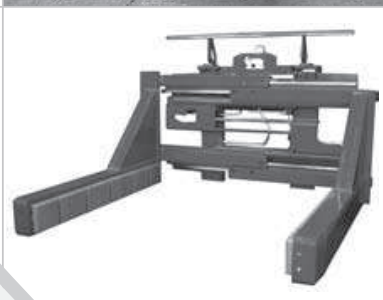
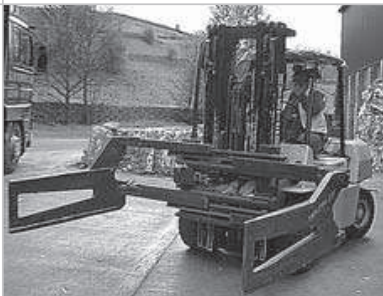
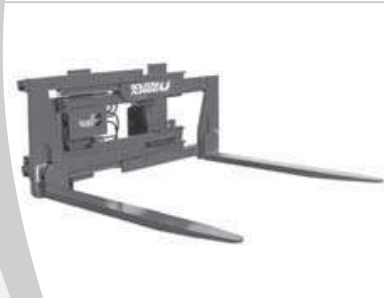
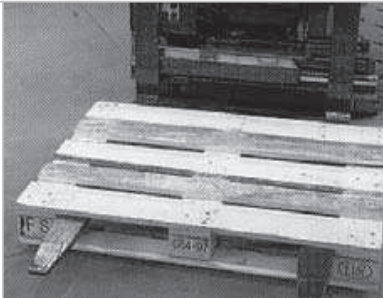


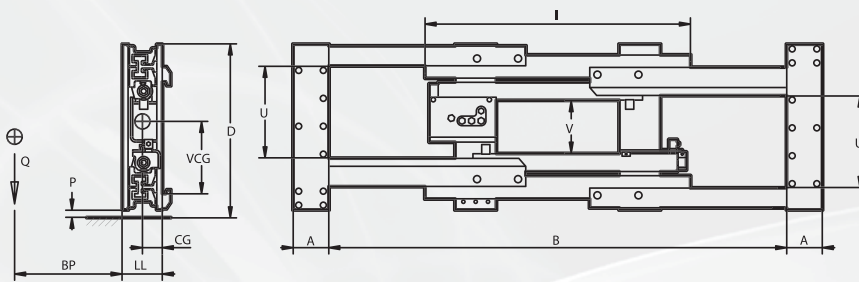
Clamp Body Without Arms	
Models KB-XX.....	5-1
Models B-AB / BA-AB.....	5-2
360° Rotating Clamp Body Without Arms	
Models KG-XX.....	5-3
Pallet Fork Clamps	
Models KB-H.....	5-4
Models B-FC / BA-FC.....	5-5
360° Rotating Pallet Fork Clamps	
Models KG-H.....	5-6
Models KG-HC.....	5-7
Harbour Fork Clamps	
Models KB-P.....	5-8
Clamps With Manually Rotating Forks	
Models KB-D.....	5-9
Invert A Pallet (Load Turning Clamps)	
Models KG-EF / KG-F.....	5-10
Clamps For Foam Rubber Blocks	
Models KB-N.....	5-11
Multipurpose Clamps	
Models KB-U.....	5-12
Box Clamps	
Models KB-S.....	5-13
Block Clamps With Autocompensating Pads	
Models KB-K.....	5-14
Block Clamps With Oscillating Pads	
Models KB-A.....	5-15
Clamps For 1-2 Drums	
Models KB-T2.....	5-16
Clamps For 2-4 Drums	
Models KB-T4.....	5-17
360° Rotating Clamps For 1-2 Drums	
Models KG-T2.....	5-18
360° Rotating Clamps For 2-4 Drums	
Models KG-T4.....	5-19
Bar Arm Clamps	
Models KB-R.....	5-20
Clamps	
Technical Information.....	5-21
Clamps	
Accessories and Options, Sideshift Options.....	5-22
Clamps	
Accessories and Options.....	5-23

Clamps



Clamp Body Without Arms

Models KB-XX



- Strong double T-profile frame.
- Compact structure, allowing excellent visibility.
- Valve in a protected position.
- Cylinder rods well protected against damage.
- Pre-drilled supports to accept bolt-on arms.
- Pressure relief valve fitted as standard.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity	Load Centre	Opening Range	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Plate Width	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm	B mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	A mm	U mm	V mm	P mm	ISO 2328
KB 10 XXA	1000	500	470 - 1700	930	750	613	200	68	239	141	100	343	202	9	2 A
KB 10 XXA EU	1000	500	350 - 1580	1050	750	613	205	68	239	141	100	343	202	9	2 A
KB 10 XNA	1000	500	460 - 1800	1050	750	613	208	68	239	141	100	343	202	9	2 A
KB 10 XNA	1000	500	400 - 1500	870	750	613	198	68	239	141	100	343	202	9	2 A
KB 10 XNA	1000	500	350 - 1400	870	750	613	196	68	239	141	100	343	202	9	2 A
KB 10 XNA	1000	500	550 - 1910	1020	750	613	208	68	239	141	100	343	202	9	2 A
KB 10 XNA	1000	500	550 - 2000	1120	750	613	220	68	239	141	100	343	202	9	2 A
KB 14 XXA	1400	500	470 - 1700	930	750	613	208	69	239	143	100	341	200	9	2 A
KB 14 XXA EU	1400	500	350 - 1580	1050	750	613	213	69	239	143	100	341	200	9	2 A
KB 14 XNA	1400	500	460 - 1800	1050	750	613	216	69	239	143	100	341	200	9	2 A
KB 14 XNA	1400	500	400 - 1500	870	750	613	204	69	239	143	100	341	200	9	2 A
KB 14 XNA	1400	500	350 - 1400	870	750	613	202	69	239	143	100	341	200	9	2 A
KB 14 XNA	1400	500	550 - 1910	1020	750	613	216	69	239	143	100	341	200	9	2 A
KB 14 XNA	1400	500	550 - 2000	1110	750	613	220	69	239	143	100	341	200	9	2 A
KB 18 XXA	1800	500	490 - 1820	970	750	613	225	74	241	155	120	340	197	9	2 A
KB 18 XXA EU	1800	500	320 - 1610	1100	750	613	231	74	241	155	120	340	197	9	2 A
KB 18 XNA	1800	500	490 - 1950	1100	750	613	242	74	241	155	120	340	197	9	2 A
KB 18 XNA	1800	500	455 - 2455	1675	1050	613	260	74	241	155	120	340	197	9	2 A
KB 18 XNA	1800	500	510 - 1870	1020	750	613	228	74	241	155	120	340	197	9	2 A
KB 22 XXA	2200	500	490 - 1820	970	750	613	233	75	241	157	120	338	195	9	2 A
KB 22 XXA EU	2200	500	320 - 1610	1100	750	613	240	75	241	157	120	338	195	9	2 A
KB 22 XNA	2200	500	490 - 1950	1100	750	613	249	75	241	157	120	338	195	9	2 A
KB 22 XNA	2200	500	455 - 2455	1675	1050	613	270	75	241	157	120	338	195	9	2 A
KB 22 XNA	2200	500	510 - 1870	1020	750	613	235	75	241	157	120	338	195	9	2 A
KB 28 XXB	2800	500	490 - 1820	970	750	715	280	84	249	171	120	383	240	20	3 A
KB 28 XXB EU	2800	500	320 - 1610	1100	750	715	288	84	249	171	120	383	240	20	3 A
KB 28 XNB	2800	500	490 - 1950	1100	750	715	296	84	249	171	120	383	240	20	3 A
KB 28 XNB	2800	500	490 - 2220	1370	750	715	328	84	249	171	120	383	240	20	3 A
KB 35 XXB	3500	500	550 - 2050	1250	1050	715	446	98	251	195	150	377	206	20	3 A
KB 35 XXB EU	3500	500	260 - 1510	1150	1050	715	412	98	251	195	150	377	206	20	3 A
KB 35 XNB	3500	500	430 - 2200	1500	1050	715	484	98	251	195	150	377	206	20	3 A
KB 40 XXB	4000	500	550 - 2050	1250	1050	715	456	99	251	197	150	375	204	20	3 A
KB 40 XXB EU	4000	500	260 - 1510	1150	1050	715	421	99	251	197	150	375	204	20	3 A
KB 40 XNB	4000	500	430 - 2200	1500	1050	715	496	99	251	197	150	375	204	20	3 A

Notes:

One hydraulic function required.

Standard fittings:

Check valve with power regeneration hydraulic circuit (for models KB 10 – 22).

Pre-drilled arm supports for bolt-on arms.

On request:

Special openings.

Separate sideshift

Quick change lower hooks.

Pressure gauge.

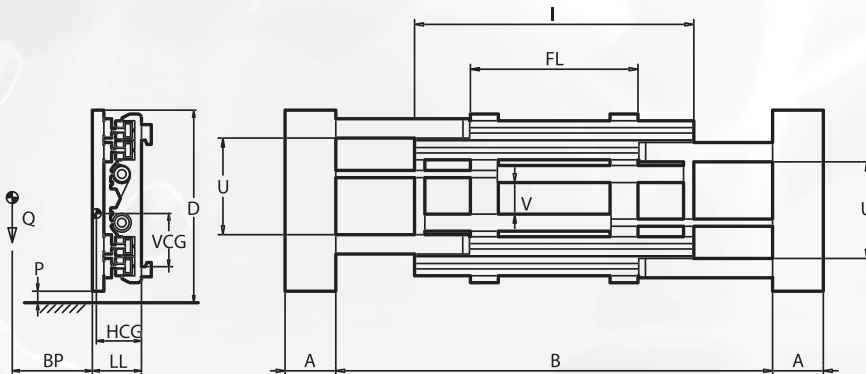
Load backrest.

Independent arm control valve.

Integral sideshift.

Clamp Body Without Arms

Models B-AB / BA-AB



- Series B: Strong aluminum profile frame, T-profile steel arm carriers.
- Series BA: Steel profile frame, T-profile steel arm carriers.
- Valve in a protected position.
- Pre-drilled supports to accept bolt-on arms.
- Pressure relief valve fitted as standard.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.
- Integral sideshift.

Model	Capacity		Opening Range	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Plate Width	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm													
B 400 AB00RH1	4000	800	350-2010	1400	930	825	650	91	x	237	180	420	120	53	3/4A
B 400 AB00TH1	4000	800	350-2210	1600	930	825	695	89	x	237	180	420	120	53	3/4A
BA 50 AB00RH1	5000	800	380-2060	1400	1000	905	900	101	x	259	180	500	150	65	4A
BA 50 AB00TH1	5000	800	380-2260	1600	1000	905	960	100	x	259	180	500	150	65	4A
BA 65 AB00TH1	6500	800	380-2260	1600	1000	905	990	102	x	267	180	500	150	65	4A
BA 65 AB00VH1	6500	800	380-2460	1800	1000	905	1060	99	x	267	180	500	150	65	4A

Notes:

Two hydraulic functions required.

Standard fittings:

Pre-drilled arm supports for bolt-on arm.

On request:

Special openings.

Separate sideshift.

Quick-change lower hooks.

