500	± 100	530-1.710	1.040	240	2	198	90	240
				560-1.860	1.130				89	246
				560-2.060	1.330				88	259
2,5T400Z	2.800	500	without	540-1540	850	240	2	191	87	222
2,5T410Z	3.000	500	± 100	560-1.860	1.130	240	3	203	90	248
				560-2.060	1.330				89	261
3T410Z	3.600	500	± 100	560-1.860	1.130	240	2/3	223	95	374
				560-2.060	1.330				94	392
				550-2.170	1.460				94	403
4T410Z	4.150	500	± 100	560-1.860	1.130	240	3	233	100	420
				560-2.060	1.330				99	440
				550-2.170	1.460				99	452
4,5T410Z	5.000	500	± 100	580-1.930	1.200	240	3	258	114	483
				540-1.980	1.330				113	499
				570-2.170	1.460				112	515
				580-2.280	1.550				112	526
4,8T410Z	5.000	600	± 100	580-1.930	1.200	240	3	253	113	487
				540-1.980	1.330				112	501
				570-2.170	1.460				111	517
				580-2.280	1.550				111	527
5T410Z	6.200	600	± 160	530-2.160	1.550	260	4	260	99	610
				800-2.700[1)]	1.550				102	670
				530-2.430	1.820				99	643

Preferential range

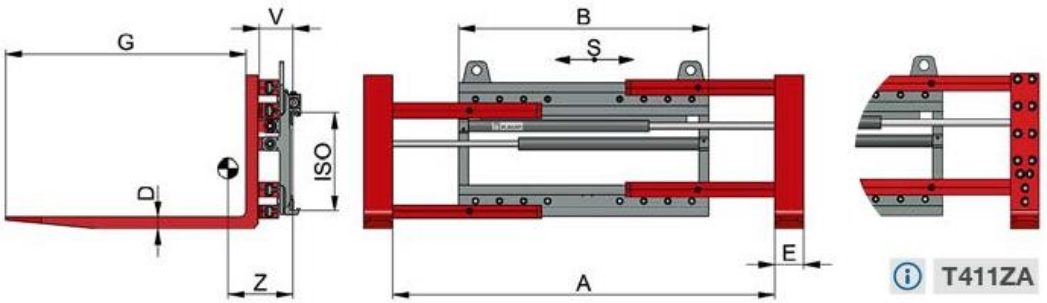
[1)] Transport of europallets lengthwise not possible.
Fork Positioner with cylinder- and sideshift protection upon request.
Fork Positioner without sideshift model T400Z.



1.6-2.5T410Z



T410Z



T411ZA

150

T479

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Fork Positioner T411Z

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	Weight kg
1T411Z	1.500	500	± 100	340-1.300	750	40	100	1.200	2	133	268	237
				340-1.520	970						251	259
				350-1.700	1.130						244	270
				330-1.730	1.200						241	274
1,6T411Z	2.300	500	± 100	290-1.470	1.040	45	120	1.200	2	133	266	324
				320-1.620	1.130						262	330
				320-1.820	1.330						255	343
1,6T401Z	2.300	500	without	300-1.300	850	45	120	1.200	2	126	269	313
2,5T411Z	2.800	500	± 100	290-1.470	1.040	50	120	1.200	2	143	272	352
				320-1.620	1.130						269	358
				320-1.820	1.330						262	371
2,5T401Z	2.800	500	without	300-1.300	850	50	120	1.200	2	136	275	342
2,5T411Z	3.000	500	± 100	320-1.620	1.130	50	120	1.200	3	143	268	360
				320-1.820	1.330						261	373
3T411Z	3.600	500	± 100	260-1.560	1.130	50	150	1.200	2/3	152	259	495
				260-1.760	1.330						253	513
				130-1.630	1.460						250	522
				250-1.870	1.460						249	524
4T411Z	4.150	500	± 100	260-1.560	1.130	50	150	1.200	3	162	248	559
				260-1.760	1.330						243	578
				130-1.630	1.460						240	589
				250-1.870	1.460						239	591
4,5T411Z	5.000	500	± 100	280-1.630	1.200	60	150	1.200	3	188	258	652
				240-1.680	1.330						254	667
				270-1.870	1.460						250	682
				280-1.980	1.550						248	695
4,5T411Z.1	5.000	500	± 100	280-1.630	1.200	60	150	1.200	3	178	256	650
				240-1.680	1.330						252	664
				270-1.870	1.460						249	679
				280-1.980	1.550						246	690
4,8T411Z	5.000	600	± 100	280-1.630	1.200	60	150	1.200	3	178	256	650
				240-1.680	1.330						252	664
				270-1.870	1.460						249	679
				280-1.980	1.550						246	690
5T411Z	6.200	600	± 160	190-1.690	1.460	70	150	1.200	4	176	250	807
				230-1.860	1.550						247	819
				500-2.400[1)]	1.550						239	879
				230-2.130	1.820						241	850

