



Helping hands for your Forklift truck

Bale Clamp · Pulp Bale Clamp T413

Recycling Bale Clamp T413RC

Foam Rubber Clamp T413R



T413 · T413RC · T413R

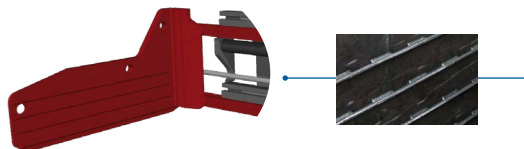
KAUP has a whole variety of clamps available for in-plant handling of non-palletized loads. **Bale Clamps** are designed primarily to handle bales of paper, waste paper, tobacco or fabric as well as crates and containers. Specially designed clamping arms are used for transporting pulp, polystyrene, cotton and big-bags. Clamps for handling bales at waste paper recycling plants are usually fitted with arms 2 metres in length, reinforced at the joint on the clamp profiles. These clamps have no difficulty loading and unloading trucks or rail waggons from the side.

Based on the KAUP modular built system, all Bale Clamps can be combined with the relevant rotator so that, if this operation is required, the clamped load can also be rotated.

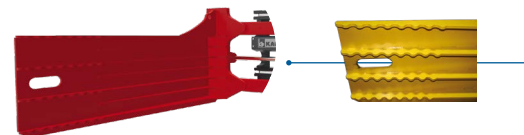
Appliance Clamps and Large Surface Clamps are a special form of KAUP High Visibility Bale Clamps. Information on these attachments can be found in a separate brochure.

Clamp arms

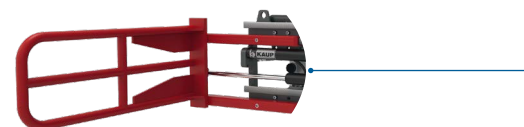
The solid and very thin arm design guarantees quick and precise handling of the load with optimal relationship between dead weight and the strength and stability of the clamp arms. Clamping arms of all KAUP Bale Clamps are fitted with a wear and tear bar on the bottom of their arms as standard. Form and character of the arms are designed exactly to suit the operation required. The inner sides of the arms are fitted with steel rods, toothed bars or corrugated bars to achieve optimal friction.



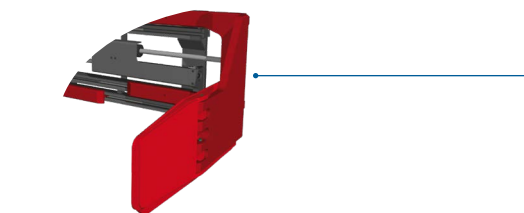
T413B - Clamp arms with welded-on steel rods for handling e.g. bales of textiles or paper.



T413RC - Arm design with corrugated / toothed bars for handling waste paper bales.



T413R - Tube version for handling bales of foam rubber or bales of styrofoam.



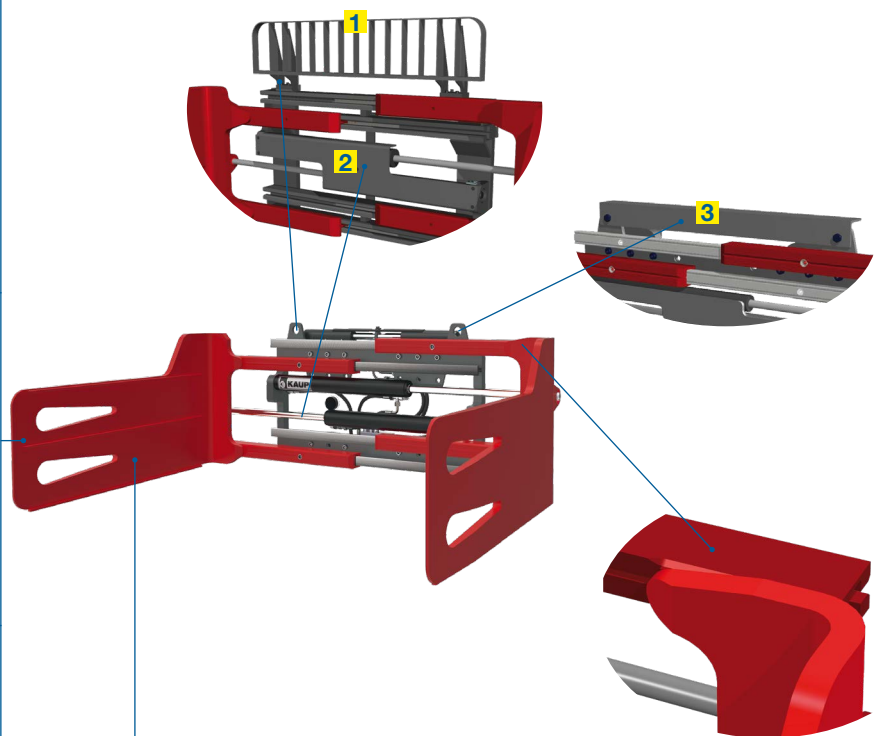
T413B-1 - Version with swivelling left arm for picking up bales with different dimensions and to adjust to different loads.

