# **TIGRIP**<sup>®</sup> Load Hoisting Tackle and Crane Weighers



Catalogue 13

Yale Industrial Products GmbH

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for the transport of steel and stainless steel metal, particle board and plastic sheets



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#### Grabs and clamps

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





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# Plate clamp TBL



TBL 0,5 t

### 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.

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	l mm	EAN-Nº 4025092*
TBL 0,5	0,5	0 - 16	1,5	99	195	29	33	47	50	48	11	16	*550000
TBL 1,0	1,0	0 - 20	3,0	126	225	50	49	70	82	55	12	20	*550017
TBL 2,0	2,0	0 - 32	9,3	192	312	80	75	96	100	81	20	24	*550024
TBL 3,0	3,0	0 - 32	9,3	192	312	80	75	96	100	81	20	24	*550048

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	EAN-N° 4025092*
TBL 4,0 S	4,0	0 - 32	11,2	197	339	80	68	93	110	20	32	*556545
TBL 4,0 L	4,0	30 - 60	11,9	228	339	80	68	100	110	20	32	*556596
TBL 6,0 S	6,0	0 - 50	20,6	293	442	89	95	143	129	20	35	*557221
TBL 6,0 L	6,0	50 - 100	23,2	362	482	89	114	143	129	20	35	*556583
TBL 8,0 S	8,0	0 - 50	24,2	293	450	89	95	143	129	20	42	*557245
TBL 8,0 L	8,0	50 - 100	28,8	362	482	89	114	143	129	20	42	*557269
TBL 10,0 S	10,0	0 - 50	29,5	293	503	110	95	143	139	25	45	*557283
TBL 10,0 L	10,0	50 - 100	35,1	362	503	110	114	143	139	25	45	*557306
TBL 12,0 S	12,0	0 - 50	52,1	360	550	130	125	162	154	30	55	*557320
TBL 12,0 L	12,0	50 - 100	63,0	460	615	130	175	162	154	30	55	*557344
TBL 15,0 S	15,0	0 - 50	76,0	360	550	130	125	162	204	45	55	*552936
TBL 15,0 L	15,0	50 - 100	86,0	460	615	130	175	162	204	45	55	*552943
TBL 20,0 S	20,0	0 - 65	123,0	462	674	130	165	210	235	45	65	*552950
TBL 20,0 L	20,0	65 - 130	135,0	560	724	130	195	210	235	45	65	*551892
TBL 30,0 S	30,0	0 - 65	195,0	462	667	60	165	210	295	65	66	*552967
TBL 30,0 L	30,0	65 - 130	256,0	560	732	60	195	210	295	65	67	*552974

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# Plate clamp TBS



### 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.

In addition to transporting plate, this clamp is wellsuited to turning over steel structures and welded constructions.

Model	Capacity	Jaw capacity Z	Weight	A	B	Ø C	D	E	F	G	H	l	EAN-Nº
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TBS 1,0	1,0	0 - 20	4,6	126	270	50	49	70	95	63	12	23	*550031
TBS 2,0	2,0	0 - 32	14,3	192	382	80	75	96	132	92	20	30	*550086
TBS 3,0	3,0	0 - 32	14,3	192	382	80	75	96	132	92	20	30	*550079





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

### 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!

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	l mm	EAN-Nº 4025092*
TBS 4,5	4,5	0 - 50	34,4	292	675	90	180	27,8	95	143	135	185	*550352
TBS 6,0 S	6,0	0 - 50	38,0	292	737	95	176	27,8	95	143	137	188	*550383
TBS 6,0 L	6,0	50 - 100	42,0	367	785	98	180	27,8	115	143	135	188	*551250
TBS 8,0 S	8,0	0 - 50	39,0	292	737	98	176	27,8	95	143	136	210	*552578
TBS 8,0 L	8,0	50 - 100	42,4	367	785	98	180	27,8	115	143	136	210	*557528
TBS 10,0 S	10,0	0 - 50	68,0	360	903	110	195	33,0	125	162	170	223	*552516
TBS 10.0 L	10.0	50 - 100	80.0	446	921	112	195	33.0	168	162	170	223	*557542









# TIGRIP

### Plate clamp TBS



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# 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 measure-

