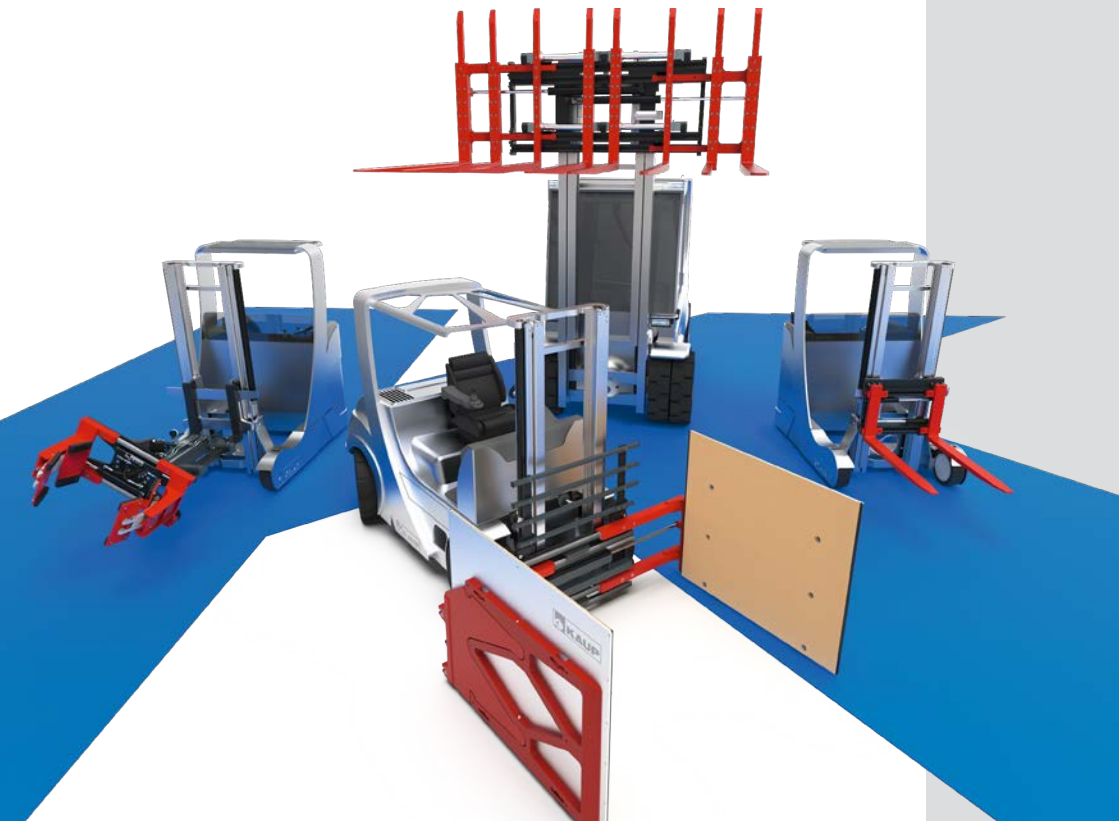




Helping hands for your Forklift truck

APAC RANGE BROCHURE EXTENSION

01 • 2023



FORKLIFT TRUCK ATTACHMENTS

Sideshifter T151P5 Fork Positioner T180ZA.1 T180ZA.2 T156BK T156B T163SN.2 T466IPZ	4 - 9
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Australia & New Zealand



KAUP AUSTRALIA Pty Ltd.

5-11 Helium Street, Narangba
Queensland 4504, Australia

☎ +61 7 3888 1277 • ☎ +61 7 3888 3838
✉ sales@kaup.com.au • 🌐 www.kaup.com.au



Urgent Engineering

15 Springs Road, East Tamaki, 2013 Auckland, NZ

☎ +649 273 9140 • ✉ frank@urgenteng.co.nz
🌐 www.urgentengineering.co.nz

China



KAUP EAST (Xiamen) FLT Attachments Co. Ltd

No. 318, Yang Guang Xi Road • Haicang
PRC-361028 Xiamen, Fujian • PR China

☎ +86 592 6191 618 • ☎ +86 592 6191 699
✉ jianjin.chen@kaup.com.cn • 🌐 www.kaup.com.cn

India



KAUP INDIA Material Handling Pvt. Ltd.

F-206 • Eastern Business District • LBS Road
Bhandup West • Mumbai 400078 • Maharashtra • India

Mr. Dharmesh Salian
☎ +91 9 987 111 707
✉ dharmesh.salian@kaup.de
🌐 kaup.salian.dharmesh

Indonesia



PT. Karya Anugerah Utama Perkasa

Jl. Raya Mustika Jaya No. 19 • Kota Legenda
Bekasi Timur • Bekasi 17310 • Indonesia

☎ +62 21 826 03048
☎ +62 21 826 07127
✉ edi@kaup.co.id

Japan



Wellstone Japan Ltd.

5-9-69 Kikyogaoka
J-Nabari City • Mie Pref. • 518-0625

☎ +81 595 665185
☎ +81 595 665187
☎ +81 90 36510854
✉ wellstone-jp@nifty.com
🌐 www.wellstone-jp.com

South Korea



HaeSung ENG Co.

#1301 • Daerung Post Tower 6
298 • Beotkkot-ro • Geumcheon-gu
Seoul • 08510 • Korea

☎ +82 2 2633 5847 • ☎ +82 2 861 5847
☎ +82 10 5240 5947
✉ herceng@naver.com

Sri Lanka, Indian Ocean and Middle East



KAUP INDIAN OCEAN

No 6, Nelum Mawatha • Jayanthipura
Battaramulla • Sri Lanka

☎ +94 11 2864 634
☎ +94 11 5522 627
☎ +94 7779 14677
✉ rohitha.witharana@kaup.de
🌐 kaup.witharana.rohitha



Thailand, Vietnam



Material World Co., Ltd.

55/5 Moo 1 • Chaiyaphruek Rd.
Klong Phra u-dom • Pakret
Nonthaburi 11120 • Thailand

☎ +66 (2) 501 6300
☎ +66 (2) 501 6363
✉ center@materialworld.co.th
🌐 www.materialworld.co.th

United States of America & Canada



OE Attachments

16000 West 108th Street,
Lenexa, KS 66219, USA
☎ +1.913.599.9040

✉ info@oeattachments.com
🌐 www.oeattachments.com



Other countries, not covered by local representatives

please contact one of our production sites

KAUP GmbH & Co. KG

Braunstrasse 17
63741 Aschaffenburg • Germany
☎ +49 6021 865 0 • ☎ +49 6021 865 213
✉ zentrale@kaup.de
🌐 www.kaup.de

KAUP-East (Xiamen) FLT Attachments Co. Ltd

No. 318, Yang Guang Xi Road • Haicang
PRC-361028 Xiamen, Fujian • PR China
☎ +86 592 6191 618 • ☎ +86 592 6191 699
✉ jianjin.chen@kaup.com.cn
🌐 www.kaup.com.cn

KAUP AUSTRALIA Pty Ltd.

5-11 Helium Street, Narangba
Queensland 4504, Australia
☎ +61 7 3888 1277 • ☎ +61 7 3888 3838
✉ sales@kaup.com.au
🌐 www.kaup.com.au

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Recommended Oil flow rates and Pressures

Attachment	Page	Oil flow rate (oil volume) [l/min]			Maximum operating pressure [bar]
		min.	optimum	max.	
2.5T - 4T 151P5	4	4	8	12	200
2T - 3T 180ZA.1 / .2	5	12	25	30	200
2.5T -4.5T 156BK / B	6-7	12	25	30	200
2T - 4.8T 163 SN.2	8	12	20	25	180
5T - 8T 163 SN.2	8	15	25	35	180
8T -16T 466IPZ	9	25	40	50	180
3T - 5T 409	10	15	25	30	200
2T - 3T 429	10	15	25	30	200
2T - 2.5T 351.4 / 391.4	11	25	45	60	200
2T 351/T129	12	15	20	25	200
2T 456B/129S	12	15	20	25	180
1.5T -2T 411DH	13	20	30	45	180
3T - 4.8T 411DH	13	25	40	60	180
1.5T - 2T 451DH	13	15	20	25	180
3T - 4.8T 451DH	13	25	40	50	180
6T 451DH	13	30	50	70	180
1T - 2T 413CT	14	20	30	45	180
1.5T - 2T 453CT	14	15	20	25	180
2T 414BGT-1	15	15	20	25	180
1.5T -2T 414B-1.1	15	20	30	45	180
1T 106	16	10	15	20	180
2T 451.4	16	25	45	60	180
4T 451.4	16	25	45	60	180
2T 491 WA	17	15	20	25	160
2T 458 BC.4 /BC-2.4 /B.4 /B-2.4	18-19	25	45	60	180
3T 458 BC.4 /BC-2.4 /B.4 /B-2.4	18-19	25	40	50	180
2T - 3T 141S/180	20	15	20	30	150
3T 144S/146S	20-21	20	30	40	150
2T 130	21	15	20	30	150
3T - 4T 130	21	20	30	50	150
5T 130	21	25	40	60	150
1T 180BT.52	22	15	25	30	150

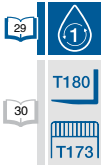
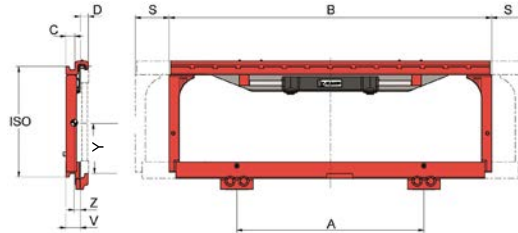
Sideshifters

are the most common attachment encountered on forklift trucks. The sideshifter allows lateral shift of the load, taking the truck capacity into account of ± 100 mm.