Versatile

KAUP Clamps are not only mounted on forklift trucks; they can also be mounted on wheel loaders and telescopic loaders. The relevant adaptor or quick release system can be supplied.

Heavy Duty

KAUP Clamps can be individually fitted or modified for the most demanding tasks. A Load Backrest (1), cylinder protection (2), cylinder and piston rod protection or sideshift cylinder protection, respectively hose protection (3), depending on the application of the clamp can be fitted to all models in order to reduce damages and to maximise the availability of the attachment.



Arm design

KAUP Standard Bale Clamp arms are designed for tough applications and welded directly to the guide profiles.

Clamp arm coatings

In order to transport contact-sensitive goods and/or to improve friction between arms and load the clamp arms can be covered with corrugated sheet metal, gripping nap strap, Polyurethane, Secutex or moss foam rubber.



KAUP high quality Bale Clamps · The advantages at a glance

Quick & Easy

Installation on the forklift truck

Version with independent sideshift: the guide rail for the sideshifter housings locates on the upper bar of the fork carriage and locks into the centre notch. The complete attachment is mounted onto this guide rail and secured by bolting the bottom mounting brackets (1) to the carriage. These are needle bearing guided bottom brackets (SMOOTHROLL) (2); attachments with capacities above 3,5 t feature tandem rollers (3). Once the hydraulic hose lines from the attachment to the truck are connected the attachment is ready for operation.

If required, KAUP quick release brackets (4) can be supplied. These allow the clamp to be mounted/dismounted quickly without any tool.

Excellent

High visibility

KAUP Clamps set high standards with regards to visibility. Optimized design ensures excellent visibility for the driver and allows quick and precise operation of the clamp guaranteeing high working performance and reducing accident risk significantly.

Simple

Handling with KAUP Clamps

KAUP Clamps are generally supplied with sideshift function which simplifies operation for the truck driver.