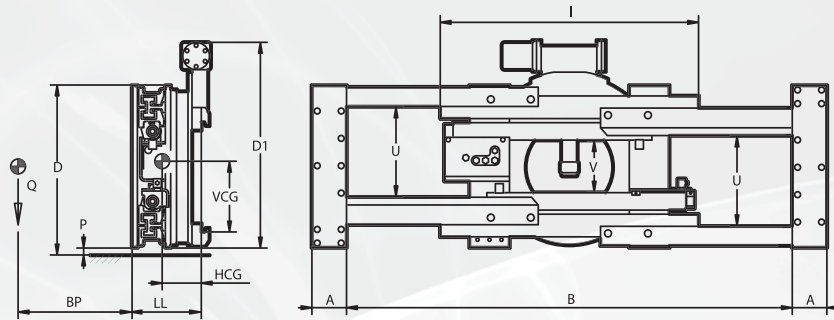
Pressure gauge.

Load backrest.

Independent arm control valve.

360° Rotating Clamp Body Without Arms

Models KG-XX



- Strong double T-profile frame.
- 360° continuous rotation in both directions.
- Special check valve.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.
- Same basic features as for non-rotating clamp body.

Model	Capacity		Opening Range	Frame Width	Minimum Carriage Width	Height	Rotator Height	Weight	Centre of Gravity		Plate Width	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm							Horizontal HCG mm	Vertical VCG mm						
KG 10 XXA	1000	500	470 - 1700	930	690	613	744	382	123	270	100	250	343	202	9	2 A
KG 10 XXA	1000	500	350 - 1580	1050	690	613	744	387	124	270	100	250	343	202	9	2 A
KG 10 XNA	1000	500	460 - 1800	1050	690	613	744	390	125	270	100	250	343	202	9	2 A
KG 10 XNA	1000	500	400 - 1500	870	690	613	744	379	123	270	100	250	343	202	9	2 A
KG 10 XNA	1000	500	350 - 1400	870	690	613	744	377	123	270	100	250	343	202	9	2 A
KG 10 XNA	1000	500	550 - 1910	1020	690	613	744	390	125	270	100	250	343	202	9	2 A
KG 10 XNA	1000	500	550 - 2000	1120	690	613	744	400	126	270	100	250	343	202	9	2 A
KG 14 XXA	1400	500	470 - 1700	930	690	613	744	390	121	270	100	259	341	200	9	2 A
KG 14 XXA EU	1400	500	350 - 1580	1050	690	613	744	395	122	270	100	259	341	200	9	2 A
KG 14 XNA	1400	500	460 - 1800	1050	690	613	744	398	123	270	100	259	341	200	9	2 A
KG 14 XNA	1400	500	400 - 1500	870	690	613	744	388	121	270	100	259	341	200	9	2 A
KG 14 XNA	1400	500	350 - 1400	870	690	613	744	386	121	270	100	259	341	200	9	2 A
KG 14 XNA	1400	500	550 - 1910	1020	690	613	744	398	123	270	100	259	341	200	9	2 A
KG 14 XNA	1400	500	550 - 2000	1110	690	613	744	412	124	270	100	259	341	200	9	2 A
KG 18 XXA	1800	500	490 - 1820	970	690	613	744	415	128	270	120	273	340	197	9	2 A
KG 18 XXA EU	1800	500	320 - 1610	1100	690	613	744	421	129	270	120	273	340	197	9	2 A
KG 18 XNA	1800	500	490 - 1950	1100	690	613	744	432	130	270	120	273	340	197	9	2 A
KG 18 XNA	1800	500	455 - 2455	1675	690	613	744	450	132	270	120	273	340	197	9	2 A
KG 18 XNA	1800	500	510 - 1870	1020	690	613	744	418	128	270	120	273	340	197	9	2 A
KG 22 XXA	2200	500	490 - 1820	970	690	613	744	423	126	270	120	278	338	195	9	2 A
KG 22 XXA EU	2200	500	320 - 1610	1100	690	613	744	430	127	270	120	278	338	195	9	2 A
KG 22 XNA	2200	500	490 - 1950	1100	690	613	744	440	128	270	120	278	338	195	9	2 A
KG 22 XNA	2200	500	455 - 2455	1675	690	613	744	460	130	270	120	278	338	195	9	2 A
KG 22 XNA	2200	500	510 - 1870	1020	690	613	744	426	126	270	120	278	338	195	9	2 A
KG 28 XXB	2800	500	490 - 1820	970	750	715	860	560	138	305	120	304	383	240	20	3 A
KG 28 XXB EU	2800	500	320 - 1610	1100	750	715	860	568	139	305	120	304	383	240	20	3 A
KG 28 XNB	2800	500	490 - 1950	1100	750	715	860	576	140	305	120	304	383	240	20	3 A
KG 28 XNB	2800	500	490 - 2220	1370	750	715	860	608	144	305	120	304	383	240	20	3 A
KG 35 XXB	3500	500	550 - 2050	1250	955	715	860	726	163	308	150	328	377	206	20	3 A
KG 35 XXB EU	3500	500	260 - 1510	1150	955	715	860	692	160	308	150	328	377	206	20	3 A
KG 35 XNB	3500	500	430 - 2200	1500	955	715	860	764	166	308	150	328	377	206	20	3 A
KG 40 XXB	4000	500	550 - 2050	1250	955	715	860	736	160	308	150	328	375	206	20	3 A
KG 40 XXB EU	4000	500	260 - 1510	1150	955	715	860	702	158	308	150	328	375	206	20	3 A
KG 40 XNB	4000	500	430 - 2200	1500	955	715	860	776	163	308	150	328	375	206	20	3 A

Notes:

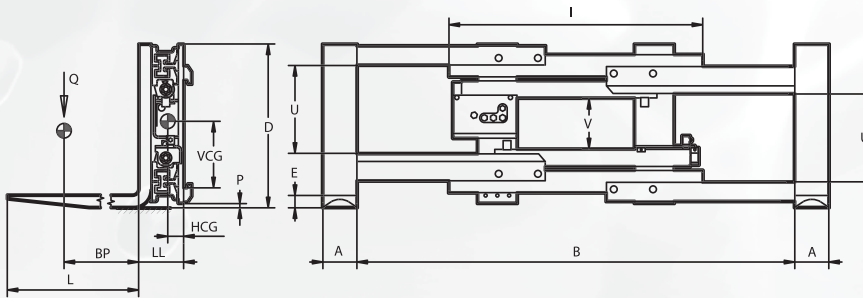
Q = Lifting capacity is specified with clamped load without rotation and with rotation without clamped load. The capacities with clamped load during rotation depend on the clamping pressure, the arms and the load type.

Standard fittings:

- Two hydraulic functions required.
- Pre-drilled supports for bolt-on arms.
- Rotating centre.

On request:

- Special openings.
- Separate sideshift.
- Load backrest.
- Independent arm control valve.
- Pre FEM hooking.



- Strong double T-profile frame.
- Forks welded to the arm carriers.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.
- "EU" models for Europallet handling.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q1/Q2 kg	BP mm	B mm	LxAxE mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	U mm	V mm	P mm	ISO 2328
KB 10 H4A	1000/1600	500	470 - 1700	1000x100x35	930	750	613	252	153	198	153	343	202	9	2 A
KB 10 H5A	1000/1600	500	470 - 1700	1100x100x35	930	750	613	257	173	188	153	343	202	9	2 A
KB 10 H6A	1000/1600	500	470 - 1700	1200x100x35	930	750	613	262	188	183	153	343	202	9	2 A
KB 10 H6A EU	1000/1600	500	350 - 1580	1200x100x35	1050	750	613	267	185	190	153	343	202	9	2 A
KB 14 H4A	1400/2000	500	470 - 1700	1000x100x40	930	750	613	265	159	198	160	341	200	9	2 A
KB 14 H5A	1400/2000	500	470 - 1700	1100x100x40	930	750	613	271	178	188	160	341	200	9	2 A
KB 14 H6A	1400/2000	500	470 - 1700	1200x100x40	930	750	613	276	193	183	160	341	200	9	2 A
KB 14 H6A EU	1400/2000	500	350 - 1580	1200x100x40	1050	750	613	281	190	190	160	341	200	9	2 A
KB 18 H4A	1800/2500	500	490 - 1820	1000x120x40	970	750	613	290	167	175	165	340	197	9	2 A
KB 18 H5A	1800/2500	500	490 - 1820	1100x120x40	970	750	613	306	197	170	165	340	197	9	2 A
KB 18 H6A	1800/2500	500	490 - 1820	1200x120x40	970	750	613	313	215	163	165	340	197	9	2 A
KB 18 H6A EU	1800/2500	500	320 - 1610	1200x120x40	1100	750	613	319	210	173	165	340	197	9	2 A
KB 22 H4A	2200/2500	500	490 - 1820	1000x120x40	970	750	613	305	172	175	168	338	195	9	2 A
KB 22 H5A	2200/2500	500	490 - 1820	1100x120x40	970	750	613	322	202	170	168	338	195	9	2 A
KB 22 H6A	2200/2500	500	490 - 1820	1200x120x40	970	750	613	330	221	163	168	338	195	9	2 A
KB 22 H6A EU	2200/2500	500	320 - 1610	1200x120x40	1100	750	613	336	215	173	168	338	195	9	2 A
KB 28 H4B	2800/3500	500	490 - 1820	1000x120x45	970	750	715	407	188	196	190	383	240	20	3 A
KB 28 H5B	2800/3500	500	490 - 1820	1100x120x45	970	750	715	419	209	190	190	383	240	20	3 A
KB 28 H6B	2800/3500	500	490 - 1820	1200x120x45	970	750	715	431	229	185	190	383	240	20	3 A
KB 28 H6B EU	2800/3500	500	320 - 1610	1200x120x45	1100	750	715	436	229	185	190	383	240	20	3 A
KB 35 H6B	3500/4500	500	550 - 2050	1200x150x50	1250	1050	715	581	205	234	206	377	206	20	3 A
KB 35 H6B EU	3500/4500	500	260 - 1510	1200x150x50	1150	1050	715	547	211	234	206	377	206	20	3 A
KB 40 H6B	4000/5000	500	550 - 2050	1200x150x60	1250	1050	715	645	238	234	218	375	204	20	3 A
KB 40 H6B EU	4000/5000	500	260 - 1510	1200x150x60	1150	1050	715	611	245	234	218	375	204	20	3 A

Notes:

Q1 = capacity when clamping
 Q2 = capacity on the forks
 Models KB...EU for Europallet handling.

Standard fittings:

One hydraulic function required.
 Pressure relief valve
 Check valve with power regeneration hydraulic circuit (for KB 10 – 22).
 Forks welded directly to the guides.

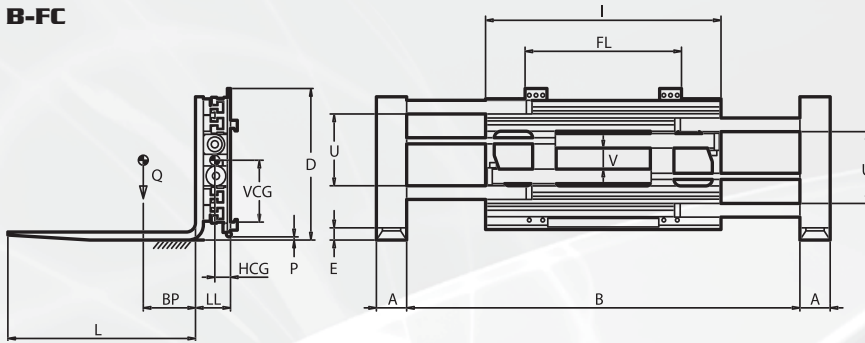
On request:

Special openings.
 Separate sideshift.
 Pressure gauge.
 Load backrest.
 Bolt-on forks.
 Integral sideshift.