 **2.5T151P5 / 3.5T151P5**
Adjustable lower hooks
EASYSIDE sliding pads



 **4T151P5**
SMOOTHROLL bottom brackets



Sideshifter T151P5

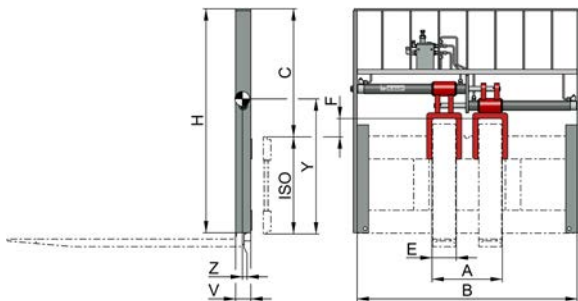
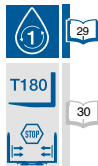
Model	Capacity kg	LCD mm	B mm	A mm	C mm	D mm	S mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2.5T151P5	2,500	600	890	550	33	29	± 100	2	54	21	216	49
			920	590	33	29	± 100	2	54	21	216	50
			940	590	33	29	± 100	2	54	21	215	51
			980	590	33	29	± 100	2	54	21	215	52
			1,020	590	33	29	± 100	2	54	21	214	53
			1,040	590	33	29	± 100	2	54	21	214	54
			1,150	590	33	29	± 100	2	54	21	212	58
3.5T151P5*	3,000	600	1,190	690	33	29	± 100	2	54	21	212	59
			1,040	600	42	38	± 100	3	64	23	289	77
			1,100	600	42	38	± 100	3	64	23	289	80
			1,150	600	42	38	± 100	3	64	23	289	83
			1,250	600	42	38	± 100	3	64	23	289	87
			1,300	700	42	38	± 100	3	64	23	289	89
4T151P5*	4,600	600	1,350	700	42	38	± 100	3	64	23	289	92
			940	500/700	53	40	± 100	3	82	36	266	100
			1,020	500/700	53	40	± 100	3	82	36	266	106
			1,190	500/700	53	40	± 100	3	82	37	267	116
			1,350	500/700	53	40	± 100	3	82	37	267	127

Preferential range

* 3.5T151P5 with capacity 3,500 kg / 500 mm ; 4T151P5 with capacity 5,000 kg / 500 mm

When using forks longer than 1,800 mm we recommend the high performance model T151P2

Sizes are available outside this range upon request (to a maximum of 2.5T151P5 = 1,200 mm, 3.5T151P5 = 1,350 mm, 4T151P5 = 1,400 mm)



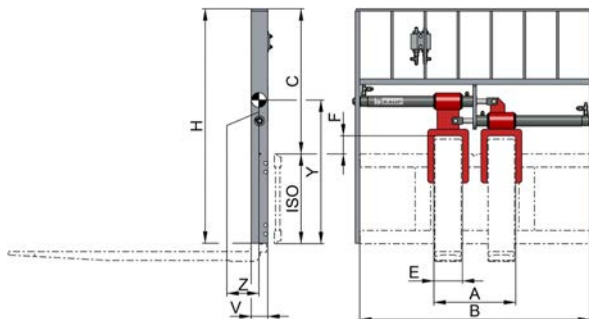
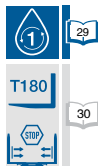
Fork Positioner T180ZA.1 - Load Guard Style - Front Mount

Model	Capacity kg	LCD mm	B mm	A mm	C mm	suitable for fork widths ¹⁾ mm	H mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T180ZA.1	2,500	600	920	360-730	758	125	1,163	2	0	9	639	85
			1,040	360-850	758	100	1,163	2	0	9	655	88
			1,040	360-850	758	80	1,163	2	0	9	655	88
			1,080	360-890	658	120	1,063	2	0	8	622	86
			1,080	360-890	658	100	1,063	2	0	8	623	86
3T180ZA.1	4,600	600	960	360-960	758	100	1,163	2	0	9	663	92
			960	360-770	672	125	1,172	3	0	9	681	87
			1,150	360-960	672	100	1,172	3	0	9	681	92
			1,150	390-960	672	125	1,172	3	0	9	681	92
			1,150	360-960	672	150	1,172	3	0	9	681	93

Preferential range Fork hooks cannot be wider than the fork shank. Options - Sideshifting - add required T151
Fork length over 1,800 mm, please contact KAUP.

1) Optional with fork width; Optional with construction width / height.

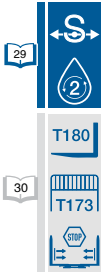
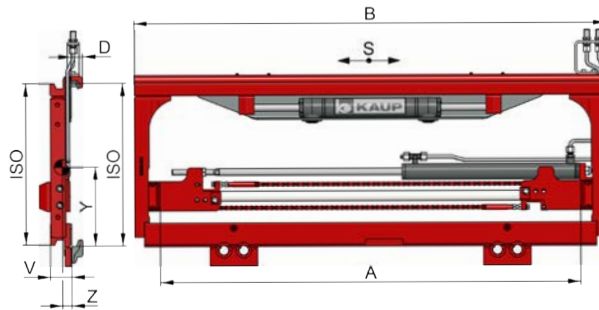
Available with high capacity for ISO class 4 machines up to 8,000 kg / 600 mm - Refer KAUP.



Fork Positioner T180ZA.2 - Load Guard Style - End Mount

Model	Capacity kg	LCD mm	B mm	A mm	C mm	suitable for fork widths ¹⁾ mm	H mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T180ZA.2	2,500	600	920	365-855	758	125	1,163	2	0	9	639	79
			1,020	340-950	758	100	1,163	2	0	9	655	83
			1,080	360-1,010	658	120	1,063	2	0	8	622	81
			1,080	340-1,010	658	100	1,063	2	0	8	623	81
			1,170	340-1,080	758	100	1,163	2	0	9	663	87
3T180ZA.2	4,600	600	960	365-895	672	125	1,172	3	0	9	681	80
			1,070	365-1,005	672	125	1,172	3	0	9	681	86
			1,150	390-1,080	672	150	1,172	3	0	9	681	86

Preferential range Fork hooks cannot be wider than the fork shank, Options - Sideshifting - add required T151
Fork length over 1,800 mm, please contact KAUP. 1) Optional with fork width; Optional with construction width / height .



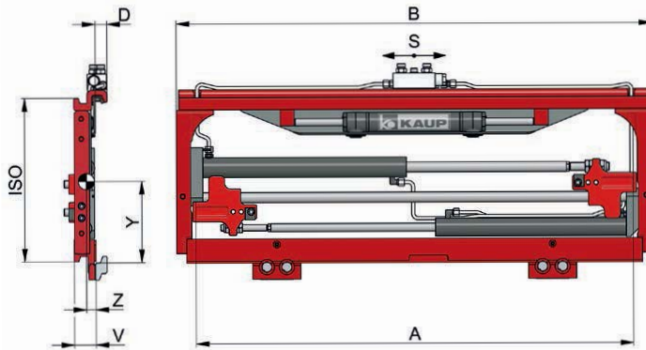
Fork Positioners T156BK

Model	Capacity kg	LCD mm	S mm	Opening range A mm	B mm	D mm	Suitable for fork width mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2.5T 156BK	2,500	600	±100	320-760	890	29.5	70-125	2	54	23	204	61
				350-790	920	29.5				23	204	62
				320-810	940	29.5				23	203	63
				310-850	980	29.5				23	203	65
				350-890	1,020	29.5				23	202	67
				320-910	1,040	29.5				23	202	68
				330-1,020	1,150	29.5				23	201	72
				320-1,060	1,190	29.5				23	200	74
3.5T 156BK	3,000	600	±100	370-910	1,040	38	100-150	3	65	25	282	92
				380-970	1,100	38				25	282	95
				380-1,020	1,150	38			64	26	276	97
				380-1,170	1,300	38				25	282	106
				380-1,220	1,350	38				25	282	108
4.5T 156BK	4,600	600	± 100	380-1,220	1,350	40	100-150	3	80	40	265	144

Preferential range

*3.5T156BK with capacity 3,500 kg / 500 mm available upon request.
 *4.5T156BK with capacity 5,000 kg / 500 mm available upon request.
 Maximum width: 2.5T = 1,200 mm, 3.5T = 1,350 mm, 4.5T = 1,400 mm
 Maximum recommended fork length 1,800 mm
 Available to connect hydraulic ports to inside of FLT mast.





Fork Positioner T156B

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	suitable for fork widths mm	ISO cl.	V mm	CofG Z mm	CofGv Y mm	Weight kg
2.5T 156 B	2,500	600	± 100	290-795	890	30	70-125	2	55	24	206	68
				320-825	920	30				24	205	69
				325-835	940	30				24	206	70
				290-885	980	30				24	204	72
				290-925	1,020	30				24	203	74
				310-945	1,040	30				24	203	75
				295-1,055	1,150	30				24	202	80
				335-1,095	1,190	30				24	202	82
3.5T 156B*	3,000	600	± 100	335-845	940	38	100-150	3	64	26	283	93
				380-945	1,040	38				26	282	99
				335-970	1,070	38				26	282	100
				340-975	1,100	38				26	282	102
				355-1,055	1,150	38				26	282	104
				350-1,150	1,245	38				26	282	111
				365-1,165	1,300	38				26	282	114
				350-1,250	1,345	38				26	282	117
4.5T 156B*	4,600	600	± 100	335-845	940	40	100-150	3	82	39	268	120
				335-1,095	1,190	40				39	268	139
				360-1,120	1,220	40				39	265	141
				355-1,255	1,350	40				40	265	151

Preferential range

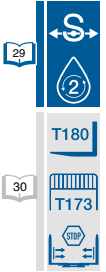
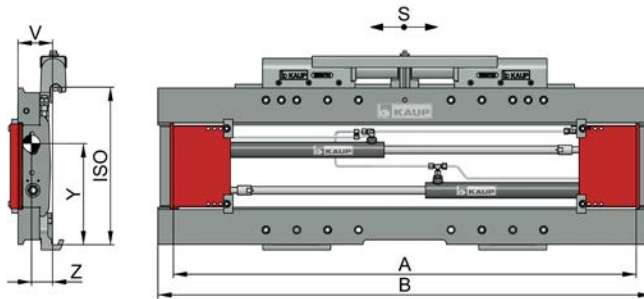
*3.5T156B with capacity 3,500 kg / 500 mm available upon request.

*4.5T156B with capacity 5,000 kg / 500 mm available upon request.