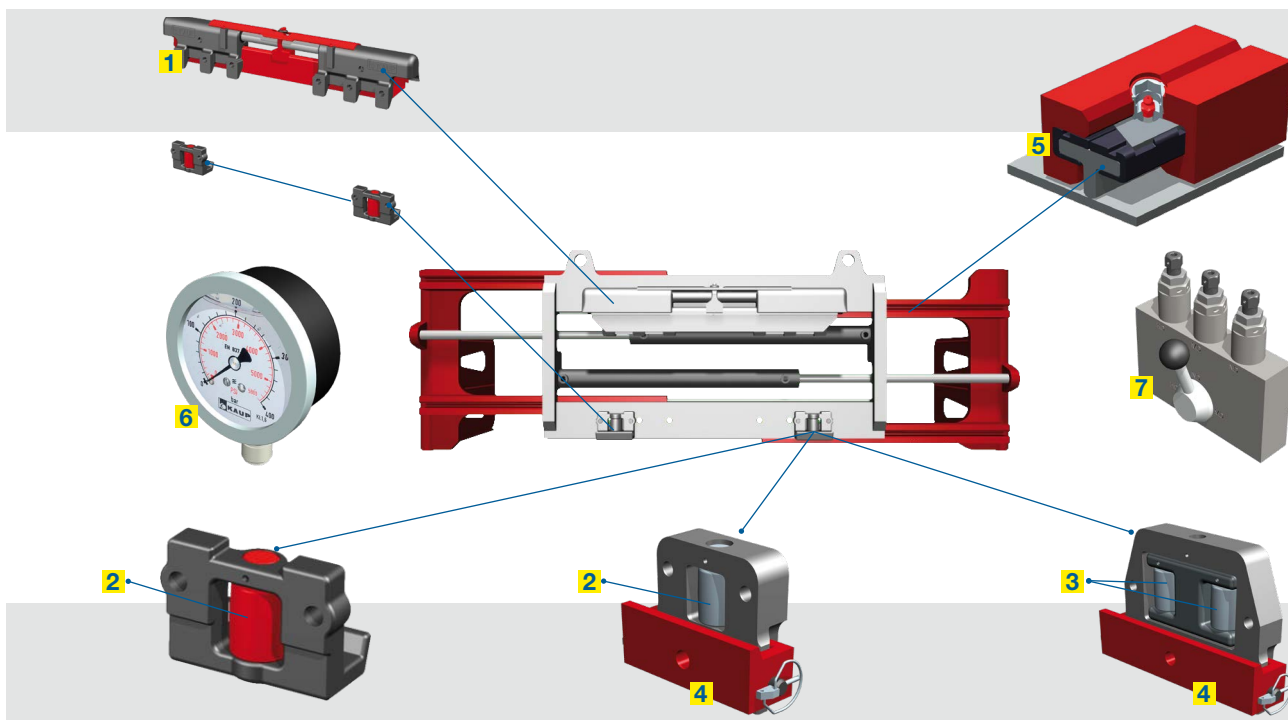
Especially independent sideshift system (1-4) permits side-shifting without restriction under safety regulations and allows utilization of the entire opening range for shifting loads sideways. All sideshift housings feature (SOFTSTOP), end-of-stroke-slow-down.

If required all KAUP Clamps can be fitted with valve block sideshift system which uses the residual stroke of the clamp cylinders to achieve lateral arm movement.

Strong

The KAUP Clamp profile (5)

A combination of T and C profiles is used on KAUP Clamps characterised by favourable weight with very compact dimensions providing high stability. An extremely robust sliding profile to improve gliding and to reduce wear and tear is found between the profiles.



Reliable

Top speed service

KAUP Clamps are synonymous to trouble free operation. As the components used have been proven thousands of times, servicing is simple and can be carried out without requiring any special skills. In conjunction with the KAUP modular built system the availability of replacements parts at reasonable prices is second to none. Approximately 95 percent of all wear and tear parts can be shipped ex stock within a maximum of 24 hours. Our efficient service network assures qualified service on short call-out to ensure that your attachment is back in operation within a short time.

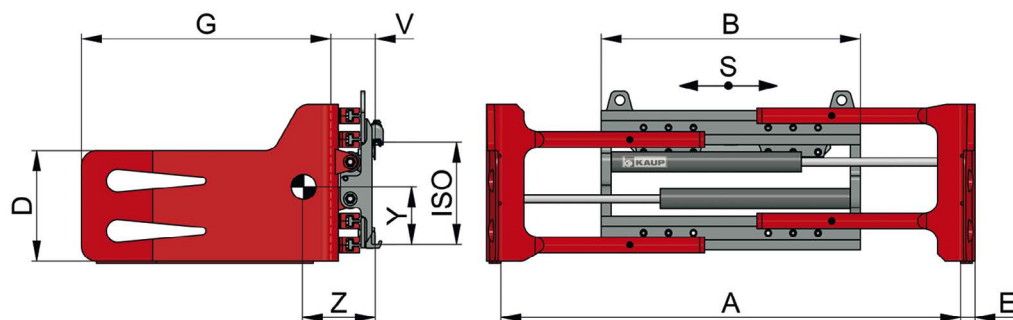
We also carry out complex repairs and maintenance work at our factory service centre. Annually approximately 800 attachments are repaired, maintained or generally refurbished at our service centre in Aschaffenburg.