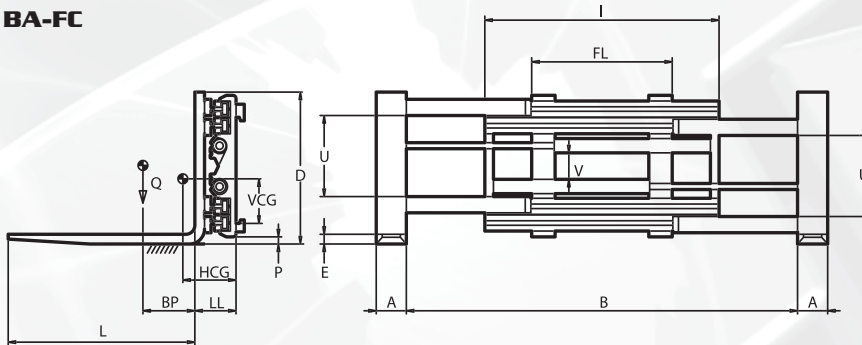
Pallet Fork Clamps

Models B-FC / BA-FC

B-FC



BA-FC



- Series B: Strong aluminum profile frame, T-profile steel arm carriers.
- Series BA: Steel profile frame, T-profile steel arm carriers.
- Forks welded to the arm carriers.
- Reduced weight, effective thickness and centre of gravity.
- Integral sideshift.
- "EU" models for Europallet handling.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
B 500FC 12R EU	2500 / 5000	600	210-1690	1200x150x60	1400	1000	825	800	203	210	227	420	120	50	4A
B 500FC 12R	2500 / 5000	600	510-2290	1200x150x60	1400	1000	825	840	194	216	227	420	120	50	4A
B 500FC 12S EU	2500 / 5000	600	210-1790	1200x150x60	1500	1000	825	830	195	214	227	420	120	50	4A
B 500FC 12S	2500 / 5000	600	510-2390	1200x150x60	1500	1000	825	850	192	232	227	420	120	50	4A
B 500FC 12T EU	2500 / 5000	600	210-1890	1200x150x60	1600	1000	825	840	193	213	227	420	120	50	4A
B 500FC 12T	2500 / 5000	600	510-2490	1200x150x60	1600	1000	825	880	189	220	227	420	120	50	4A
BA 65FC 12T EU	3250 / 6500	600	240-1920	1200x150x70	1600	1000	905	1010	174	264	269	500	200	65	4A
BA 65FC 12T	3250 / 6500	600	540-2520	1200x150x70	1600	1000	905	1060	172	265	269	500	200	65	4A
BA 65FC 12V EU	3250 / 6500	600	240-2120	1200x150x70	1800	1000	905	1080	168	268	269	500	200	65	4A
BA 65FC 12V	3250 / 6500	600	540-2720	1200x150x70	1800	1000	905	1110	166	266	269	500	200	65	4A
BA 80FC 12V EU	4000 / 8000	600	240-2120	1200x200x70	1800	1000	905	1140	174	266	282	500	200	65	4A
BA 80FC 12V	4000 / 8000	600	540-2720	1200x200x70	1800	1000	905	1190	172	267	282	500	200	65	4A
BA 80FC 120 EU	4000 / 8000	600	240-2320	1200x200x70	2000	1000	905	1240	164	274	282	500	200	65	4A
BA 80FC 120	4000 / 8000	600	540-2920	1200x200x70	2000	1000	905	1320	162	273	282	500	200	65	4A

Notes:

Q1 = capacity when clamping

Q2 = capacity on the forks

Models B/BA-FC...EU for Europallet handling.

Standard fittings:

Two hydraulic functions required.

Pressure relief valve.

Forks welded directly to the arm carriers.

On request:

Special openings.

Separate sideshift.

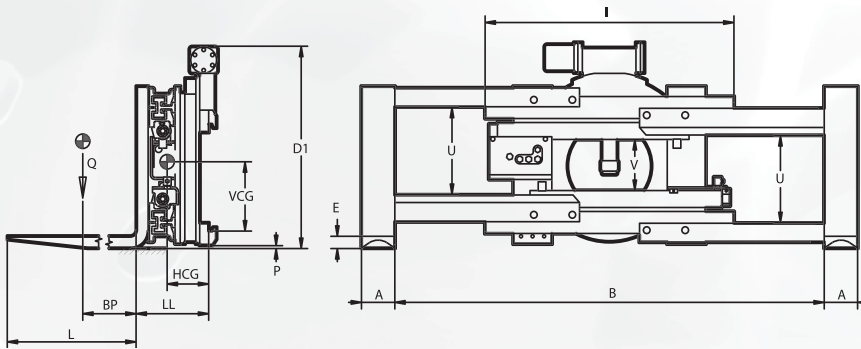
Pressure gauge.

Load backrest.

Bolt-on forks.

360° Rotating Pallet Fork Clamps

Models KG-H



- Strong double T-profile frame.
- 360° continuous rotation in both directions.
- Forks welded to the arm carriers.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.
- “EU” models for Europallet handling.
- Commonly used to empty containers and bins in foundries, food and agriculture industries.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Rotator Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
KG 10 H4A	1000 / 1600	500	470 - 1700	1000x100x35	930	690	744	432	180	270	270	343	202	9	2A
KG 10 H5A	1000 / 1600	500	470 - 1700	1100x100x35	930	690	744	437	195	270	270	343	202	9	2A
KG 10 H6A	1000 / 1600	500	470 - 1700	1200x100x35	930	690	744	442	203	270	270	343	202	9	2A
KG 10 H6A EU	1000 / 1600	500	350 - 1580	1200x100x35	1050	690	744	447	200	270	270	343	202	9	2A
KG 14 H4A	1400 / 2000	500	470 - 1700	1000x100x40	930	690	744	445	186	270	277	341	200	9	2A
KG 14 H5A	1400 / 2000	500	470 - 1700	1100x100x40	930	690	744	451	198	270	277	341	200	9	2A
KG 14 H6A	1400 / 2000	500	470 - 1700	1200x100x40	930	690	744	456	209	270	277	341	200	9	2A
KG 14 H6A EU	1400 / 2000	500	350 - 1580	1200x100x40	1050	690	744	462	205	270	277	341	200	9	2A
KG 18 H4A	1800 / 2500	500	490 - 1820	1000x120x40	970	690	744	480	193	270	282	340	197	9	2A
KG 18 H5A	1800 / 2500	500	490 - 1820	1100x120x40	970	690	744	496	212	270	282	340	197	9	2A
KG 18 H6A	1800 / 2500	500	490 - 1820	1200x120x40	970	690	744	503	227	270	282	340	197	9	2A
KG 18 H6A EU	1800 / 2500	500	320 - 1610	1200x120x40	1100	690	744	514	224	270	282	340	197	9	2A
KG 22 H4A	2200 / 2500	500	490 - 1820	1000x120x40	970	690	744	495	199	270	285	338	195	9	2A
KG 22 H5A	2200 / 2500	500	490 - 1820	1100x120x40	970	690	744	512	218	270	285	338	195	9	2A
KG 22 H6A	2200 / 2500	500	490 - 1820	1200x120x40	970	690	744	520	234	270	285	338	195	9	2A
KG 22 H6A EU	2200 / 2500	500	320 - 1610	1200x120x40	1100	690	744	526	228	270	285	338	195	9	2A
KG 28 H4B	2800 / 3500	500	490 - 1820	1000x120x45	970	750	860	687	203	305	307	383	240	20	3A
KG 28 H5B	2800 / 3500	500	490 - 1820	1100x120x45	970	750	860	699	219	305	307	383	240	20	3A
KG 28 H6B	2800 / 3500	500	490 - 1820	1200x120x45	970	750	860	711	232	305	307	383	240	20	3A
KG 28 H6B EU	2800 / 3500	500	320 - 1610	1200x120x45	1100	750	860	719	232	305	307	383	240	20	3A
KG 35 H6B	3500 / 4000	500	550 - 2050	1200x150x50	1250	955	860	861	245	305	323	377	206	20	3A
KG 35 H6B EU	3500 / 4000	500	260 - 1510	1200x150x50	1150	955	860	827	246	305	323	377	206	20	3A
KG 40 H6B	4000 / 4000	500	550 - 2050	1200x150x60	1250	955	860	925	274	305	335	375	204	20	3A
KG 40 H6B EU	4000 / 4000	500	260 - 1510	1200x150x60	1150	955	860	891	276	305	335	375	204	20	3A

Notes:

Q1 = when clamping without rotation; or when rotating without clamping.
Q2 = capacity on the forks.

The capacities when clamping depend on the clamping pressure, on the fork arm model and load type.

Standard fittings:

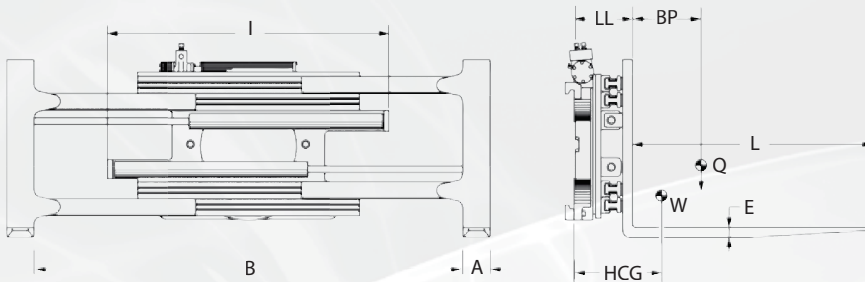
- Two hydraulic functions required.
- Pressure relief valve.
- Forks welded directly to the guides.
- Double check valve
- Rotating centre.

On request:

- Special openings.
- Separate sideshift.
- Pressure gauge.
- Load backrest.
- Bolt-on forks and different fork lengths.

360° Rotating Pallet Fork Clamps

Models KG-HC



- The Bolzoni Auramo 360° rotating fork clamp model KG-HC class IV is a multi-functional unit in the best sense.
- It can be used to lift all conventional pallets, wide loads and clamp loads not on pallets, either with the forks alone or with slip-on arms for brick/blocks, drums, bale etc.
- The continuous rotation in either direction adds to the handling options.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Weight	Centre of Gravity Horizontal	Effective Thickness	Mounting Class
	Q kg	BP mm	B mm	LxAxE mm	I mm	FL mm	W kg	HCG mm	LL mm	ISO 2328
KG 40 6H6C EU	4000	600	260-1730	1200x150x60	1350	1000	1130	225	340	4
KG 40 6H6C	4000	600	410-2180	1200x150x60	1500	1000	1190	220	340	4
KG 45 6H6C EU	4500	600	260-1880	1200x150x60	1500	1000	1200	225	344	4
KG 45 6H6C	4500	600	410-2330	1200x150x60	1650	1000	1280	200	344	4
KG 60 6H6C EU	6000	600	160-1930	1200x200x60	1650	1000	1410	230	370	4
KG 60 6H6C	6000	600	310-2480	1200x200x60	1900	1000	1540	220	370	4
KG 65 6H6C	6500	800	420-2680	1200x200x70	2000	1200	2040	250	400	4

Notes:

KG...EU models are suitable for Europallets.
Two hydraulic functions required.