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

Model	Capacity t	Jaw width mm	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	l mm	J mm	K mm	EAN-N° 4025092*
TAG 0,35/100	0,35	100	0 - 100	8,7	264	259	128	100	100	85	550	75	121	20	78	*550413
TAG 0,35/200	0,35	200	90 - 200	16,3	382	434	195	156	200	120	760	75	121	20	90	*551724
TAG 0,75/100	0,75	100	0 - 100	8,6	264	259	128	100	100	85	550	75	121	20	83	*550253
TAG 0,75/200	0,75	200	90 - 200	16,6	382	434	195	156	200	120	760	75	121	20	90	*552806
TAG 1,25/100	1,25	100	0 - 100	14,9	320	289	128	100	100	85	570	75	121	20	83	*550468
TAG 1,25/200	1,25	200	90 - 200	24,3	382	434	195	156	200	120	760	75	121	20	90	*551502
TAG 2,0/100	2,00	100	0 - 100	20,8	328	415	135	115	100	105	571	75	121	20	105	*550642
TAG 2,0/200	2,00	200	90 - 200	29,1	375	515	195	165	200	160	750	75	121	20	105	*551366
TAG 3,0/90	3,00	90	5 - 90	26,5	297	290	136	106	90	91	570	82	111	32	137	*550840
TAG 5,0/90	5,00	90	5 - 90	30,5	297	290	136	106	90	91	570	82	111	32	147	*550345
TAG 5,0/170	5,00	170	80 - 170	43,8	354	423	180	155	170	118	620	82	111	32	147	*551915
TAG 10,0/100	10,00	100	0 - 100	70,0	405	423	160	130	100	160	720	102	144	40	208	*552059
TAG 10,0/200	10,00	200	100 - 200	105,0	440	562	200	175	200	183	840	102	144	40	208	*553001



Tigrip-Universal grab in use



# 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	l mm	J mm	K mm	L mm	M mm	EAN-Nº 4025092*
TTG 0,5	0,5	0 - 20	2,9	50	36	25	148	200	27	20	95	110	10	56	85	13	*557931
TTG 1,5	1,5	0 - 30	6,8	70	43	35	140	180	40	30	155	230	15	50	100	16	*550239
TTG 3,0	3,0	0 - 35	11,3	80	55	42	180	214	40	32	190	284	20	60	114	20	*550192
TTG 4,5	4,5	0 - 40	14,8	90	60	46	196	248	40	35	207	314	20	64	117	25	*550451
TTG 7,5	7,5	0 - 45	30,0	110	64	55	222	304	50	42	237	367	22	90	143	30	*551205







### Girder grab TTR

### Girder grab

for vertical transport

The girder grab TTR is designed for vertical transport, especially 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 "lockopen" feature.



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	l mm	K mm	EAN-N° 4025092*
TTR 0,75	0,75	5 - 16	3,1	20,5	37	128	62	153	118	50	12	15	58	*550499
TTR 1,50	1,50	5 - 25	6,8	34	53	180	76	203	142	70	20	19	101	*550246
TTR 3,00	3,00	5 - 28	10,9	37	57	194	81	208	157	76	20	25	90	*550550







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

# Girder grab



### Girder grab

#### for the horizontal transportation of girders

The girder grab TTT finds its use in the transportation of steel girders. Due to the split fixed jaw, it can be positioned centrally on the end of the beam. The grab, as a matter of principle should only be used in pairs. The safety lock with positive spring tension holds the grab in position on the end of the girder even without load tension. The lever allows the easy opening and closing of the grab jaw and holds it in the open position. Through this, the safe transportation is warranted.



Model	Capacity t	Jaw capacity mm	Weight kg	A mm	B mm	C mm	D mm	ØE mm	F mm	G mm	H mm	l mm	J mm	K mm	L mm	EAN-Nº 4025092*
TTT 0,75	0,75	0 - 20	3,0	30	70	100	142	50	16	16	225	45	200	106	52	*558501
TTT 1,5	1,50	0 - 35	6,0	38	70	155	150	70	19	20	335	45	210	120	66	*558518
TTT 3,0	3,00	0 - 40	10,0	50	75	195	195	80	19	25	400	80	214	125	80	*558525
TTT 4,5	4,50	0 - 45	16,0	60	90	222	222	90	22	30	450	90	248	147	88	*558532