Flexible

A large range of accessories

Pressure reduction valve and manometer gauge: KAUP Clamps are fitted for the function "open clamp" with a pre-set pressure reduction valve to prevent damage on the clamp arms by lateral pushing of the loads with arm outsides. In order to regulate the closing force when handling pressure sensitive loads a pressure reduction valve is fitted generally. If required three different force levels can be pre-set and controlled, either manually (7) or by solenoid valve. A manometer gauge (6) mounted in good view of the driver provides a ready check on the hydraulic operation pressure of the clamp.

Load backrest: KAUP Clamps feature mounting lugs as standard enabling a backrest to be fitted conveniently without drilling or any other modifications. Parts required for mounting, such as spacers and screws, are included in KAUP's supply.



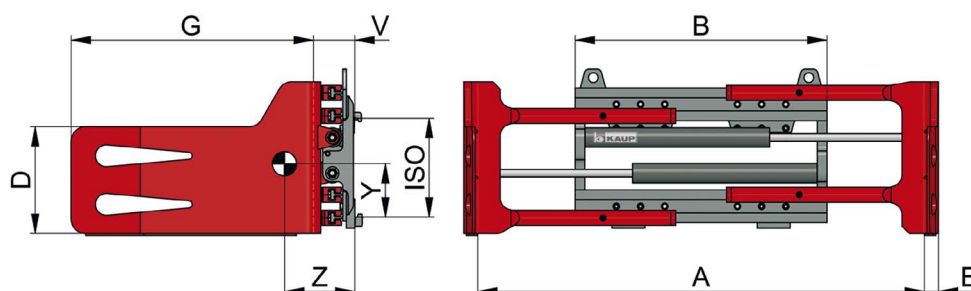
Bale Clamp, Pulp Bale Clamp T413

with independent sideshift · 2 hydraulic functions

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	ISO class	V mm	CofG Z mm	CofG _v Y mm	Weight kg
1,5T 413	1.400	500	± 100	495-1.675	970	440	37	800	2	163	227	236	354
								1.000			289	228	390
								1.200			359	227	436
1,5T 413	1.400	500	± 100	425-1.605	1.040	440	37	800	2	163	227	235	358
								1.000			289	227	394
								1.200			358	226	440
1,5T 413	1.400	500	± 100	495-1.745	1.040	440	37	800	2	163	226	235	359
								1.000			288	227	395
								1.200			358	226	441
1,5T 413	1.400	500	± 100	480-1.880	1.200	440	37	800	2	163	222	235	377
								1.000			283	227	413
								1.200			351	226	459
2T 413	2.100	500	± 100	575-1.875	1.040	440	42	1.000	2/3	178	292	228	462
								1.200			363	228	520
2T 413	2.100	500	± 100	485-1.785	1.130	440	42	1.000	2/3	178	290	228	467
								1.200			360	228	525
2T 413	2.100	500	± 100	485-1.985	1.330	440	42	1.000	2/3	178	283	229	482
								1.200			352	229	540
2T 413	2.100	500	± 100	595-2.395	1.520	440	42	1.000	2/3	178	267	231	520
								1.200			333	231	578
3T 413	2.500	500	± 100	575-1.975	1.130	470	47	1.000	2/3	182	271	248	582
								1.200			336	241	636
								1.600			469	233	728
3T 413	2.500	500	± 100	605-2.235	1.330	470	47	1.000	2/3	182	265	248	602
								1.200			328	241	655
								1.600			460	234	746
3T 413	2.500	500	± 100	645-2.445	1.460	470	47	1.000	2/3	182	257	249	631
								1.200			318	242	685
								1.600			446	235	775
4T 413	3.000	500	± 100	575-1.975	1.130	470	47	1.200	3	192	325	283	709
								1.400			392	277	773
								1.600			449	271	802
4T 413	3.000	500	± 100	475-1.975	1.330	470	47	1.200	3	192	319	283	728
								1.400			385	278	792
								1.600			441	272	820
4T 413	3.000	500	± 100	605-2.235	1.330	470	47	1.200	3	192	318	283	731
								1.400			384	278	795
								1.600			440	272	822
4T 413	3.000	500	± 100	635-2.435	1.460	470	47	1.200	3	192	311	285	756
								1.400			375	279	820
								1.600			430	273	847