Standard fittings:

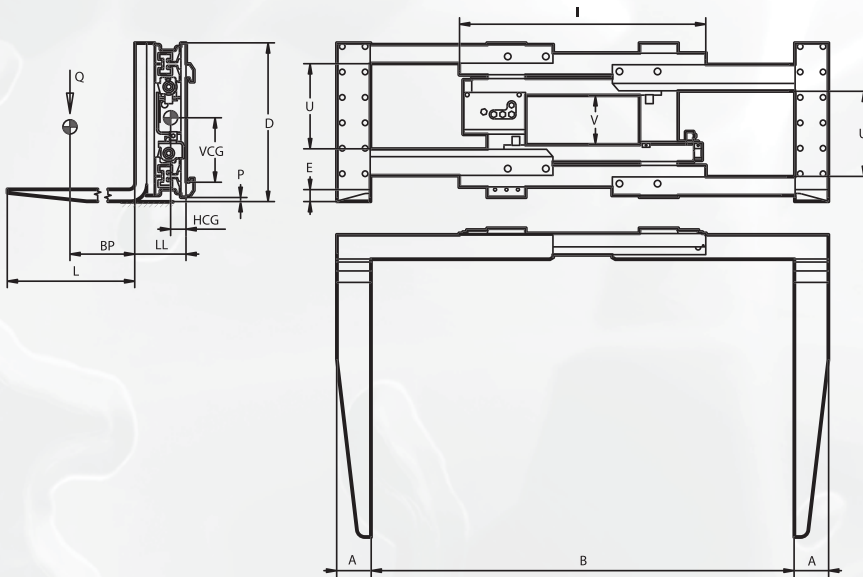
Pressure relief valve.
Forks welded directly to the guides.

On request:

Other capacities, fork lengths and opening ranges.
Various slip-on arms available.

Options:

Separate sideshift.
Solenoid valve.
Solenoid valve control kit.
Motor and brake protection.
Special openings.
Pressure gauge.
Quick disconnect lower hooks.
Bolt-on forks and different forks lengths.



- Strong double T-profile frame.
- Special harbour forks bolted on the arm carriers.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.
- "EU" models for Europallet handling.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
KB18P6A	1800 / 2500	500	490 - 1820	1200x120x40	970	750	613	348	220	162	195	340	197	9	2A
KB18P6A EU	1800 / 2500	500	370 - 1610	1200x120x40	1100	750	613	354	215	172	195	340	197	9	2A
KB22P6A	2200 / 2500	500	490 - 1820	1200x120x40	970	750	613	365	226	162	197	338	195	9	2A
KB22P6A EU	2200 / 2500	500	370 - 1610	1200x120x40	1100	750	613	371	220	172	197	338	195	9	2A
KB28P6B	2800 / 3500	500	490 - 1820	1200x120x45	970	750	715	470	234	228	216	383	240	20	3A
KB28P6B EU	2800 / 3500	500	370 - 1610	1200x120x45	1100	750	715	455	191	235	216	383	240	20	3A
KB35P6B	3500 / 4500	500	550 - 2050	1200x150x50	1250	1050	715	626	210	203	245	377	206	20	3A
KB35P6B EU	3500 / 4500	500	260 - 1510	1200x150x50	1150	1050	715	592	216	210	245	377	206	20	3A
KB40P6B	4000 / 5000	500	550 - 2050	1200x150x60	1250	1050	715	625	243	233	257	375	204	20	3A
KB40P6B EU	4000 / 5000	500	260 - 1510	1200x150x60	1150	1050	715	660	250	240	257	375	204	20	3A

Capacity: clamping-on forks

Notes:

Q1 = capacity when clamping

Q2 = capacity on the forks

Standard fittings:

One hydraulic function required.

Pressure relief valve

Check valve with power regeneration hydraulic circuit (for KB 10 – 22).

Forks bolted to the guides.

On request:

Special openings.

Separate sideshift.

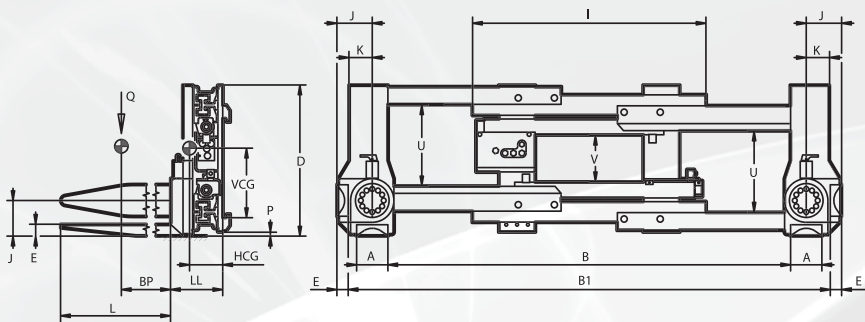
Pressure gauge.

Load backrest.

Integral sideshift.

Clamps With Manually Rotating Forks

Models KB-D



- Fork positioning at 0°, 45° and 90° positions.
- Strong double T-profile frame.
- Excellent visibility.
- Reduced weight, effective thickness and centre of gravity.
- “EU” models for Europallet handling.
- For the handling of pallets, drums, pipes, rolls, bales crates and similar loads.

Model	Capacity	Load Centre	Opening Range	Opening Range Clamp	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Fork Basic Height	Pivot Distance	Mounting Class
	Q1 / Q2 kg	BP mm	B mm	B1 mm	LxAxE mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	U mm	V mm	P mm	J mm	K mm	ISO 2328
KB10D4A	1000 / 1400	500	360-1590	610-1840	1000x100x40	930	750	613	297	192	150	191	343	202	9	115	105	2A
KB10D6A	1000 / 1400	500	360-1590	610-1840	1200x100x40	930	750	613	312	210	147	191	343	202	9	115	105	2A
KB14D4A	1400 / 1800	500	300-1530	590-1820	1000x130x40	930	750	613	333	237	152	197	341	200	9	120	120	2A
KB14D6A	1400 / 1800	500	300-1530	590-1820	1200x130x40	930	750	613	356	277	149	197	341	200	9	120	120	2A
KB18D6A	1800 / 2300	500	400-1730	720-2050	1200x130x50	970	750	613	385	277	137	218	340	197	9	145	100	2A
KB18D6AEU	1800 / 2300	500	230-1520	550-1840	1200x130x50	1100	750	613	391	269	137	218	340	197	9	145	100	2A
KB22D6A	2200 / 2600	500	400-1730	720-2050	1200x130x50	970	750	613	404	277	137	221	338	195	9	145	100	2A
KB22D6AEU	2200 / 2600	500	230-1520	550-1840	1200x130x50	1100	750	613	410	274	137	221	338	195	9	145	100	2A
KB28D6B	2800 / 3200	500	400-1730	720-2050	1200x130x50	970	750	715	445	230	145	231	383	240	20	145	100	3A
KB28D6BEU	2800 / 3200	500	230-1520	550-1840	1200x130x50	1100	750	715	453	227	145	231	383	240	20	145	100	3A
KB35D6B	3500 / 3800	500	470-1970	820-2320	1200x150x50	1250	1050	715	625	235	203	255	376	205	20	150	115	3A
KB35D6BEU	3500 / 3800	500	180-1430	530-1780	1200x150x50	1150	1050	715	592	243	203	255	376	205	20	150	115	3A

Notes:

Q1 = capacity when clamping.

Q2 = capacity on the forks.

360° rotating version, additional price:

KB-D: 10-14-18-22

KB-D: 28

KB-D: 35

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Forks welded directly to the guides.

Check valve with power regeneration hydraulic circuit (for KB 10 – 22).

On request:

Special openings.

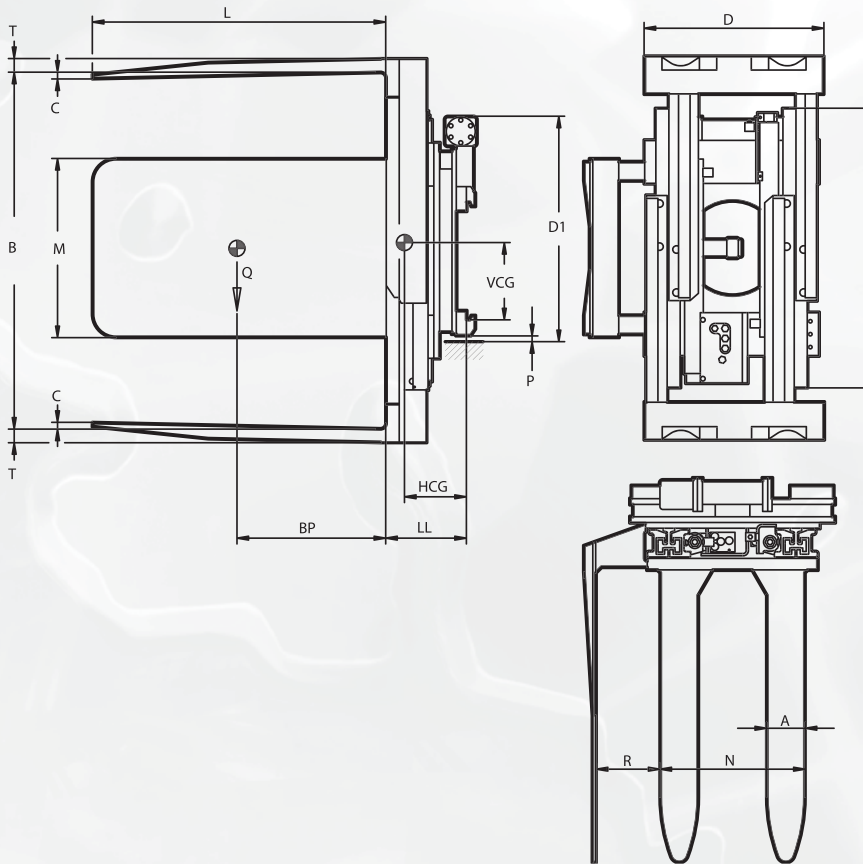
Separate sideshift.

Pressure gauge.

Load backrest.

Integral sideshift.

Invert A Pallet (Load Turning Clamps) Models KG-EF



- Based on rotating clamp body with endless 360° rotation.
- Used for transferring goods from production pallets to disposable ones.
- Equipped with two pairs of forks welded to the arm carriers.
- Available with side plate to stabilize the load during rotation.
- Excellent visibility.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre	Opening Range	Fork Dimensions	Frame Width	Minimum Carriage Width	Height	Rotator Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Arms Toe-in	Side Plate Height	Fork External Width	Side Plate Distance	Ground Clearance	Mounting Class
	Q	BP	B	LxAxT	I	FL	D	D1	W	HCG	VCG	LL	C	M	N	R	P	ISO
	kg	mm	mm	mm	mm	mm	mm	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	2328
With fixed side plate, fixed forks																		
KG E2 F4A	1000	500	600-1830	1000x100x35	930	690	613	711	590	290	261	271	13	600	560	220	9	2A
KG E3 F5A	1400	500	650-1980	1100x130x40	970	690	613	711	700	349	272	285	14	600	560	220	9	2A
KG E4 F6B	2200	500	630-1960	1200x130x50	970	750	715	912	920	380	310	321	15	600	560	220	20	3A
Without side plate, fixed forks																		
KG F2 F4A	1000	500	600-1830	1000x100x35	930	690	613	711	510	250	257	271	13	-	560	-	9	2A
KG F3 F5A	1400	500	650-1980	1100x130x40	970	690	613	711	610	315	268	285	14	-	560	-	9	2A
KG F4 F6B	2200	500	630-1960	1200x130x50	970	750	715	912	820	348	307	321	15	-	560	-	20	3A
KG F5 F6B	3000	500	560-2130	1150x150x60	1300	950	600	747	870	290	420	280	12	-	560	-	28	3A
KG F6 F6B	3500	500	560-2130	1150x150x60	1300	1100	753	801	1080	300	450	321	12	-	560	-	15	3/4A

Notes:

- Models KG-EF with fixed side plate.
- Models KG-FF without side plate.

