

TIGRIP®

Load Hoisting Tackle and Crane Weighers



Catalogue 12



Tel. 936 926 000

**Yale Industrial
Products**



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for the transport of sheet metal, steel plates, profiles and steel constructions



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Plate clamp

TBL

Plate clamp with safety lock

Working load limit (WLL) 0,5 - 3 t

This clamp is primarily used for transporting individual sheet metal and steel plates in the vertical position, as well as lifting and rotating through 180°.

This clamp can also be used for transporting steel constructions and profiles. It is recommended to use a pair of plate clamps in conjunction with a spreader beam for large sized steel and long materials which have a tendency to sag.

Function

The jaw can be opened and closed with the locking lever (except for the TBL 0,5 t which uses a positive spring-loaded cam).

The safety lock overrides the spring-loaded cam, preventing the clamp from opening even when there is no load.

Workmanship and Parts

This plate clamp is service-friendly, making it easy to exchange parts, which are available individually or in kits. Clamp repair is available through the factory, or can be done by certified and experienced staff.

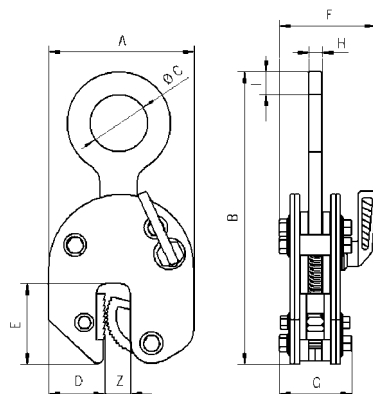
The TBL 0,5 is equipped with a safety lock (positive spring-loaded cam), but comes without locking lever.



TBL 0,5 t

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TBL 0,5	0,5	0 - 16	1,5	99	195	29	33	47	50	48	11	16	5010.0051
TBL 1,0	1,0	0 - 20	3,0	126	225	50	49	70	82	55	12	20	5010.0052
TBL 2,0	2,0	0 - 32	9,3	192	312	80	75	96	100	81	20	24	5010.0053
TBL 3,0	3,0	0 - 32	9,3	192	312	80	75	96	100	81	20	24	5010.0054

The plate surface of the material must have a hardness level below HRC 30/Brinell 300!



TBL Plate clamp

Working load limit 1 - 3 t

Plate clamp TBL

Plate clamp with safety lock

Working load limit (WLL) 4 - 30 t

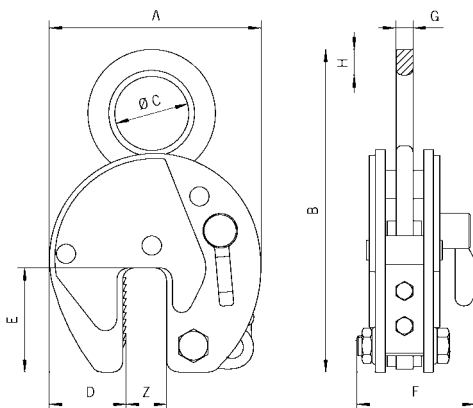
These plate clamps have the same design and applications as the clamps on page 4.



TBL Plate clamp
Working load limit 4 - 30 t



TBL 4 - 30 t



The plate surface of the material must have a hardness level below HRC 30/Brinell 300!

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	Article number
TBL 4,0 S	4,0	0 - 32	12,0	197	339	80	68	93	110	20	32	5010.0005
TBL 4,0 L	4,0	30 - 60	18,0	228	339	80	68	100	110	20	32	5010.0006
TBL 6,0 S	6,0	0 - 50	21,0	293	442	89	95	143	129	20	35	5010.0021
TBL 6,0 L	6,0	50 - 100	28,0	362	482	89	114	143	129	20	35	5010.0008
TBL 8,0 S	8,0	0 - 50	26,0	293	450	89	95	143	129	20	42	5010.0022
TBL 8,0 L	8,0	50 - 100	32,0	362	482	89	114	143	129	20	42	5010.0023
TBL 10,0 S	10,0	0 - 50	30,0	293	503	110	95	143	139	25	45	5010.0024
TBL 10,0 L	10,0	50 - 100	37,0	362	503	110	114	143	139	25	45	5010.0025
TBL 12,0 S	12,0	0 - 50	54,0	360	550	130	125	162	154	30	55	5010.0026
TBL 12,0 L	12,0	50 - 100	64,0	460	615	130	175	162	154	30	55	5010.0027
TBL 15,0 S	15,0	0 - 50	73,0	360	550	130	125	162	204	45	55	5010.0015
TBL 15,0 L	15,0	50 - 100	87,0	460	615	130	175	162	204	45	55	5010.0016
TBL 20,0 S	20,0	0 - 65	123,0	462	674	130	165	210	235	45	65	5010.0017
TBL 20,0 L	20,0	65 - 130	135,0	560	724	130	195	210	235	45	65	5010.0018
TBL 30,0 S	30,0	0 - 65	195,0	462	667	60	165	210	295	65	66	5010.0019
TBL 30,0 L	30,0	65 - 130	256,0	560	732	60	195	210	295	65	67	5010.0020

Plate clamp TBS



TBS 1 - 3 t

Plate clamp with pivoting shackle and safety lock

Working load limit (WLL) 1 - 3 t

The TBS plate clamp with pivoting shackle can be used for the safe handling of plate at various angles. It can lift plate from the horizontal and put down in the vertical or alternatively lift it over the edge by gripping it from the side. The pivoting shackle ensures adequate gripping pressure in every position, but the load capacity is reduced, as seen on the diagram below showing the load/force capacities.

This clamp features a **safety lock mechanism**. When in the locked closed position, the positive spring pressure provides enough clamping pressure to safely hold plate material even when there is no load. The "lock open" feature allows the clamping jaws to be kept in an open state, thereby simplifying the positioning of the clamp onto plate material.

Aside from transporting plate, this clamp is well-suited to turning over steel structures and welded constructions.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TBS 1,0	1,0	0 - 20	4,6	126	270	50	49	70	95	63	12	23	5020.0302
TBS 2,0	2,0	0 - 32	14,0	192	382	80	75	96	132	92	20	30	5020.0303
TBS 3,0	3,0	0 - 32	14,0	192	382	80	75	96	132	92	20	30	5020.0304

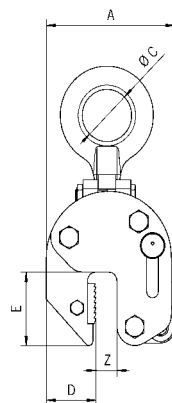
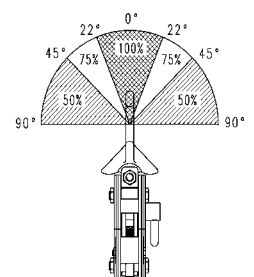
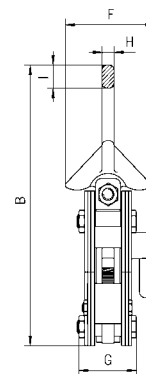
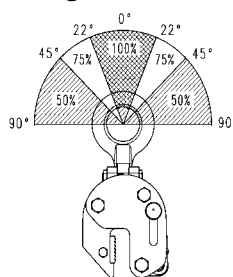


Diagram of forces



The plate surface must have a hardness below HRC 30/Brinell 300!

Plate clamp TBS

Plate clamp with pivoting shackle and safety lock

Working load limit (WLL) 4,5 - 10 t

The pivoting shackle has the added advantage of providing enough clamping force to hold a plate safely, even when transporting large-sized plates with the 2-legged lifting system. Slipping or damage to the clamp is prevented. Please see the forces diagram below.



The plate surface of the material must have a hardness below HRC 30/Brinell 300!

TBS 4,5 - 10 t

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TBS 4,5	4,5	0 - 50	33,0	292	675	90	180	27,8	95	143	135	185	5020.0309
TBS 6,0 S	6,0	0 - 50	38,0	292	737	95	176	27,8	95	143	137	188	5020.0305
TBS 6,0 L	6,0	50 - 100	42,0	367	785	98	180	27,8	115	143	135	188	5020.0306
TBS 8,0 S	8,0	0 - 50	39,0	292	737	98	176	27,8	95	143	136	210	5020.0307
TBS 8,0 L	8,0	50 - 100	51,0	367	785	98	180	27,8	115	143	136	210	5020.0310
TBS 10,0 S	10,0	0 - 50	61,0	360	903	110	195	33,0	125	162	170	223	5020.0308
TBS 10,0 L	10,0	50 - 100	76,0	446	921	112	195	33,0	168	162	170	223	5020.0311

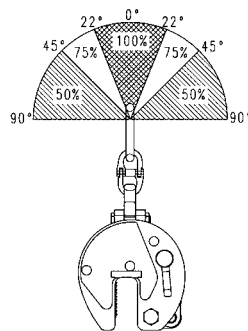
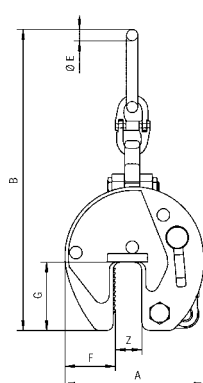
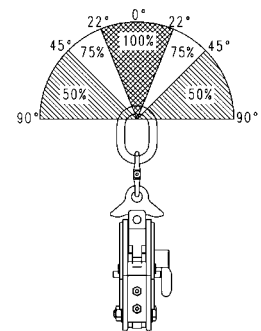
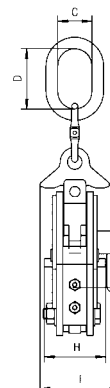


Diagram of forces



TIGRIP®

Universal grab

TAG



Universal grab

The universal grab TAG saves time, as it does not require chains, cables, etc. when hoisting and loading material. The large jaw capacity allows it to tackle a variety of sizes with only one clamp. It can be used for loading machine tools, steel constructions, welding, assembly duties, as well as for concrete and prefabricated pieces.

The automatic clamping force is retained by a positive tension spring, even if there is slack in the chain.

The "Quick-Open" type universal grab opens by lifting and simultaneously pulling the lever out against the tension spring. The jaw is closed using the tension spring.

Grabs up to 1,25 t WLL are available with a protective lining on the clamping jaws upon request. This results in a decrease of the jaw capacity by 10 mm.

The protective lining is not suitable for materials with dirty, oily or greasy surfaces.

Universal grabs up to 2,0 t WLL come with round chains, while the clamps with higher WLL come with flyer chains.

Universal grabs with other jaw capacities and shackles are available upon request.

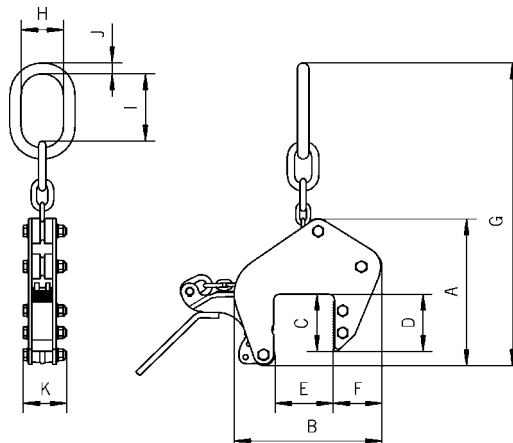
The plate surface of the material must not exceed a hardness of HRC 30/Brinell 300!



Tigrip universal grab as a special construction

with small outside measurements for use on hard to reach places (ex. lathe)

Model	Capacity	Jaw width mm	Jaw capacity mm	Weight kg	A	B	C	D	E	F	G	H	I	J	K	Article number
	t				mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	
TAG 0,35/100	0,35	100	0 - 100	9,0	264	259	128	100	100	85	550	75	121	20	78	5030.0801
TAG 0,35/200	0,35	200	90 - 200	14,0	382	434	195	156	200	120	760	75	121	20	90	5030.0802
TAG 0,75/100	0,75	100	0 - 100	9,0	264	259	128	100	100	85	550	75	121	20	83	5030.0803
TAG 0,75/200	0,75	200	90 - 200	15,0	382	434	195	156	200	120	760	75	121	20	90	5030.0804
TAG 1,25/100	1,25	100	0 - 100	15,0	320	289	128	100	100	85	570	75	121	20	83	5030.0805
TAG 1,25/200	1,25	200	90 - 200	26,0	382	434	195	156	200	120	760	75	121	20	90	5030.0806
TAG 2,0/100	2,00	100	0 - 100	22,0	328	415	135	115	100	105	571	75	121	20	105	5030.0807
TAG 2,0/200	2,00	200	90 - 200	30,0	375	515	195	165	200	160	750	75	121	20	105	5030.0808
TAG 3,0/90	3,00	90	5 - 90	25,5	297	290	136	106	90	91	570	82	111	32	137	5030.0809
TAG 5,0/90	5,00	90	5 - 90	30,0	297	290	136	106	90	91	570	82	111	32	147	5030.0810
TAG 5,0/170	5,00	170	80 - 170	44,0	354	423	180	155	170	118	620	82	111	32	147	5030.0811
TAG 10,0/100	10,00	100	0 - 100	70,0	405	423	160	130	100	160	720	102	144	40	208	5030.0812
TAG 10,0/200	10,00	200	100 - 200	101,0	440	562	200	175	200	183	840	102	144	40	208	5030.0813



Girder grab TTG



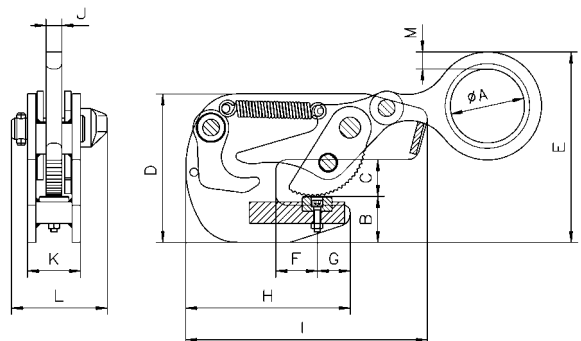
Girder grab for horizontal transport

The girder grab TTG is designed for the horizontal transport of girders, metal plates, profiles, etc. The offset suspension lug ensures that the flange of the girder will be kept practically horizontal during transport.

The positive safety lock keeps the clamp safely locked, even before the lift begins. This allows the operator to place the clamp, lock it closed and move away from the load. The lever ensures ease in opening and closing of the clamping jaw and has a "lock open" feature.

When transporting long girders, it is recommended to use a pair in conjunction with a spreader beam.

Model	Capacity t	Jaw capacity mm	Weight kg	Ø A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	M mm	Article number
TTG 0,5	0,5	0 - 20	3,0	20	36	25	148	200	27	20	95	110	10	56	85	13	5090.1950
TTG 1,5	1,5	0 - 30	6,0	70	43	35	140	180	40	30	155	230	15	50	100	16	5090.1951
TTG 3,0	3,0	0 - 35	12,0	80	55	42	180	214	40	32	190	284	20	60	114	20	5090.1952
TTG 4,5	4,5	0 - 40	16,0	90	60	46	196	248	40	35	207	314	20	64	117	25	5090.1953
TTG 7,5	7,5	0 - 45	28,0	110	64	55	222	304	50	42	237	367	22	90	143	30	5090.1954



Girder grab TTR

Girder grab for vertical transport

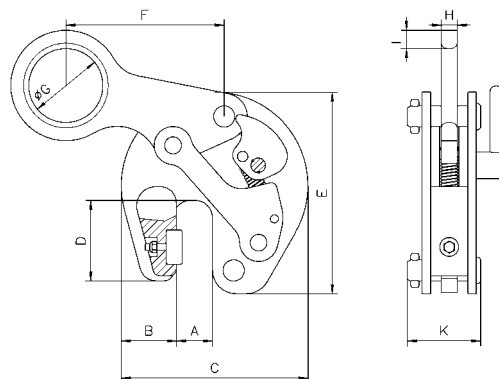
The girder grab TTR is designed for the vertical transport, especially the lifting, transfer and stacking of girders. The clamp's unique position of its offset suspension lug keeps the girder virtually in a vertical position during transport.

The positive safety lock holds the grab in place, even before the lift begins. This allows the operator to place the clamp, lock it closed and move away from the load. The lever ensures ease in opening and closing of the clamping jaw and has a "lock-open" feature.



When transporting long girders, it is recommended to use a pair in conjunction with a spreader beam.

Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	H mm	I mm	K mm	Article number
TTR 0,75	0,75	5 - 16	4,0	24	40	132	62	145	118	50	12	12	53	5170.2551
TTR 1,50	1,50	5 - 25	7,0	33	53	176	76	190	152	70	15	17	69	5170.2552
TTR 3,00	3,00	5 - 28	13,0	37	56	194	78	208	163	80	20	23	85	5170.2553



TIGRIP®

Girder grab TGT



Girder grab

for transport, stacking, and turning of girders

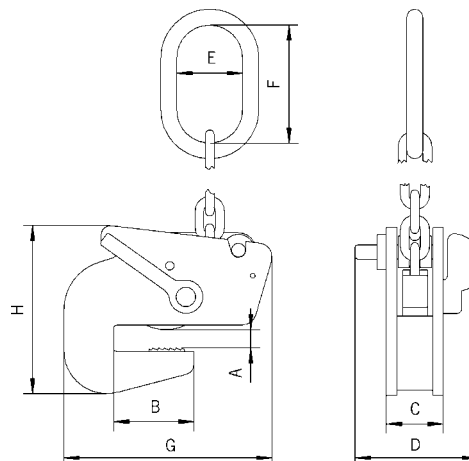
Application

The girder grab is suitable for the transport as well as the turning of all types of girders.

Function

The chain passing through the housing can be moved to allow a change to the center of gravity, so that the girder may be safely transported in different positions.

Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article number
TGT 1,5	1,5	5 - 15	7,0	15	80	55	126	60	110	154	188	5630.0001
TGT 3,0	3,0	5 - 20	14,0	20	90	64	138	74	134	233	189	5630.0002
TGT 4,5	4,5	10 - 30	19,0	30	122	80	162	90	160	277	247	5630.0003
TGT 7,5	7,5	10 - 35	35,0	35	138	100	179	89	178	426	370	5630.0004



Screw clamp for vertical and horizontal pulling

The screw clamp offers many possible applications. It is particularly useful for lifting, transferring and pulling sheet metal, girders and steel constructions.

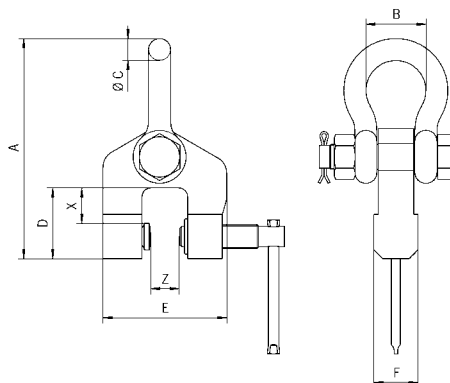
Please note that the spindle must be hand-tightened to the material.