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	ISO class	V mm	CofG Z mm	CofG _v Y mm	Weight kg
4,5T 413	3.200	600	± 100	595-1.995	1.200	470	52	1.200	3	223	325	242	829
	2.740	700						1.400			389	237	890
	2.400	800						1.600			444	236	946
4,5T 413	3.200	600	± 100	465-1.865	1.330	470	52	1.200	3	223	321	241	841
	2.740	700						1.400			385	236	902
	2.400	800						1.600			440	235	958
4,5T 413	3.200	600	± 100	695-2.325	1.330	470	52	1.200	3	223	313	242	878
	2.740	700						1.400			375	237	940
	2.400	800						1.600			428	236	995
4,5T 413	3.200	600	± 100	565-2.195	1.460	470	52	1.200	3	223	316	241	861
	2.740	700						1.400			379	236	922
	2.400	800						1.600			433	235	978
4,5T 413	3.200	600	± 100	765-2.595	1.460	470	52	1.200	3	223	309	242	897
	2.740	700						1.400			370	237	958
	2.400	800						1.600			422	236	1.014
4,8T 413	2.630	800	± 100	695-2.325	1.330	470	52	1.600	3	213	424	276	1.013
	2.330	900						1.800			493	274	1.092
4,8T 413	2.630	800	± 100	565-2.195	1.460	470	52	1.600	3	213	428	276	996
	2.330	900						1.800			499	273	1.075
5T 413	3.300	700	± 160	545-2.175	1.550	470	52	1.400	4	213	349	296	1.046
	2.900	800						1.600			402	293	1.115
5T 413	3.300	700	± 160	545-2.445	1.820	470	52	1.400	4	213	341	297	1.081
	2.900	800						1.600			392	294	1.150

Also available without sideshift, model T403. Model 1,5T413 - 5T413 also available with valveblock sideshift system. Load backrest model T479. Bale Clamps with higher capacities and variations in width and opening ranges available upon request.