Standard fittings:

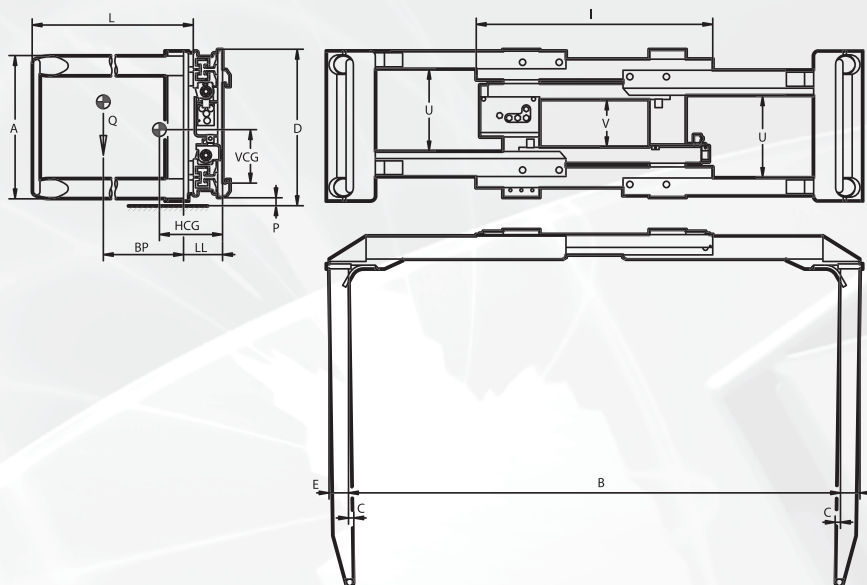
Two hydraulic functions required.

On request:

- Oscillating forks.
- Separate sideshift.
- Valve for independent arm control.

Clamps For Foam Rubber Blocks

Models KB-N



- Strong double T-profile frame.
- Used to handle large and light blocks of rubber or polystyrene.
- Light tubular profile arms, to guarantee a good support and avoid damage to loads.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Arm Toe-in	Arm Height From Ground	Mounting Class
	Q kg	BP mm	B mm	LxAxE mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	U mm	V mm	P mm	C mm	E mm	ISO 2328
KB 10 N7A	1000	500	800-2250	1300x550x70	1170	750	613	355	263	236	152	343	202	9	20	30	2 A
KB 10 N8A	1000	500	800-2250	1500x550x70	1170	750	613	370	310	236	152	343	202	9	22	30	2 A
KB 10 N9A	1000	500	800-2250	1800x550x70	1170	750	613	395	393	233	152	343	202	9	25	30	2 A
KB 10 N0A	1000	500	800-2250	2000x550x70	1170	750	613	410	449	233	152	343	202	9	28	30	2 A
KB 14 N7A	1400	500	800-2250	1300x550x70	1170	750	613	363	260	236	154	341	200	9	20	30	2 A
KB 14 N8A	1400	500	800-2250	1500x550x70	1170	750	613	378	307	236	154	341	200	9	22	30	2 A
KB 14 N9A	1400	500	800-2250	1800x550x70	1170	750	613	403	390	233	154	341	200	9	25	30	2 A
KB 14 N0A	1400	500	800-2250	2000x550x70	1170	750	613	418	445	233	154	341	200	9	28	30	2 A
KB 18 N8A	1800	500	720-2450	1500x550x70	1520	920	613	410	280	241	159	340	197	9	22	30	2 A
KB 18 N9A	1800	500	720-2450	1800x550x70	1520	920	613	435	360	238	159	340	197	9	25	30	2 A
KB 18 N0A	1800	500	720-2450	2000x550x70	1520	920	613	450	410	238	159	340	197	9	28	30	2 A

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Check valve with power regeneration hydraulic circuit.

On request:

Different openings.

Separate sideshift.

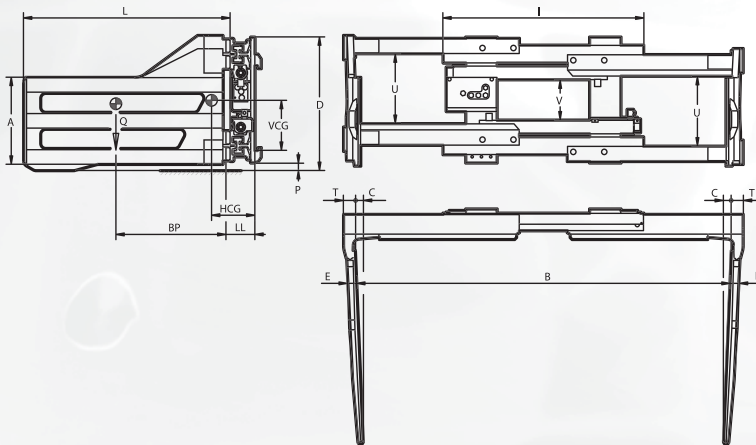
Custom built arm dimensions.

Integral sideshift.

Pressure gauge.

Multipurpose Clamps

Models KB-U



- Strong double T-profile frame.
- For the handling of un palletized loads.
- Bolted replaceable rubber stripes.
- Safe gripping of the load with rubber, even at reduced clamping pressures.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity		Opening Range	Arm Dimensions	Frame Width		Height	Weight	Centre of Gravity		Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Arms Toe-in	Mounting Class
	Q	BP			B	LxAxE-T			I	FL						
	kg	mm	mm	mm	mm	mm	mm	kg	mm	mm	mm	mm	mm	mm	mm	2328
KB 10 U2A	1000	500	550-1780	750x400x42-62	930	750	613	256	160	240	130	343	202	9	17	2 A
KB 10 U3A	1000	500	550-1780	900x400x42-62	930	750	613	274	205	222	130	343	202	9	20	2 A
KB 10 U4A	1000	500	550-1780	1000x400x42-62	930	750	613	287	235	218	130	343	202	9	22	2 A
KB 10 U2NA	1000	500	430-1660	750x400x42-62	1050	750	613	261	157	240	130	343	202	9	17	2 A
KB 10 U3NA	1000	500	430-1660	900x400x42-62	1050	750	613	279	203	222	130	343	202	9	20	2 A
KB 10 U4NA	1000	500	430-1660	1000x400x42-62	1050	750	613	292	233	218	130	343	202	9	22	2 A
KB 14 U3A	1400	500	550-1780	900x400x42-62	930	750	613	274	205	222	133	341	200	9	20	2 A
KB 14 U4A	1400	500	550-1780	1000x400x42-62	930	750	613	287	235	218	133	341	200	9	22	2 A
KB 14 U6A	1400	500	550-1780	1200x400x42-62	930	750	613	315	295	213	133	341	200	9	26	2 A
KB 14 U3NA	1400	500	430-1660	900x400x42-62	1050	750	613	279	203	222	133	341	200	9	20	2 A
KB 14 U4NA	1400	500	430-1660	1000x400x42-62	1050	750	613	292	233	218	133	341	200	9	22	2 A
KB 14 U6NA	1400	500	430-1660	1200x400x42-62	1050	750	613	317	292	213	133	341	200	9	26	2 A
KB 18 U3A	1800	500	610-1940	900x400x47-62	970	750	613	295	203	222	137	340	197	9	20	2 A
KB 18 U4A	1800	500	610-1940	1000x400x47-62	970	750	613	310	235	218	137	340	197	9	22	2 A
KB 18 U6A	1800	500	610-1940	1200x400x47-62	970	750	613	338	295	213	137	340	197	9	26	2 A
KB 18 U3NA	1800	500	440-1730	900x400x47-62	1100	750	613	302	202	222	137	340	197	9	20	2 A
KB 18 U4NA	1800	500	440-1730	1000x400x47-62	1100	750	613	316	233	218	137	340	197	9	22	2 A
KB 18 U6NA	1800	500	440-1730	1200x400x47-62	1100	750	613	341	292	213	137	340	197	9	26	2 A
KB 22 U3A	2200	500	610-1940	900x400x47-62	970	750	613	304	200	222	140	338	195	9	20	2 A
KB 22 U4A	2200	500	610-1940	1000x400x47-62	970	750	613	320	230	218	140	338	195	9	22	2 A
KB 22 U6A	2200	500	610-1940	1200x400x47-62	970	750	613	349	290	213	140	338	195	9	26	2 A
KB 22 U3NA	2200	500	440-1730	900x400x47-62	1100	750	613	311	198	222	140	338	195	9	20	2 A
KB 22 U4NA	2200	500	440-1730	1000x400x47-62	1100	750	613	326	228	218	140	338	195	9	22	2 A
KB 22 U6NA	2200	500	440-1730	1200x400x47-62	1100	750	613	352	286	213	140	338	195	9	26	2 A
KB 28 U3B	2800	500	610-1940	900x400x47-62	970	750	715	330	185	248	150	383	240	20	20	3 A
KB 28 U4B	2800	500	610-1940	1000x400x47-62	970	750	715	345	215	244	150	383	240	20	22	3 A
KB 28 U6B	2800	500	610-1940	1200x400x47-62	970	750	715	370	275	239	150	383	240	20	26	3 A
KB 28 U3NB	2800	500	440-1770	900x400x47-62	1100	750	715	338	182	248	150	383	240	20	20	3 A
KB 28 U4NB	2800	500	440-1770	1000x400x47-62	1100	750	715	353	212	244	150	383	240	20	22	3 A
KB 28 U6NB	2800	500	440-1770	1200x400x47-62	1100	750	715	378	270	239	150	383	240	20	26	3 A

Notes:

E= arm thickness with rubber.
T= arm thickness at the base with rubber.

Standard fittings:

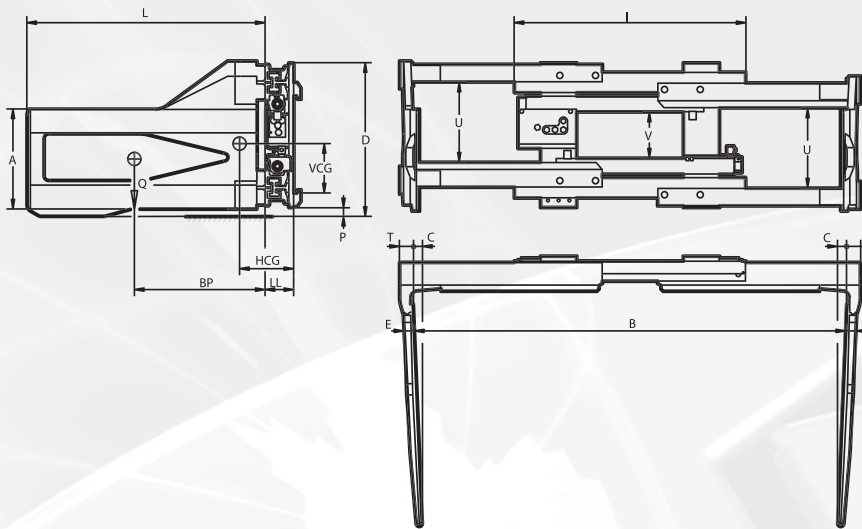
One hydraulic function required.
Pressure relief valve.
Check valve with power regeneration hydraulic circuit (for KB 10 – 22).
Arms welded directly to the guides.
Replaceable rubber facing.

On request:

Also available in 360° rotating version.
Different openings.
Separate sideshift.
Arms of different dimensions.
Load backrest.
Pressure gauge.
Integral sideshift.