### Screw clamp TSH

### 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.



Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	X mm	EAN-N° 4025092*
TSH 1,5	1,5	0 - 32	7,4	255	65	26	75	130	44	40	*550123
TSH 3,0	3,0	0 - 50	11,4	290	74	30	85	170	50	40	*550154
TSH 5,0	5,0	0 - 80	27,6	470	130	50	135	225	72	50	*550215





### 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 handtightened 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.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	Ø B mm	C mm	D mm	E mm	F mm	G mm	EAN-N° 4025092*
TSD 1,5	1,5	0 - 35	4,8	191	35	24	15,5	60	105	50	*550598
TSD 3,0	3,0	0 - 35	8,1	235	46	34	17,0	67	120	60	*550864
TSD 5,0	5,0	0 - 40	14,5	275	55	40	17,5	85	150	75	*551717
TSD 7,5	7,5	0 - 40	18,1	295	65	50	22,0	92	162	80	*550987







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### 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 handtightened 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.

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	l mm	J mm	EAN-Nº 4025092*
TSZ 0,5	0,5	0 - 28	2,3	28	43	45	125	72	83	26	16	12	35	*555739
TSZ 1,5	1,5	0 - 35	5,6	35	60	55	158	93	99	35	24	16	50	*555746
TSZ 3,0	3,0	0 - 35	8,8	35	67	65	195	114	120	46	34	17	60	*555753
TSZ 5,0	5,0	0 - 40	16,2	40	85	75	230	133	150	55	40	18	75	*555760
TSZ 7,5	7,5	0 - 40	20,9	40	92	75	240	143	162	65	50	23	80	*555777



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### 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.

	n anala haturaan
i ne to	p angle between
chain/	rope legs is 30° - 45°

Model	Capacity**	Weight**	A	B	C	D	E	EAN-N°
	t	kg	mm	mm	mm	mm	mm	4025092*
BVH 0,5	0,5	1,1	180	50	80	18	150	*557023
BVH 1,0	1,0	1,4	210	60	95	20	170	*557047
BVH 1,5	1,5	2,4	240	70	105	22	200	*557061
BVH 2,0	2,0	3,9	280	80	115	26	220	*557085
BVH 2,5	2,5	6,5	340	100	120	32	270	*557108
BVH 3,0	3,0	8,1	400	120	140	32	320	*557122
BVH 4,0	4,0	13,6	530	160	180	36	420	*557146
BVH 5,0	5,0	19,0	660	200	210	40	520	*557160
BVH 6,0	6,0	33,0	800	250	250	50	640	*557184
BVH 7,5	7,5	60,0	980	300	300	60	760	*557207









Horizontal

**TCH** 

lifting clamp

# 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  $90^{\circ}$ .

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	l mm	Ø J mm	EAN-N° 4025092*
TCH 1,0	1,0	0 - 50	8,0	135	75	18	15	82	65	100	32	44	13	*551625
TCH 2,0	2,0	5 - 32	10,0	160	90	22	32	83	61	100	49	72	19	*551991
TCH 4,0	4,0	5 - 50	17,0	180	100	26	44	114	75	99	62	89	26	*551755
TCH 6,0	6,0	5 - 75	45,4	200	110	32	58	172	97	129	90	127	36	*553230
TCH 8,0	8,0	5 - 75	51,0	260	140	36	56	170	100	128	90	130	37	*553247
TCH 10,0/1	10,0	5 - 100	93,8	300	160	40	70	216	116	149	113	113	50	*553254
TCH 10,0/2	10,0	50 - 150	108,6	300	160	40	66	218	116	150	113	113	50	*552042

\*\*per pair

\*\*\*weight for two single clamps/with 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.

The working load limit (WLL) applies to a pair of lifting clamps. Single clamps are also available. (without shackle).