Once the screw clamp is tightened and lifting begins, the pivoting pad clamping system produces a wedging action against the material, holding it securely.



The plate surface of the material must not exceed a hardness of HRC 30/Brinell 300!

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	X mm	Article number
TSH 1,5	1,5	0 - 32	7,0	255	65	26	75	130	44	40	5150.2401
TSH 3,0	3,0	0 - 50	11,0	290	74	30	85	170	50	40	5150.2402
TSH 5,0	5,0	0 - 80	27,0	470	130	50	135	225	72	50	5150.2403



Screw clamp TSD



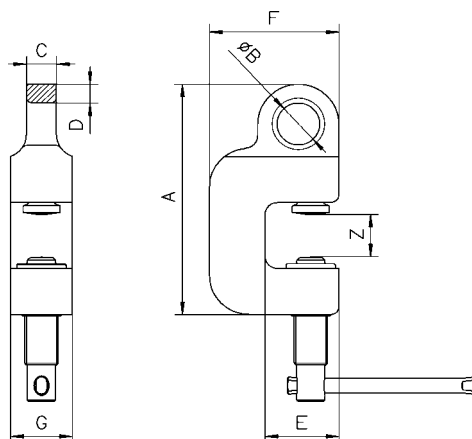
Screw clamp for lifting and pulling

The TSD screw clamp is a valuable asset when lifting, pulling and fitting sheet material as well as steel constructions.

Please note that the spindle must be hand-tightened to the material. When the screw clamp is tightened and lifting begins, the pivoting pad clamping system produces a wedging action against the material, holding it securely.

The plate surface of the material must not exceed a hardness of HRC 30/Brinell 300!

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	Article number
TSD 1,5	1,5	0 - 35	5,0	191	35	24	15,5	60	105	50	5150.2406
TSD 3,0	3,0	0 - 35	8,0	235	46	34	17,0	67	120	60	5150.2407
TSD 5,0	5,0	0 - 40	16,0	275	55	40	17,5	85	150	75	5150.2404
TSD 7,5	7,5	0 - 40	19,5	295	65	50	22,0	92	162	80	5150.2405



Screw clamp TSZ

Screw clamp for three-dimensional pulling

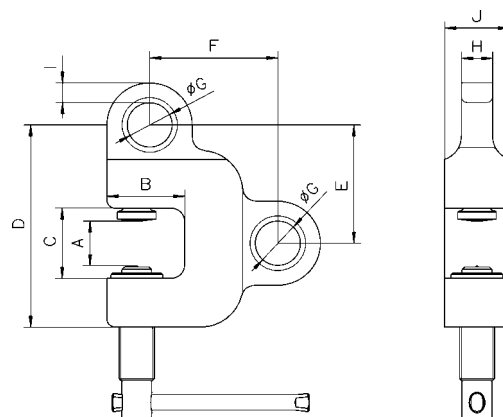
The TSZ screw clamp is designed to pull in three directions. It offers countless possibilities for transporting steel construction parts, feeding brake shears, and other such equipment.

Please remember that the spindle must be hand-tightened to the material. When the screw clamp is tightened and lifting begins, the pivoting pad clamping system produces a wedging action against the material, holding it securely.



The plate surface of the material must not exceed a hardness of HRC 30/Brinell 300!

Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	H mm	I mm	J mm	Article number
TSZ 0,5	0,5	0 - 28	2,6	28	43	45	125	72	83	26	16	12	35	5150.2410
TSZ 1,5	1,5	0 - 35	5,4	35	60	55	158	93	99	35	24	16	50	5150.2411
TSZ 3,0	3,0	0 - 35	9,0	35	67	65	195	114	120	46	34	17	60	5150.2412
TSZ 5,0	5,0	0 - 40	16,4	40	85	75	230	133	150	55	40	18	75	5150.2413
TSZ 7,5	7,5	0 - 40	20,8	40	92	75	240	143	162	65	50	23	80	5150.2414



Horizontal lifting hook

BVH



Horizontal lifting hook

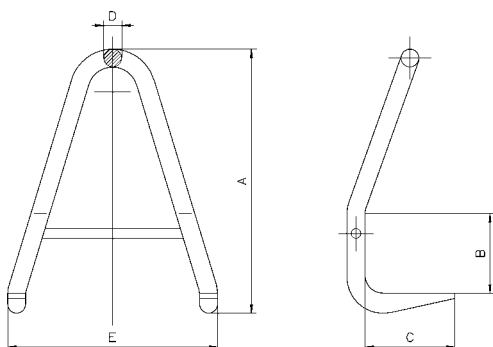
for the horizontal transport of steel

Application

The BVH horizontal lifting hooks are used in pairs to lift plate bundles that are relatively close to the ground, with the use of chains or cables.

The high tensile hooks have a serrated lifting surface.

Model	Capacity/unit t	Weight/unit kg	A mm	B mm	C mm	D mm	E mm	Article number
BVH 0,5	0,5	1,3	180	50	80	18	150	5050.0001
BVH 1,0	1,0	1,8	210	60	95	20	170	5050.0002
BVH 1,5	1,5	2,2	240	70	105	22	200	5050.0003
BVH 2,0	2,0	3,3	280	80	115	26	220	5050.0004
BVH 2,5	2,5	6,5	340	100	120	32	270	5050.0005
BVH 3,0	3,0	8,3	400	120	140	32	320	5050.0006
BVH 4,0	4,0	13,5	530	160	180	36	420	5050.0007
BVH 5,0	5,0	19,0	660	200	210	40	520	5050.0008
BVH 6,0	6,0	33,0	800	250	250	50	640	5050.0009
BVH 7,5	7,5	60,0	980	300	300	60	760	5050.0010



Horizontal lifting clamp TCH

Horizontal lifting clamp, two-legged for heavy gauge plate and bundles

The TCH horizontal lifting clamp consists of two clamps with a two-legged chain system.

It is especially suited for the transport of single plate with a minimum thickness of approx. 5 mm as well as for plate bundles.

The two-legged version is appropriate for small plates. For extra large or long plates, it is recommended to use two of the two-legged lifting clamps in conjunction with a spreader beam.

In the standard version, the lifting clamp is suitable for plates up to 1500 mm width with a top angle of the chain up to a max. of 90°.

Clamps with longer chains for larger plate widths are available upon request. The working load limit (WLL) applies to a pair of lifting clamps.

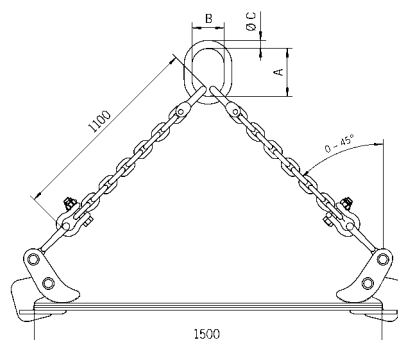
Single clamps are also available.



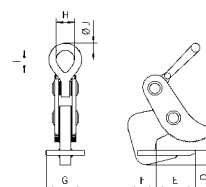
Model 2-legged	Capacity t*	Jaw capacity mm	Weight kg**	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	Ø J mm	Article number
TCH 1,0	1,0	0 - 50	8,0	135	75	18	15	82	65	100	32	44	13	5050.1502
TCH 2,0	2,0	5 - 32	10,0	160	90	22	32	83	61	100	49	72	19	5050.1503
TCH 4,0	4,0	5 - 50	17,0	180	100	26	44	114	75	99	62	89	26	5050.1504
TCH 6,0	6,0	5 - 75	45,4	200	110	32	58	172	97	129	90	127	36	5050.1505
TCH 8,0	8,0	5 - 75	51,0	260	140	36	56	170	100	128	90	130	37	5050.1506
TCH 10,0/1	10,0	5 - 100	93,8	300	160	40	70	216	116	149	113	113	50	5050.1507
TCH 10,0/2	10,0	50 - 150	108,6	300	160	40	66	218	116	150	113	113	50	5050.1508

* per pair

** weight for two single clamps/without chain



The top angle between the chain/rope legs must not exceed 90°.



Horizontal lifting clamp

TGF



Horizontal lifting clamp, two-legged for plate bundles

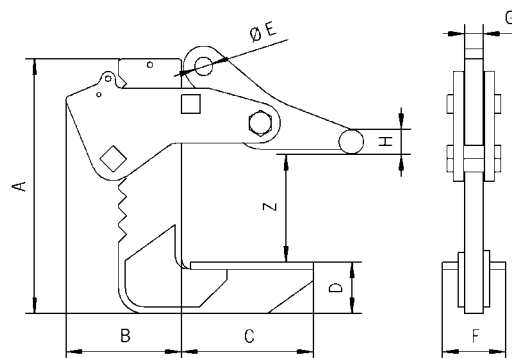
The TGF horizontal lifting clamp consists of two clamps with a two-legged chain system and is especially suited for the transport of plate bundles. For the transport of stainless steel plate bundles, plywood bundles, etc. the clamps are optionally available with flat jaws and protective lining. The clamps are easily adjusted to the height of the plate by a special ratcheting lever.

The lifting clamps are available in special versions for bundle thicknesses up to 400 mm. The clamps are also available on special order with steel cables instead of chains.

Model	Capacity t*	Jaw capacity Z mm	Weight kg*	A mm	B mm	C mm	D mm	Ø E mm	F mm	G mm	Ø H mm	Article number
TGF 0,3/150	0,35	0 -150	21,0	298	122	160	41	20	80	20	25	5060.1601
TGF 0,6/150	0,65	0 - 150	22,0	298	122	160	41	20	80	20	25	5060.1602
TGF 1,3/150	1,30	0 - 150	23,0	298	122	160	41	20	80	20	25	5060.1603
TGF 2,3/150	2,30	0 - 150	33,0	321	130	160	50	23	80	25	25	5060.1604
TGF 3,3/150	3,30	0 - 150	39,0	321	130	160	50	23	80	25	25	5060.1605
TGF 5,0/150	5,00	0 - 150	59,0	405	185	210	82	30	100	30	40	5060.1606
TGF 6,6/150	6,65	0 - 150	65,0	405	185	210	82	30	100	30	40	5060.1607
TGF 0,3/250	0,35	0 - 250	21,0	448	122	140	41	20	80	20	25	5060.1608
TGF 0,6/250	0,65	0 - 250	22,0	448	122	140	41	20	80	20	25	5060.1609
TGF 1,3/250	1,30	0 - 250	23,0	448	122	140	41	20	80	20	25	5060.1610
TGF 2,3/250	2,30	0 - 250	33,0	417	130	160	60	23	80	25	25	5060.1611
TGF 3,3/250	3,30	0 - 250	39,0	417	130	160	60	23	80	25	25	5060.1612
TGF 5,0/250	5,00	0 - 250	59,0	495	185	210	82	30	100	30	40	5060.1613
TGF 6,6/250	6,65	0 - 250	65,0	495	185	210	82	30	100	30	40	5060.1614

*) per pair

The working load limit (WLL) applies to a pair of lifting clamps. Single clamps are also available.



Lifting clamp THS

Lifting clamp with safety lock

The THS lifting clamp is used in pairs especially for the horizontal transport of plates. The transport of slightly sagging plates is also possible. Individually, it can be used to load presses, shears, and other machines.

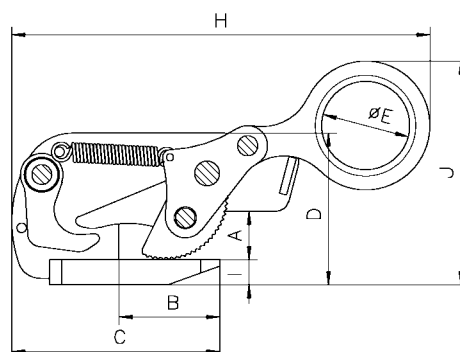
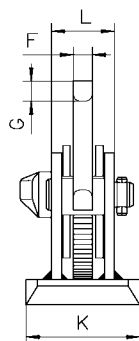
The lifting clamp which features a safety lock ensures the clamp remains on the plate after it is placed, even in the unloaded position. The lever opens and closes the clamping jaw. This clamp has a lock-open feature.

The THS 1,5 and THS 3,0 are available with a pivoted shackle upon request.



Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	Ø E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	Article number
THS 0,75	0,75	0 - 20	3,5	30	70	130	97	50	12	15	255	15	135	80	40	5080.1851
THS 1,5	1,50	0 - 35	6,1	38	80	165	120	70	15	17	335	20	165	90	50	5080.1852
THS 3,0	3,00	0 - 40	12,1	45	95	205	160	80	20	25	400	30	195	100	60	5080.1853
THS 4,5	4,50	0 - 40	18,0	47	110	235	196	90	20	30	450	59	230	110	64	5080.1854

The top angle between the chain/rope legs must not exceed 60° when using the clamp in pairs.



TIGRIP®

Lifting clamp

THK



Lifting clamp

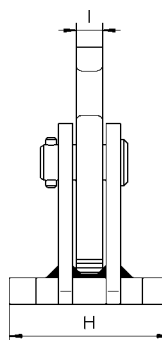
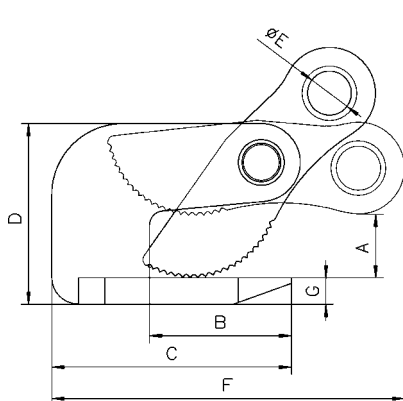
The THK lifting clamp, when used in pairs, is especially well-suited to the horizontal transport of thin plates that have a tendency to sag. When used as the two-legged version, the corresponding chains or cables are needed. The working load limit (WLL) applies to two lifting clamps.

The top angle between the chain/rope legs must not exceed 60°.

Model	Capacity t*	Jaw capacity mm	Weight kg**	A mm	B mm	C mm	D mm	Ø E mm	F mm	G mm	H mm	I mm	Article number
THK 0,75	0,75	0 - 25	1,7	25	72	118	81	20	161	12	86	12	5070.1751
THK 1,50	1,50	0 - 35	3,2	36	80	135	102	25	198	15	102	15	5070.1752
THK 3,00	3,00	0 - 35	5,5	38	93	168	119	30	227	20	110	20	5070.1753
THK 4,50	4,50	0 - 45	8,6	48	103	183	140	30	238	25	122	20	5070.1754
THK 6,00	6,00	0 - 60	11,6	63	124	214	176	35	284	30	110	20	5070.1755
THK 9,00	9,00	0 - 60	17,8	65	113	223	188	40	317	35	148	20	5070.1756

*) per pair

***) per clamp



Lifting clamp TWH

Lifting clamp

The TWH lifting clamp, when used in pairs, is well-suited to the horizontal transport of individual and bundled plate. The clamp is not suited for thin plate that has a tendency to sag during transport.

When used as the two-legged version, the recommended chains or cables are needed.

The safe working load limit (WLL) applies for two lifting clamps.

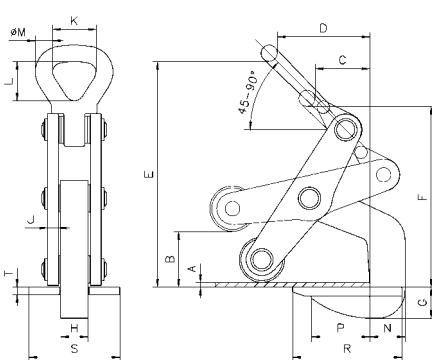
The lifting clamp is available upon request with a protective lining.



The top angle between the chain/rope legs must not exceed 90°.

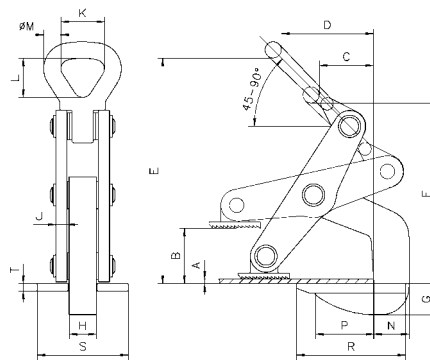
Model	Capacity t*	Jaw capacity mm	Weight kg*	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	J mm	K mm	L mm	Ø M mm	N mm	P mm	R mm	S mm	T mm
TWH 30	1,5	5 - 60	12,0	5	60	60	105	250	200	22	30	12	50	73	18	36	65	120	100	10
TWH 50	2,5	10 - 70	20,6	10	70	75	130	315	275	38	30	12	64	92	25	58	77	150	100	10
TWH 70	3,5	10 - 80	27,6	10	80	90	162	345	292	48	30	15	64	92	25	65	105	185	100	10
TWH 100	5,0	10 - 102	72,0	10	102	110	170	425	345	45	45	20	89	130	35	80	120	210	120	12

*) per pair



Clamp with roller

Model	Article no.
TWH 30	5450.9101
TWH 50	5450.9102
TWH 70	5450.9103
TWH 100	5450.9104



Clamp with plate

Model	Article no.
TWH 30	5450.9105
TWH 50	5450.9106
TWH 70	5450.9107
TWH 100	5450.9108



Non-marring grab TSS

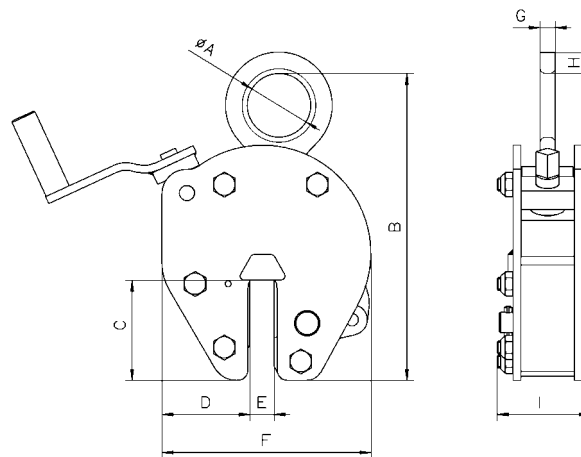


Non-marring grab with screw spindle for stainless steel plates

This non-marring grab for heavier loads secures its load through a special wedge mechanism. The sliding jaw is manually set to the pre-tension position with a removable handle that is placed on a screw spindle head. During the lifting cycle, the tensioning lever exerts an extra-high clamping pressure via a high transmission ratio onto the sliding jaw which is thereby held tight by a "friction locking effect." The contact pressure produced is further enhanced by the inclined plane on which the wedge-shaped jaw slides. The grab comes with aluminium and stainless steel jaws for the non-marring transport of loads with sensitive surfaces.