Box Clamps

Models KB-5



- Strong double T-profile frame.
- Arms with two interchangeable rubber stripes, bolted onto the arm.
- Rubber stripes with high friction coefficient for a firm grip at low pressure.
- Arms with wide central opening, for easier handling of boxes with handles.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Arms Toe-in	Mounting Class
	Q kg	BP mm	B mm	LxAxE-T mm	I	FL	D	W	HCG	VCG	LL	U	V	P	C	ISO 2328
KB 10 S2A	1000	500	550-1780	750x400x42-62	930	750	613	246	154	241	130	343	202	9	17	2 A
KB 10 S3A	1000	500	550-1780	900x400x42-62	930	750	613	264	200	231	130	343	202	9	20	2 A
KB 10 S4A	1000	500	550-1780	1000x400x42-62	930	750	613	277	230	226	130	343	202	9	22	2 A
KB 10 S2NA	1000	500	430-1660	750x400x42-62	1050	750	613	251	152	241	130	343	202	9	17	2 A
KB 10 S3NA	1000	500	430-1660	900x400x42-62	1050	750	613	269	198	231	130	343	202	9	20	2 A
KB 10 S4NA	1000	500	430-1660	1000x400x42-62	1050	750	613	282	227	226	130	343	202	9	22	2 A
KB 14 S3A	1400	500	550-1780	900x400x42-62	930	750	613	264	200	231	133	341	200	9	20	2 A
KB 14 S4A	1400	500	550-1780	1000x400x42-62	930	750	613	277	230	226	133	341	200	9	22	2 A
KB 14 S6A	1400	500	550-1780	1200x400x42-62	930	750	613	302	290	220	133	341	200	9	26	2 A
KB 14 S3NA	1400	500	430-1660	900x400x42-62	1050	750	613	269	198	231	133	341	200	9	20	2 A
KB 14 S4NA	1400	500	430-1660	1000x400x42-62	1050	750	613	282	227	226	133	341	200	9	22	2 A
KB 14 S6NA	1400	500	430-1660	1200x400x42-62	1050	750	613	307	286	220	133	341	200	9	26	2 A
KB 18 S3A	1800	500	610-1940	900x400x47-62	970	750	613	285	198	251	137	340	197	9	20	2 A
KB 18 S4A	1800	500	610-1940	1000x400x47-62	970	750	613	300	230	246	137	340	197	9	22	2 A
KB 18 S6A	1800	500	610-1940	1200x400x47-62	970	750	613	325	290	238	137	340	197	9	26	2 A
KB 18 S3NA	1800	500	440-1730	900x400x47-62	1100	750	613	291	196	251	137	340	197	9	20	2 A
KB 18 S4NA	1800	500	440-1730	1000x400x47-62	1100	750	613	306	227	246	137	340	197	9	22	2 A
KB 18 S6NA	1800	500	440-1730	1200x400x47-62	1100	750	613	331	286	238	137	340	197	9	26	2 A
KB 22 S3A	2200	500	610-1940	900x400x47-62	970	750	613	294	194	251	140	338	195	9	20	2 A
KB 22 S4A	2200	500	610-1940	1000x400x47-62	970	750	613	310	225	246	140	338	195	9	22	2 A
KB 22 S6A	2200	500	610-1940	1200x400x47-62	970	750	613	336	285	238	140	338	195	9	26	2 A
KB 22 S3NA	2200	500	440-1730	900x400x47-62	1100	750	613	300	191	251	140	338	195	9	20	2 A
KB 22 S4NA	2200	500	440-1730	1000x400x47-62	1100	750	613	316	222	246	140	338	195	9	22	2 A
KB 22 S6NA	2200	500	440-1730	1200x400x47-62	1100	750	613	342	281	238	140	338	195	9	26	2 A

Notes:

E= arm thickness with rubber.

T= arm thickness at the base with rubber.

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Check valve with power regeneration hydraulic circuit.

Arms welded directly to the guides.

On request:

Also available in 360° rotating version.

Different openings.

Separate sideshift.

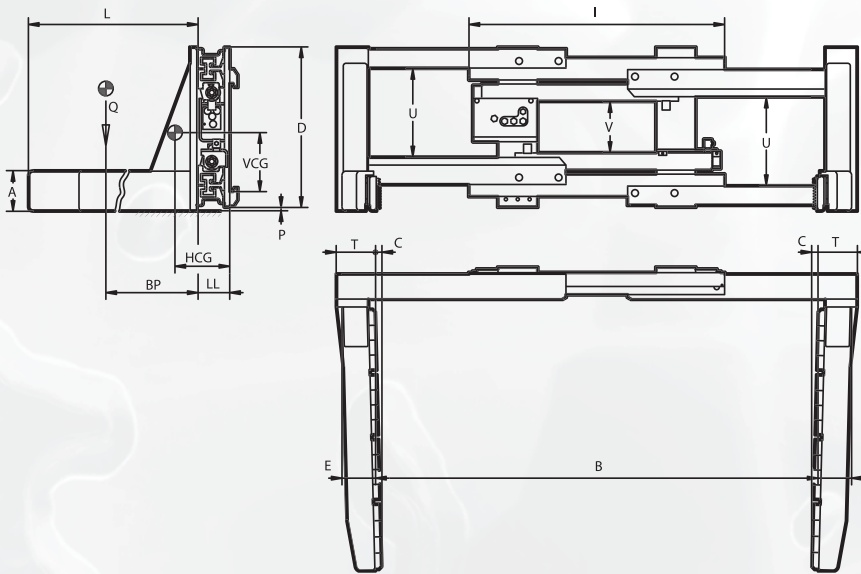
Arms of different dimensions.

Load backrest.

Pressure gauge.

Integral sideshift.

Block Clamps With Autocompensating Pads Models KB-K



- Strong double T-profile frame.
- Used in industries producing concrete blocks.
- Arms fitted with self-aligning vulkan blocks, "floating" on a chamber filled with glycerine (incompressible material with low freezing temperature) to compensate load irregularities.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Arms Toe-in	Mounting Class
	Q	BP	B	LxAxE-T	I	FL	D	W	HCG	VCG	LL	U	V	P	C	ISO
	kg	mm	mm	mm	mm	mm	mm	kg	mm	mm	mm	mm	mm	mm	mm	2328
KB 14 K4A	1400	500	400-1630	1000x155x130-135	930	750	613	370	290	145	114	341	200	9	20	2 A
KB 18 K4A	1800	500	430-1890	1000x155x135-150	1100	750	613	387	280	145	119	340	197	9	20	2 A
KB 22 K4A	2200	500	430-1890	1000x155x135-150	1100	750	613	396	278	145	121	338	195	9	20	2 A
KB 22 K6A	2200	500	430-1890	1200x155x135-150	1100	750	613	412	310	140	121	338	195	9	24	2 A
KB 28 K4B	2800	500	430-1890	1000x155x135-150	1100	750	715	445	268	153	130	383	240	20	20	3 A
KB 28 K6B	2800	500	430-1890	1200x155x135-150	1100	750	715	470	300	148	130	383	240	20	24	3 A
KB 35 K4B	3500	500	510-2010	1000x160x140-170	1250	1050	715	500	232	153	148	377	206	20	20	3 A
KB 35 K6B	3500	500	510-2010	1200x160x140-170	1250	1050	715	525	245	148	148	377	206	20	24	3 A

Notes:

E= arm thickness at half length.

T= arm thickness at the base.

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Check valve with power regeneration hydraulic circuit (for KB 14 – 22).

Arms welded directly to the guides.

Pressure gauge.

On request:

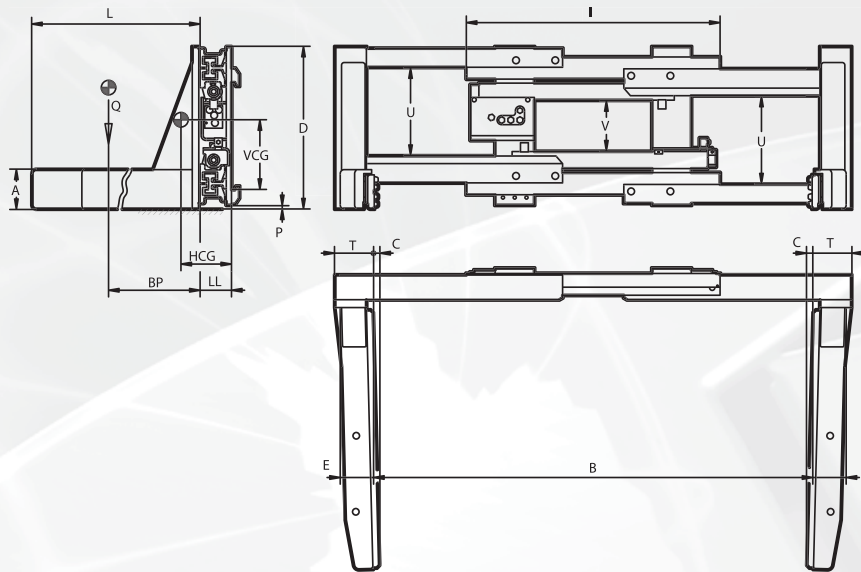
Different openings.

Separate sideshift.

Integral sideshift.

Block Clamps With Oscillating Pads

Models KB-A



- Strong double T-profile frame.
- Used in industries producing concrete blocks.
- Arms fitted with oscillating contact pads with replaceable rubber pads.
- Arms equipped with an oscillation regulator with two positions plus a third fixed position, to suit different loads.
- Reduced weight, effective thickness and centre of gravity.
- Excellent visibility.

Model	Capacity	Load Centre		Opening Range	Arm Dimensions <i>LxAxE-T</i> mm	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Arms Toe-in	Mounting Class
	<i>Q</i> kg	<i>BP</i> mm	<i>B</i> mm			<i>I</i> mm	<i>FL</i> mm	<i>D</i> mm	<i>W</i> kg	<i>HCG</i> mm	<i>VCG</i> mm	<i>LL</i> mm	<i>U</i> mm	<i>V</i> mm	<i>P</i> mm	<i>C</i> mm	<i>ISO</i> 2328
KB 14 A4A	1400	500	400-1630	1000x150x130-135	930	750	604	410	320	125	114	341	200	9	20	2 A	
KB 18 A4A	1800	500	430-1890	1000x150x135-150	1100	750	604	427	310	125	119	340	197	9	20	2 A	
KB 22 A4A	2200	500	430-1890	1000x150x135-150	1100	750	604	436	308	125	121	338	195	9	20	2 A	
KB 22 A6A	2200	500	430-1890	1200x150x135-150	1100	750	604	452	345	120	121	338	195	9	24	2 A	
KB 28 A4B	2800	500	430-1890	1000x150x135-150	1100	750	695	485	298	133	130	383	240	20	20	3 A	
KB 28 A6B	2800	500	430-1890	1200x150x135-150	1100	750	695	510	335	128	130	383	240	20	24	3 A	
KB 35 A4B	3500	500	510-2010	1000x150x140-170	1250	1050	695	540	252	133	148	377	206	20	20	3 A	
KB 35 A6B	3500	500	510-2010	1200x150x140-170	1250	1050	695	565	280	128	148	377	206	20	24	3 A	

Notes:

E= arm thickness at half length.

T= arm thickness at the base.

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Check valve with power regeneration hydraulic circuit (for KB 14 – 22).

Arms welded directly to the guides.