Maximum width: 2.5T=1,200 mm, 3.5T=1,350 mm, 4.5T=1,400 mm

Maximum recommended fork length 1,800 mm





Fork Positioner T163SN.2

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	2,500	600	± 100	350- 820	830	70-120	2	82	40	95
				350- 820	830	125-140		82	40	96
				310-1,030	1,040	70-120		82	42	107
				350-1,030	1,040	125-140		82	42	108
				430-1,150	1,160	70-120		82	43	113
				390-1,350	1,360	70-120		82	50	138
				390-1,490	1,500	70-120		92	51	147
				390-1,690	1,710	70-120		92	50	175
				500-2,120	2,130	70-120		92	52	213
4T 163 SN.2	3,330	600	± 100	390-1,030	1,040	90-160	3	82	40	163
				430-1,150	1,160	90-160		82	41	172
				390-1,350	1,360	90-160		82	42	187
				390-1,490	1,510	90-160		92	50	224
				390-1,690	1,710	90-160		92	51	242
4.5T 163 SN.2	4,160	600	± 100	430-1,150	1,160	90-160	3	92	47	192
				390-1,350	1,360	90-160		92	49	210
				390-1,790	1,810	90-160		112	63	323
				450-1,900	1,910	90-160		112	63	335
4.8T 163 SN.2	5,000	600	± 100	430-1,150	1,160	90-160	3	92	45	202
				390-1,350	1,360	90-160		92	50	223
5T 163 SN.2	5,000	600	± 100	470-1,190	1,200	150-200	4	102	57	263
				490-1,350	1,360	150-200		102	60	280
				500-1,500	1,510	150-200		102	60	298
				500-1,800	1,810	150-200		102	61	340
6T 163 SN.2	8,000	600	± 160	470-1,390	1,400	150-200	4	102	46	353
				470-1,470	1,510	150-200		102	50	361
				470-1,470	1,600	150-200		112	50	377
				500-1,680	1,690	150-200		102	50	393
				470-1,870	1,880	150-200		112	58	459
				530-1,980	2,000	150-200		112	59	467
8T 163 SN.2	8,000	600	± 160	500-2,120	2,130	150-200	4	132	71	590
				530-2,380	2,400	150-200		132	70	650

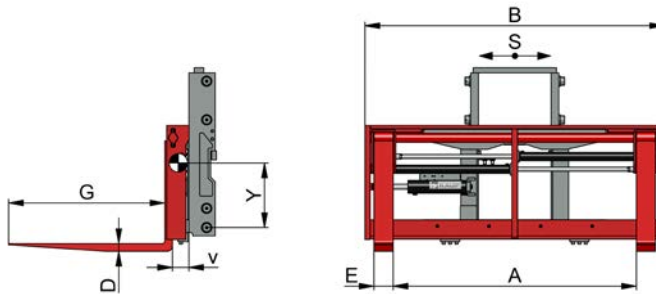
Preferential range

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 250 mm (recommended width).

Model T163N.2 - without sideshift.

Also available without fork carriers.



Fork Positioner T466IPZ

Model	Capacity kg	LCD mm	A mm	B mm	S mm	D mm	E mm	G mm	V mm	CofG Z mm	CofGv Y mm	Weight kg
8T 466IPZ	8,000	600	110-1,560	2,000	±125	65	150	1,200	128	113	560	760
			110-1,900	2,340	±125	65	150	1,200	128	110	561	890
			200-2,060	2,500	±125	65	150	1,200	128	106	562	1,025
10T 466IPZ	10,000	600	110-1,550	2,000	±125	70	180	1,200	132	189	492	1,380
			110-1,840	2,310	±125	70	180	1,200	132	192	495	1,450
			110-2,050	2,500	±125	70	180	1,200	132	195	502	1,510
12T 466IPZ	12,000	600	110-1,290	1,800	±150	70	180	1,200	132	221	868	1,270
			140-1,290	2,000	±150	70	180	1,200	132	215	1,410	872
			140-1,890	2,400	±150	70	180	1,200	132	204	890	1,620
16T 466IPZ	16,000	600	70-1,490	2,000	±150	75	200	1,200	195	405	512	1,840
			70-1,800	2,310	±150	75	200	1,200	95	410	520	1,935
			70-1,990	2,500	±150	75	200	1,200	195	425	525	1,992

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

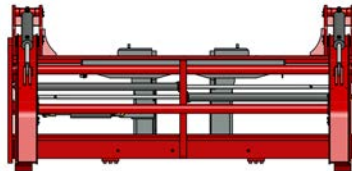
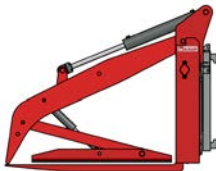
Fork carriage drawings, roller studs and chain anchors to be supplied by customer if necessary.

Model without sideshift available upon request. Also available for valveblock sideshift.

Variations dimensions/capacity available upon request.

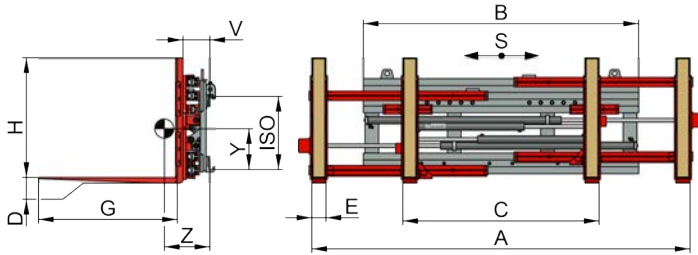
Available with different fork dimensions

Also available without cheek plates model : T466IPZ kit. Also available with valveblock sideshift



Pipe Stabilizer T466PZ-T129

Variations dimensions available upon request.

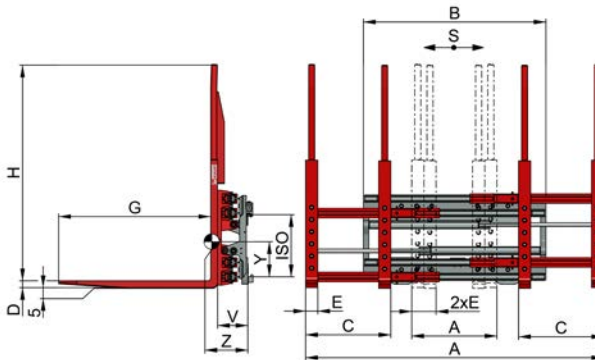


Plaster board handler T409 With bolt-on forks

For 1 pallet or 2 pallets side by side

Model	Capacity kg	LCD mm	S mm	A mm	B mm	C mm	D mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	Weight kg
3T 409	3,200	675	± 125	950-4,150	2,420	550-2,250	40	125	1,220	3	198	200	1,327
	3,700	675	± 100	950-3,750	2,000	650-1,440	50	150	1,215	3	218	246	1,125
	3,200	675	± 100	950-4,150	2,420	550-2,050	40	125	1,220	4	196	191	1,195
	3,700	675	± 100	1,850-4,150	2,000	550-1,800	50	125	1,220	4	188	204	1,197
5T 409	6,525	600	± 160	925-4,125	2,420	525-2,225	50	125	1,220	4	208	199	1,588

Fork shank install with changeable buffer.



Double Pallet Handler T429 With bolt-on forks

For 1 pallet or 2 pallets side by side

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	H mm	G ¹⁾ mm	ISO cl.	V mm	CofG Z mm	Weight kg
2T 429	2,200	600	± 100	670-2,020	1,040	40	80	1,400	1,150	2/3	200	254	477
	2,200	600	± 100	720-2,120	1,040	40	80	1,400	1,150	2/3	200	254	477
	2,500	600	± 100	670-2,020	1,040	45	80	1,400	1,150	2/3	200	254	499
	2,500	600	± 100	720-2,120	1,040	45	80	1,400	1,150	2/3	200	273	499
	2,500	600	± 100	560-1,960	1,200	45	80	1,400	1,150	2/3	200	266	512
	2,500	600	± 100	650-2,050	1,200	45	80	1,400	1,150	2/3	200	266	513
	2,500	600	± 100	700-2,100	1,200	45	80	1,400	1,150	2/3	200	269	510
3T 429	3,200	600	± 100	670-2,020	1,040	50	80	1,400	1,150	3	222	227	550
	3,200	600	± 100	720-2,120	1,040	50	80	1,400	1,150	3	222	227	550
	3,200	600	± 100	560-1,960	1,200	50	80	1,400	1,150	3	202	274	547
	3,200	600	± 100	650-2,050	1,200	50	80	1,400	1,150	3	202	273	548
	3,200	600	± 100	700-2,100	1,200	50	80	1,400	1,150	3	202	273	548

Preferential range

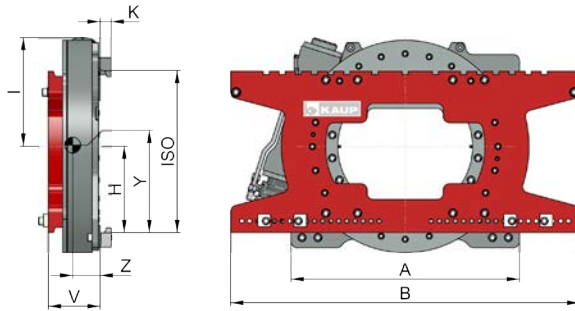
Measurement „C“ = alternatively 560 / 650 / 700 mm mechanically or hydraulically adjustable (solenoid valve required).

Measurement „H“ = standard height 1,400 mm, other lengths and forms upon request. Pallet retainer lip available upon request.

Double solenoid valve for additional individual adjustment for each pair of forks available upon request (add-on price)

¹⁾ Fork length optional 1,000 mm, 1,070 mm or 1,150 mm.