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	EAN-Nº 4025092*
TGF 0,3/150	0,35	0 - 150	21	298	122	160	41	20	80	20	25	*553087
TGF 1,3/150	1,30	0 - 150 0 - 150	22	298 298	122	160	41 41	20 20	80 80	20 20	25 25	*552745
TGF 2,3/150	2,30	0 - 150	33	321	130	160	50	23	80	25	25	*551731
TGF 3,3/150	3,30	0 - 150	39	321	130	160	50	23	80	25	25	*551342
TGF 5,0/150	5,00	0 - 150	59	405	185	210	82	30	100	30	40	*553100
TGF 6,6/150	6,65	0 - 150	65	405	185	210	82	30	100	30	40	*553117
TGF 0,3/250	0,35	0 - 250	21	448	122	140	41	20	80	20	25	*552882
TGF 0,6/250	0,65	0 - 250	22	448	122	140	41	20	80	20	25	*553124
TGF 1,3/250	1,30	0 - 250	23	448	122	140	41	20	80	20	25	*552608
TGF 2,3/250	2,30	0 - 250	33	417	130	160	60	23	80	25	25	*552363
TGF 3,3/250	3,30	0 - 250	39	417	130	160	60	23	80	25	25	*553131
TGF 5,0/250	5,00	0 - 250	59	495	185	210	82	30	100	30	40	*552189
TGF 6,6/250	6,65	0 - 250	65	495	185	210	82	30	100	30	40	*553148

\*\*complete unit

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







### 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	l mm	J mm	K mm	L mm	EAN-N° 4025092*
THS 0,75	0,75	0 - 20	3,2	30	70	130	97	50	12	15	255	15	135	80	40	*551267
THS 1,5	1,50	0 - 35	6,1	38	80	165	120	70	15	17	335	20	165	90	50	*550734
THS 3,0	3,00	0 - 40	12,6	45	95	205	160	80	20	25	400	30	195	100	60	*551373
THS 4,5	4,50	0 - 40	16,5	47	110	235	196	90	20	30	450	59	230	110	64	*553483
** 1																

\*\*per clamp

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







# 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	l mm	EAN-Nº 4025092*
THK 0,75	0,75	0 - 25	1,7	25	72	118	81	20	161	12	86	12	*550628
THK 1,50	1,50	0 - 35	3,1	36	80	135	102	25	198	15	102	15	*550284
THK 3,00	3,00	0 - 35	5,3	38	93	168	119	30	227	20	110	20	*550390
THK 4,50	4,50	0 - 45	8,4	48	103	183	140	30	238	25	122	20	*551120
THK 6,00	6,00	0 - 60	11,6	63	124	214	176	35	284	30	110	20	*551038
THK 9,00	9,00	0 - 60	17,9	65	113	223	188	40	317	35	148	20	*551960

\*\*per pair









### Lifting clamp TWH

#### Lifting clamp

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

\*\*per pair



29
41
80
18

 $\bigcirc$ 

10







Clamp with plate	Weight** kg	EAN-Nº 4025092*
TWH 30	5,7	*555654
TWH 50	10,3	*555661
TWH 70	11,5	*555678
TWH 100	27,8	*555685
**per pair		

# **TIGRIP**<sup>®</sup>

# 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 nonmarring transport of loads with sensitive surfaces.

No indentations and no marring to the materials 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	l mm	EAN-Nº 4025092*
TSS 0,75	0,75	0 - 16	5,4	50 70	235	78 100	72	16 25	163	12	18	73	*550307
TSS 1,50 TSS 3,00	3,00	5 - 25 5 - 30	9,0 15,2	82	285 315	100	80 95	25 30	200	20	30	100	*550314









### 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	Jaw capacity Z	Weight	A	B	Ø C	D	E	F	G	H	l	EAN-Nº
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TBP 0,5	0,5	0 - 10	3,5	127	200	55	52	69	87	76	13	20	*556378
TBP 1,5	1,5	0 - 20	12,6	215	345	85	75	135	131	118	20	24	*556392



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	EAN-Nº 4025092*
TSB 0,35/65	0,35	0 - 65	11,6	270	260	128	100	65	78	*550772
TSB 0,75/65	0,75	0 - 65	11,8	270	260	128	100	65	78	*550826
TSB 1,25/65	1,25	0 - 65	16,7	270	260	128	100	65	78	*550727







### 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	EAN-N° 4025092*
TBE 0,5	0,5	0 - 10	3,9	42	230	148	10	55	79	50	*556620
TBE 1,0	1,0	0 - 16	11,9	93	297	210	16	75	114	67	*556644
TBE 2,0	2,0	0 - 20	24,0	110	416	305	20	102	159	80	*556668
TBE 3,0	3,0	0 - 20	26,4	110	416	305	20	102	159	80	*556682
TBE 4,0	4,0	0 - 20	32,4	120	435	305	20	102	158	89	*556705



### 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	Jaw capacity Z	Weight	A	B	C	D	E	F	G	H	EAN-Nº
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TPZ 0,4/55	0,4	5 - 55	6,3	120	290	525	125	117	60	40	6	*555234







### 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**	Pulling capacity	Weight	A	B	C	D	E	EAN-N°
	kg	kg	kg	mm	mm	mm	mm	mm	4025092*
THM 120	120	70	1,2	84	140	130	25	172	*550963
THM 170	170	100	1,7	116	140	130	25	172	*550437

\*\*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.