No indentations and no marring to the material's surface!

Model	Capacity t	Jaw capacity mm	Weight kg	Ø A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TSS 0,75	0,75	0 - 16	6,0	50	235	78	72	16	163	12	18	73	5130.2251
TSS 1,50	1,50	5 - 25	9,3	70	285	100	86	25	200	16	20	86	5130.2252
TSS 3,00	3,00	5 - 30	15,8	82	315	120	95	30	226	20	30	100	5130.2253



Non-marring grab TBP

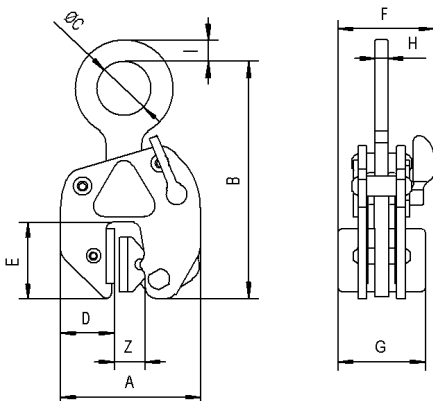
Non-marring grab

The TBP non-marring grab is suitable for the lifting, turning and transporting of plates with a sensitive surface without leaving behind indentations. It can be used for aluminium and stainless steel plate or those with an extremely hard surface.



The surface of the plate must be free of oil, grease or any other liquid to ensure safe transport.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TBP 0,5	0,5	0 - 10	3,5	127	200	55	52	69	86,5	76	13	20	5150.2419
TBP 1,5	1,5	0 - 20	12,0	215	345	85	75	135	131,0	118	20	24	5150.2420



Non-marring grab TSB



Non-marring grab with chain

The TSB grab has parallel-facing jaws that equally distribute the clamping pressure over a relatively large surface area. This makes the grab attractive for plate material with sensitive surfaces.

The protective lining "Bremsit" offers an outstanding friction coefficient, thereby enhancing the grip of the jaws. This lining can be easily replaced when worn.

Similar to the universal grab, this grab has a large jaw capacity and the security of a safety lock device with a hold-open/hold-closed feature.

The surface of the plate must be free of oil, grease, or any other liquid to ensure the safe transport.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	Article number
TSB 0,35/65	0,35	0 - 65	8,0	270	260	128	100	65	78	5120.2201
TSB 0,75/65	0,75	0 - 65	9,0	270	260	128	100	65	78	5120.2202
TSB 1,25/65	1,25	0 - 65	12,0	270	260	128	100	65	78	5120.2203

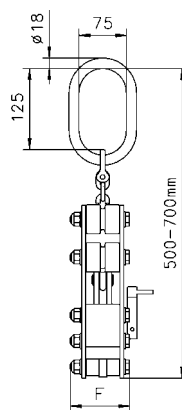
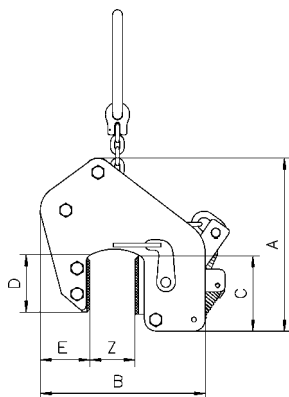


Plate clamp TBE

Plate clamp for hard surfaces

The TBE plate clamp has an extremely high clamping pressure.

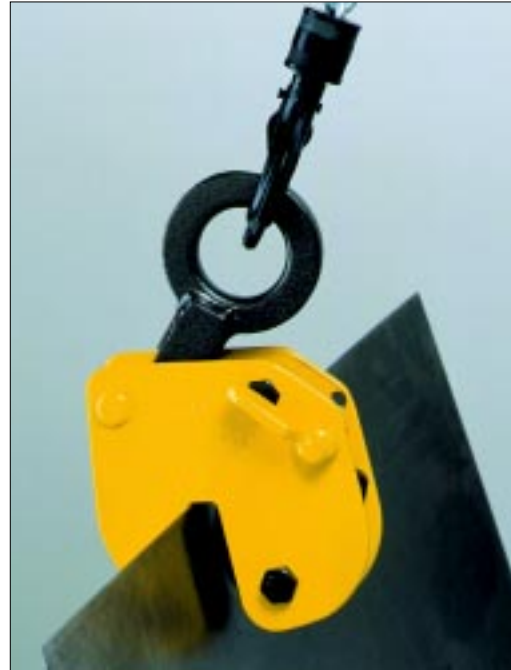
This makes the clamp particularly suited to the transport of plate with a surface hardness up to HRC 40/Brinell 375.

Function

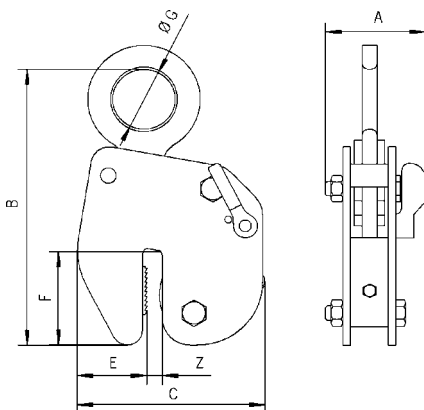
The clamp can be opened and closed with a locking lever. The safety lock overrides the spring-loaded cam, preventing the clamp from disengaging from the transported material even when there is no load.

Workmanship and parts

This plate clamp is service-friendly, making it easy to exchange parts, which are available individually or in a kit form. Clamp repair is available through the factory, or can be done by certified and experienced staff.



Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	Article number
TBE 0,5	0,5	0 - 10	5,0	42	230	148	10	55	79	50	5221.0010
TBE 1,0	1,0	0 - 16	12,0	93	297	210	16	75	114	67	5221.0011
TBE 2,0	2,0	0 - 20	22,0	110	416	305	20	102	159	80	5221.0012
TBE 3,0	3,0	0 - 20	27,0	110	416	305	20	102	159	80	5221.0013
TBE 4,0	4,0	0 - 20	32,0	120	435	305	20	102	158	89	5221.0014



TIGRIP®

Plate pliers TPZ



Plate pliers

for wood, particle board and plastic plates

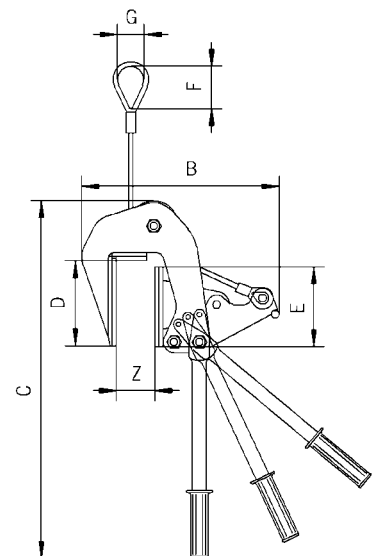
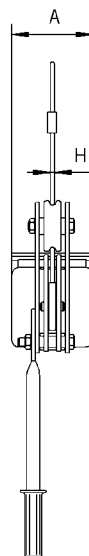
Application

These plate pliers are made for lifting, transferring and vertically transporting wood, particle board, and plastic sheets.

Function

The pliers are fastened to the plate with the aid of a hand-held lever. The jaw, which has a protective lining, grabs once lifting begins and holds the plate securely in place.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article number
TPZ 0,4/55	0,4	5 - 55	8,0	120	290	525	125	117	60	40	6	5620.0001



Manual claw THM

Manual claw, magnetic

The THM manual magnetic claw is used for transporting steel sheets horizontally and vertically, lifting plates from racks, pulling steel sheets out of shelving, as well as transporting flat pieces of steel that are magnetizable.

The clamp, depending on the type, can be used for plate thicknesses from 1 to 5 mm.

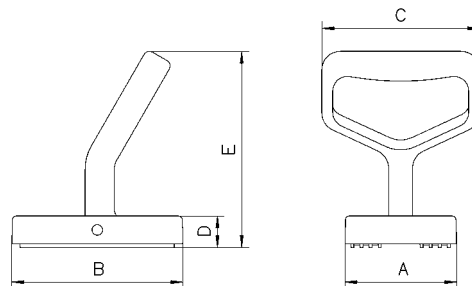
Pressing down on the handle activates a cam which releases the magnetic claw from the workpiece.

This manual claw is maintenance-free and has an unlimited magnetic force.



Model	Lifting capacity* kg	Pulling capacity kg	Weight kg	A mm	B mm	C mm	D mm	E mm	Article number
THM 120	120	70	1,2	84	140	130	25	172	5160.2501
THM 170	170	100	1,7	116	140	130	25	172	5160.2502

*) measured at a safety factor 2:1 on bright drawn material St 37 k



The surface of the clamp must be clean and free of dirt, oil, grease, scale, rust, paint, etc.

TIGRIP®

Hand clamp THG

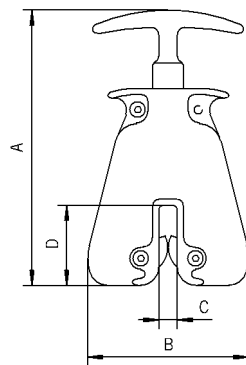


Hand clamp

The THG hand clamp is suited for the individual transport of light and thin plates. Pressing down on the hand grip releases the tension spring, allowing the clamp to open and slide onto the plate. The plate can be transported by holding onto the ergonomically designed hand grip. The positive spring pressure prevents the plate from accidentally slipping out of the clamp.

The plate surface of the material must not exceed a hardness level of HRC 30/Brinell 300.

Model	Capacity kg	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	Thickness mm	Article number
THG	250	0 - 10	1,4	184	105	12	53	40	5150.2415



Opening and Closing



Transporting

Roundstock grab TRU

Roundstock grab

The TRU roundstock grab picks up roundstock and pipe material up to 600 mm in diameter quickly and safely. With its optional protective lining, it can also pick up materials with sensitive surfaces. The lining also prevents slipping of pipe when tilted, which can occur if the roundstock grab is not positioned exactly at the center of gravity.

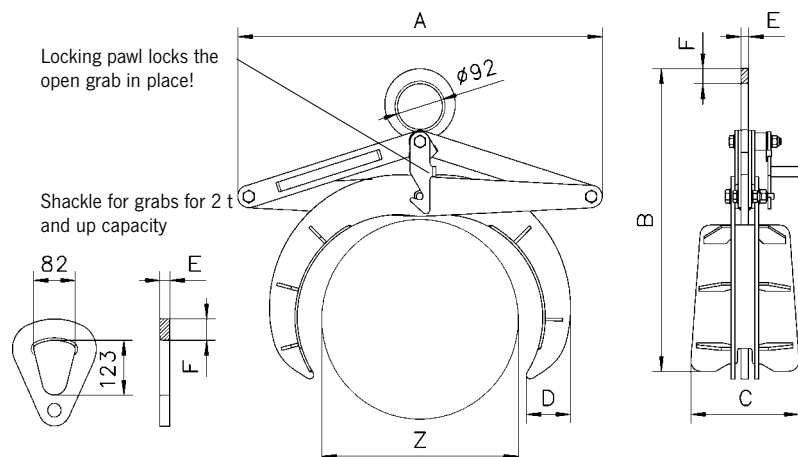


The protective lining only protects the material from sliding if the material is free of oil and grease.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B _{min.} mm	B _{max.} mm	C mm	D mm	E mm	F mm	Article number*	Article number**
TRU 0,1/150	0,1	50 - 150	4,0	270	292	458	97	43	8	17	5190.2711	5190.2712
TRU 0,5/200	0,5	35 - 200	15,0	503	417	723	150	56	15	17	5190.2701	5190.2706
TRU 1,0/200	1,0	35 - 200	20,0	509	437	745	178	82	15	30	5190.2702	5190.2707
TRU 1,5/300	1,5	80 - 300	24,0	720	520	937	204	84	20	25	5190.2703	5190.2708
TRU 3,0/300	3,0	80 - 300	49,0	740	582	960	220	125	20	30	5190.2704	5190.2709
TRU 4,0/600	4,0	200 - 600	200,0	1420	930	1815	318	205	30	35	5190.2705	5190.2710

* without protective lining

**with protective lining



TIGRIP®

Profile steel grab TPR



Profile steel grab

for the transport of girders, profile steel, etc.

Application

The TPR Steel Grab is designed for the transport of girders, profile steel, etc.

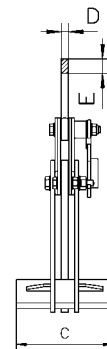
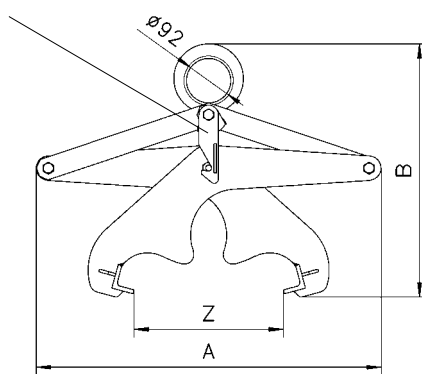
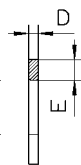
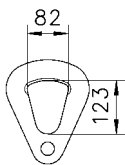
It boasts a large jaw capacity, making it useful for the various flange widths.

The clamping jaws press securely against the load, holding it form-fitting into place.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B _{min.} mm	B _{max.} mm	C mm	D mm	E mm	Article number
TPR 0,5/200	0,5	0 - 200	15,0	510	390	625	200	15	30	5180.2601
TPR 1,5/300	1,5	0 - 300	24,0	710	495	830	200	15	30	5180.2602
TPR 3,0/300	3,0	0 - 300	47,0	720	525	920	220	20	43	5180.2603

Locking pawl locks the open grab in place!

Shackle for grabs for 2 t and up capacity



Pipe grab TR

Pipe grab

The TR pipe grab for rolls and pipes up to 1050 mm in diameter offers many uses in the lifting and transporting of these materials.

Apart from pipe and drums laid on their side, this lightweight pipe grab will also handle rolls of paper, fabric and sheet metal.

The grab can be ordered with a protective lining made of "Bremsit" or hard rubber for extra protection in lifting loads with sensitive surfaces.



Model	Capacity t	Jaw Capacity mm	Weight kg	A mm	B mm	Ø C mm	Ø D mm	E mm	F mm	G mm	Article number*	Article number**
TR 0,2/550	0,20	350 - 550	34,0	800	565	350	550	550	35	20	5200.2901	5200.2913
TR 0,2/650	0,20	450 - 650	41,0	900	615	450	650	550	35	20	5200.2902	5200.2914
TR 0,3/750	0,30	500 - 750	47,0	1100	665	500	750	550	35	20	5200.2903	5200.2915
TR 0,5/750	0,50	500 - 750	47,0	1100	665	500	750	550	35	20	5200.2904	5200.2916
TR 0,5/900	0,50	650 - 900	54,0	1150	765	650	900	550	35	20	5200.2905	5200.2917
TR 0,75/1050	0,75	700 - 1050	56,0	1300	815	700	1050	550	35	20	5200.2906	5200.2918
TR 1,0/750	1,00	500 - 750	55,0	1000	665	500	750	550	35	20	5200.2907	5200.2919
TR 1,0/1050	1,00	700 - 1050	71,0	1350	815	700	1050	550	35	20	5200.2908	5200.2920
TR 2,0/1050	2,00	700 - 1050	135,0	1350	815	700	1050	800	45	30	5200.2909	5200.2921
TR 3,0/1050	3,00	700 - 1050	154,0	1350	815	700	1050	800	45	30	5200.2910	5200.2922

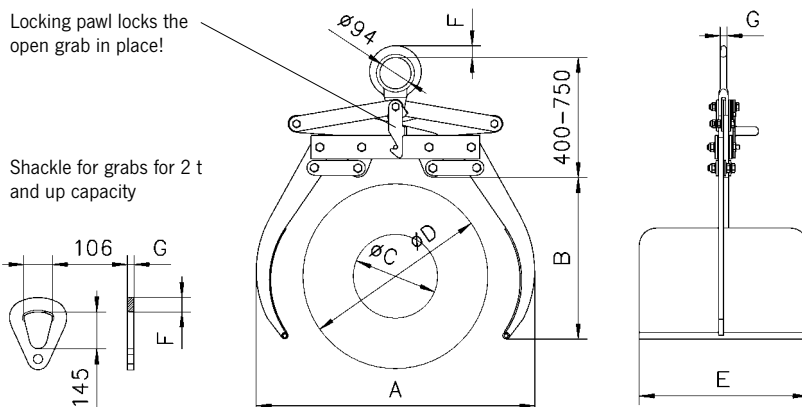
*without protective lining

**with protective lining

A height adjustable pad and counter weights are necessary for the automatic models (additional charge)

Locking pawl locks the open grab in place!

Shackle for grabs for 2 t and up capacity



In case the grab is not positioned at the center of gravity and tilting occurs, it is important that the surfaces are free of oil and grease.

Block grab TVB

Block grab

for the transport of stone and concrete blocks and other materials with parallel surfaces

Application

The TVB block grab is useful for the transport of stone and concrete blocks and other materials with surfaces that are parallel.

The grab comes with a protective lining to ensure a safe and non-marring transport.

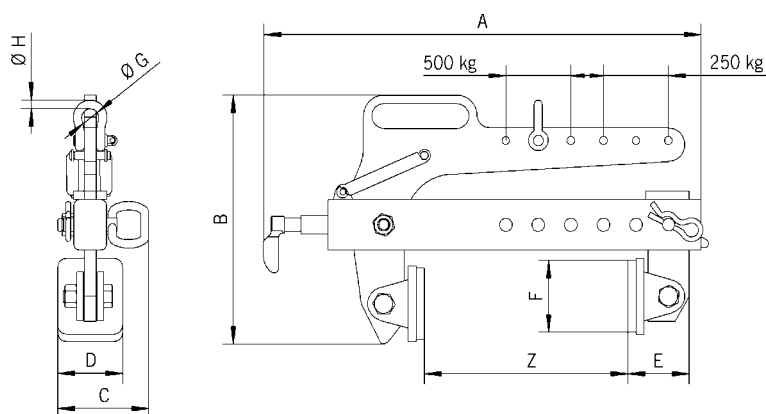
Function

The clamping jaw and the center of gravity are easily and quickly adjustable by means of a locking pin.



The surface of the material must be free of oil and grease!