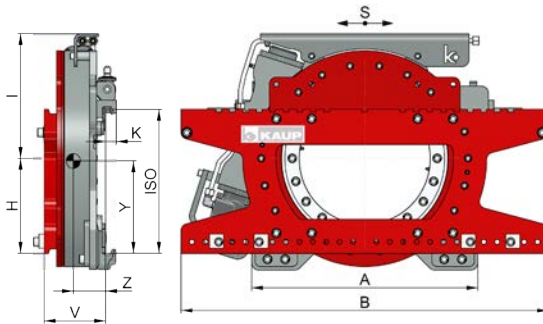
Also available with high speed version upon request (add-on price)



Rotator T351.4 - 360° endless

Model	Capacity kg	LCD mm	A mm	B mm	H mm	I mm	K mm	ISO cl.	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	V mm	Z mm	CofG Weight kg
2T 351.4	2,250	600	640	940	270	320	30	2	see table		153	76	235
				1,040	270	320	30	2	see table		153	77	241
2.5 T351.4	2,670	600	720	1,100	272	343	35	3	see table		163	86	313
3T 351.4	3,750	600	720	1,100	272	343	35	3	see table		172	91	337

Preferential range

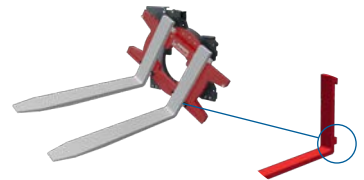


Rotator T391.4 - 360° endless

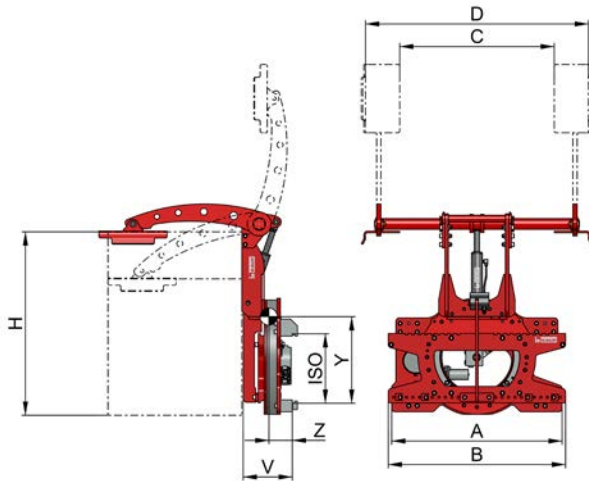
Model	Capacity kg	LCD mm	A mm	B mm	H mm	I mm	K mm	ISO cl.	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	V mm	Z mm	CofG Weight kg
2T 391.4	2,250	600	640	1,040	268	353	31	2	see table		173	91	264
2.5T 391.4	2,670	600	720	1,100	271	393	40	3	see table		184	99	343

Preferential range

Possible versions	ISO-class II			ISO-class III		
Fast speed „or“ high torque						
Md $\Delta p = 125$ bar [Nm]	3,900	6,240	7,800	4,250	6,800	8,500
Oil volume required per rev. [ltr.]	5.9	9.2	11.4	6.5	10.1	12.6
Max oil flow / short-term [lpm]	60 / 75			60 / 75		



Forks for KAUP Rotators - lower brackets strengthened



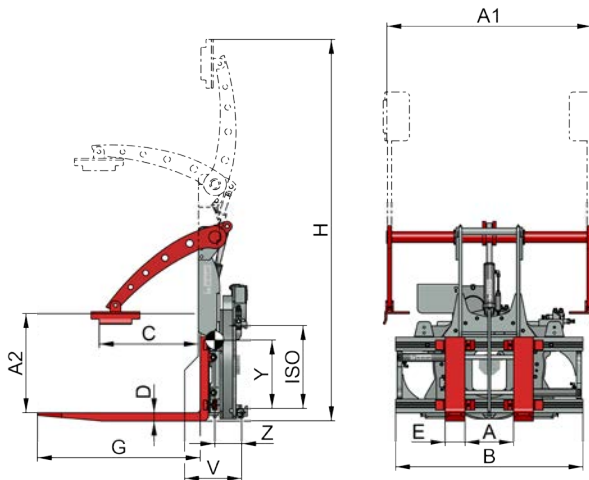
Rotator with hold down T351/T129

Model	Capacity kg	LCD mm	Capacity Hold Down kg/mm	A mm	B mm	C mm	D mm	H mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T351.2/T129	2,080	600	1,000/600	1,000	1,040	907	1,307	800-1,150	2	288	133	509	417

Dimension / capacity variation available upon request.

Forks for KAUP Rotators - lower brackets strengthened

When forks are used in combination with a Rotator extremely high strain is applied to the lower fork angle when rotating a load which in turn strains the lower brackets. For this type of operation KAUP recommends forks with strengthened lower brackets. Strengthened lower brackets can be ordered for all ISO forks. Please contact KAUP.



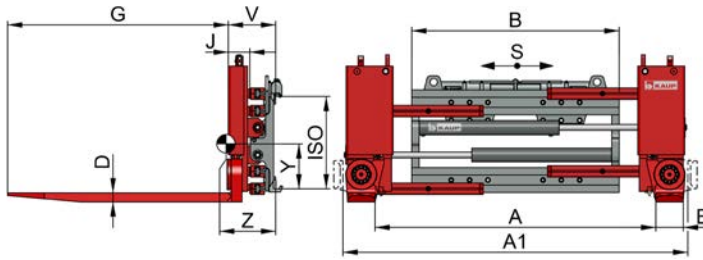
Rotating fork positioner with downhold T456B/T129S

With fork positioning

Model	Capacity kg	LCD mm	Capacity Hold Down kg/mm	A mm	A1 mm	A2 mm	B mm	C mm	D mm	E mm	H mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T456B/T129S	2,080	600	1,000/600	298-798	1,258	659-1,276	1,150	658	45	120	2,018	2	266	264/233	335/385	564

"G" Fork Length : 1,200 mm

Dimension variation available upon request.



Fork Clamp with Turnable Forks T411DH

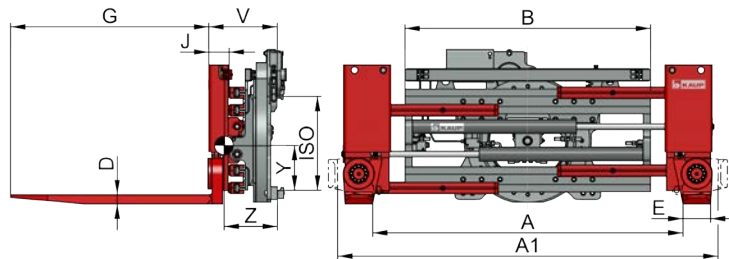
Hydraulically turnable forks

Model	Capacity of forks kg	Capacity as clamp kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	A1 mm	J mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
1.5T 411DH	1,660	1,040	600	± 100	110-1,110	970	40	120	1,200	400-1,400	110	2	243	240	220	415
					290-1,470	970	40	120	1,200	580-1,760	110	2	243	240	220	415
					300-1,650	1,130	40	120	1,200	590-1,940	110	2	243	238	213	426
2T 411DH	2,330	1,660	600	± 100	220-1,420	1,040	50	150	1,200	570-1,770	110	2/3	246	278	187	510
					230-1,530	1,130	50	150	1,200	580-1,880	110	2/3	246	270	242	569
					230-1,730	1,330	50	150	1,200	580-2,080	110	2/3	260	271	198	538
3T 411DH	3,000	2,080	600	± 100	185-1,485	1,130	60	200	1,500	615-1,915	125	3	271	393	165	728
					235-1,525	1,130	60	150	1,200	615-1,915	125	3	271	270	203	630
4.8T 411DH	4,500	2,900	600	± 100	270-1,670	1,330	70	150	1,200	670-2,070	145	3/4	324	256	252	906

Preferential range

Available with slip-on arms for the forks. Also available without sideshit, model T401DH.

Also available with hydraulic sequence valve for clamping and turnable forks, please contact KAUP.



Rotating Fork Clamp with Turnable Forks T451DH

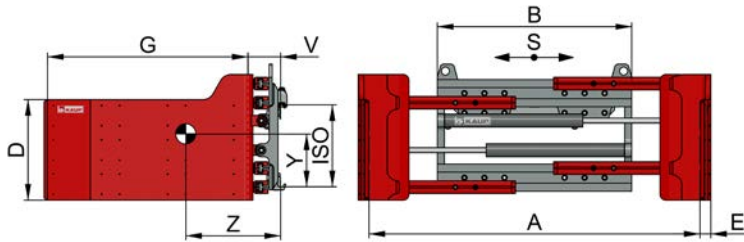
Rotation 360° continuous - Hydraulically turnable forks

Model	Capacity of forks kg	Capacity as clamp kg	LCD mm	A mm	B mm	D mm	E mm	A1 mm	G mm	J mm	Md ¹⁾ Nm	Vol ²⁾ ltr.	ISO cl.	V mm	CofG Z mm	Weight kg
1,5T 451DH	1,580	1,040	600	250-1,050	970	40	120	570-1,370	1,200	110	7,700	9,7	2	361	275	572
				260-1,660	1,200			580-1,980							271	600
2T 451 DH	1,910	1,660	600	230-1,530	1,130	50	150	610-1,910	1,200	110	7,700	9,7	2/3	378	289	681
				280-1,830	1,330			660-2,210							242	696
				280-1,830	1,330			660-2,210		105			3	378	309	712

Preferential range

¹⁾ Md: Torque Δ P = 125 bar. ²⁾ Oil volume required per rev. Also available with sideshift, model T491DH.

Also available with hydraulic sequence valve for clamping and turnable forks, please contact KAUP.



Multi Appliance Clamp T413CT

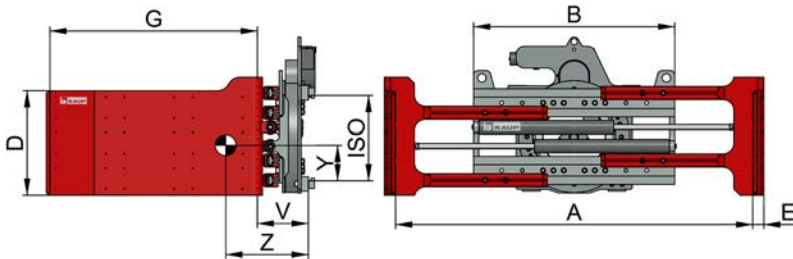
bolt-on rubber pad - both arms fixed

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
1T 413CT	700	500	± 100	490-1,670	970	300	37	800	2	158	240	290
						300	37	1,000	2	158	275	310
1.5T 413CT	1,250	500	± 100	490-1,670	970	500	37	1,000	2	158	340	450
						700	37	1,000	2	158	370	500
2T 413CT	2,000	500	± 100	580-1,880	1,040	600	42	1,000	2/3	173	370	566
				595-2,395	1,520	600	42	1,000	2/3	173	370	660

Preferential range

Variations in width, opening ranges available upon request.