# 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	Jaw capacity	Weight	A	B	C	D	Thickness	EAN-N°
	kg	mm	kg	mm	mm	mm	mm	mm	4025092*
THG	250	0 - 10	1,4	184	105	12	53	40	*556057





**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.

											without	with
											protective	protective
											lining	lining
Model	Capacity	Jaw capacity Z	Weight	A	B <sub>min.</sub>	B <sub>max.</sub>	С	D	E	F	EAN-N°	EAN-N°
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	4025092*	4025092*
TRU 0,1/150	0,1	50 - 150	3,9	270	292	458	97	43	8	17	*550918	*551632
TRU 0,5/200	0,5	35 - 200	13,6	503	417	723	150	56	15	17	*550475	*551151
TRU 1,0/200	1,0	35 - 200	16,4	509	437	745	178	82	15	30	*550949	*552165
TRU 1,5/300	1,5	80 - 300	29,0	720	520	937	204	84	20	25	*550505	*550512
TRU 3,0/300	3,0	80 - 300	50,7	740	582	960	220	125	20	30	*550758	*550536
TRU 4,0/600	4,0	200 - 600	204,0	1420	930	1815	318	205	30	35	*551526	*550406





# 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 <sub>min.</sub> mm	B <sub>max.</sub> mm	C mm	D mm	E mm	EAN-N° 4025092*
TPR 0,5/200	0,5	0 - 200	15,0	510	390	625	200	15	30	*551496
TPR 1,5/300	1,5	0 - 300	22,6	710	495	830	200	15	30	*551045
TPR 3,0/300	3,0	0 - 300	41,7	720	525	920	220	20	43	*553490

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	vithout protective lining EAN-N° 4025092*	with protective lining EAN-N° 4025092*
TR 0,2/550	0,20	350 - 550	34	800	565	350	550	550	35	20	*553506	*552585
TR 0,2/650	0,20	450 - 650	41	900	615	450	650	550	35	20	*553513	*554978
TR 0,3/750	0,30	500 - 750	47	1100	665	500	750	550	35	20	*553520	*554985
TR 0,5/750	0,50	500 - 750	47	1100	665	500	750	550	35	20	*553537	*551700
TR 0,5/900	0,50	650 - 900	54	1150	765	650	900	550	35	20	*553544	*552400
TR 0,75/1050	0,75	700 - 1050	56	1300	815	700	1050	550	35	20	*552561	*554992
TR 1,0/750	1,00	500 - 750	55	1000	665	500	750	550	35	20	*553551	*555005
TR 1,0/1050	1,00	700 - 1050	71	1350	815	700	1050	550	35	20	*553568	*555012
TR 2,0/1050	2,00	700 - 1050	135	1350	815	700	1050	800	45	30	*553575	*555029
TR 3.0/1050	3,00	700 - 1050	154	1350	815	700	1050	800	45	30	*553582	*555036

Locking pawl locks the open grab in place!

Shackle for grabs for 2 t









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	Jaw capacity Z	Weight	A	B	C	D	E	F	Ø G	Ø H	EAN-Nº
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TVB 500	0,25/0,5	0 - 240	10,0	537	296	112	80	75	85	22	10	*556989





### 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	Jaw capacity Z	Weight	A	B <sub>min.</sub>	B <sub>max.</sub>	C	D	E	F	EAN-N°
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	4025092*
TBG 0,2/150	0,2	0 - 150	23,0	815	420	760	200	160	30	15	*552141
TBG 0,3/150	0,3	0 - 150	23,0	815	420	760	200	160	30	15	*553599
TBG 0,5/150	0,5	0 - 150	27,0	815	420	760	200	160	30	15	*552455
TBG 1,0/250	1,0	50 - 250	48,0	1050	460	980	250	160	29	20	*552356
TBG 1,5/250	1,5	50 - 250	50,0	1050	460	980	250	160	29	20	*552394
TBG 2,5/250	2,5	50 - 250	79,0	1050	460	980	250	160	29	25	*551571