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	Ø H mm	Article number
TVB 500	0,25/0,5	0 - 240	10,0	537	296	112	80	75	85	22	10	5262.5000



Block grab TBG

Stone/concrete grab with small jaw capacity

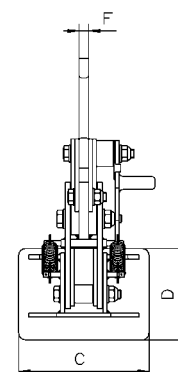
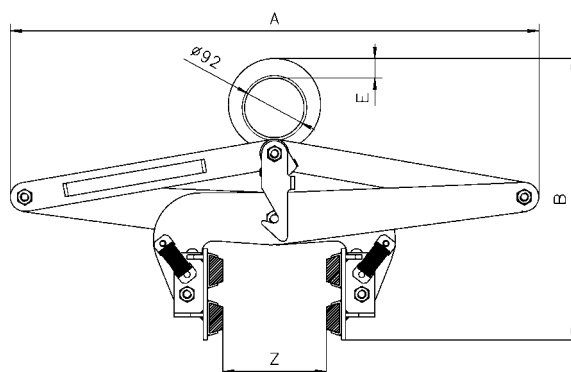
The TBG block grabs are suited for the transport of all materials with parallel surfaces that can withstand a clamping pressure twice as high as the load being lifted.

The grabs are delivered with a replaceable hard rubber protective lining as standard.



The surface of the material must be free of oil and grease!

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B _{min.} mm	B _{max.} mm	C mm	D mm	E mm	F mm	Article number
TBG 0,2/150	0,2	0 - 150	23,0	815	420	760	200	160	30	15	5260.4007
TBG 0,3/150	0,3	0 - 150	23,0	815	420	760	200	160	30	15	5260.4008
TBG 0,5/150	0,5	0 - 150	23,0	815	420	760	200	160	30	15	5260.4009
TBG 1,0/250	1,0	50 - 250	48,0	1050	460	980	250	160	29	20	5260.4010
TBG 1,5/250	1,5	50 - 250	50,0	1050	460	980	250	160	29	20	5260.4011
TBG 2,5/250	2,5	50 - 250	58,0	1050	460	980	280	160	29	25	5260.4012



Stone/concrete grab TBG



Stone/concrete grab with large jaw capacity

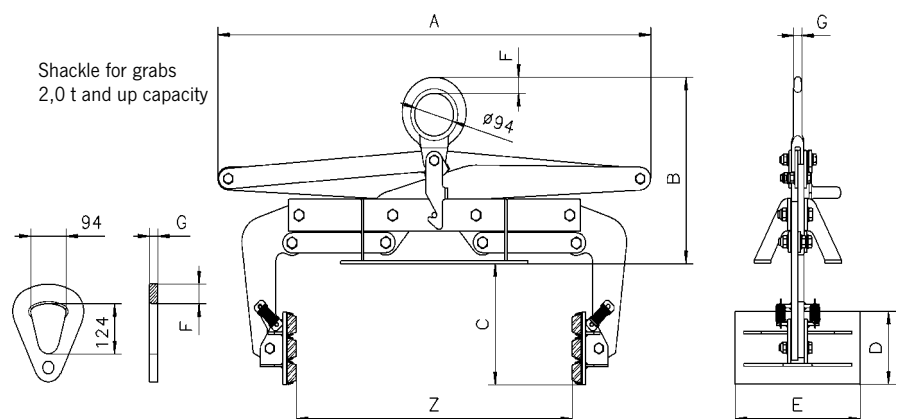
On the TBG stone/concrete grab, the locking lever can be replaced by an automatic feature which enables the automatic picking up and setting down of the load.

The grabs are delivered with a replaceable hard rubber protective lining as standard.

The surface of the material must be free of oil and grease.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B _{min.} mm	B _{max.} mm	C mm	D mm	E mm	F mm	G mm	Article number
TBG 0,2/500	0,2	200 - 500	49,0	1040*	390	840	275	160	300	35	20	5260.4156
TBG 0,3/700	0,3	400 - 700	52,0	1040*	390	840	275	160	300	35	20	5260.4157
TBG 0,5/900	0,5	600 - 900	55,0	1120	390	840	275	160	300	35	20	5260.4158
TBG 1,0/400	1,0	100 - 400	51,0	1040	390	840	250	160	350	35	20	5270.4251
TBG 1,0/1100	1,0	800 - 1100	72,0	1320	390	840	275	160	300	35	20	5260.4159
TBG 1,5/1300	1,5	1000 - 1300	128,0	1520	390	840	275	160	300	35	20	5260.4160
TBG 2,0/500	2,0	200 - 500	90,0	1100	530	1120	250	160	350	36	25	5270.4252
TBG 3,0/500	3,0	200 - 500	160,0	1100	530	1120	250	160	350	42	30	5270.4253
TBG 4,0/500	4,0	200 - 500	240,0	1100	600	1190	250	160	350	48	35	5270.4254
TBG 5,0/500	5,0	200 - 500	270,0	1100	600	1190	250	160	350	48	35	5270.4255

*) Scissor dimension



Bale grab TBA

Bale grab

The TBA bale grab transports bales of fiber, wool, fabric, paper, pressed straw and various types of shavings up to a width of 1,3 m. Bales are gripped safely yet gently, and where applicable, the clamps are lined with a soft and pliable material.

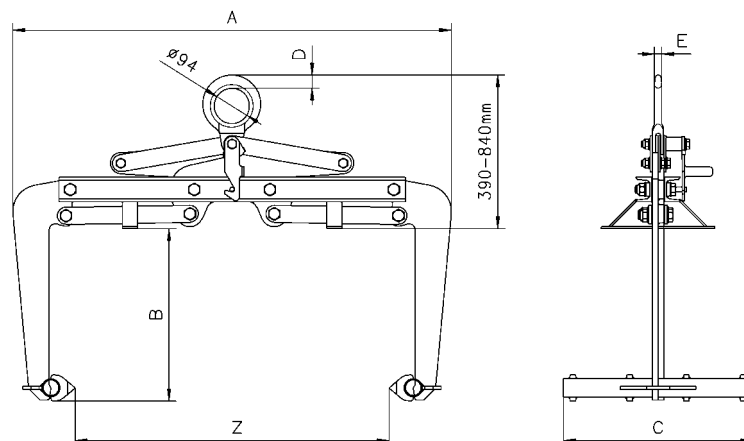
The locking pawl only engages if the grab is opened without manual intervention. An optional automatic opening and closing device is available if desired.



The standard grab comes with protective lining.

TBA 0,2 - 1 t with serrated jaw

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	Article number
TBA 0,2/700	0,20	250 - 700	40	890	420	500	35	20	5280.4501
TBA 0,3/900	0,30	450 - 900	42	1090	420	500	35	20	5280.4502
TBA 0,5/1100	0,50	650 - 1100	45	1290	420	500	35	20	5280.4503
TBA 0,75/1300	0,75	850 - 1300	62	1550	420	500	35	20	5280.4504
TBA 1,0/1300	1,00	850 - 1300	62	1550	420	500	35	20	5280.4505



Rail grab TCR



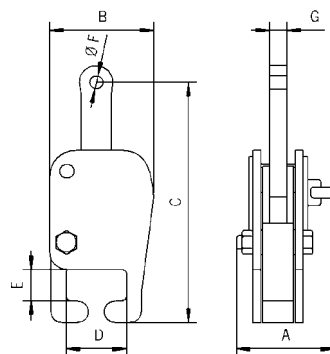
Rail grab with safety lock

The TCR rail grab transports type S45 and S49 rails, as used by railways, easily and safely. The TCR also grabs other rail types having a similar configuration. A safe grip is ensured by the lever-operated safety lock. For long rails, two grabs must be attached to a spreader beam to avoid sagging. Since the rails are primarily grabbed form-fitting, it is important that they are not transported at an inclined level.

For rails with a larger head or sidings, please inquire about customized grabs.

A TCR multiple rail system is also available for the simultaneous transport of up to 12 rails.

Model	Capacity t	Weight kg	A mm	B mm	C mm	D mm	E mm	Ø F mm	G mm	Article number
TCR 1,0	1,0	13,0	144	152	350	90	46	20	25	5140.2351
TCR 2,0	2,0	13,0	144	163	350	90	46	20	25	5140.2352



Inside grab for wire coils and rings

Inside grabs are available in three versions for the handling of cylindrical and rectangular hollow bodies.

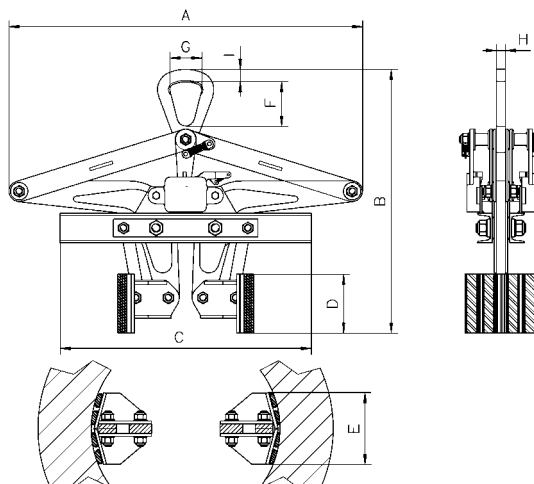
The clamping jaws are available with optional steel jaws, hard manganese serrated jaws or jaws with protective lining, which are designed to grab a variety of shapes and materials. These inside grabs can be equipped with an automatic opening and closing device.



For inside grabs with jaws with protective lining, the inside surface of the material must be free of oil and grease!

Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TDI 0,1/420	0,1	220 - 420	17,0	790	455	550	80	90	-	Ø 60	15	22	5290.4751
TDI 0,5/600	0,5	400 - 600	53,0	1200	610	800	100	160	-	Ø 92	15	30	5300.4851
TDI 1,0/600	1,0	400 - 600	60,0	1200	600	900	100	160	-	Ø 92	15	30	5300.4852
TDI 2,0/800	2,0	550 - 800	150,0	1400	830	1100	120	220	124	83	30	42	5300.4853
TDI 3,0/800	3,0	550 - 800	175,0	1450	920	1000	160	220	151	107	30	42	5300.4854
TDI 5,0/800*	5,0	550 - 800	220,0	1450	795	1000	160	65	151	107	35	42	5300.4855

* with hard manganese serrated jaws



C-Hook

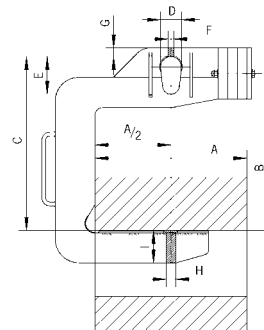
TCK



C-Hook

Coils, rolls, rings, and similar items are transported safely with the Tigrip C-Hooks. Tine length and usable height with the most frequently encountered coil sizes are listed in the table below. Other working loads, measurements, and models, such as C-Hooks with automatic balancing device, are available upon request. Standard model has tines $\frac{3}{4}$ the length of the coil width.

Other sizes and models available upon request.



Model	Capacity t	Weight kg	Coil width A mm	Usable height B/mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TCK 0,5/300	0,5	22	300	400	570	60	120	20	25	20	50	5350.7801
TCK 0,5/500	0,5	36	500	400	580	60	120	20	23	20	65	5350.7802
TCK 0,5/800	0,5	48	800	400	580	60	120	25	23	25	70	5350.7803
TCK 1,0/300	1,0	33	300	450	620	60	120	25	23	20	70	5350.7804
TCK 1,0/500	1,0	53	500	450	630	60	120	20	23	25	80	5350.7805
TCK 1,0/800	1,0	95	800	450	630	60	120	30	23	30	90	5350.7806
TCK 2,0/300	2,0	45	300	500	700	75	150	25	38	25	90	5350.7807
TCK 2,0/500	2,0	90	500	500	700	75	150	30	38	30	110	5350.7808
TCK 2,0/800	2,0	140	800	500	720	75	150	30	38	30	125	5350.7809
TCK 2,0/1000	2,0	180	1000	500	720	75	150	20	35	40	125	5350.7810
TCK 3,0/300	3,0	76	300	500	700	75	150	30	38	30	105	5350.7811
TCK 3,0/500	3,0	127	500	500	700	75	150	20	40	30	125	5350.7812
TCK 3,0/800	3,0	165	800	500	720	75	150	25	40	40	140	5350.7813
TCK 3,0/1000	3,0	215	1000	500	720	75	150	20	40	40	155	5350.7814
TCK 5,0/500	5,0	184	500	550	800	100	200	25	45	40	145	5350.7815
TCK 5,0/800	5,0	238	800	550	800	100	200	30	45	50	160	5350.7816
TCK 5,0/1000	5,0	286	1000	550	820	100	200	30	45	50	180	5350.7817
TCK 5,0/1250	5,0	364	1250	550	820	100	200	30	45	50	200	5350.7818
TCK 7,5/800	7,5	390	800	600	900	110	220	35	50	50	200	5350.7819
TCK 7,5/1000	7,5	520	1000	600	900	110	220	35	50	60	200	5350.7820
TCK 7,5/1250	7,5	650	1250	600	900	110	220	35	45	60	220	5350.7821
TCK 7,5/1500	7,5	767	1500	600	920	110	220	35	50	70	220	5350.7822
TCK 10,0/1000	10,0	772	1000	650	980	130	250	40	50	70	220	5350.7823
TCK 10,0/1250	10,0	810	1250	650	1000	130	250	45	55	70	240	5350.7824
TCK 10,0/1500	10,0	980	1500	650	1000	130	250	45	55	80	240	5350.7825

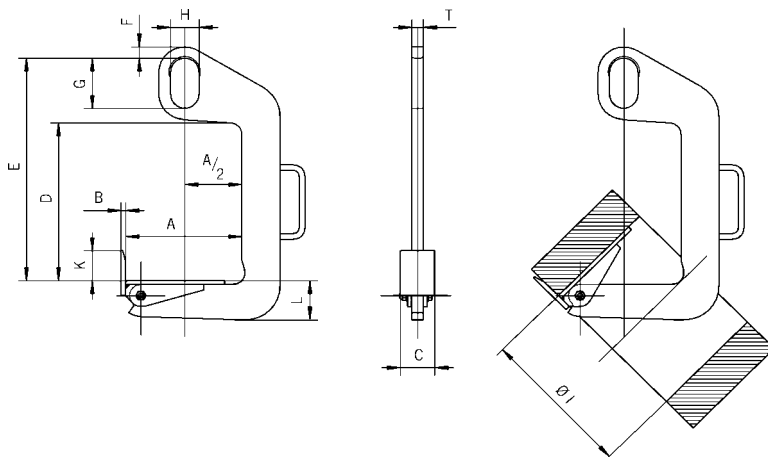
Coil hook TCS

Coil hook

The TCS coil hook is a universal C-hook. Due to its tipping feature, it can lift or lower the coil, whether the coil is lying flat or is in an upright position. With this tipping device, the coil is tipped safely through 90°. The slow and safe movement of the tipping device ensures a continuous flowing movement when lifting or lowering the coil. At the same time, the tipping device serves the purpose of preventing accidental slipping of the load during transport.



Model	Capacity t	Weight kg	Coil width		Ø I mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	K mm	L mm	T mm	Article number
			A _{min.}	A _{max.}												
TCS 0,5/120	0,5	6	50	120	220	10	60	330	470	20	110	60	50	45	20	5350.7850
TCS 0,5/200	0,5	10	100	200	300	10	60	330	470	20	110	60	50	50	20	5350.7851
TCS 1,0/200	1,0	12	100	200	300	10	80	460	600	20	110	60	60	65	25	5350.7852
TCS 1,0/300	1,0	20	200	300	400	10	80	460	600	20	110	60	60	70	25	5350.7853
TCS 2,0/200	2,0	25	100	200	300	12	90	420	600	30	135	75	80	85	30	5350.7854
TCS 2,0/300	2,0	29	200	300	400	12	90	420	600	30	135	75	80	95	30	5350.7855
TCS 3,0/200	3,0	45	100	200	300	15	100	610	820	40	160	90	100	100	35	5350.7856
TCS 3,0/300	3,0	51	200	300	400	15	100	610	820	40	160	90	100	110	35	5350.7857



Pipe hook

TRO



Pipe hook

The pipe hooks are used in pairs for the safe transport of pipes. The shackles are included with the hooks.

Hooks with a plastic protective cover are available for pipe with sensitive surfaces.

Shackles are included

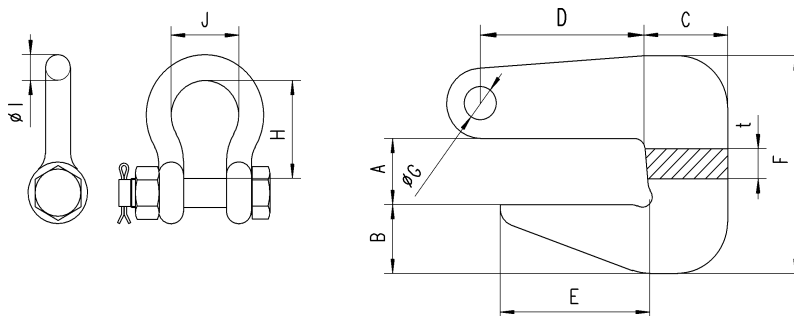
TRO for 60° - 90° top angle between chains

Model	Capacity t*	Weight kg*	t mm	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	H mm	Ø I mm	J mm	Article number
TRO 2/90	2	2,4	20	0 - 40	35	40	62	62	116	16,3	47,6	12,7	30,2	5350.8004
TRO 4/90	4	5,6	30	0 - 50	40	48	77	77	142	24,3	72,2	19,0	44,5	5350.8005
TRO 6/90	6	8,3	30	0 - 60	51	62	90	90	173	24,3	72,2	19,0	44,5	5350.8006
TRO 8/90	8	13,5	40	0 - 70	55	67	105	105	190	30,3	95,3	25,4	58,7	5350.8007
TRO 10/90	10	17,8	40	0 - 80	69	80	115	115	221	30,3	95,3	25,4	58,7	5350.8008

TRO for 90° - 120° top angle between chains

Model	Capacity t*	Weight kg*	t mm	A mm	B mm	C mm	D mm	E mm	F mm	Ø G mm	H mm	Ø I mm	J mm	Article number
TRO 2/120	2	2,8	20	0 - 30	34	40	82	75	106	16,3	30,2	12,7	47,6	5350.8009
TRO 4/120	4	6,3	30	10 - 40	39	50	95	80	131	24,3	44,5	19,0	72,2	5350.8010
TRO 6/120	6	10,6	40	20 - 50	43	55	106	95	153	30,3	58,7	25,4	95,3	5350.8011
TRO 8/120	8	14,4	40	30 - 65	54	65	119	100	185	30,3	58,7	25,4	95,3	5350.8012
TRO 10/120	10	23,3	50	30 - 75	60	70	143	125	208	36,3	73,0	31,8	117,0	5350.8013

*per pair



Container transport shackles

TCO
TCU

Container transport shackles

These container transport shackles come 4 per pack with a total weight capacity of 56 t.