Also available for valveblock sideshift.



Rotating Multi Appliance Clamp T453CT

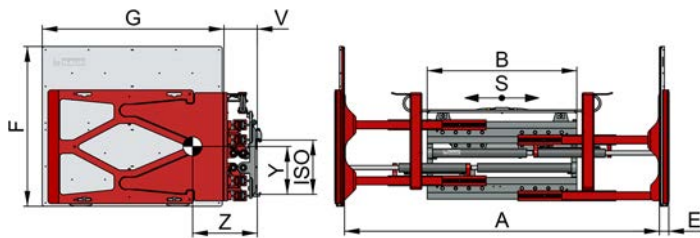
Rotation 360° continuous

Model	Capacity kg	LCD mm	A mm	B mm	D mm	E mm	G mm	Md ¹⁾ Nm	Vol ²⁾ litr.	ISO cl.	V mm	CofG Z mm	Weight kg
1.5 T 453CT	1,250	500	475-1,655	970	500	37	1,000	6,013	7.6	2	246	390	540
2 T 453CT	2,000	500	580-1,880	1,040	600	42	1,000	7,700	9.7	2/3	266	385	740

Preferential range

1) Md: Torque $\Delta P=125$ bar. 2) Oil volume required per rev. Also available with sideshift, model T493CT.

Variations in width, opening ranges and arm dimensions available upon request.

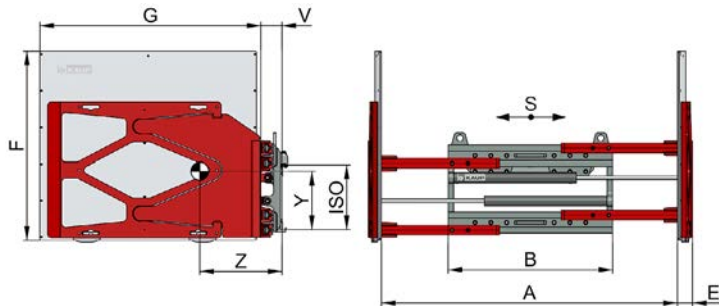


Telescopic Carton Clamp T414BGT-1 - rubber coated arms - both arms swivelling

Model	Capacity kg	LCD mm	S mm	A mm	B mm	F mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	Weight kg
2T 414 BGT-1	1,250	700	± 100	406-2,406	1,130	1,200	60	1,370	2	267	494	972
2T 414 BGT-1.1	1,250	700	± 100	406-2,406	1,130	1,200	60	1,370	2	267	516	1,020

Available without sideshift, model T404BGT-1

Available with bolted-on rubber pad, model T414BGT-1.1



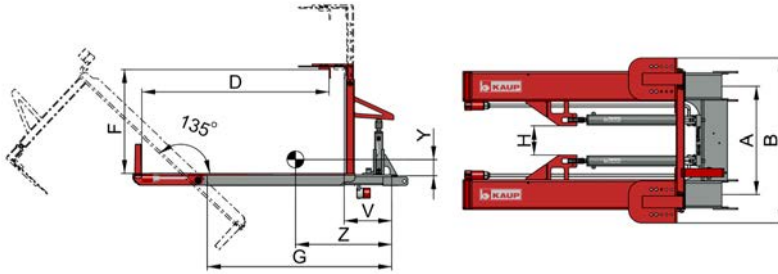
Carton Clamp T414B-1.1 - bolted-on rubber pad - both arms swivelling

Model	kg	Capacity mm	LCD mm	S mm	A mm	B mm	E mm	F mm	G mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
1,5T 414B-1.1	1,050	600	± 100	580-1,930	1,040	55	1,200	1,250	1,250	2	133	508	367	683
								1,200	1,430			568	371	735
1,5T 414B-1.1	1,050	600	± 100	560-1,960	1,080	55	1,200	1,250	1,250	2	133	506	367	686
								1,200	1,430			566	371	738
1,5T 414B-1.1	1,050	600	± 100	490-1,840	1,130	55	1,200	1,250	1,250	2	133	505	366	688
								1,200	1,430			564	370	740
1,5T 414B-1.1	1,050	600	± 100	560-2,180	1,330	55	1,200	1,250	1,250	2	133	496	364	702
								1,200	1,430			555	368	754
2T 414B-1.1	1,670	600	± 100	605-1,955	1,040	60	1,200	1,250	1,250	2/3	143	504	363	756
								1,200	1,430			577	369	833
2T 414B-1.1	1,670	600	± 100	580-1,980	1,080	60	1,200	1,250	1,250	2/3	143	502	379	760
								1,200	1,430			576	369	836
2T 414B-1.1	1,670	600	± 100	465-1,965	1,330	60	1,200	1,250	1,250	2/3	143	494	360	776
								1,200	1,430			566	367	851
2T 414B-1.1	1,670	600	± 100	575-2,375	1,520	60	1,200	1,250	1,250	2/3	143	474	356	814
								1,200	1,430			545	363	889

Preferential range

Also available without sideshift, model T404B-1.1

Available with valveblock sideshift version.

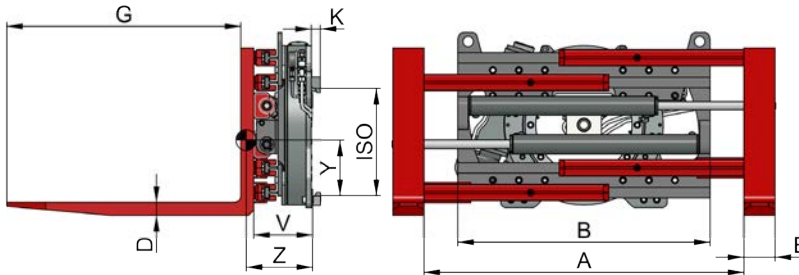


Forward Bin Tipper T106

Model	Position	Capacity kg/mm	D mm	F mm	A mm	B mm	G mm	H mm	V mm	CofG Z mm	CofG _v Y mm	Weight kg
1T 106	Not Tipped	1,000/600	1,204-1,114 ¹⁾	614-964 ²⁾	640	978	1,098	170	283	572 ³⁾	99 ⁴⁾	210

Bins require open fork pockets. Adjustable forward tipping speed. Twin Bin Tipper available on request. Fork size needs to be specified on order. Options - Special designs for non standard bin sizes.

- 1) Manually adjustable 3 x 30. 2) Manually adjustable 7 x 50.
3) Tipping 60° : 815 mm. 4) Tipping 60° : 260 mm



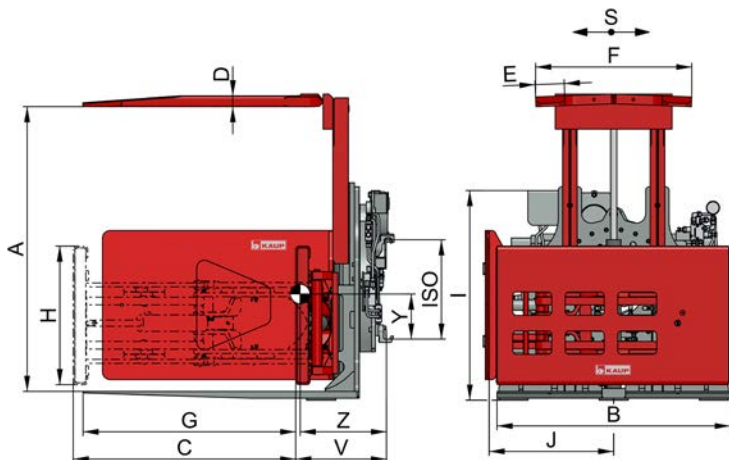
Rotating Fork Clamp T451.4 - 360° rotation continuous

Model	Capacity of forks kg	as clamp kg	LCD mm	A mm	B mm	D mm	E mm	G mm	K mm	Md ¹⁾ Nm	Vol ¹⁾ litr.	ISO cl.	V mm	CofG Z mm	Weight kg
2T 451.4	2,170	1,665	600	426-1,676	970	45	122	1,200	30	7,800	11.4	2	219	249	521
4T 451.4	3,000	2,400	600	490-1,840	1040	50	130	1,200	35	8,500	12.6	3	258	257	711

- 1) Available with different Torque and rotating speed.



29



Pallet Turnover Clamp with Sideshift T491WA - 360° rotation continuous

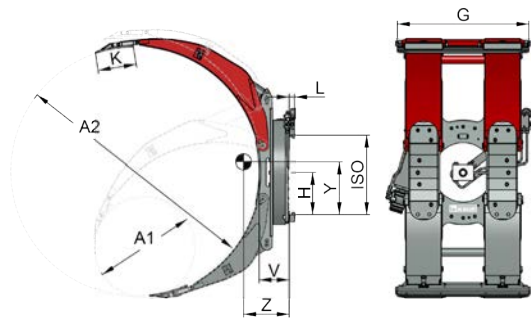
Model	Capacity on forks		A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	ISO cl.	S mm	CofG CofG _v			
	kg	mm													V mm	Z mm	Y mm	Weight kg
2T 491 WA	1,600	600	855-1,505	916	1,175	25	398	916	1,140	710	1,126	558-683	3	± 100	458	467	287	1,389
			810-1,460	1,200	1,150	50	150	800	1,100	710	1,127	640-765	3	± 100	458	445	265	1,436

Variations in width and fork length available upon request.

Tyre Handler T426SV

Variations dimensions available upon request.