Preferential range [1)] Transport of europallets lengthwise not possible.
Also available without sideshift, model T401Z.

Model T411ZA with screw-on forks available upon request

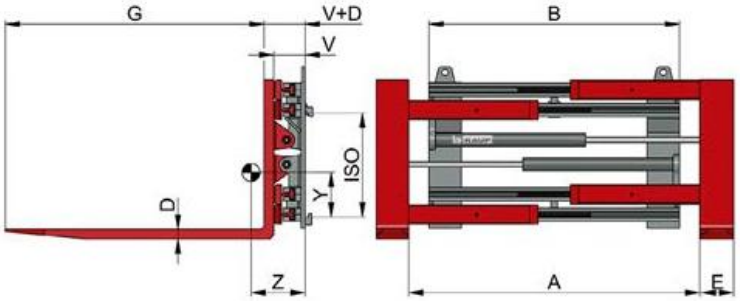

4.5T411Z

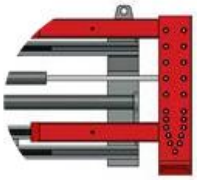

4.5T411Z.1


T411ZA









T411BZA

Fork Positioner, wide version T411BZ

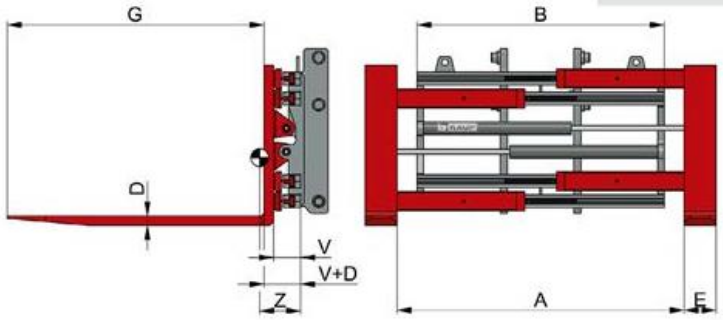
Model	Capacity kg	LCD mm	A mm	B mm	D mm	E mm	G mm	VS max mm	ISO cl.	V mm	CofG Z mm	CofG Y mm	Weight kg
4T411BZ	4.500	500	330-2.530	2.030	60	120	1.200	±550	3	168	184	264	805
4,8T411BZ	6.000	500	220-1.850	1.550	60	150	1.200	±407,5	3	184	209	275	885
5T411BZ	6.300	600	220-1.850	1.550	60	150	1.200	±407,5	4	184	203	321	925
			180-2.080	1.860				±475			195	325	1.010
			380-2.480 1)	1.860				±525			195	326	1.014
			310-2.510 1)	2.030				±550			191	328	1.046
6T411BZ	8.000	600	170-1.800	1.550	60	200	1.200	±407,5	4	194	233	314	1.165
			130-2.030	1.860				±475			226	318	1.225
			330-2.430 1)	1.860				±525			225	319	1.229
6T411BZ	8.000	600	200-3.800 1)	3.390	50	300	1.200	±900	4	194	218	315	1.545
8T411BZ	8.000	900	210-1.840 1)	1.550	70	200	1.200	±407,5	4	230	230	333	1.435
			330-2.530 1)	2.000				±550			219	339	1.564
			400-2.900 1)	2.400				±625			211	344	1.672
8T411BZ 2)	5.000	1.200	2.600-5.600 1)	4.500	70	200	1.200	±750	4	230	135	380	2.515

1) Transport of europallets lengthwise not possible.
2) Alternatively available with third fork in the centre.
Also available without sideshift, model T401BZ.