### 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 <sub>min.</sub> mm	B <sub>max.</sub> mm	C mm	D mm	E mm	F mm	G mm	EAN-Nº 4025092*
TBG 0,2/500	0,2	200 - 500	49	1040	390	840	275	160	300	35	20	*551489
TBG 0,3/700	0,3	400 - 700	52	1040	390	840	275	160	300	35	20	*551816
TBG 0,5/900	0,5	600 - 900	55	1120	390	840	275	160	300	35	20	*552288
TBG 1,0/400	1,0	100 - 400	51	1040	390	840	250	160	300	35	20	*553612
TBG 1,0/1100	1,0	800 - 1100	72	1320	390	840	275	160	300	35	20	*552134
TBG 1,5/1300	1,5	1000 - 1300	128	1520	390	840	275	160	300	35	20	*553605
TBG 2,0/500	2,0	200 - 500	126	1100	530	1120	250	160	350	36	25	*553629
TBG 3,0/500	3,0	200 - 500	160	1100	530	1120	250	160	350	42	30	*553636
TBG 4,0/500	4,0	200 - 500	240	1100	600	1190	250	160	350	48	35	*553643
TBG 5,0/500	5,0	200 - 500	270	1100	600	1190	250	160	350	48	35	*553650

\*\* Scissor dimension







# **TIGRIP**<sup>®</sup>

### 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.

Model	Capacity t	Jaw capacity Z mm	Weight kg	A mm	B mm	C mm	D mm	E mm	EAN-Nº 4025092*
TBA 0,2/700	0,20	250 - 700	40	890	420	500	35	20	*553667
TBA 0,3/900	0,30	450 - 900	42	1090	420	500	35	20	*552080
TBA 0,5/1100	0,50	650 - 1100	45	1290	420	500	35	20	*552776
TBA 0,75/1300	0,75	850 - 1300	62	1550	420	500	35	20	*552035
TBA 1,0/1300	1,00	850 - 1300	62	1550	420	500	35	20	*553674





### 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 leveroperated 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	Weight	A	B	C	D	E	Ø F	G	EAN-N°
	t	kg	mm	mm	mm	mm	mm	mm	mm	4025092*
TCR 1,0	1,0	12,4	144	152	350	90	46	20	25	*550802
TCR 2,0	2,0	13,9	144	163	350	90	46	20	25	*551076

G

For special sizes

please advise rail type and profile.



R


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## Inside grab TDI

## 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	Jaw capacity	Weight	A	B	C	D	E	F	G	H	l	EAN-N°
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TDI 0,1/420	0,1	220 - 420	17	790	455	550	80	90	-	Ø 60	15	22	*551410
TDI 0,5/600	0,5	400 - 600	53	1200	610	800	100	160	-	Ø 92	15	30	*552066
TDI 1,0/600	1,0	400 - 600	60	1200	600	900	100	160	-	Ø 92	15	30	*553704
TDI 2,0/800	2,0	550 - 800	150	1400	830	1100	120	220	124	83	30	42	*553711
TDI 3,0/800	3,0	550 - 800	175	1450	920	1000	160	220	151	107	30	42	*553728
TDI 5.0/800**	5.0	550 - 800	220	1450	795	1000	160	65	151	107	35	42	*553735