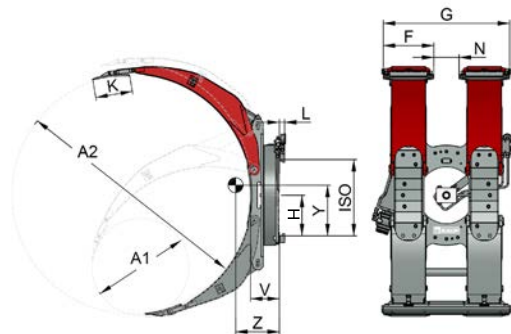
Rotating Roll Clamp T458BC.4

360° rotation continuous - short arm fixed - continuous contact pads on both arms

Model	Capacity kg	A1-A2 mm	G mm	K mm	L mm	H mm	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	ISO cl.	V mm	CofG Z mm	Weight kg
2T 458 BC.4	2,400	450-1,350	850	250	35*	272*	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	280	581
2T 458 BC.4	2,000	450-1,600	850	250	35*	272*	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	309	619
2T 458 BC.4	1,700	450-1,830	850	250	35*	272*	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	337	641
3T 458 BC.4	3,200	450-1,350	850	250	35	338	6,800 ¹⁾	10.1 ¹⁾	3	201	280	644
3T 458 BC.4	2,800	500-1,600	850	250	35	338	6,800 ¹⁾	10.1 ¹⁾	3	201	309	689
3T 458 BC.4	2,500	650-1,830	850	250	35	338	6,800 ¹⁾	10.1 ¹⁾	3	201	333	725

Preferential range * Technical details of attachments refer to ISO 3. Available with sideshift model T498BC.4, Capacity related to max. roll diameter. For taking up horizontal rolls, 5-degree mast forward tilt is required.

1) Available with different Torque and rotating speed, see page 11.



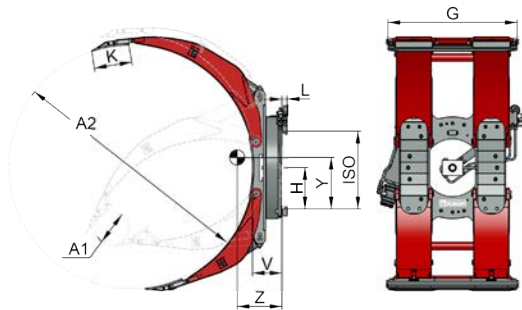
Rotating Roll Clamp T458BC-2.4

360° rotation continuous - short arm fixed - split contact pads on long pivoting arm

Model	Capacity kg	A1-A2 mm	F mm	G mm	K mm	L mm	H mm	N mm	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	ISO cl.	V mm	CofG Z mm	Weight kg
2T 458 BC-2.4	2,400	450-1,350	340	850	250	35*	271*	170	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	273	578
2T 458 BC-2.4	2,000	450-1,600	340	850	250	35*	271*	170	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	287	615
2T 458 BC-2.4	1,700	450-1,830	340	850	250	35*	272*	170	6,800 ¹⁾	10.1 ¹⁾	2/3*	190	337	638
3T 458 BC-2.4	3,200	450-1,350	340	850	250	35	272	170	6,800 ¹⁾	10.1 ¹⁾	3	200	280	640
3T 458 BC-2.4	2,800	500-1,600	340	850	250	35	272	170	6,800 ¹⁾	10.1 ¹⁾	3	200	309	685
3T 458 BC-2.4	2,500	650-1,830	340	850	250	35	272	170	6,800 ¹⁾	10.1 ¹⁾	3	200	333	721

Preferential range * Technical details of attachments refer to ISO 3. Available with sideshift model T498BC-2.4, Capacity related to max. roll diameter. For taking up horizontal rolls, 5-degree mast forward tilt is required.

1) Available with different Torque and rotating speed, see page 11.



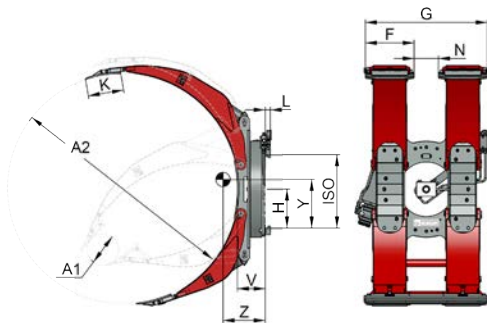
Rotating Roll Clamp T458B.4

360° rotation continuous - short arm adjustable in 45° position

Model	Capacity kg	A1-A2 mm	G mm	K mm	L mm	H mm	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	ISO cl.	V mm	CofG Z mm	Weight kg
2T 458B.4	2,400	200- 1,350	850	250	35*	272*	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	279	600
2T 458B.4	2,200	200- 1,450	850	250	35*	272*	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	292	607
2T 458B.4	2,000	200- 1,600	850	250	35*	272*	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	309	636
2T 458B.4	1,700	200- 1,830	850	250	35*	272*	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	337	658
3T 458B.4	3,200	200- 1,350	850	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	201	277	664
3T 458B.4	3,000	250- 1,450	1,000	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	201	296	696
3T 458B.4	2,800	220- 1,600	850	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	201	305	709
3T 458B.4	2,500	200- 1,830	850	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	201	329	748
3T 458B.4	2,300	420- 2,000	850	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	201	353	748
3T 458B.4	2,100	550- 2,200	850	250	35	338	6,800* ¹⁾	10.1* ¹⁾	3	197	370	788

Preferential range * Technical details of attachments refer to ISO 3. Available with sideshift model T498B.4. Capacity related to max. roll diameter. For taking up horizontal rolls, 5-degree mast forward tilt is required.

¹⁾ Available with different Torque and rotating speed, see page 11.



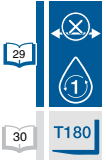
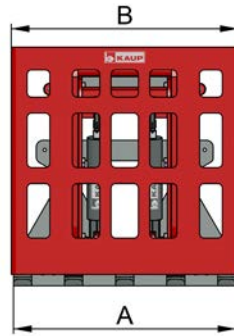
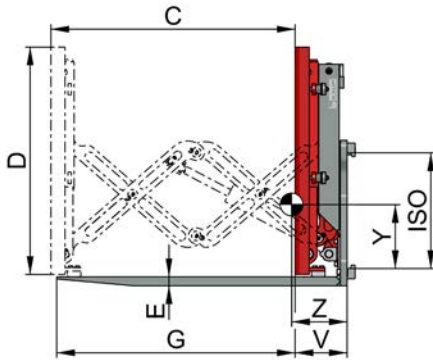
Rotating Roll Clamp T458B-2.4

360° rotation continuous - Short arm adjustable in 45° position - split contact pads on long pivoting arm

Model	Capacity kg	A1-A2 mm	F mm	G mm	K mm	L mm	H mm	N mm	Torque $\Delta p = 125$ bar Nm	Oil volume required per rev. ltr.	ISO cl.	V mm	CofG Z mm	Weight kg
2T 458B-2.4	2,400	200- 1,350	340	850	250	35*	272*	170	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	273	597
2T 458B-2.4	2,200	200- 1,450	340	850	250	35*	272*	170	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	292	604
2T 458B-2.4	2,000	200- 1,600	340	850	250	35*	271*	170	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	287	632
2T 458B-2.4	1,700	200- 1,830	340	850	250	35*	272*	170	6,800* ¹⁾	10.1* ¹⁾	2/3*	190	237	654
3T 458B-2.4	3,200	200- 1,350	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	277	660
3T 458B-2.4	3,000	250- 1,450	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	296	688
3T 458B-2.4	2,800	220- 1,600	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	305	705
3T 458B-2.4	2,500	200- 1,830	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	329	744
3T 458B-2.4	2,300	420- 2,000	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	353	744
3T 458B-2.4	2,100	550- 2,200	340	850	250	35	272	170	6,800* ¹⁾	10.1* ¹⁾	3	200	370	784

Preferential range * Technical details of attachments refer to ISO 3. Available with sideshift model T498B-2.4. Capacity related to max. roll diameter. For taking up horizontal rolls, 5-degree mast forward tilt is required.

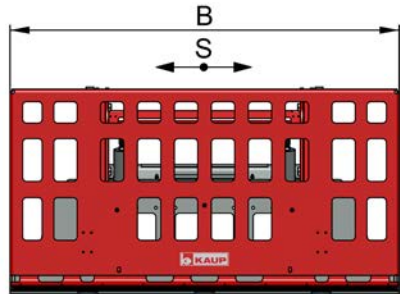
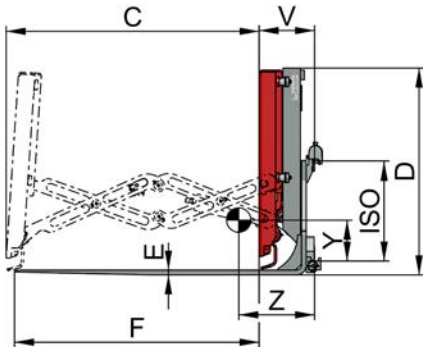
¹⁾ Available with different Torque and rotating speed, see page 11.



Pusher T141S/180

Model	Pushing ability kg	LCD mm	A mm	B mm	C mm	D mm	E mm	G mm	ISO cl.	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T141S/180*	1,620	600	750	1,000	1,300	1,000	50	1,300	2	260	370	240	590
3T141S/180*	2,250	600	980	1,000	1,076	1,000	40	1,050	3	229	244	281	522

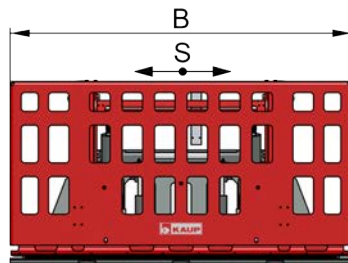
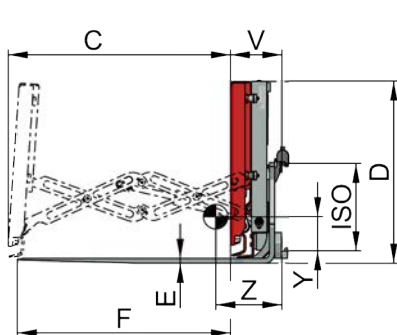
*Available with different quantity forks.
Side shifting available upon request.
Also available with round forks. Dimensions variation available upon request.