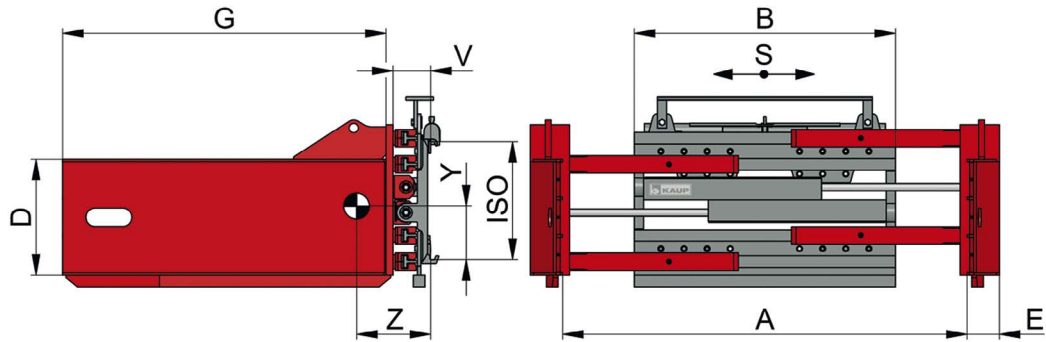


Bale Clamp, Pulp Bale Clamp T413

with **valveblock sideshift** dependent on opening range · 2 hydraulic functions

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 _v Y mm	Weight kg
5,5T 413B	3.300	800	625-2.525	1.740	470	47	1.600	± 475	4	249	370	291	1.320
	2.200	1.000	625-2.525				1.800				420	281	1.360
6T 413B	4.000	800	685-2.585	1.740	470	57	1.600	± 475	4	259	399	284	1.453
	3.300	1.000	685-2.585				1.800				464	281	1.545
6T 413B	4.000	800	565-2.465	1.860	470	57	1.600	± 475	4	259	394	285	1.474
	3.300	1.000	565-2.465				1.800				459	282	1.566
6T 413B	4.000	800	595-2.695	2.030	470	57	1.600	± 525	4	259	387	286	1.511
	3.300	1.000	595-2.695				1.800				451	284	1.602
6,5T 413B	6.000	800	685-2.585	1.740	470	57	1.600	± 475	4	269	392	286	1.510
	4.000	1.000	685-2.585				1.800				458	282	1.561
6,5T 413B	6.000	800	565-2.465	1.860	470	57	1.600	± 475	4	269	388	286	1.531
	4.000	1.000	565-2.465				1.800				453	282	1.582
6,5T 413B	6.000	800	595-2.695	2.030	470	57	1.600	± 525	4	269	380	288	1.571
	4.000	1.000	595-2.695				1.800				445	284	1.619
6,5T 413B	6.000	800	725-3.125	2.200	470	57	1.600	± 600	4	269	373	290	1.616
	4.000	1.000	725-3.125				1.800				437	285	1.659
8T 413B	6.500	1.000	700-3.100	2.200	560	82	1.700	± 600	4	340	481	337	2.858
	6.500	1.000	700-3.100				2.000				577	329	3.043

Also available without sideshift, model T403. Also available with 1 arm oscillating, model T413B-1. Bale Clamps with higher capacities and variations in width and opening ranges available upon request. Special version for Big Bags, based on the KAUP Bale Clamp, are also available. Load backrest model T479.



Recycling Bale Clamp T413RC

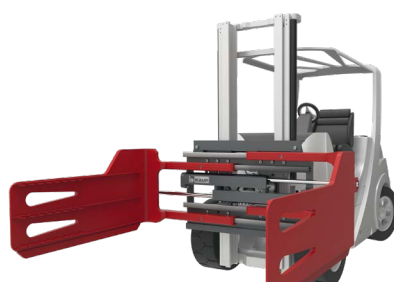
with independent sideshift · with cylinder- and sideshift protection · 2 hydraulic functions

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	ISO class	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T 413RC	2.100	500	± 100	575-1.875	1.040	440	42	1.000	2/3	143	280	210	573
								1.200			346	212	628
2T 413RC	2.100	500	± 100	485-1.785	1.130	440	42	1.000	2/3	143	277	209	580
								1.200			343	211	635
2T 413RC	2.100	500	± 100	595-2.395	1.520	440	42	1.000	2/3	143	258	214	641
								1.200			319	215	696
3T 413RC	1.790	700	± 100	465-1.765	1.130	500	130	1.400	2/3	153	371	221	811
		800						1.600			422	217	847
3T 413RC	1.790	700	± 100	605-2.235	1.330	500	130	1.400	2/3	153	361	221	840
		800						1.600			410	217	875
4T 413RC	2.140	700	± 100	565-1.965	1.130	500	130	1.400	3	163	370	257	919
		800						1.600			419	252	955
4T 413RC	2.140	700	± 100	595-2.225	1.330	500	130	1.400	3	163	354	260	975
		800						1.600			401	255	1.011
4,5T 413RC	2.400	800	± 100	550-1.950	1.200	500	130	1.600	3	188	391	220	1.025
		1.000						2.000			489	214	1.095
4,5T 413RC	2.400	800	± 100	650-2.280	1.330	500	130	1.600	3	188	383	220	1.051
		1.000						2.000			479	214	1.122
4,5T 413RC	2.400	800	± 100	590-2.290	1.460	500	130	1.600	3	188	377	220	1.072
		1.000						2.000			471	214	1.142
4,5T 413RC	2.400	800	± 100	630-2.460	1.550	500	130	1.600	3	188	372	220	1.092
		1.000						2.000			465	214	1.162