On request:

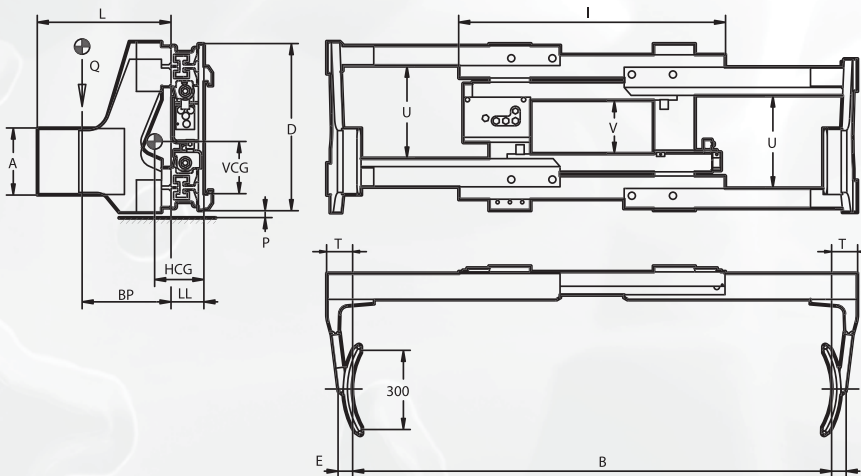
Different openings.

Separate sideshift.

Integral sideshift.

Clamps For 1-2 Drums

Models KB-T2



- Strong double T-profile frame.
- Designed to handle standard steel oil drums.
- Arms fitted with interchangeable rubber stripes, to avoid damage to drums.
- Check valve with pressure relief and gauge.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre		Opening Range	Arm Dimensions	Frame Width		Minimum Carriage Width	Height	Weight	Centre of Gravity		Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm	B mm			LxAxE-T mm	I mm				FL mm	HCG mm					
KB 08 T2A	700	320	460-1560	470x240x42-70	870	750	613	262	139	226	112	343	202	9	2 A		
KB 10 T2A	1000	320	460-1560	470x240x42-70	870	750	613	270	143	220	114	341	200	9	2 A		

Notes:

E= arm thickness with rubber

T= arm thickness at the base with rubber.

Standard fittings:

One hydraulic function required.

Check valve with power regeneration hydraulic circuit.

Arms welded to the guides.

Pressure gauge.

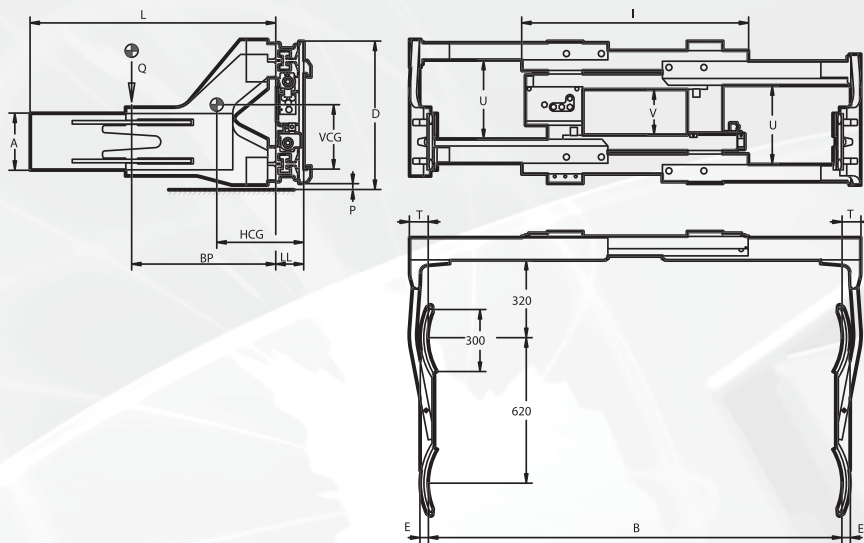
On request:

Separate sideshift.

Integral sideshift.

Clamps For 2-4 Drums

Models KB-T4



- Strong double T-profile frame.
- Designed to handle standard steel oil drums.
- Arms fitted with interchangeable rubber stripes, to avoid damage to drums.
- Check valve with pressure relief and gauge.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm	B mm	LxAxE-T mm	I mm	FL mm	D mm	W kg	HCG mm	VCG mm	LL mm	U mm	V mm	P mm	ISO 2328
KB 08 T4A	800	630	440-1540	1090x240x32-80	870	750	613	327	345	213	112	343	202	9	2 A
KB 12 T4A	1200	630	440-1540	1090x240x32-80	870	750	613	338	350	208	114	341	200	9	2 A

Notes:

E= arm thickness with rubber.

T= arm thickness at the base with rubber.

Standard fittings:

One hydraulic function required.

Check valve with power regeneration hydraulic circuit .

Arms welded to the guides.

Pressure gauge.

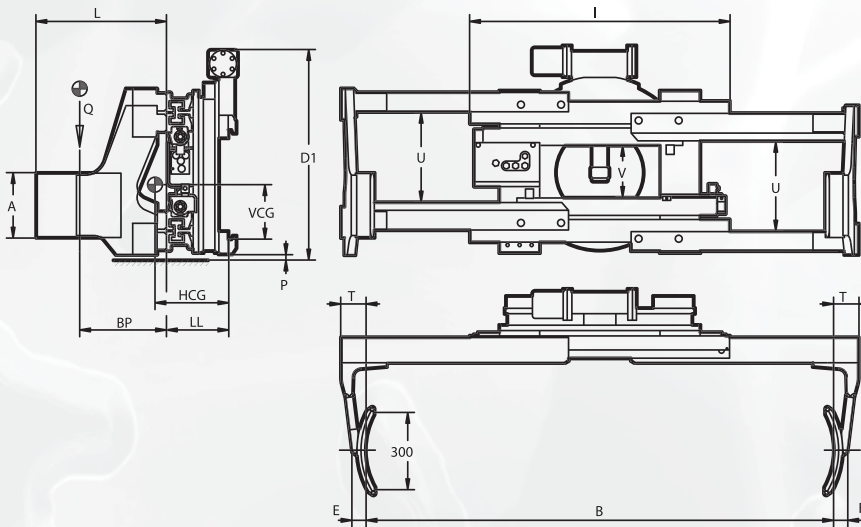
On request:

Separate sideshift.

Integral sideshift.

360° Rotating Clamps For 1-2 Drums

Models KG-T2



- 360° continuous rotation in both directions.
- Strong double T-profile frame.
- Designed to handle standard steel oil drums.
- Arms fitted with interchangeable rubber stripes, to avoid damage to drums.
- Check valve with pressure relief and gauge.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q	BP	B	LxAxE-T	I	FL	D1	W	HCG	VCG	LL	U	V	P	ISO
	kg	mm	mm	mm	mm	mm	mm	kg	mm	mm	mm	mm	mm	mm	2328
KG 06 T2A	600	320	460-1560	470x240x42-70	870	690	744	445	179	262	229	341	200	9	2 A
KG 10 T2A	1000	320	460-1560	470x240x42-70	870	690	744	455	179	257	231	341	200	9	2 A

Notes:

E= arm thickness with rubber.

T= arm thickness at the base with rubber.

Standard fittings:

Two hydraulic functions required.

Power regeneration hydraulic circuit.

Special check valve.

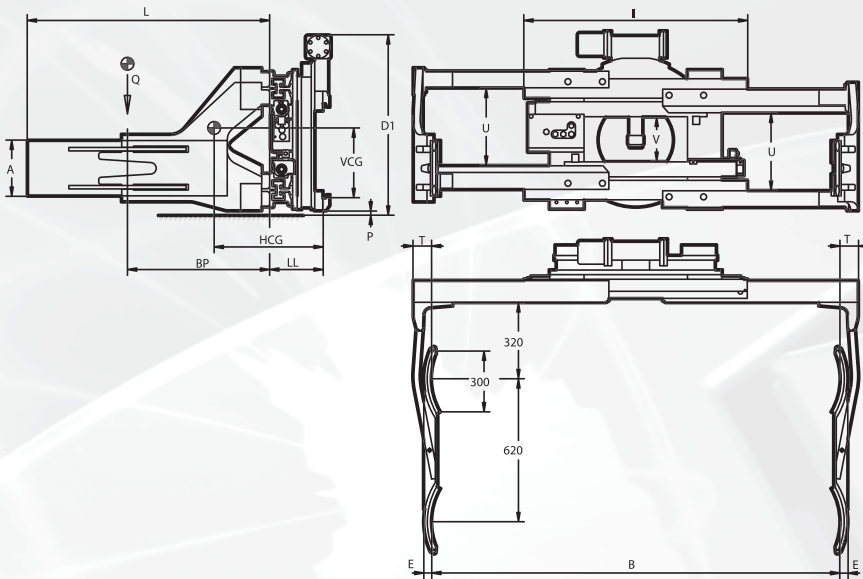
Arms welded to the guides.

On request:

Separate sideshift.

360° Rotating Clamps For 2-4 Drums

Models KG-T4



- 360° continuous rotation in both directions
- Strong double T-profile frame.
- Designed to handle standard steel oil drums.
- Arms fitted with interchangeable rubber stripes, to avoid damage to drums.
- Check valve with pressure relief and gauge.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre	Opening Range	Arm Dimensions	Frame Width	Minimum Carriage Width	Height	Weight	Centre of Gravity Horizontal	Centre of Gravity Vertical	Effective Thickness	Side Visibility	Central Visibility	Ground Clearance	Mounting Class
	Q kg	BP mm	B mm	LxAxE-T mm	I mm	FL mm	D1 mm	W kg	HCG mm	VCG mm	LL mm	U mm	V mm	P mm	ISO 2328
KG 08 T4A	800	630	440-1540	1090x240x32-80	870	690	744	497	318	257	229	343	202	9	2 A
KG 12 T4A	1200	630	440-1540	1090x240x32-80	870	690	744	508	321	251	231	341	200	9	2 A

Notes:

E= arm thickness with rubber

T= arm thickness at the base with rubber.

Standard fittings:

Two hydraulic functions required

Power regeneration hydraulic circuit.

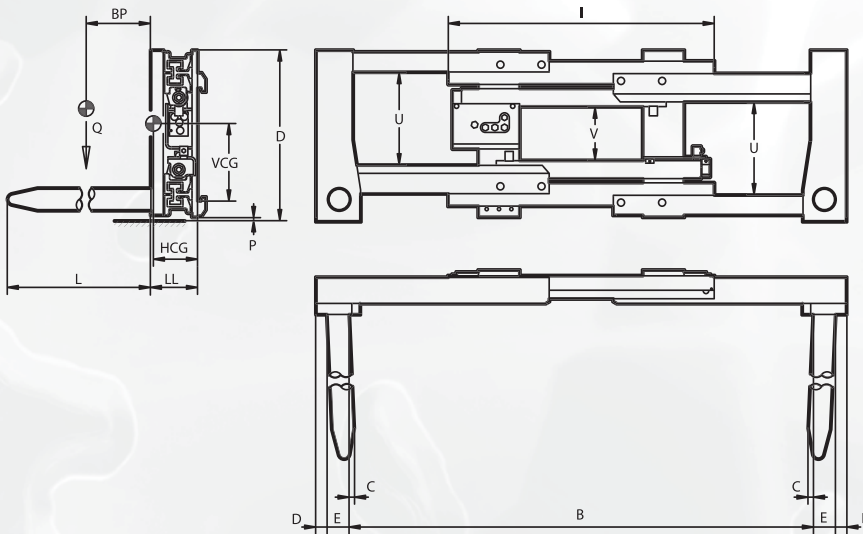
Special check valve.

Arms welded to the guides.

On request:

Separate sideshift.