Push-Pull with sideshift T144S

Model	Capacity kg	LCD mm	B mm	C mm	D mm	E mm	F mm	S mm	ISO cl.	V mm	CofG Z mm	Weight kg
3T 144 S	2,600	600	2,000	1,300	1,060	25	1,250	± 100	3	280	389	1,077

Also available without sideshift T143S



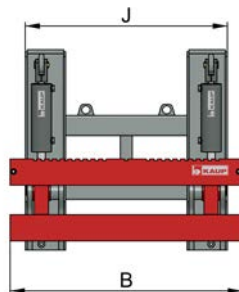
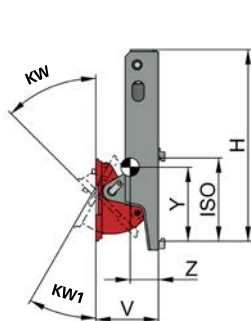
Push-Pull with sideshift and sheet saver T146S

with built-in solenoid valve with accessory kit

Model	Capacity kg	LCD mm	B mm	C mm	D mm	E mm	F mm	S mm	ISO cl.	V mm	CofG Z mm	Weight kg
3T 146 S	2,600	600	2,000	1,300	1,065	25	1,250	± 100	3	300	386	1,165

Lifting heights of more than 3,750 mm require a mast cable routing or an electric spring cable drum .

Also available without sideshift T145S



Hinged Forks T130

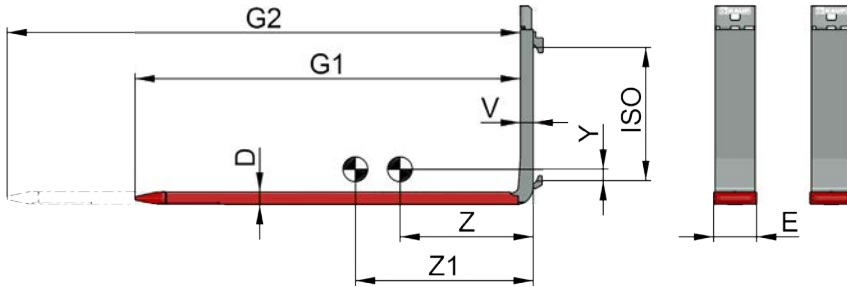
Model	Capacity kg	LCD mm	B mm	H mm	J mm	KW mm	KW1 mm	ISO cl.	V mm	CofG Z mm	Weight kg
2T 130	2,000	600	1,100	946	1,000	45°	30°	2	310	140	270
3T 130	2,400	600	1,100	945	1,000	45°	30°	3	370	176	315
4T 130	3,500	600	1,100	990	1,040	50°	35°	3	413	170	400
5T 130	4,600	600	1,100	1,090	1,050	45°	30°	4	400	167	535

Available with load backrests upon request.

Scrap Grapple T135

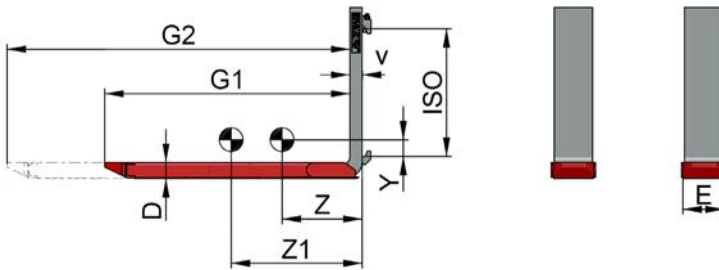
Dimension variation available upon request.





Telescopic Forks T180BT.52 with flow divider

Model	Capacity per pair kg	LCD mm	E mm	D mm	G1 mm	G2 mm	ISO cl.	V mm	CofG Z mm	CofG Z1 mm	Y mm	Weight kg
1T 180BT.52	1,600	600	134	41	1,200	2,000	2	40	417	558	36	134

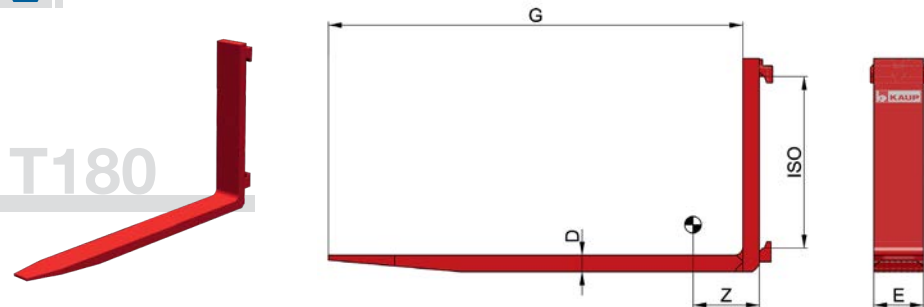


Manual Telescopic Forks T180TM

Model	Capacity per pair kg	LCD mm	E mm	D mm	G1 mm	G2 mm	ISO cl.	V mm	CofG Z mm	CofG Z1 mm	Y mm	Weight kg
2.5T 180TM	2,500	600	137	51	800	1,200	2A	40	264	333	58	120
2.5T 180TM	2,500	600	137	51	1,200	2,000	2A	40	444	589	38	159
3.5T 180TM	3,500	600	137	61	800	1,200	3A	50	252	308	96	156
4.8T 180TM	5,000	600	162	63	800	1200	3A	50	253	315	95	187



T180



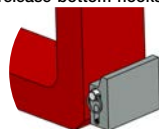
Hook-on Fork T180 - standard forks for ISO carriage

Model	Capacity per pair kg	LCD mm	E mm	D mm	G mm	ISO* cl.	CofG Z mm	Weight per piece kg	Add-on weight per 100 mm kg
2,5T180	2,500	500	100	40	1,070	2	336	46	3
					1,220		380	51	
					1,370		422	56	
					1,520		500	60	
					2,130		600	69	
2,5T180	2,500	600	122	40	1,070	2	336	56	4
					1,220		380	63	
					1,370		422	68	
					1,520		500	75	
					1,830		610	86	
3,5T180	3,500	600	122	45	1,070	3	327	66	4
					1,220		369	73	
					1,370		417	80	
					1,520		500	89	
					1,830		595	100	
4.3T180	4,300	600	122	50	1,070	3	322	74	6
					1,220		364	82	
					1,370		450	89	
					1,525		500	96	
					1,830		630	108	
					2,130		770	122	
					2,440		920	136	
5T180	5,000	600	150	50	1,070	3	322	90	6
					1,220		364	101	
					1,370		450	108	
					1,525		500	119	
					1,830		630	137	
					2,000		722	147	
					2,200		815	160	
					2,440		910	173	

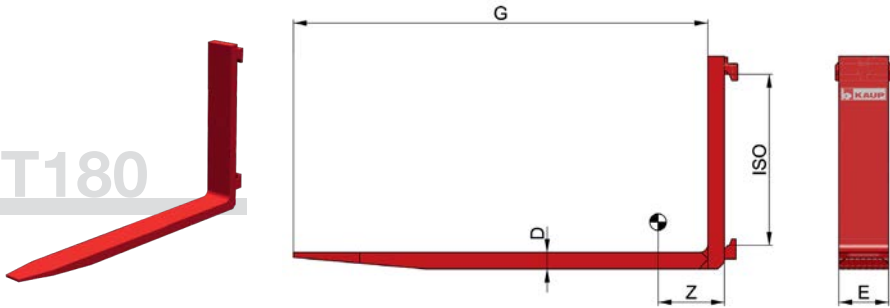
When forks are used in combination with a Rotator extremely high strain is applied to the lower fork angle when rotating a load which in turn strains the lower brackets. For this type of operation KAUP recommends forks with strengthened lower brackets.



Also available with quick release bottom hooks, please contact KAUP.



T180



Hook-on Fork T180 - standard forks for ISO carriage

Model	Capacity per pair kg	LCD mm	E mm	D mm	G mm	ISO cl.	CofG Z mm	Weight per piece kg	Add-on weight per 100 mm kg
5T180	5,000	600	150	50	1,220	4	340	109	6
					1,370		430	124	
					1,525		480	133	
					1,830		600	151	
					2,440		870	187	
7,5T180	7,500	600	150	60	1,220	4	327	133	7
					1,370		410	142	
					1,525		460	151	
					1,830		590	176	
					2,130		720	197	
9,8T180	9,800	600	150	65	1,220	4	330	142	8
					1,370		305	150	
					1,525		485	163	
					1,830		575	187	
					2,130		715	210	
					2,440		845	235	

Higher capacities and specific dimensions and special height of fork shank upon request.

Pin-Type Forks

KAUP offers nearly every type of Pin-Type forks (shaft guided forks). As the dimensions are not standardized, and as these are mounted on a wide variety of high capacity forklift trucks and construction machines, we require detailed information before quoting such forks.



Forks with quick release system 'Terminal West'

Model T180TW

For projects with KAUP special forks it is advisable to contact our specialists directly for a specific quotation.



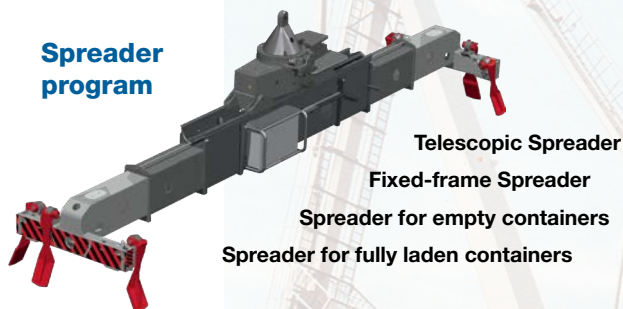
KAUP Container Spreaders

KAUP Crane Spreaders have been in operation world wide for more than 40 years. By using the KAUP Modular Build System KAUP Spreaders have a favourable relation of weight to carrying capacity and can be designed to meet individual requirements such as capacity, lifting speed and size of container to be picked up.

KAUP Spreaders operate at a maximum speed of 120 m/min and can pick up weights of up to 60 tons. An excellent view of the container corner castings enables the crane operator to position quickly and exactly guaranteeing a maximum turnover rate.



Spreader program



Telescopic Spreader

Fixed-frame Spreader

Spreader for empty containers

Spreader for fully laden containers

For operation on

- gantry container bridges
- portal cranes
- reach stackers
- luffing cranes
- mobile harbour cranes
- ship to shore cranes
- straddle carriers

Technical options available

- telescopic range from 20' to 24' - 30' - 35' - 40' - 43' - 45' - 48'
- width adjustment to compensate difference between ISO and Sealand containers
- level compensation from 600 mm to 1.200 mm
- flippers: 4 or 6 as required
- slewing gear 270° or 360° endless
- trim and list control
- Piggy Back arms
- emergency lifting hooks 4 x 10.000 kg on central frame
4 x 10.000 kg on crosshead
- tropical or sea water resistant versions available

Project planning:

In order to draw up an exact quotation for a container or forklift truck spreader to meet your requirements we require detailed information regarding type, mounting, load weight, details regarding containers to be transported etc.