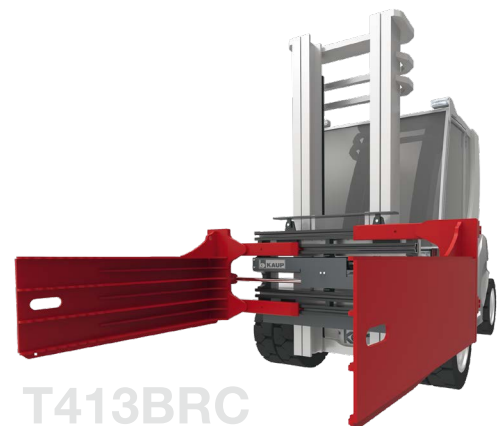
Also available without sideshift, model T403RC. Load backrest model T479.



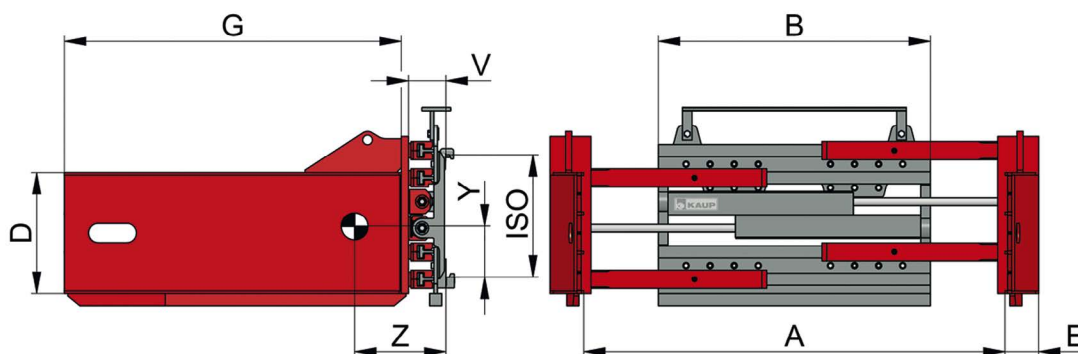
T413R



T413RC



T413BRC

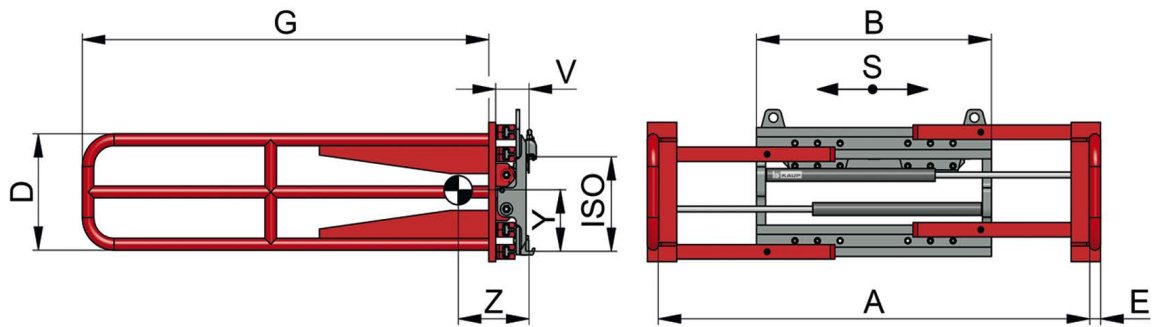


Recycling Bale Clamp T413RC

with **valveblock sideshift** dependent on opening range · with cylinder- and sideshift protection · 2 hydraulic functions