The shackles serve as flexible lashing points for the transport of containers.

Two types are available which can be fastened to either the "top" or "bottom" of the container.

The TCO type is vertically mounted in the hole at the top of the container. Turning the TCO 90°, locks it securely in place.

Transport is done with the use of a spreader beam in conjunction with cables, chains or slings.

The TCU type is mounted to the side of the container (up or down) and has a spring-loaded bolt to prevent an accidental release. Chains, cables or slings can be used for lifting.



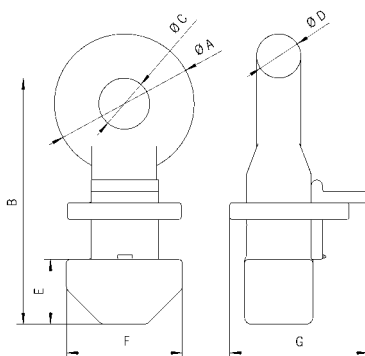
TCO



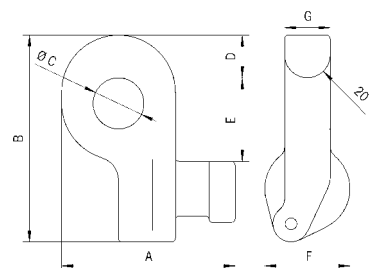
TCU

Model	Capacity* t	Top angle between chains	Weight* kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	Article number
TCU 32	32	50°	18	152	181	Ø 45	37	73	75	40	5350.8014
TCU 40	40	36°	18	152	181	Ø 45	37	73	75	40	5350.8014
TCO 56	56	vertikal	28	123	217	45	39	57	101	121	5350.8016

*per 4 pieces



**Container transport shackle
TCO**



**Container transport shackle
TCU**

Clamps for cable drum reels

TKB

Clamps

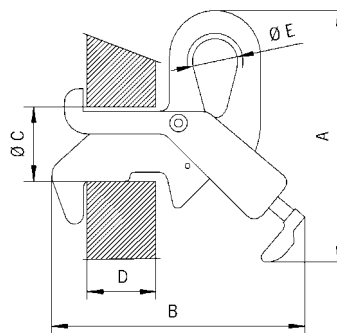
for cable drum reels

Specifically designed for the transport of cable drum reels, these clamps are used in pairs. By the spreading of the clamp, it locks inside the roll. The clamps can be held in place by a locking lever. Easy handling, light-weight design, and the size of the clamp all contribute to a safe transport of all types of cable reels.



Various sizes are available upon request.

Model	Capacity per pair t	Weight per pair kg	A mm	B mm	Ø C mm	D mm	Ø E mm	Article number
TKB	5,0	11	277	277	82	85	50	5221.0000



Barrel grab TFA

Barrel grab

for the transport of upright barrels

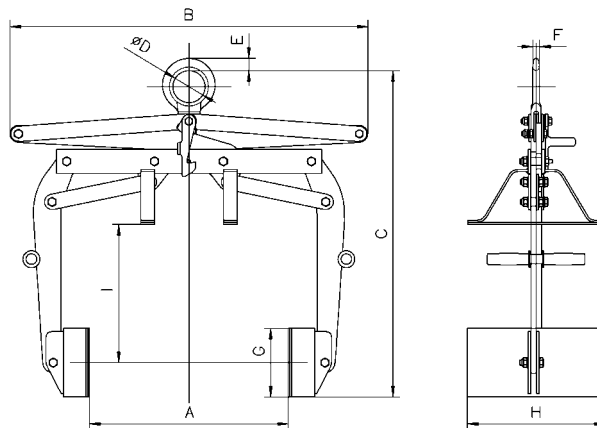
This unit grabs upright barrels and sets them down in the same position. Although the clamping jaws are fitted with a hard rubber lining to provide a force-locking hold, it is the form-locking extra support on the top edge, rim or bead – or alternatively on a hoop – that provides extra safety. This additional feature is indispensable if the surface of the barrels is stained with oil or grease. The locking pawl, which automatically engages only during the setting down of the barrel, can be replaced by an automatic triggering fixture to automatically pick up the barrel. This extra feature makes it possible to lift drums off or on high stacks without any manual intervention.

Function

The prismatic clamping jaws fitted with a protective lining enable the non-marring and secure grab around the circumference of the barrel. The clamp is suitable for standard type barrels.



Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	Ø D mm	E mm	F mm	G mm	H mm	I mm	Article number
TFA 0,3/600	0,3	Ø 400 - Ø 600	65	600	1040	950	90	34	15	200	400	400	5220.3500



Barrel grab TFA-D

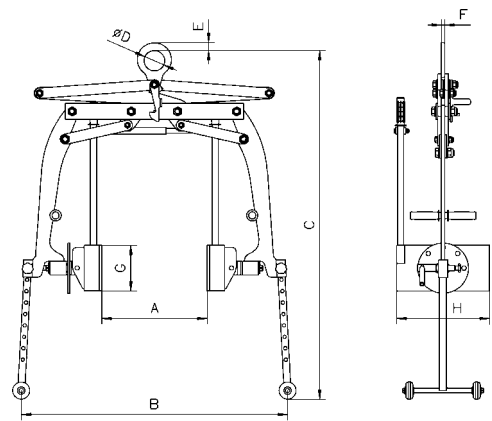
Barrel grab with tipping device
for the transport, lifting and putting down,
turning over and emptying of barrels

Application

The grab with tipping device is suited to both the turning over and emptying of barrels.

Function

In order to tip the barrel easily, it must be picked up at the correct center of gravity.



Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	Ø D mm	E mm	F mm	G mm	H mm	Article number
TFA 0,3/600 D	0,3	Ø 400 - Ø 600	83,0	600	1150	1525	90	34	15	200	400	5220.3404



Barrel grab

TFA-R TFA-TR

Barrel grab

TFA 0,35/700 R and TFA 0,35/700 TR

These barrel grabs are designed for the transport of steel barrels. The gripping clamps grab under the lip of the barrel and with its form-fitting connection, hold it securely in place.



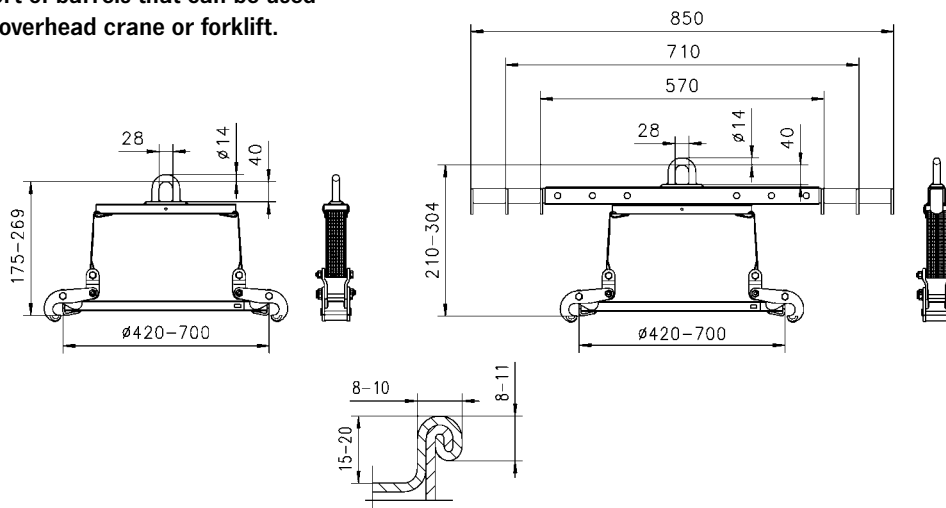
TFA 0,35/700 R



TFA 0,35/700 TR

Model	Capacity kg	Jaw capacity mm	Weight kg	Article number
TFA 0,35/700 R	350	420 - 700	3,5	5230.3561
TFA 0,35/700 TR	350	420 - 700	6,0	

TFA 0,35/700 TR is a combination unit for the transport of barrels that can be used with either an overhead crane or forklift.



TIGRIP®

Barrel rim clamp TFRK



Barrel rim clamp

for the transport of upright barrels
– suited for multi-chain systems

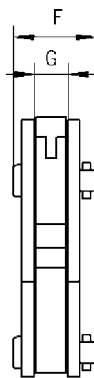
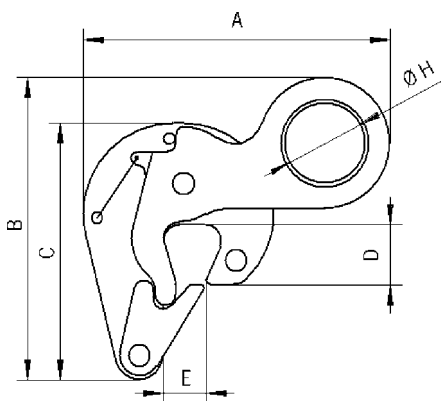
Application

The TFRK barrel rim clamp can be used individually, as a pair, or as a multi-chain system.

Function

The clamp grabs under the rim of the barrel. A spring-loaded cam prevents the accidental opening of the clamp.

Model	Capacity kg	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	Ø H mm	Article number
TFRK	500	1,2	152	150	127	30	21	41	17	40	5220.3456



Barrel clamp TFK

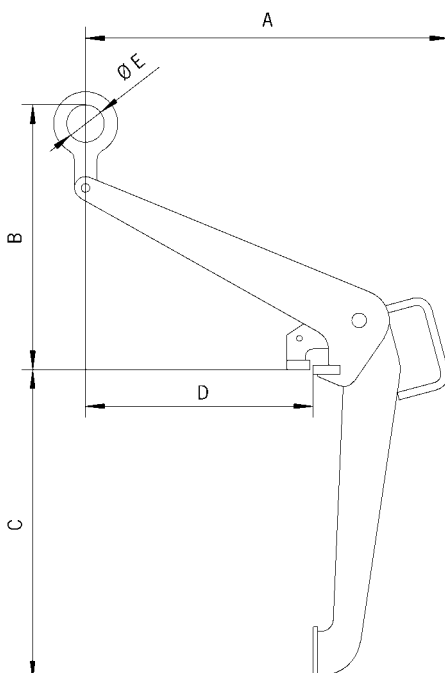
Barrel Clamp

suited for the transport of upright barrels with a bead.

Its light weight and small overall design makes it ideal for picking up barrels that sit tightly on pallets. The center of gravity of the barrel is the lifting point during transport.



Model	Capacity kg	Weight kg	A mm	B mm	C mm	D mm	Ø E mm	Article number
TFK	500	7,0	479	350	410	300	50	5220.3455



Crate grab

TKA .../d

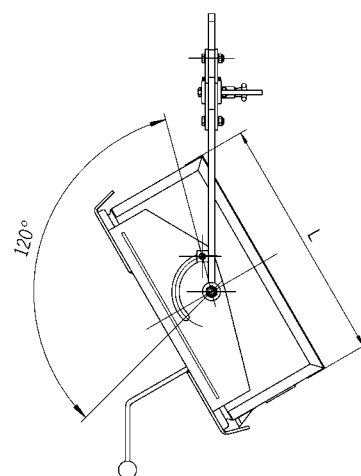
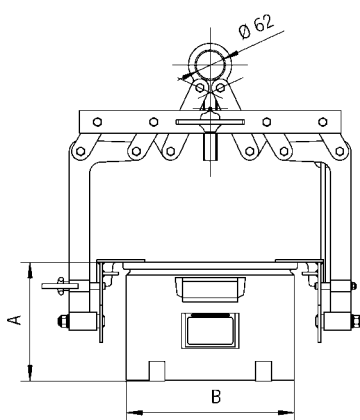
Crate grab with tipping device

The crate grab with tipping device is an absolutely safe unit, which not only securely transports stacking boxes, but can empty them in mid-air as well. The grab is strong yet easily to operate, and fulfills the accident prevention rules set forth for lifting equipment. A safety lever system prevents the accidental opening of the grab and emptying of the crate. The clamping jaws tightly grab under the rim of the crate without damaging the crate. To engage the tipping motion in order to empty the crate, the safety lock must be manually unlocked. The tipping motion is limited to 100°. This prevents the crate from flipping completely over while emptying, thereby reducing the risk of injury. Grabs for other sizes of crates are available upon request.



Model	Capacity kg	Weight kg	L mm	B mm	A mm	Article number
TKA 0,15/330 d	150	26,0	465 - 540	315 - 330	200 - 300	5212.3220
TKA 0,15/480 d	150	26,0	550 - 660	470 - 480	300	5212.3225

Please provide the crate measurements or a sample crate when ordering.



Crate grab TKA .../a/i

Crate Grab

The easy-handling crate grab, which grabs on the side plates or the front sides of the crate, transports crates safely and without damage.

While lifting, the Tigrip crate grab presses against the sturdy crate wall with its clamping jaws.

The moveable jaws press the edge of the crate gently against the outside grab support rails.

Stacking boxes made of steel or plastic are not deformed. After the box has been set down, the safety device holds the grab open.

When lifting the crate and grabbing the support rails, the safety device must be manually pulled back until it lies over the safety bolt.

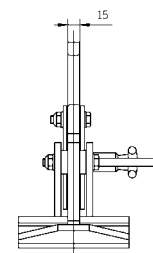
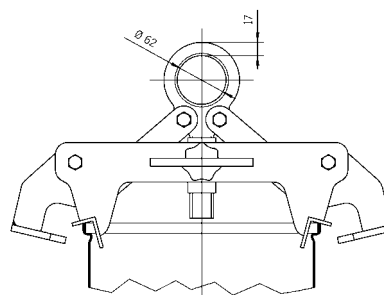
With further lifting, the jaws grab under the outer top edge of the crate and lift it up safely.

It is available as an external or internal operating grab.

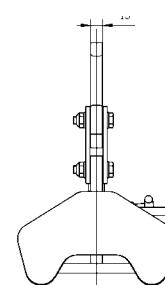
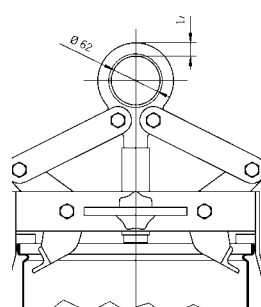


Model	Weight kg	Capacity kg	Jaw capacity mm	Article number
TKA 0,25/i	10	250	300 - 600	5210.3202
TKA 0,25/a	10	250	300 - 600	5210.3203

Please provide the crate measurements or a sample crate when ordering.



External operating



Internal operating

Beam clamp

YC



Beam clamp

1.000 - 10.000 kg

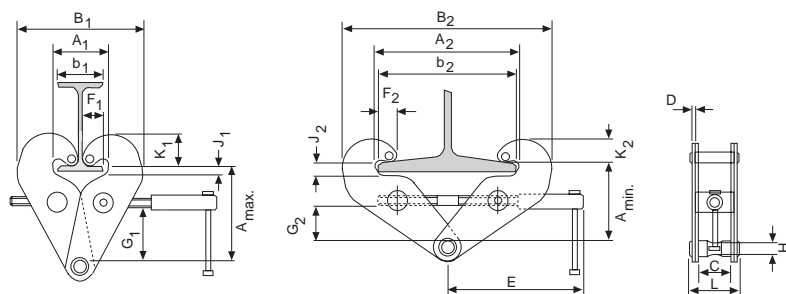
This clamp can be attached to all beams easily and quickly and is ideal for affixing hoists, pulleys and loads. The wide adjustable jaw capacity lends itself to a variety of applications. The lockable central spindle mechanism allows for the safe and speedy fastening to steel beams.

The clamp is available with an optional shackle.

Special reinforced and flat versions for girders with limited flange web height are available upon request.

Model	Capacity kg	Flange width mm	Weight kg	Article number
YC 1	1000	75 - 230	3,8	0540.6181
YC 2	2000	75 - 230	4,6	0540.6182
YC 3	3000	80 - 320	9,2	0540.7417
YC 5	5000	90 - 320	11,0	0540.7418
YC 10	10000	90 - 320	17,2	0540.7419

Capacity kg	A _{min.} mm	A _{max.} mm	A ₁ mm	A ₂ mm	B ₁ mm	B ₂ mm	b ₁ mm	b ₂ mm	C mm	D mm	E mm	F ₁ mm	F ₂ mm	G ₁ mm	G ₂ mm	H mm	J ₁ mm	J ₂ mm	K ₁ mm	K ₂ mm	L mm
1000	115	150	78	246	186	350	75	230	50	4	215	34	17	82	44	20	14	21	48	31	84
2000	115	150	78	246	186	350	75	230	50	6	215	35	18	82	44	20	14	21	50	32	94
3000	180	225	80	320	232	455	80	320	70	8	255	35	21	120	75	22	30	34	60	40	122
5000	180	225	90	310	242	445	90	310	70	10	255	35	21	116	75	28	30	34	60	42	129
10000	175	220	90	320	268	480	90	320	70	14	275	35	20	110	66	38	34	35	60	40	146



Model with shackle



Special version for models YC 2 und YC 3

Trolley clamp CTP

Trolley clamp

1.000 - 3.000 kg

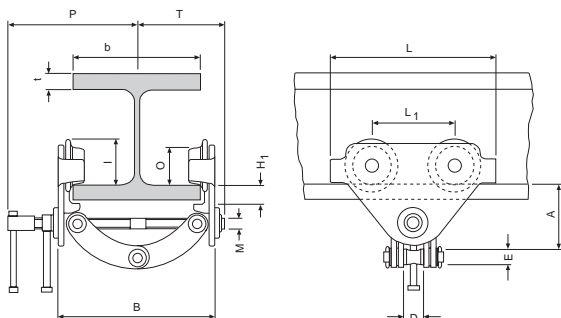
The easy installation to any beam makes the CTP suitable for affixing and moving hoists, pulleys and loads. It can be adjusted quickly to the beam width by turning the main spindle.

Safety is ensured by the special locking lever. The spindle and snap-pin stops are galvanized to protect against corrosion.