Contact us! We analyse your material handling needs.

Residual capacity calculation for forklift trucks with attachments

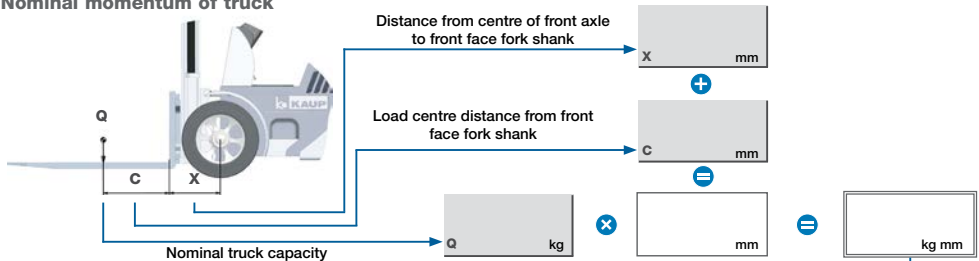
Please consider that a calculation according to this form will only show you an estimated residual capacity. Various factors influencing the residual capacity, such as extreme lift heights or load centre distances are not considered in this calculation. Please contact your forklift truck supplier for exact values. The nominal capacity of the attachment may not be exceeded. An online calculation can be found on our website www.KAUP.de

Forklift truck	Brand:	KAUP attachment	Model:
Model:		Capacity:	[kg]
Nominal capacity Q:	[kg]	Load centre:	[mm]
Load centre distance C:	[mm]	Lost load $V^*)$:	[mm]
Thickness of fork shank S:	[mm]	Centre of gravity CofG:	[mm]
Measurement X:	[mm]	Weight G:	[kg]

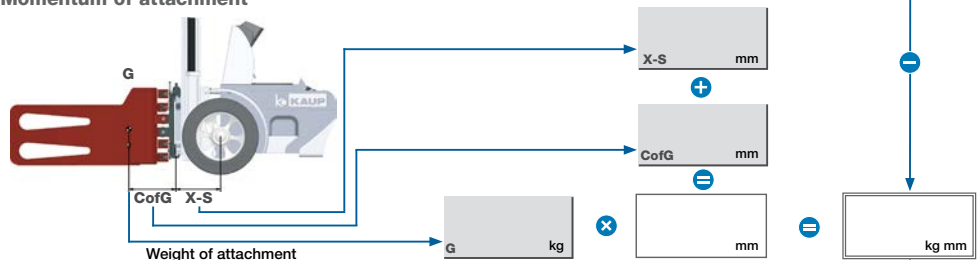
^{*)} Please consider additionally measurement „V“ acc. to our indexes the thickness of the shank of clamping arms or forks.

Calculation scheme

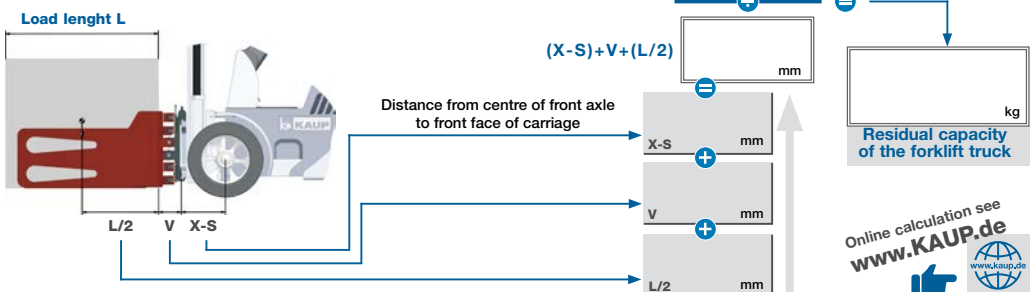
Nominal momentum of truck



Momentum of attachment



Residual capacity of the forklift truck



Online calculation see
www.KAUP.de




Height Adjustable Fork Carriage
T013H



Fork Positioner
T180ZA



Pipe Stabilizer
T466IPZ / T129



**Fork Positioner With Load Stabilizer
And Telescopic Forks**
T129 / 163 / 180BT



Multi Pallet Handler
T409



Rotator
T351



Rotator With DownHold
T351 / T129



Rotator With DownHold
T391 / T167



Ladle Tipper
T360



Fork Clamp With Turnable Forks
T411DH



Tipping Appliance Clamp
T414B-1-T130



Carton Clamp
T414B-1



Drum Clamp
T405



Drum Tipping Clamp
T406-2H



Tipping Roll Clamp
T418P / 130



Rotating Fork Positioner
T456IZA



Tyre Handler
T426SV



Pallet Turnover Clamp With Pusher
T491WA



Pusher
T141S



Pusher
T141S



Pusher
T141



Load Stabilizer
T129



Crane Jib
T183CTH



Container Spreader
T191KND20-40



What do the blue icons indicate?

1. Main function of the KAUP attachment - 2. Several special attachment versions - 3. The number of load units multi pallet handlers can handle. Additional information can be found on other pages. Take note of the relevant page listed next to the respective icon.



Sideshift function



Attachment has **separate sideshift** serially. The maximum allowable sideshift stroke (e.g. ± 100 mm) is always available independent of fork or arm position (with clamps or fork positioners).



Attachment has **valveblock sideshift** serially (integrated sideshift). Its design means that sideshift stroke is not available when the forks or arms are completely opened and/or completely closed.



Attachment is serially designed **without sideshift**. It can be fitted with separate or valve block sideshift upon request.

Hydraulic functions



Attachment is operated hydraulically, i.e. supplied with oil from the forklift truck's hydraulic system. Truck requires **one** additional hydraulic function.



Attachment is operated hydraulically, i.e. supplied with oil from the forklift truck's hydraulic system. Truck requires **two** additional hydraulic functions.



Attachment requires **more than two** additional hydraulic functions in order to operate. In this case one of the hydraulic circuits is split by use of a solenoid valve which is part of the attachment.

Special versions



Attachment is serially manufactured in foundry version. It is designed for operation in applications with extremely high temperatures.



Attachment is serially manufactured for the fishing industry and is available in two versions T351.1S and T351.1.3S.



Attachment serially modified for tough operation. For this purpose individual components are protected from mechanical damage.

Rotating function



Attachment rotates hydraulically by **360°** endless in both directions.



Attachment rotates hydraulically by **180°** in both directions.



Attachment rotates hydraulically as level compensation by **$\pm 20^\circ$** in both directions.

Tilting function



Attachment has a hydraulic **180°** tilt function.



Attachment has a hydraulic **90°** tilt function.



Attachment has a hydraulic **60°** tilt function.

Multi Pallet Handling



For 1 or 2 pallets next to each other.



T429C: 1 or 2 pallets next to each other. T429-4: 2 pallets or 4 pallets in front of and next to each other.



For 1, 2 or 3 pallets next to each other.



For 4 or 6 pallets by pallet pick-up lengthwise 800 x 1200 mm.



For 2 or 4 pallets next to each other or e.g. 4 or 8 pallets in front of and next to each other.



For double deep loading and unloading of 1 or 2 pallets or e.g. of 1, 2 or 3 pallets.



What do the grey icons indicate?

1. Options for additional accessories - 2. Options for all available special attachment versions - 3. important information regarding KAUP attachments. Additional information can be found on other pages. Take note of the relevant page listed next to the respective icon.



Accessories, options and important information

Load backrests



Attachment can be fitted with load backrest model T173.



Attachment can be fitted with load backrest model T179.



Attachment can be fitted with load backrest model T479. The load backrest model T479.1 is suitable for fork positioners T160B and T466B up to 4.8T.

Important information



Attachment supplied serially without forks. All forks in accordance with ISO 2328 can be used. Matching forks model T180 are available.



Attachment is specially designed for the function fork positioning and is not suitable for clamping between the forks.



Attachment is designed with toe-in on the tips which should be taken into account when choosing the opening range.



Please note the additional information below the data table.

Contact pad coatings and sensor technology



Attachment can be fitted with different types of contact pad surfaces specifically suited to the application.



Attachment is available with automatic pressure adjustment. The system independently identifies differing load patterns and automatically sets the required clamping pressure.



Attachment is available with Smart Load Control (SLC), an autonomous system for controlling the clamp force. The required pressures are always adjusted autonomously depending on the load.

Special versions



Attachment is available for operation in explosion hazardous areas.



The attachment is available in a version for heavy duty applications. Therefore individual components are protected against mechanical damage.



Attachment is available restricted to 180° rotation.



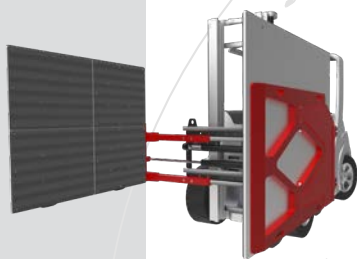


Helping hands for your Forklift truck



T163SN.2

Forklift Truck Attachments Stationary Handling Equipment Container Spreaders



T414B-1.1



T491WA



KAUP attachments correspond to the requirements of the valid EC regulations regarding quality, safety and technical documentation. All technical data are subject to alteration. KAUP is certified acc. to DIN EN ISO 9001



Helping hands for your Forklift truck

KAUP GmbH & Co. KG
Braunstrasse 17 · D-63741 Aschaffenburg
Phone: +49 [0] 60 21-8 65-0
Telefax: +49 [0] 60 21-8 65-213
E-Mail: zentrale@kaup.de · www.kaup.de

KAUP-East (Xiamen)

FLT Attachments Co. Ltd

No. 318, Yang Guang Xi Road · Haicang
PRC-361028 Xiamen, Fujian · P.R. China
☎ +86 592 6191 618 · ☎ +86 592 6191 699
✉ jianjin.chen@kaup.com.cn · ☎ www.kaup.com.cn

KAUP AUSTRALIA Pty Ltd.

5-11 Helium Street, Narangba
Queensland 4504, Australia
☎ +61 7 3888 1277 · ☎ +61 7 3888 3838
✉ sales@kaup.com.au · ☎ www.kaup.com.au