Model	Capacity kg	LCD mm	A mm	B mm	D mm	E mm	G mm	VS max mm	ISO class	V mm	CofG Z mm	CofG _v Y mm	Weight kg
2T 413RC	2.100	500	575-1.875	1.040	440	42	1.000	± 325	2 / 3	136	277	216	566
							1.200				344	218	620
2T 413RC	2.100	500	485-1.785	1.130	440	42	1.000	± 325	2 / 3	136	274	215	573
							1.200				340	217	628
2T 413RC	2.100	500	595-2.395	1.520	440	42	1.000	± 450	2 / 3	136	255	220	634
							1.200				316	221	689
3T 413RC	1.790	700	465-1.765	1.130	500	130	1.400	± 325	2 / 3	145	379	227	778
		800					1.600				432	223	804
3T 413RC	1.790	700	605-2.235	1.330	500	130	1.400	± 407,5	2 / 3	145	368	227	807
		800					1.600				419	223	843
4T 413RC	2.140	700	565-1.965	1.130	500	130	1.400	± 350	3	155	348	251	876
		800					1.600				395	246	912
4T 413RC	2.140	700	595-2.225	1.330	500	130	1.400	± 407,5	3	155	333	254	931
		800					1.600				377	249	967
4,5T 413RC	2.400	800	550-1.950	1.200	500	130	1.600	± 350	3	181	410	226	1.006
		1.000					2.000				486	209	1.050
4,5T 413RC	2.400	800	650-2.280	1.330	500	130	1.600	± 407,5	3	181	401	226	1.032
		1.000					2.000				476	209	1.076
4,5T 413RC	2.400	800	590-2.290	1.460	500	130	1.600	± 425	3	181	395	225	1.054
		1.000					2.000				468	208	1.098
4,5T 413RC	2.400	800	630-2.460	1.550	500	130	1.600	± 457,5	3	181	389	225	1.073
		1.000					2.000				462	208	1.117
4,8T 413BRC	3.300	800	585-2.085	1.330	500	130	1.600	± 375	3	211	398	299	1.298
		1.000					2.000				495	280	1.385
5,5T 413BRC	3.300	800	625-2.525	1.740	500	130	1.600	± 475	4	211	375	290	1.412
		1.000					2.000				465	281	1.499
6T 413BRC	4.000	800	685-2.585	1.740	600	160	1.600	± 475	4	211	383	291	1.433
		1.000					2.000				479	282	1.521
6T 413BRC	4.000	800	565-2.465	1.860	600	160	1.600	± 475	4	211	378	292	1.455
		1.000					2.000				474	283	1.543
6T 413BRC	4.000	800	595-2.695	2.030	600	160	1.600	± 525	4	211	371	293	1.493
		1.000					2.000				465	284	1.581
6,5T 413BRC	6.000	800	685-2.585	1.740	600	160	1.600	± 475	4	221	374	293	1.509
		1.000					2.000				477	284	1.576
6,5T 413BRC	6.000	800	565-2.465	1.860	600	160	1.600	± 475	4	221	370	293	1.531
		1.000					2.000				472	284	1.598
6,5T 413BRC	6.000	800	595-2.695	2.030	600	160	1.600	± 525	4	221	363	295	1.572
		1.000					2.000				463	286	1.639
8T 413BRC	8.000	800	585-2.985	2.200	600	160	1.600	± 600	4	258	339	348	2.294
		1.000					2.000				423	339	2.418

Also available without sideshift, model T403RC. Load backrest model T479.



Foam Rubber Clamp T413R

with independent sideshift · 2 hydraulic functions

Model	Capacity kg	LCD mm	S mm	A mm	B mm	D mm	E mm	G mm	ISO class	V mm	CofG Z mm	CofG _v Y mm	Weight kg
1,5T 413R	500	1.000	± 100	760-2.260	1.130	500	50	1.500	2	133	266	263	348
				840-2.460	1.330	500	50	1.500	2	133	259	262	362
				840-2.460	1.330	500	50	1.800	2	133	304	262	372
2T 413R	800	1.000	± 100	600-1.900	1.040	500	50	1.800	2	143	313	263	377
				600-2.450	1.600	500	50	1.800	2	143	279	263	438

Also available without sideshift, model T403R. Load backrest model T479.



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



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