Model	Capacity kg	Flange width b mm	Min. curve radius m	Weight kg	Article number
CTP 1 - A	1000	60 - 150	0,60	2,5	0550.0024
CTP 2 - A	2000	75 - 200	0,90	9,9	0550.0025
CTP 2 - B	2000	200 - 300	0,90	10,3	0550.0026
CTP 3 - A	3000	75 - 200	1,15	17,5	0550.0027
CTP 3 - B	3000	200 - 320	1,15	19,5	0550.0028

Capacity kg	Size	A mm	D mm	E mm	H ₁ mm	I mm	L mm	L ₁ mm	M mm	O mm	P mm	T mm	t _{max} mm
1000	A	82 - 109	26	22	20,0	53,0	160	75	M12	46	153	105	15
2000	A	106 - 155	42	20	30,0	71,5	260	130	M18	60	205	139	25
2000	B	136 - 191	42	20	30,0	71,5	260	130	M18	60	255	189	25
3000	A	128 - 171	50	22	30,5	95,5	310	150	M24	80	220	155	25
3000	B	150 - 212	50	22	30,5	95,5	310	150	M24	80	280	215	25



Tine hook TZH



Tine hook

for fastening load hoisting equipment and loads to forklift tines

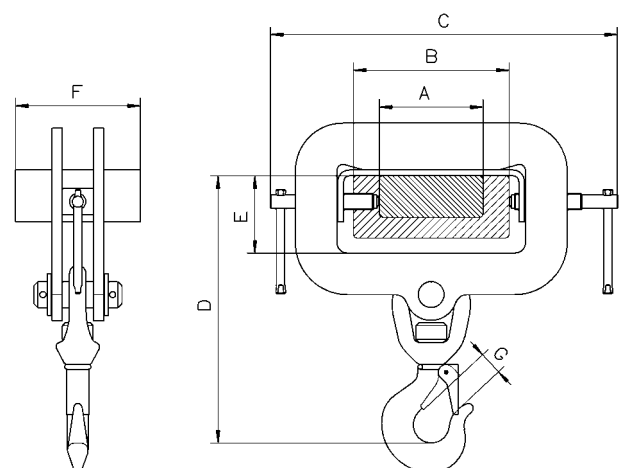
Application

For fastening hoisting equipment and loads to forklift tines.

Function

The TZH are pushed onto the forklift tines and are fastened with 2 spindles. The pivoting as well as swivelling hook with safety latch ensures safety while lifting.

Model	Capacity t	Weight kg	A mm	B mm	C _{min.} mm	C _{max.} mm	D mm	E mm	F mm	G mm	Article number
TZH 1,5/150	1,5	8,5	100	150	310	360	260	74	120	25	5510.0001
TZH 3,0/150	3,0	12,0	100	150	350	400	270	74	120	28	5510.0002
TZH 5,0/150	5,0	16,0	100	150	350	400	295	74	120	34	5510.0003
TZH 5,0/200	5,0	22,0	150	200	440	490	320	94	180	34	5510.0004
TZH 10,0/200	10,0	43,0	150	200	440	490	420	94	180	45	5510.0005



Swivel hooks, pivoting and swivelling

Weld-on hook ASH

Weld-on hook

Capacity 1.000 - 8.000 kg

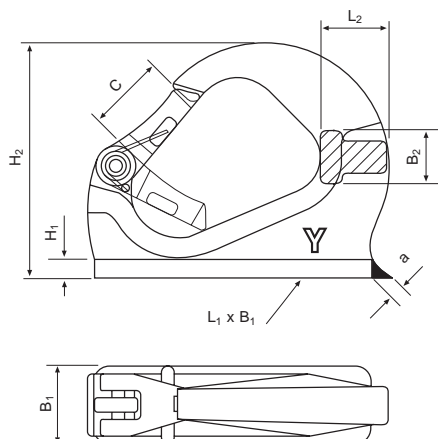
Weld-on hooks model ASH are universal attachments for use on trucks, excavators, low loaders and spreader beams, etc.

The forged safety latch has high lateral stability and an ergonomic form.

Every weld-on hook has an identification number so that its history can be traced back through forging to the origin of the material. The hook can be welded without any special preparation, e.g. prewarming. The hook and safety latch are epoxy resin coated for added corrosion protection, the return spring is made from stainless steel.



Capacity kg	Weld size a	$L_1 \times B_1$ mm	B_2 mm	C mm	H_1 mm	H_2 mm	L_2 mm	Weight kg	Article number
1000	4	90 x 25	17	24	6	76	22	0,40	4100.0104
3000	5	130 x 35	24	29	8	105	28	1,25	4100.0035
5000	5	160 x 45	30	37	10	132	47	2,35	4100.0036
8000	7	170 x 50	40	47	10	138	50	3,60	4100.0037



TIGRIP®

Spreader beam

TTS-E

TTS



Model TTS-E
without adjustability

Spreader Beam

Tigrip spreader beams are the practical and safe choice for either long material to prevent sagging and shifting, or for loads where the weight has to be carefully distributed or suspended from several points. The extensive standard program offers a wide variety of payloads, working widths, adjustable ranges and hooks for common applications.

The heavy-duty and cost-effective standard type is complemented by various special designs made to a customer's specifications. These may include spreader beams with hooks for plate material, or with C-hooks, crane forks, or grabs for bulky and long materials. Special designs with laterally fixed hooks are fitted with slings to pick up rolls, pipes and similar objects. Also available are the so-called "star" spreader beams for picking up cylindrical materials or spreader beams with side hooks and 4-point support which share the easy operation, reliability and safety of all Tigrip spreader beams.



Model TTS
with adjustable hooks and center hook
(Center hook shown is optional)

Table for standard spreader beam TTS-E, without adjustability

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article number
TTS 1,0/1000 E	1,0	1000	19	1140	355	60	110	130	25	15	20	5310.6201
TTS 2,0/1000 E	2,0	1000	21	1140	385	75	135	160	28	20	25	5310.6202
TTS 3,0/1000 E	3,0	1000	30	1140	455	90	160	190	35	25	25	5310.6203
TTS 5,0/1000 E	5,0	1000	54	1190	490	100	180	215	40	30	25	5310.6204
TTS 7,5/1000 E	7,5	1000	81	1190	615	140	260	300	45	35	34	5310.6205
TTS 10,0/1000 E	10,0	1000	98	1190	640	140	260	305	50	40	42	5310.6206
TTS 1,0/1500 E	1,0	1500	25	1640	355	60	110	130	25	15	20	5310.6211
TTS 2,0/1500 E	2,0	1500	33	1640	405	75	135	160	28	20	25	5310.6212
TTS 3,0/1500 E	3,0	1500	58	1640	435	90	160	190	35	25	25	5310.6213
TTS 5,0/1500 E	5,0	1500	81	1690	510	100	180	215	40	30	25	5310.6214
TTS 7,5/1500 E	7,5	1500	115	1690	635	140	260	300	45	35	34	5310.6215
TTS 10,0/1500 E	10,0	1500	143	1690	660	140	260	305	50	40	42	5310.6216
TTS 1,0/2500 E	1,0	2500	45	2640	375	60	110	130	25	15	20	5310.6221
TTS 2,0/2500 E	2,0	2500	80	2640	385	75	135	160	28	20	25	5310.6222
TTS 3,0/2500 E	3,0	2500	104	2640	455	90	160	190	35	25	25	5310.6223
TTS 5,0/2500 E	5,0	2500	165	2690	550	100	180	215	40	30	25	5310.6224
TTS 7,5/2500 E	7,5	2500	212	2690	675	140	260	300	45	35	34	5310.6225
TTS 10,0/2500 E	10,0	2500	246	2690	700	140	260	305	50	40	42	5310.6226
TTS 1,0/3500 E	1,0	3500	104	3640	355	60	110	130	25	15	20	5310.6231
TTS 2,0/3500 E	2,0	3500	133	3640	405	75	135	160	28	20	25	5310.6232
TTS 3,0/3500 E	3,0	3500	171	3640	475	90	160	190	35	25	25	5310.6233
TTS 5,0/3500 E	5,0	3500	255	3690	570	100	180	215	40	30	25	5310.6234
TTS 7,5/3500 E	7,5	3500	313	3690	695	140	260	300	45	35	34	5310.6235
TTS 10,0/3500 E	10,0	3500	402	3690	740	140	260	305	50	40	42	5310.6236
TTS 1,0/5000 E	1,0	5000	181	5140	375	60	110	130	25	15	20	5310.6241
TTS 2,0/5000 E	2,0	5000	230	5140	425	75	135	160	28	20	25	5310.6242
TTS 3,0/5000 E	3,0	5000	280	5140	495	90	160	190	35	25	25	5310.6243
TTS 5,0/5000 E	5,0	5000	402	5190	590	100	180	215	40	30	25	5310.6244
TTS 7,5/5000 E	7,5	5000	537	5190	735	140	260	300	45	35	34	5310.6245
TTS 10,0/5000 E	10,0	5000	596	5190	760	140	260	305	50	40	42	5310.6246

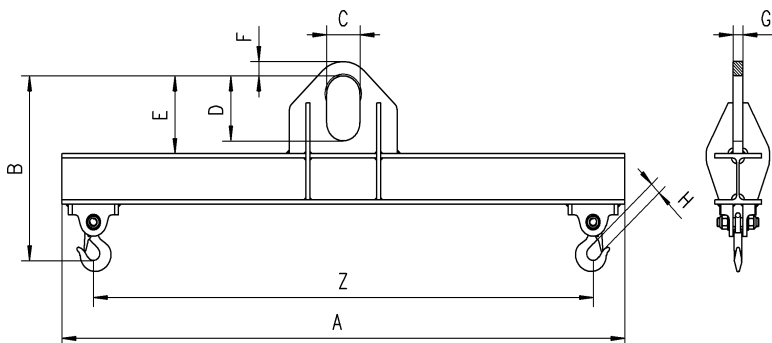
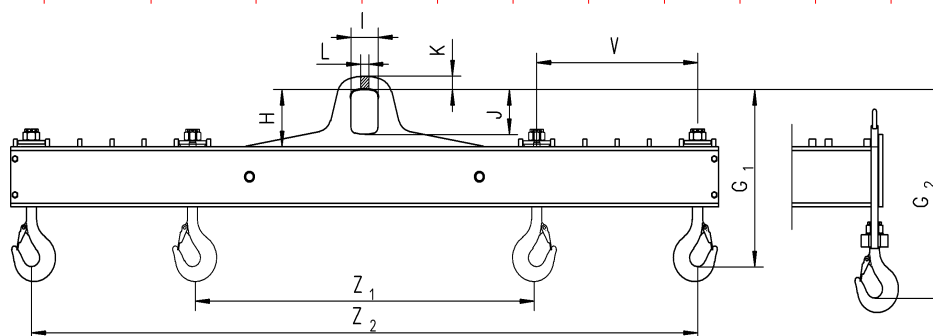


Table for spreader beam TTS, with adjustable hooks

Model	Capacity t	Jaw capacity in mm		Weight kg	G ₁ mm	G ₂ mm	H mm	I mm	J mm	K mm	L mm	V mm	Article number
		Z ₁	Z ₂										
TTS 1,0/1500	1,0	930	1500	38	315	-	100	60	80	28	20	3 x 95	5310.6001
TTS 2,0/1500	2,0	930	1500	52	350	-	120	60	90	33	25	3 x 95	5310.6002
TTS 3,0/1500	3,0	810	1500	83	410	-	140	80	100	35	30	3 x 115	5310.6003
TTS 5,0/1500	5,0	810	1500	109	500	-	190	100	150	40	30	3 x 115	5310.6004
TTS 7,5/1500	7,5	750	1500	135	570	-	230	130	170	60	30	3 x 125	5310.6005
TTS 10,0/1500	10,0	690	1500	152	630	-	250	130	180	70	30	3 x 135	5310.6006
TTS 12,5/1500	12,5	900	1500	164	-	820	280	130	180	75	40	3 x 100	5310.6007
TTS 15,0/1500	15,0	900	1500	182	-	900	300	140	200	80	40	3 x 100	5310.6008
TTS 20,0/1500	20,0	960	1500	215	-	1000	340	160	220	90	50	2 x 135	5310.6009
TTS 25,0/1500	25,0	960	1500	270	-	1070	340	160	220	100	50	2 x 135	5310.6010
TTS 1,0/2500	1,0	1550	2500	62	315	-	100	60	80	28	20	5 x 95	5310.6011
TTS 2,0/2500	2,0	1550	2500	88	370	-	120	60	90	33	25	5 x 95	5310.6012
TTS 3,0/2500	3,0	1350	2500	130	430	-	140	80	100	35	30	5 x 115	5310.6013
TTS 5,0/2500	5,0	1350	2500	163	520	-	220	100	150	40	30	5 x 115	5310.6014
TTS 7,5/2500	7,5	1250	2500	205	610	-	250	130	170	60	30	5 x 125	5310.6015
TTS 10,0/2500	10,0	1150	2500	243	670	-	260	130	180	70	30	5 x 135	5310.6016
TTS 12,5/2500	12,5	1300	2500	254	-	860	280	130	180	75	40	6 x 100	5310.6017
TTS 15,0/2500	15,0	1300	2500	316	-	960	300	140	200	80	40	6 x 100	5310.6018
TTS 20,0/2500	20,0	1420	2500	384	-	1080	340	160	220	90	50	4 x 135	5310.6019
TTS 25,0/2500	25,0	1420	2500	392	-	1150	340	160	220	100	50	4 x 135	5310.6020
TTS 1,0/3500	1,0	2170	3500	90	330	-	100	60	80	28	20	7 x 95	5310.6021
TTS 2,0/3500	2,0	2170	3500	132	390	-	120	60	90	33	25	7 x 95	5310.6022
TTS 3,0/3500	3,0	1890	3500	166	450	-	140	80	100	35	30	7 x 115	5310.6023
TTS 5,0/3500	5,0	1890	3500	235	560	-	190	100	150	40	30	7 x 115	5310.6024
TTS 7,5/3500	7,5	1750	3500	280	630	-	230	130	170	60	30	7 x 125	5310.6025
TTS 10,0/3500	10,0	1610	3500	332	690	-	250	130	180	70	30	7 x 135	5310.6026
TTS 12,5/3500	12,5	1700	3500	387	-	900	320	130	180	75	40	9 x 100	5310.6027
TTS 15,0/3500	15,0	1700	3500	467	-	1165	310	140	200	80	40	9 x 100	5310.6028
TTS 20,0/3500	20,0	1610	3500	598	-	1160	340	160	220	90	50	7 x 135	5310.6029
TTS 25,0/3500	25,0	1610	3500	716	-	1230	340	160	220	100	50	7 x 135	5310.6030
TTS 1,0/5000	1,0	2000	5000	206	-	745	400	60	80	28	20	15 x 100	5310.6031
TTS 2,0/5000	2,0	2000	5000	280	-	795	410	60	90	33	25	15 x 100	5310.6032
TTS 3,0/5000	3,0	2000	5000	330	-	855	420	80	100	35	30	15 x 100	5310.6033
TTS 5,0/5000	5,0	2000	5000	460	-	975	470	100	150	40	30	15 x 100	5310.6034
TTS 7,5/5000	7,5	2000	5000	560	-	1070	490	130	170	60	30	15 x 100	5310.6035
TTS 10,0/5000	10,0	2000	5000	610	-	1135	500	130	180	70	30	15 x 100	5310.6036
TTS 12,5/5000	12,5	2300	5000	660	-	1245	500	130	180	75	40	10 x 135	5310.6037
TTS 15,0/5000	15,0	2300	5000	870	-	1275	530	140	200	80	40	10 x 135	5310.6038
TTS 20,0/5000	20,0	2300	5000	1070	-	1415	530	160	220	90	50	10 x 135	5310.6039
TTS 1,0/8000	1,0	3000	8000	377	-	785	400	60	80	28	20	25 x 100	5310.6040
TTS 2,0/8000	2,0	3000	8000	502	-	835	410	60	90	33	25	25 x 100	5310.6041
TTS 3,0/8000	3,0	3000	8000	657	-	915	420	80	100	35	30	25 x 100	5310.6042
TTS 5,0/8000	5,0	3000	8000	847	-	1055	470	100	150	40	30	25 x 100	5310.6043
TTS 7,5/8000	7,5	3000	8000	1165	-	1130	490	130	170	60	30	25 x 100	5310.6044
TTS 10,0/8000	10,0	3000	8000	1238	-	1235	500	130	180	70	30	25 x 100	5310.6045
TTS 12,5/8000	12,5	3140	8000	1453	-	1290	500	130	180	75	40	18 x 135	5310.6046
TTS 15,0/8000	15,0	3140	8000	1580	-	1355	530	140	200	80	40	18 x 135	5310.6047



Custom spreader beams

Spreader beams
Custom designs



Adjustable spreader beam with side hooks



Spreader beam for turning units



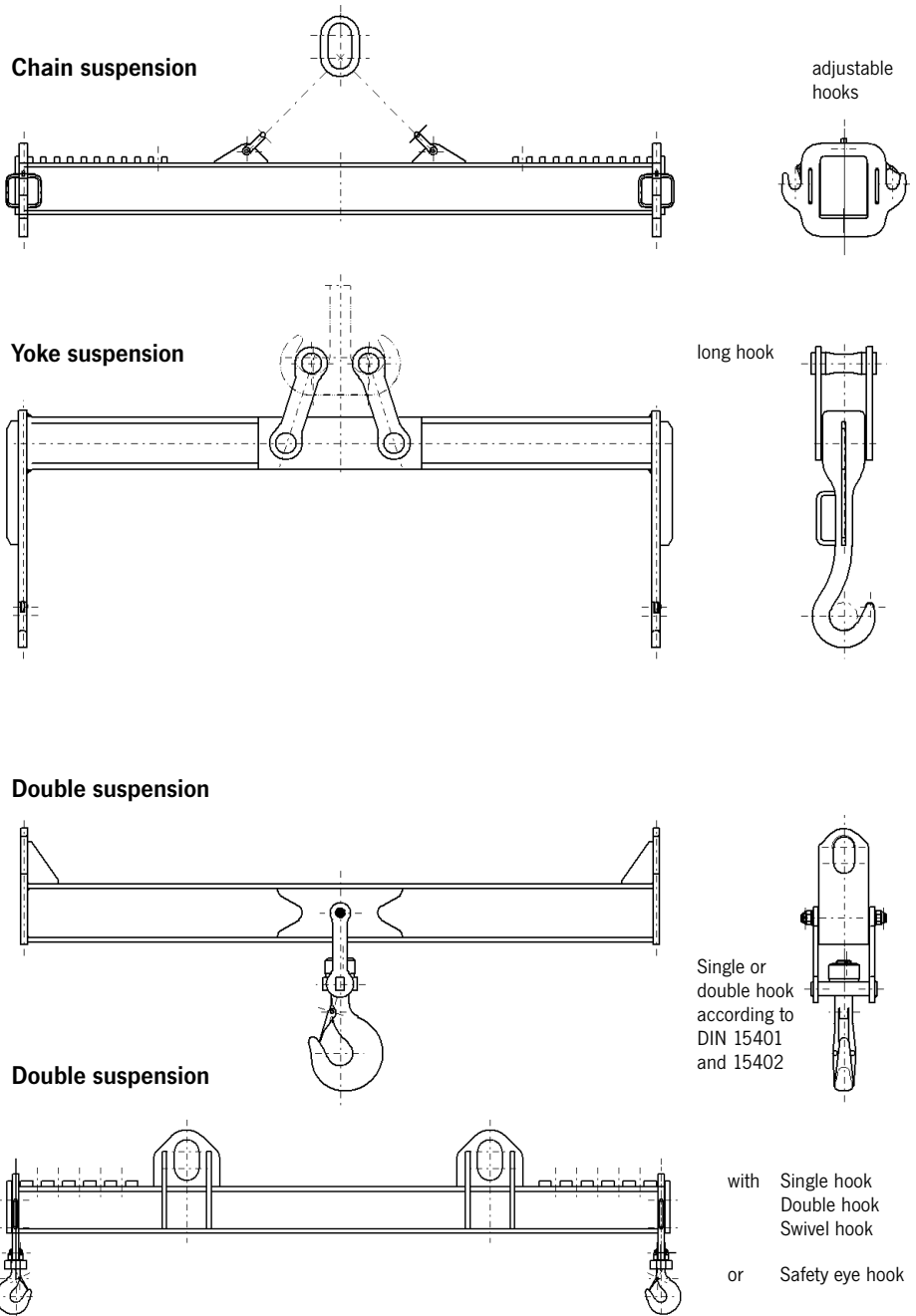
Spreader beam for totes

Custom designs Spreader beams

Spreader beam custom designs Quick overview of our extensive program

Spreader beams are required in the most different versions and designs and often tailor-made for individual applications.