Bar Arm Clamps Models KB-R



- Strong double T-profile frame.
- Excellent visibility.
- Equipped with round arms for handling of horizontal cylindrical loads.
- Reduced weight, effective thickness and centre of gravity.

Model	Capacity	Load Centre		Opening Range	Arm Dimensions L x E x D mm	Frame Width I mm	Minimum Carriage Width FL mm	Height D mm	Weight W kg	Centre of Gravity		Effective Thickness LL mm	Side Visibility U mm	Central Visibility V mm	Ground Clearance P mm	Arms Toe-in C mm	Mounting Class ISO 2328
	Q kg	BP mm	B mm							HCG mm	VCG mm						
KB 14 R5A	1400	500	460-1690	1070x80x25	930	750	613	270	173	180	169	341	200	9	11	2 A	
KB 14 R6A	1400	500	460-1690	1270x80x25	930	750	613	279	206	175	169	341	200	9	13	2 A	
KB 18 R5A	1800	500	520-1850	1070x80x25	970	750	613	295	171	180	177	340	197	9	11	2 A	
KB 18 R6A	1800	500	520-1850	1270x80x25	970	750	613	303	202	175	177	340	197	9	13	2 A	
KB 18 R8A	1800	500	520-1850	1500x80x25	970	750	613	312	240	167	177	340	197	9	16	2 A	
KB 22 R5A	2200	500	520-1850	1070x80x25	970	750	613	305	167	180	179	338	195	9	11	2 A	
KB 22 R6A	2200	500	520-1850	1270x80x25	970	750	613	313	198	175	179	338	195	9	13	2 A	
KB 22 R8A	2200	500	520-1850	1500x80x25	970	750	613	322	235	167	179	338	195	9	16	2 A	
KB 28 R5B	2800	500	490-1820	1070x90x30	970	750	715	372	185	177	198	383	240	20	11	3 A	
KB 28 R6B	2800	500	490-1820	1270x90x30	970	750	715	382	215	172	198	383	240	20	13	3 A	
KB 28 R8B	2800	500	490-1820	1500x90x30	970	750	715	394	255	164	198	383	240	20	16	3 A	
KB 35 R5B	3500	500	590-2090	1070x100x30	1250	1050	715	550	182	172	216	377	206	20	11	3 A	
KB 35 R6B	3500	500	590-2090	1270x100x30	1250	1050	715	562	207	167	216	377	206	20	13	3 A	
KB 35 R8B	3500	500	590-2090	1500x100x30	1250	1050	715	575	240	160	216	377	206	20	16	3 A	
KB 40 R5B	4000	500	590-2090	1070x100x30	1250	1050	715	565	178	172	218	375	204	20	11	3 A	
KB 40 R6B	4000	500	590-2090	1270x100x30	1250	1050	715	577	203	167	218	375	204	20	13	3 A	
KB 40 R8B	4000	500	590-2090	1500x100x30	1250	1050	715	590	235	160	218	375	204	20	16	3 A	

Standard fittings:

One hydraulic function required.

Pressure relief valve.

Check valve with power regeneration hydraulic circuit (for KB 14 – 22).

On request:

Separate sideshift.

Special arm lengths.

Pressure gauge.

Special openings.

Integral sideshift.

Clamps

Technical Information

Oil flow rate recommendations

Model	Oil Flow Rate, Clamp			Oil Flow Rate, Rotator		
	Minimum l/min	Recommended l/min	Maximum l/min	Minimum l/min	Recommended l/min	Maximum l/min
Non-rotating clamps						
KB 10 / 14	12	20	25	-	-	-
KB 18 / 22	15	25	30	-	-	-
KB 28	20	30	45	-	-	-
KB 35 / 40	20	35	50	-	-	-
B 400	40	50	60	-	-	-
BA 50 / 65 / 80	60	70	80	-	-	-
BA 65	60	70	80	-	-	-
BA 80	60	70	80	-	-	-
Rotating clamps						
KG 10 / 14	12	20	25	15	25	35
KG 18 / 22	15	25	30	25	35	45
KG 28	20	30	45	35	60	75
KG 35 / 40	20	35	50	35	60	75
KG 40 HC	30	40	50	40	50	60
KG 45 HC	30	40	50	40	50	60
KG 60 HC	45	60	75	40	50	60
KG 65 HC	45	60	75	40	60	75
KG F5	30	40	50	30	40	50
KG F6	30	40	50	35	45	55

Hydraulic functions and hydraulic pressure recommendations

Model	Clamping Pressure		Distributor Pressure	Rotation Pressure		Distributor Pressure	Hydraulic Functions
	Minimum MPa	Maximum MPa	Maximum MPa	Minimum MPa	Maximum MPa	Maximum MPa	
Non-rotating clamps							
KB 10 / 14	4,0	16,0	23,0	-	-	-	1
KB 18 / 22	4,5	16,0	23,0	-	-	-	1
KB 28	5,0	16,0	23,0	-	-	-	1
KB 35 / 40	5,0	16,0	23,0	-	-	-	1
B 400	5,0	16,0	16,0	-	-	-	2
BA 50 / 65 / 80	5,0	16,0	16,0	-	-	-	2
BA 65	5,0	16,0	16,0	-	-	-	2
BA 80	5,0	16,0	16,0	-	-	-	2
Rotating clamps							
KG 10	4,0	16,0	23,0	10,0	12,0	25,0	2
KG 14	4,0	16,0	23,0	10,0	12,0	25,0	2
KG 18	4,5	16,0	23,0	10,0	12,0	25,0	2
KG 22	4,5	16,0	23,0	10,0	12,0	25,0	2
KG 28	5,0	16,0	23,0	10,0	12,0	23,0	2
KG 35	5,0	16,0	23,0	10,0	12,0	23,0	2
KG 40	5,0	16,0	23,0	10,0	12,0	23,0	2
KG 40HC	10,0	15,0	23,0	13,0	17,0	23,0	2
KG 45HC	10,0	15,0	23,0	13,0	17,0	23,0	2
KG 60HC	10,0	15,0	23,0	13,0	17,0	23,0	2
KG 65HC	10,0	15,0	23,0	13,0	17,0	23,0	2
KG F5	10,0	15,0	50,0	13,0	17,0	50,0	2
KG F6	10,0	15,0	50,0	13,0	17,0	50,0	2

Integral Sideshift (Series KB Clamps only)

Integral sideshift is actuated by hydraulically moving the clamping arms to the same direction. A special sideshift valve is required as well as one additional hydraulic function from the lift truck hydraulic system. Other technical properties of the clamp remain unchanged. Due to the operation principle, integral sideshift is not possible when the clamping arms are in a totally open

Separate Sideshift (Series KB Clamps only)

Separate sideshift requires a sideshift device to be mounted to the clamp body. A separate sideshifter provides a fixed amount of sideshift stroke regardless of the clamp opening. This enables faster and safer handling in confined spaces.

A Bolzoni Auramo Series AS separate sideshifting mounting replaces the standard clamp mounting hooks and can be directly bolted onto the standard series KB clamps.

Series AS sideshifters are light and have a minimized effective thickness. Therefore they ensure maximum lifting capacity for the lift truck.

Sideshift stroke 100 + 100 mm.

Notes:

One hydraulic function is required.

Available also with lower quick disconnect hooks.

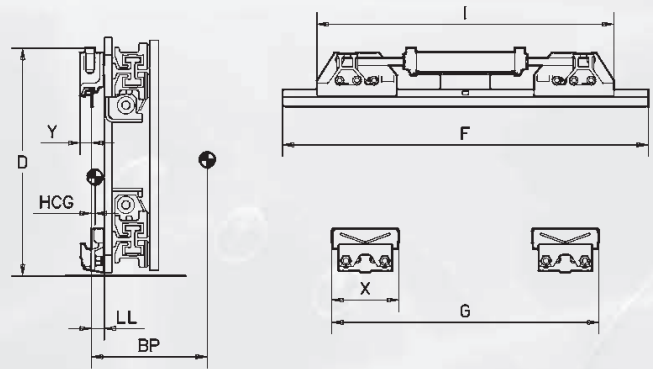
or closed position. Under certain conditions a sideshift exceeding ± 100 mm may be possible.

Clamp models

KB (all models)

B (all models)

BA (all models)



Model	Capacity	Load Centre	Frame Width	Height	Centre of Gravity Horizontal	Minimum Carriage Width	Weight	Effective Thickness	Ground Clearance	Upper Hook Width	Ext. Lower Hook Width	Lower Hook Width	Rear Body Protrusion	Cylinder Body Height	Mounting Class
	Q kg	BP mm	I mm	D mm	HCG mm	FL mm	W kg	LL mm	P mm	F mm	G mm	X mm	Y mm	Z mm	ISO 2328

For Parallel Clamps

AS 22 KXA	2200	500	780	586	5	960	24	34	9	960	700	176	30	113	2 A
AS 22 KNA	2200	500	980	586	5	1100	24	34	9	1060	900	176	30	113	2 A
AS 28 KXB	2800	500	835	715	6	1050	37	43	20	1020	740	196	37	147	3 A
AS 40 KXB	4000	500	1040	715	5	1200	44	43	20	1200	1060	196	37	147	3 A

	Oil flow – L/min			Oil pressure – MPa			Hydraulic Functions
	Min	Recom- mended	Max	Min	Max	Max to distributor	
	AS 22	4	10	15	12.0	22.0	
AS 28-40	6	12	20	12.0	22.0	25.0	1

Separate Sideshift (series KG clamps only)

Consult Bolzoni Auramo regarding technical specifications.

Model

ISO 2328 1

ISO 2328 2

ISO 2328 3

Clamps

Accessories and Options

General Options

Model

Special opening ranges

Special frame widths

Special arm lengths

Special arm heights

Bolt-on arms

Special fork lengths

Special fork sizes

Bolt-on forks

Load backrest

Oscillating forks (KG-E F)

360-Degree Rotation

Clamp model

Multipurpose Clamps (KB-U)

Box Clamps (KB-S)

Quick-Change Arms

Quick-change arms enable fast and easy arm change. The clamp body can be used with several sets of different arms. The arm carriers and arms are fitted with special patented "dove tail" slides, which enable a simple arm change by simply slipping the arms off from the clamp body. Consult Bolzoni Auramo for technical specifications.

Clamp body

KB 10 – 14

KB 18 – 22 – 28

KB 35 – 40

Mounting Options

Non-standard or special mountings are not included in the attachment price. All mounting prices are add-on prices. For non-standard mounting, detailed information is required from customer.

ISO 2328 Mounting, Class B

Model

On request

Quick-Change ISO 2328 Lower Mounting Hooks

Model

Series KB / KG

ISO 2328 2/3

Series B / BA / BP

ISO 2328 4

Non-standard mounting class

Model

ISO 2328 2 -> 3

ISO 2328 3 -> 4

ISO 2328 2 -> 3 (QC)

ISO 2328 3 -> 4 (QC)

Pre-FEM hooking

Model

On request

Hydraulic Options Hydraulic Couplings

Model

On request

Installation Kit (Connection Hoses)

Model

On request

Four stage pressure-relief valve

For certain types of handling, i.e.: electrical appliances or other boxed articles, it is recommended to use a pressure-relief valve having four predetermined positions. This valve enables easy clamping force setting to suit the type of load.

Model

On request

Independent arm control valve

In some cases the arms must be capable of moving independently; this can be made possible by a special valve.

Model

On request

Flow divider valve for synchronized arm movement

Equal arm movement during clamping or opening. Provides equal oil flow to the clamping cylinders.

Model

On request

Pressure gauge

Model

On request