Models T411BZA / BZIA with screw-on forks available upon request
Model T411ZRA with screw-on round forks available upon request









42 T411BZIA

150 V 2

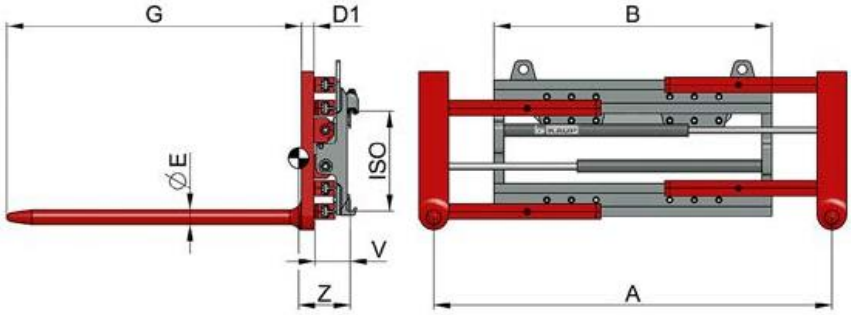
T479

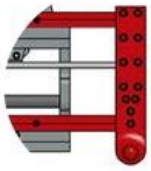
151 STOP

Fork Positioner, wide version, integrated T411BZI

Model	Capacity kg	LCD mm	A mm	B mm	D mm	E mm	G mm	VS max mm	V mm	CofG Z mm	Weight kg
4T411BZI	4.500	500	330-2.530	2.030	60	120	1.200	± 550	139	138	848
5T411BZI	6.300	600	220-1.850	1.550	60	150	1.200	± 407,5	159	193	840
			180-2.080	1.860				± 475		185	902
			380-2.480[1)]	1.860				± 525		185	906
			310-2.510[1)]	2.030				± 550		181	936
6T411BZI	8.000	600	170-1.800	1.550	60	200	1.200	± 407,5	169	223	1.057
			130-2.030	1.860				± 475		216	1.117
			330-2.430[1)]	1.860				± 525		215	1.121
6T411BZI	8.000	600	200-3.800[1)]	3.390	50	300	1.200	± 900	169	208	1.437
8T411BZI	8.000	900	330-2.530[1)]	2.000	70	200	1.200	± 550	188	199	1.424
			400-2.900[1)]	2.400				± 625		191	1.532

CofG and weight measurements do not take the cheek plates into account. [1)] Transport of europallets lengthwise not possible. Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary. Also available without sideshift, model T401BZI.





42 T411ZRA

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T479

151 STOP

Fork Positioner with round forks T411ZR

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D1 mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	Weight kg
1T 411 ZR	1.500	500	± 100	420-1.380	750	50	60	1.200	2	133	245	235
				420-1.600	970						230	258
				430-1.780	1.130						224	268
				410-1.810	1.200						221	273
1,5T 411 ZR	2.300	500	± 100	440-1.620	970	50	60	1.200	2	133	211	295
				160-1.060	970						215	285
				450-1.800	1.130						207	305
				210-1.390	1.200						205	308
				430-1.830	1.200						205	310
2T 411 ZR	2.800	500	± 100	400-1.500	970	50	70	1.200	2/3	143	210	316
				440-1.740	1.130						205	326
				190-1.240	1.130						209	315
				240-1.540	1.330						201	337
				440-1.940	1.330						200	339

Can be supplied without sideshift Model T401ZR.