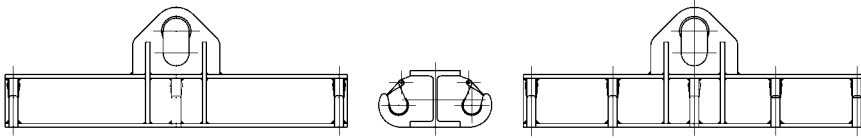
The illustrations given on these pages reflect a small overview of the multitude of various spreader beam possibilities.



Custom designs Spreader beams

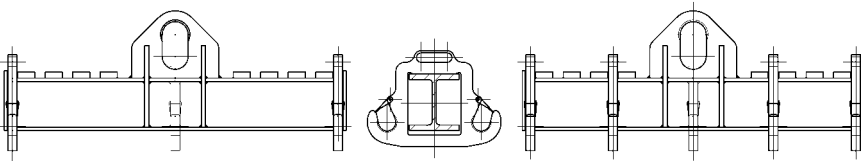
Standard spreader beams

Hooks with safety latch



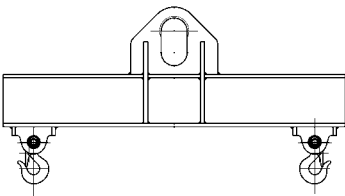
Hooks with safety latch

adjustable



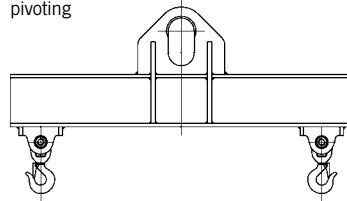
Safety eye hooks

pivoting



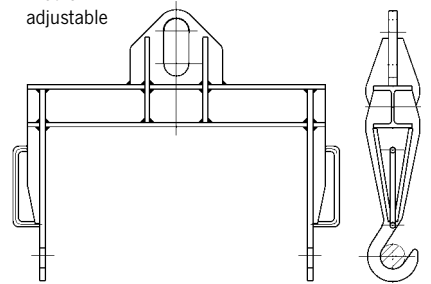
with swivel hooks

swivelling and pivoting



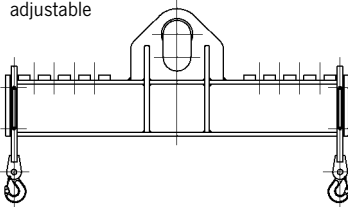
with long hooks

fixed or adjustable



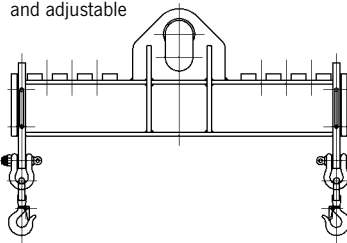
Safety eye hooks

pivoting and adjustable



with swivel hooks

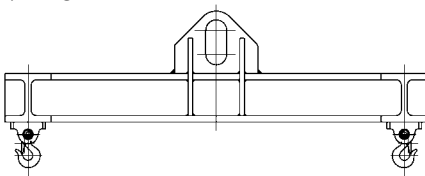
swivelling, pivoting and adjustable



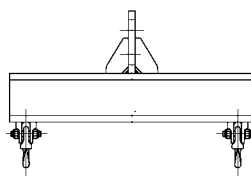
Spreader beams with side hooks

Safety eye hooks

pivoting

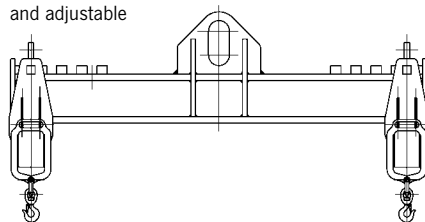


fixed

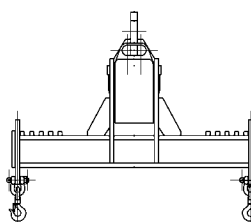


Swivel hooks

swivelling, pivoting and adjustable



adjustable



Spreader beam for box pallets

TTS



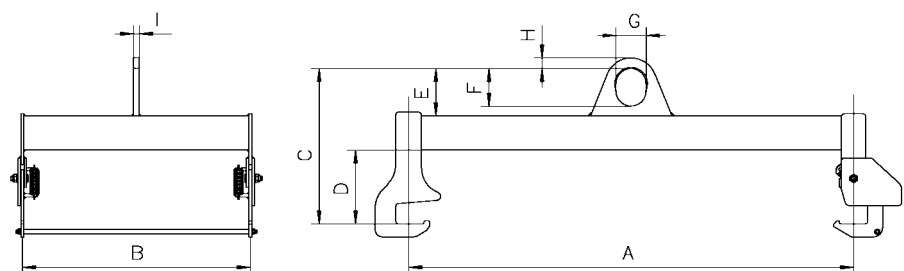
Spreader beam for box pallets

Box pallets with DIN 15155 specifications, are usually moved around with a forklift, but are so sturdy that they can be picked up and transported with a spreader beam grab and an overhead crane hooked up to the top of the box pallet's frame. The Tigrip spreader beam for box pallets integrates the crane for the transport of blanks, semi-finished products and hardware. Thanks to these spreader beams, the shipping and receiving area is no longer entirely dependent on floor-level material handling equipment such as forklifts.

The version designed for the individual transport of box pallets is equipped with two fixed yokes and two pivoted ones, interconnected with a control bar. The load tackling gear is fixed and unfixed by only one person.

Model	Capacity t	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	I mm	Article number
TTS 1,0/1240 - 810	1,0	38	1175	600	410	195	125	100	80	28	15	5320.7001
TTS 2,0/1240 - 810	2,0	68	1175	600	495	215	180	150	100	30	20	5320.7002
TTS 3,0/1240 - 810	3,0	80	1175	600	520	215	205	170	130	40	25	5320.7003

When using these spreader beams, it is important that the hooks be fastened only to the top frame of the box pallets.



Spreader beam for Big-Bag

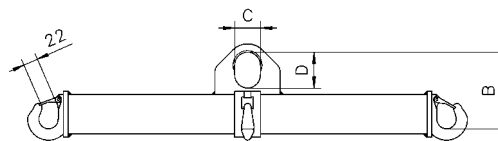
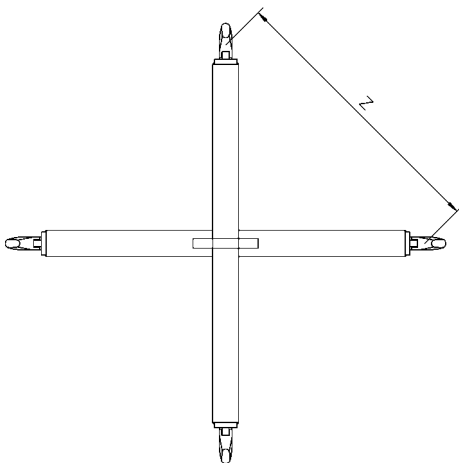
TTB

Spreader beam for Big-Bags

This four-point spreader beam in a fixed frame construction with weld-on hooks and safety latch is designed for lifting and transporting Big-Bags.



Model	Capacity t	Working width Z mm	Weight kg	B mm	C mm	D mm	Article number
TTB 1,0/1090 - 1090	1,0	750 - 800	27	210	60	110	5315.6300
TTB 1,0/1320 - 1320	1,0	900 - 970	33	210	60	110	5315.6301
TTB 2,0/1090 - 1090	2,0	750 - 800	42	240	75	135	5315.6302
TTB 2,0/1320 - 1320	2,0	900 - 970	52	240	75	135	5315.6303



Crane forks

TKG vhs



***The automatic balancing system requires a minimum load of 20% of the crane fork's working load limit.**

Crane forks

with adjustable tines, height adjustability and automatic balancing system

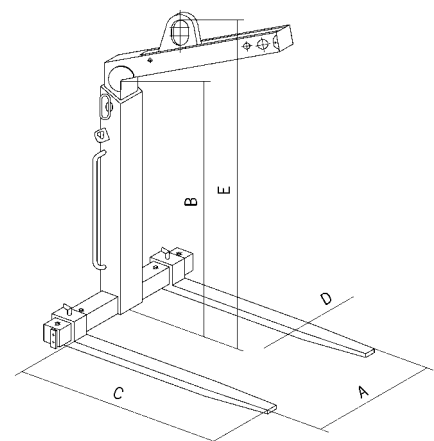
These crane forks are equipped with adjustable tines, height adjustability and an automatic balancing system. Crane forks with automatic balancing* tend to point their tines upward when being transported. This prevents the load from unintentionally slipping off the tines.

The shackle is movable and runs on a track depending on the load. The automatic balancing engages by a pressurized gas spring once the forks are loaded. The load will always be in the center of gravity of the forks, ensuring a safe transport.

- all crane forks comply to the safety specifications from the German trade association
- type-tested 4 to 1 against breakage
- maintenance-free
- highly visible safety color
- for the transport of rings or coils, the fork tines are simply pushed together
- easily adjustable tines for all pallet sizes

Optionally available

- chain for load securing



Model	Capacity	Weight	Adjustment of tines A mm	Useable height B mm	Length of tines C mm	Section of tines D mm	Overall height E mm	Article number
	t	kg						
TKG 1,0 vhs	1,0	140	350 - 900	1100 - 1600	1000	100 x 30	1420 - 1920	5340.7531
TKG 1,5 vhs	1,5	165	350 - 900	1300 - 2000	1000	100 x 40	1650 - 2350	5340.7532
TKG 2,0 vhs	2,0	220	400 - 900	1300 - 2000	1000	120 x 40	1655 - 2355	5340.7533
TKG 3,0 vhs	3,0	280	450 - 900	1300 - 2000	1000	120 x 50	1720 - 2420	5340.7534
TKG 5,0 vhs	5,0	380	500 - 1000	1300 - 2000	1000	150 x 60	1710 - 2410	5340.7535

Crane forks TKG vh

Crane forks

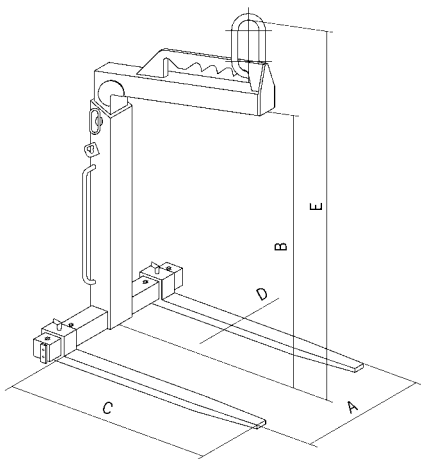
with adjustable tines, height adjustability and manual balancing system

These crane forks are equipped with adjustable tines and height adjustability. The balancing system engages when the shackle is manually hooked into the appropriate notch.

- all crane forks comply to the safety specifications from the German trade association
- type-tested 4 to 1 against breakage
- maintenance-free
- highly visible safety color
- for the transport of rings or coils, the fork tines are simply pushed together
- easily adjustable tines for all pallet sizes

Optionally available

- chain for load securing



Model	Capacity t	Weight kg	Adjustment of tines A mm	Useable height B mm	Length of tines C mm	Section of tines D mm	Overall height E mm	Article number
TKG 1,0 vh	1,0	130	350 - 900	1100 - 1600	1000	100 x 30	1390 - 1890	5340.7511
TKG 1,5 vh	1,5	150	350 - 900	1300 - 2000	1000	100 x 40	1600 - 2300	5340.7512
TKG 2,0 vh	2,0	200	400 - 900	1300 - 2000	1000	120 x 40	1640 - 2340	5340.7513
TKG 3,0 vh	3,0	250	450 - 900	1300 - 2000	1000	120 x 50	1670 - 2370	5340.7514
TKG 5,0 vh	5,0	370	500 - 1000	1300 - 2000	1000	150 x 60	1700 - 2400	5340.7515

Concrete pipe lifting gear

BTG



Concrete pipe lifting gear

Lifting gear for the vertical transport of concrete pipe and culverts must be very versatile. Most important it must be absolutely safe and easy to handle under even the harshest conditions. The Tigrip concrete pipe lifting gear meets all these requirements. It is a three-legged lifting system for the safe and non-marring transport of concrete pipes up to a diameter of Ø 2000 mm and a load of up to 3 t. The jaw capacity is designed for concrete pipe thicknesses from 40 - 220 mm. Attachment and removal of the clamps can be done easily due to the handles that have been incorporated into each clamp.

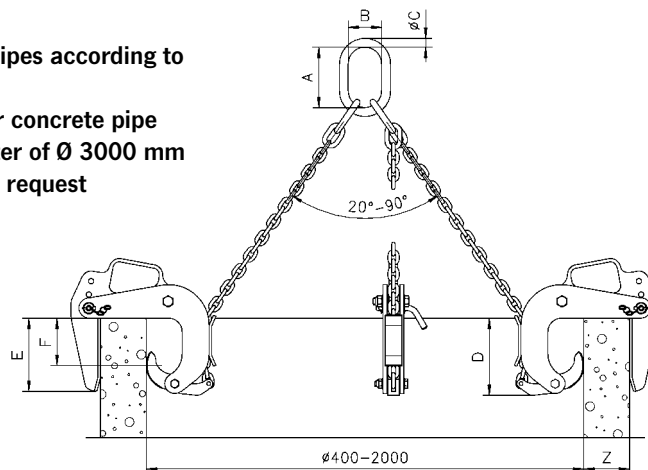
- solid construction
- type-tested 4 to 1 against breakage
- simple and safe handling
- large jaw capacity
- for heavy duty use
- lightweight design
- service-friendly

Model	Capacity t	Jaw capacity Z mm	Mouth depth E mm	Pressure line F mm	Weight kg*	A mm	B mm	Ø C mm	D mm	Article number
BTG 1,5/120	1,5	40 - 120	165	100	10	135	75	18	180	5460.9200
BTG 3,0/180 TM-N	3,0	50 - 180	245	175	18	180	100	26	310	5460.9204
BTG 3,0/220 TM-N	3,0	90 - 220	245	175	24	180	100	26	310	5460.9206

*) per clamp

For concrete pipes according to DIN 4034.

Lifting gear for concrete pipe up to a diameter of Ø 3000 mm available upon request



Trench shield grab TCP

Trench shield grab for the transport of trench shields

Application

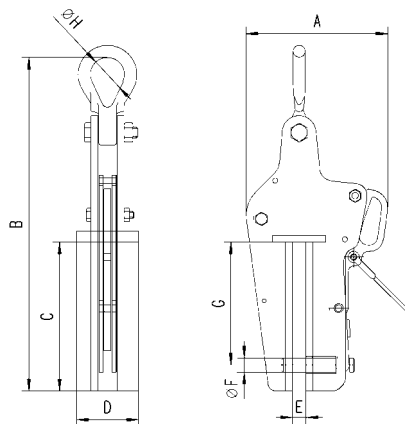
The TCP trench shield grab is suited to the erecting and transporting of trench shields for shoring.

Function

Once the grab is set onto the trench shield, a spring-loaded bolt ratches into the plank. Unbolting is done with the 15 m pull cord attached to the grab.



Model	Capacity t	Weight kg	A mm	B mm	C mm	D mm	E mm	Ø F mm	G mm	Ø H mm	Article number
TCP 1,5	1,5	19	207	488	218	90	18	20	180	50	5600.0001
TCP 3,0	3,0	23	226	517	218	100	24	24	180	63	5600.0002
TCP 5,5	5,5	33	269	575	218	120	24	30	180	89	5600.0003



Trench shield clamp

TPP

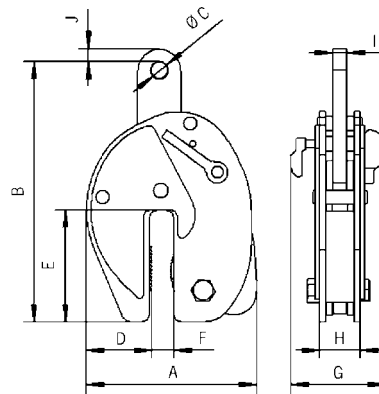
Trench shield clamp

The TPP trench shield clamp is like a plate clamp in construction, but has a substantially larger mouth depth.

The compact construction combined with the a high working load limit makes it ideal for pulling trench shields out of the ground. A safety lock prevents the accidental opening of the clamp.



Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	Article number
TPP 3	3,0	0 - 20	16	224	325	20	88	147	25	123	60	20	18	5150.2418
TPP 8	8,0	0 - 30	28	294	445	30	109	194	42	146	72	25	26	5150.2416
TPP 12	12,0	0 - 30	52	361	486	40	145	190	41	167	90	30	32	5150.2417



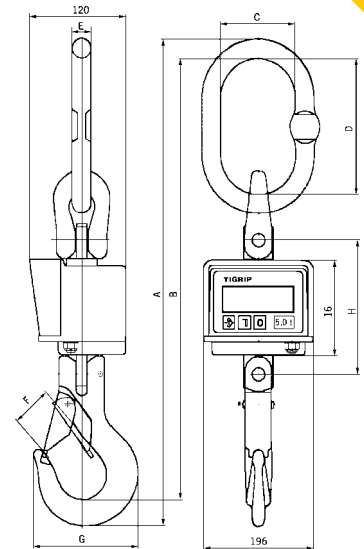
Crane weigher TKA

Crane weigher

The TKA crane weigher is a compact measuring device for the weighing of materials. Appropriate tackle can be attached to assist in the lifting and weighing. The crane weigher has a liquid crystal display (LCD), which can tare as well as show either the gross or the net load. It also indicates the overload protection at 110% of the gross weight and the status of the battery.

Features

- high accuracy
- lightweight design
- easy-to-read display
- easy to use
- excellent quality
- sturdy design
- retains the max. value to memory
- rechargeable, with integrated storage battery



Model	Measuring range kg	Weight incl. tackle in kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article number
TKA 1,0	0 - 1000	3,0	395	362	60	110	13	20	70	134	5390.8410
TKA 2,0	0 - 2000	3,6	423	385	60	110	16	25	81	142	5390.8420
TKA 3,2	0 - 3200	5,9	502	455	75	135	18	32	103	154	5390.8432
TKA 5,0	0 - 5000	7,3	585	528	90	160	22	40	126	162	5390.8450
TKA 8,0	0 - 8000	10,5	671	602	100	180	26	49	152	172	5390.8480

Includes

Crane weigher, battery charger (3 V, 700 mA), carrying case, test certificate

Optionally available

Hand-held remote control with cable



Technical data

Model	TKA 1,0	TKA 2,0	TKA 3,2	TKA 5,0	TKA 8,0
Nominal load	1 t	2 t	3,2 t	5 t	8 t
Limit load	1,1 t	2,2 t	3,5 t	5,5 t	8,8 t
Breaking load	≥ 4 t	≥ 8 t	≥ 13 t	≥ 20 t	≥ 32 t
Accuracy	0,1% of nominal load				
Resolution step	0,5 kg	1 kg	1 kg	1 kg	2 kg
Operation time*	ca. 200 h at 20° C				
Temperature range (operation)	-10° C to +50° C				
Temperature range (storage)	-20° C to +70° C				
Protection standard	IP 54				
Display	LCD 20,5 mm high, 4 1/2 digits				
Tare range	100% actual load				
Overload warning	activated at 110% nominal load				

*with one battery charging

TIGRIP®

Crane weigher

TKF

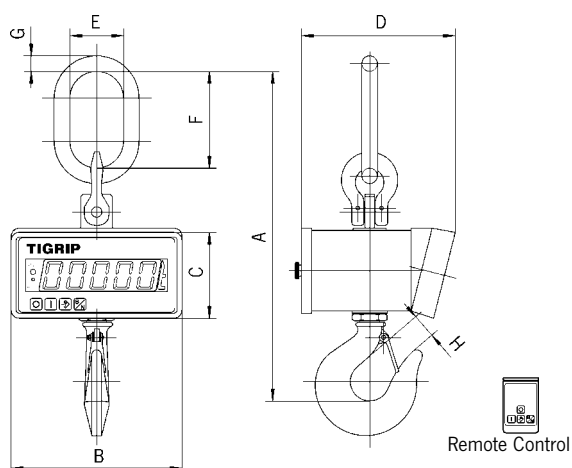


Crane weigher with digital display and Infra-red remote control

Technical information

Display increments:	1 kg at 1 - 5 t 10 kg at 10 - 40 t
Operation time:	approx. 30 working hours (at 20° C)
LED display:	height 50 mm, 4½ digits
Tare range:	100% of final value
Overload warning:	actual weight will blink
Power supply:	replaceable storage battery with battery charger (lead accu, 12 V/12 Ah maintenance-free)
Low battery warning:	battery “-“ blinks for approx. 1 hour before shutting off
Remote control:	infra-red remote control of all functions
Test load:	200% of WLL
Safety factor:	500% of WLL
Protection:	IP 54
Accuracy:	± 0,1% of WLL
Optionally available:	summation function

Model	Measuring range kg	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	Article number
TKF 5	0 - 5000	17	560	350	183	350	90	160	22	38	5500.8602
TKF 10	0 - 10000	28	680	350	183	350	110	200	32	48	5500.8603
TKF 20	0 - 20000	59	870	350	183	350	150	250	40	70	5500.8604
TKF 30	0 - 30000	87	970	350	183	350	180	300	45	82	5500.8605



Features

- high accuracy
- lightweight design
- easy-to-read display
- easy to use
- excellent quality
- sturdy design

Includes

Crane weigher with integrated replaceable storage battery, battery charger, remote control device and exchangeable storage battery.

Load indicator with digital display

Technology

The Tigrip TKZ is a mechanical load indicator with liquid crystal display (LCD). Wear and tear is nearly non-existent due to the absence of moving parts.

Operation

Once the digital load indicator is suspended, the unit is turned on by pressing the "O" button on the front of the unit under the display where all 3 functions are located. Pressing the "T" button sets the display to 0. This tare function gives a net as well as a gross load reading. The "I" button allows to switch between the gross and net load readings. The Tigrip load indicator has universal applications. Whether used as a conventional crane weigher or to measure forces, it is the economical choice for various applications. It can be used in conjunction with shackles and hooks. The included remote control allows you to take readings from a distance.

Technical Information

Accuracy:	± 0,2% of WLL
Resolution step:	10 kg
Operation time:	approx. 200 working hours (at 20°C)
Display:	LCD height 20,5 mm, 4½ digits
Temperature range:	-10°C to +50°C
Tare range:	100% of final value
Overload warning:	actual value will blink (regardless of tare)
Power supply:	integrated NC battery (battery charger included)
Low battery warning:	digits and decimals of the actual value blink for approx. ½ hour before shutting off
Test load:	200% of WLL
Safety factor:	500% of WLL
Protection:	IP 54
Remote range and operation:	buttons and LCD with 10 m connector cable



Includes

Digital load indicator, battery charger, wire remote control with tare capability and 10 m connector cable. Complete with plastic carrying case, but without shackles and hooks.

TKZ 2.5 and 5.0 come without wire remote control.

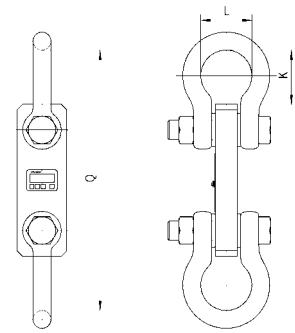
Dimensions TKZ see next page

Digital load indicator

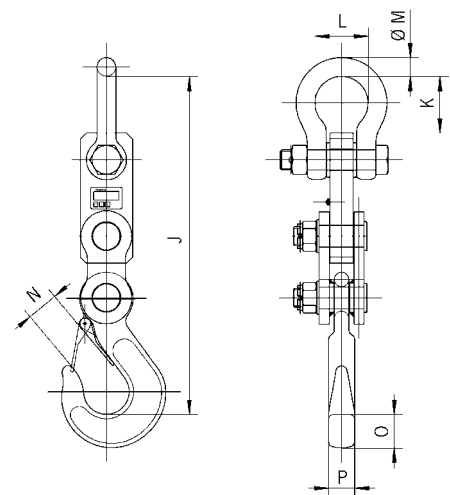
TKZ



TKZ Load indicator with shackle

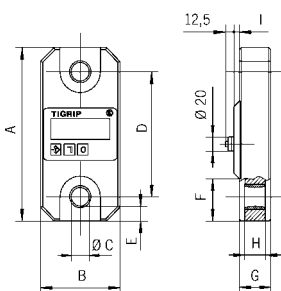


TKZ Load indicator with hook

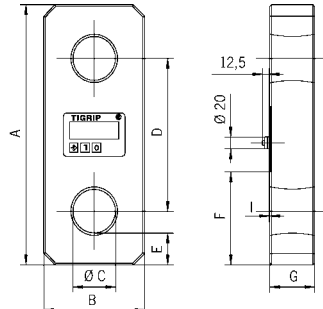


Model	Measuring range in t	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	I mm	J mm	K mm	L mm	Ø M mm	N mm	O mm	P mm	Q mm
TKZ 2,5	0 - 2,5	2,8	247	118	22	179	26,0	75	47	24	8	610	34	38	16	15	23	17	315
TKZ 5	0 - 5,0	3,4	250	118	27	180	21,5	60	47	31	8	610	50	44	19	32	37	28	350
TKZ 10	0 - 10,0	4,4	325	118	48	213	32,0	106	47	-	8	690	105	95	35	50	63	44	535
TKZ 20	0 - 20,0	7,6	378	141	55	233	45,0	132,5	57	-	1	780	92	95	35	70	80	57	562
TKZ 35	0 - 35,0	10,0	405	156	64	245	48,0	146	70	-	1	1000	130	114	44	110	123	90	665
TKZ 50	0 - 50,0	25,0	450	180	76	264	55,0	161	80	-	1	1170	140	132	51	115	132	97	730
TKZ 100	0 - 100,0	41,0	640	260	100	380	80,0	270	99	-	1	-	300	238	89	-	-	-	1240

Digital load indicator
2,5 t and 5 t



Digital load indicator
10 t to 100 t



Model	Load indicator Article no.	Shackle Article no.	Hook Article no.
TKZ 2,5	5380.8305	4200.0063	5381.8351
TKZ 5	5380.8306	4200.0076	5381.8352
TKZ 10	5380.8301	4200.0069	5381.8322
TKZ 20	5380.8302	4200.0069	5381.8324
TKZ 35	5380.8303	4200.0071	5381.8326
TKZ 50	5380.8304	4200.0072	5381.8328
TKZ 100	5380.8307	4200.0075	-

Steerman® Heavy load moving systems

This universal heavy load moving system has been designed and engineered for the safe and economical transport of loads up to 100 tonnes.

By combining various trolley modules the movement of even heavier loads is possible.

Under normal conditions heavy loads (machines, construction elements, steel fabrications) are transported by means of a stable 3-point system.

For the transport of exceptionally large loads or loads with an unusual center of gravity the modules can easily be adapted to create a 4-point system.

- Due to the modular construction the system is extremely easy to operate and provides a multitude of individual combinations.
- All trolleys are easy running and guarantee minimum rolling resistance even with heaviest loads.
- Using multi-rollers (instead of single wide rollers) a low rolling resistance is achieved even on the tightest curves.



The trolleys are engineered for professional applications and are practically maintenance-free.

All systems are designed for the most exacting safety requirements.





Yale Hoisting equipment

Yale hoists are world renowned lifting appliances with proven reliability for industry and service. The comprehensive range comprises of the following manual and powered products:

- Ratchet lever hoists
- Hand chain hoists
- Travelling trolleys and clamps
- Manual cable pullers
- Electric and air chain hoists
- Electric and air wire rope winches

Loads of 250 through 20.000 kg are safely lifted and transported.

Yale hoists have been designed for long life endurance and low cost maintenance and repair. They comply with national and international regulations and standards and are in conformity with Machinery Directive 89/392.

Their production is subject to the controlled standards of DIN ISO 9001.

Every unit is delivered with works test certificate, operating instruction with integrated EC declaration of conformity.

Please ask for our catalogue
„Yale Hoisting Equipment“

Yarlie

Ya

402 6587

Yale Flat webbing and round slings

Yale flat webbing slings and round slings are made from high tensile polyester (PES) in accordance with DIN 61360 and colour coded as per current CEN standard.

Flat webbing slings are duplex construction from PU-starched, thermally fixed web fabric.

Available with soft sewn eyes or steel links in capacities up to 10 tons. Higher capacities and special lengths on request.

Round slings are double-fabric outer casing PU-finished, thermally fixed. Available in capacities up to 10 tonnes. Higher capacities on request.

Yale Ratchet lashings

Yale ratchet lashings are made from polyester, heat set, stretched, PU impregnated and in compliance with DIN 60060. Available in endless configuration or with various hook or claw attachments. Capacities up to 10 tonnes. Special lashings on request.



Please ask for our catalogue
„Flat Webbing & Round Slings
Ratchet Lashings“



Jib cranes and gantry cranes

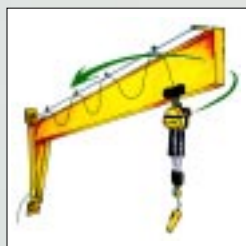
Wall-mounted jib cranes Floor-mounted jib cranes Gantry cranes

There is an ever increasing need of individual solutions for load moving applications.

Yale wall- and floor-mounted jib cranes as well as gantry cranes are an economic addition to material handling systems.

Yale offers a comprehensive range of standard cranes. They are of robust construction, simple to install and easy to operate.

Yale cranes fulfil all the regulations according to DIN 15018 and the EC machinery directives.



Call us!

We will be pleased to inform you about our new programme „Yale cranes“.





Hydraulic jacks Hydraulic tools

A characteristic of this „force oriented“ hydraulic programme is the operating pressure which can be as high as 700 bar. This guarantees the simple and safe generation of highest forces. In spite of this the units remain compact, portable and easy to operate. High pressure hydraulic systems of this type are used in universal assembly and repair operations whereby their application in day to day operations is almost unlimited. The component programme allows the individual configuration of simple and also complex system solutions.

They are used in following main industrial areas:

Heavy industry, mining, shipbuilding, offshore, aviation industries, power stations, steel construction, steel making and processing, building construction, bridge and tunnel construction, heavy steel and tank construction, metal processing workshops, and many more.



Please ask for our catalogue
„Yale Hydraulic Jacks and Hydraulic Tools“.



We offer many different training seminars in our new training centre in Velbert. The centre offers not only product training but also seminars that provide the trainee with up-to-date insider information and a consolidated knowledge in the usage of rope, lifting and lashing practices.

Modern communication technologies, hands-on experience and well designed training documentation guarantee a quick and lasting training success. As required all training seminars can also be held at other locations.

Seminars on special themes on request.

Training to become a competent person for the inspection of Yale hoisting equipment according to UVV VBG8

According to German laws and standards all hoisting equipment must be subjected to a mandatory inspection at least once a year.

The inspection must be performed by a competent person.

In this seminar the participants are trained according to the safety regulations and by hands-on repair

to be qualified to perform the safety inspections.

Target group

Members from all industrial areas who are entrusted with the inspection, service and repair of hoisting equipment.



Basic slinging practices

The German safety pamphlet (Sicherheitslehrbrief für Anschläger), issued by the employer's liability insurance association (Berufsgenossenschaft), provides useful information for attaching loads in day to day operations. To protect oneself and others from the dangers of attached loads the rules contained in this pamphlet must be complied with at all times. The rules and their application are described in great detail.

Target group

Members from all industrial areas who are entrusted with attaching loads.



Issued by:
Arbeitsgemeinschaft
der Metall-Berufsgenossenschaften
Hütten- und Walzwerks-Berufsgenossenschaft, Düsseldorf
Maschinenbau- und Metall-Berufsgenossenschaft, Düsseldorf
Norddeutsche Metall-Berufsgenossenschaft, Hannover
Süddeutsche Metall-Berufsgenossenschaft, Mainz
Edel- und Unedelmetall-Berufsgenossenschaft, Stuttgart
Can be obtained from:
Carl Heymanns Verlag KG
Luxemburger Straße 449, 50939 Köln



Target group

Members from all industrial areas who are entrusted with lashing loads.

Securing loads on trucks

Serious accidents are often caused because the people responsible for tying/lashing down loads are not properly trained to recognise all implications of this process.

In this seminar the participants are trained to use lashing equipment correctly.

Introducing Yale

- The trademark Yale dates back to Linus Yale jnr. who invented and developed the revolutionary pin-tumbler cylinder lock, world renowned as the Yale lock.
- 1868 Together with his partner Henry R. Towne Linus Yale jnr. establishes the first Yale lock factory in Stamford, Connecticut named The Yale and Towne Manufacturing Company.
- 1875 Acquisition of the patents right to the Weston differential pulley block and the start of Yale hoist production.
- 1877 Yale designs the first spur geared hand chain hoist with incorporated Weston screw-and-disc type load brake.
- 1904 Yale sets up first sales operations in Germany, England and France.
- 1920 By acquisition of C. L. Hunt, a renowned manufacturer of electric platform trucks, Yale enters the materials handling equipment business with electric fork lift trucks and production facilities in Germany and England.
- 1927 Concentration of production and distribution in Velbert. Acquisition of the lock manufacturing company Boge & Kasten, Solingen and access to the marketing rights under the trademark BKS.
- 1936 Start of hoist manufacture in Velbert with production of the world renowned Yale Pul-Lift® ratchet lever hoist. This robust and reliable tool was (and still is) the key product establishing Yale's reputation in hoisting technology in Europe and abroad. Until now more than one million Yale Pul-Lift® units have been built at the Velbert plant alone.
- 1952 Start of fork lift truck production in Velbert.
- 1963 Merger between Eaton Corporation and Yale & Towne Manufacturing.
- 1983 In USA Eaton Corporation sells the Yale hoist product line to Yale Industrial Products, Inc.
- 1985 Production and distribution of Yale hoisting equipment in Europe is taken over by Yale Industrial Products GmbH in Velbert, Germany with representations in various countries and subsidiaries in the U.K, France and Austria. During the following years the product offering of Yale Industrial Products GmbH was enlarged by
- 1988 Hydraulic Jacks and Tools
- 1994 Flat Webbing & Round Slings, Ratchet Lashings
- 1995 Little Mule® Pallet Trucks and Stackers
- 1998 Steerman® Heavy Load Moving Systems
- 1999 Tigrip® Lifting Clamps and Weighing Systems



Today Yale Industrial Products GmbH of Velbert is a member of a worldwide operating enterprise in the field of materials handling equipment. The company manufactures and distributes a comprehensive range of hoists and lifting clamps, textile slings and ratchet lashings, dynamometer systems and crane weighers, a wide range of hydraulic jacks and tools as well as the Little Mule® programme of pallet trucks and stackers. Qualified personnel at the Yale locations in Germany, the U.K., France, Austria and South Africa as well as representations in Europe, America and Asia provide competent know-how and service. Yale logistics with worldwide distribution allows short lead times and international availability. Yale Industrial Products GmbH is known for a market and product orientated policy, a number of strong product names and a leading European market position in the field of standard manual hoisting equipment.



Product Documentation

Every unit is delivered with operating instruction, CE declaration of conformity resp. manufacture and a works test certificate, which confirms the perfect tested status of the product. Additional documentation, e.g. spare parts manuals or maintenance and repair instructions are available on request.



DIN EN ISO 9001

Yale Industrial Products GmbH manufactures world wide according to uniform, controlled standards of DIN EN ISO 9001. All Yale locations are certified. This is a guarantee for our business partners that given standards in design and development, manufacturing, assembly and service are complied with.



(DIN EN ISO 9001 issue August 1994)
Certified since November 1991

Special Documentation

Additional inspections with test report 2.2 resp. inspection certificate 3.1.B according to DIN EN 10204 or specific pre-shipment inspections e.g. by DNV or GL can be carried out at cost on request.