\*\*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	Weight	Coil width A	Usable height B	С	D	E	F	G	Н	I	EAN-N°
	t	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TCK 0,5/300	0,5	21	300	400	570	60	120	20	25	20	50	*554800
TCK 0,5/500	0,5	30	500	400	580	60	120	20	23	20	65	*552417
TCK 0,5/800	0,5	46	800	400	580	60	120	25	23	25	70	*554817
TCK 1,0/300	1,0	28	300	450	620	60	120	25	23	20	70	*554824
TCK 1,0/500	1,0	40	500	450	630	60	120	20	23	25	80	*554831
TCK 1,0/800	1,0	95	800	450	630	60	120	30	23	30	90	*552783
TCK 2,0/300	2,0	45	300	500	700	75	150	25	38	25	90	*554848
TCK 2,0/500	2,0	90	500	500	700	75	150	30	38	30	110	*551830
TCK 2,0/800	2,0	140	800	500	720	75	150	30	38	30	125	*552615
TCK 2,0/1000	2,0	180	1000	500	720	75	150	20	35	40	125	*552479
TCK 3,0/300	3,0	68	300	500	700	75	150	30	38	30	105	*554855
TCK 3,0/500	3,0	127	500	500	700	75	150	20	40	30	125	*554862
TCK 3,0/800	3,0	165	800	500	720	75	150	25	40	40	140	*552431
TCK 3,0/1000	3,0	215	1000	500	720	75	150	20	40	40	155	*554879
TCK 5,0/500	5,0	184	500	550	800	100	200	25	45	40	145	*551298
TCK 5,0/800	5,0	238	800	550	800	100	200	30	45	50	160	*554886
TCK 5,0/1000	5,0	286	1000	550	820	100	200	30	45	50	180	*554893
TCK 5,0/1250	5,0	364	1250	550	820	100	200	30	45	50	200	*554909
TCK 7,5/800	7,5	390	800	600	900	110	220	35	50	50	200	*555043
TCK 7,5/1000	7,5	520	1000	600	900	110	220	35	50	60	200	*551984
TCK 7,5/1250	7,5	650	1250	600	900	110	220	35	45	60	220	*551878
TCK 7,5/1500	7,5	767	1500	600	920	110	220	35	50	70	220	*554916
TCK 10,0/1000	10,0	772	1000	650	980	130	250	40	50	70	220	*554923
TCK 10,0/1250	10,0	810	1250	650	1000	130	250	45	55	70	240	*551670
TCK 10,0/1500	10,0	980	1500	650	1000	130	250	45	55	80	240	*554930

**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	Weight	Coil	width	ØI	В	С	D	E	F	G	Н	K	L	Т	EAN-N°
	t	kg	A <sub>min.</sub>	A <sub>max.</sub>	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TCS 0,5/120	0,5	6,9	50	120	220	10	60	330	470	20	110	60	50	45	20	*554947
TCS 0,5/200	0,5	9,6	100	200	300	10	60	330	470	20	110	60	50	50	20	*552257
TCS 1,0/200	1,0	15,4	100	200	300	10	80	460	600	20	110	60	60	65	25	*552264
TCS 1,0/300	1,0	20,0	200	300	400	10	80	460	600	20	110	60	60	70	25	*552875
TCS 2,0/200	2,0	24,8	100	200	300	12	90	420	600	30	135	75	80	85	30	*551977
TCS 2,0/300	2,0	33,4	200	300	400	12	90	420	600	30	135	75	80	95	30	*551908
TCS 3,0/200	3,0	45,0	100	200	300	15	100	610	820	40	160	90	100	100	35	*552011
TCS 3,0/300	3,0	51,0	200	300	400	15	100	610	820	40	160	90	100	110	35	*552714

500 kg





Other sizes and models available upon request.



## 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 $60^{\circ}$ - $90^{\circ}$ 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	EAN-Nº 4025092*
TRO 2/90	2	3,1	20	0 - 40	35	40	62	62	116	16,3	47,6	12,7	30,2	*556729
TRO 4/90	4	5,6	30	0 - 50	40	48	77	77	142	24,3	72,2	19,0	44,5	*556743
TRO 6/90	6	10,5	30	0 - 60	51	62	90	90	173	24,3	72,2	19,0	44,5	*556767
TRO 8/90	8	17,8	40	0 - 70	55	67	105	105	190	30,3	95,3	25,4	58,7	*556781
TRO 10/90	10	22,0	40	0 - 80	69	80	115	115	221	30,3	95,3	25,4	58,7	*556804

#### 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	EAN-Nº 4025092*
TRO 2/120	2	3,5	20	0 - 30	34	40	82	75	106	16,3	30,2	12,7	47,6	*556828
TRO 4/120	4	8,8	30	10 - 40	39	50	95	80	131	24,3	44,5	19,0	72,2	*556842
TRO 6/120	6	14,9	40	20 - 50	43	55	106	95	153	30,3	58,7	25,4	95,3	*556866
TRO 8/120	8	18,6	40	30 - 65	54	65	119	100	185	30,3	58,7	25,4	95,3	*556880
TRO 10/120	10	23,0	50	30 - 75	60	70	143	125	208	36,3	73,0	31,8	117,0	*556903
**nor noir														

\*\*per pair







Container

transport

shackles

тси

**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.

тсо

Model	Capacity** t	Top angle between chains	Weight** kg	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	EAN-N° 4025092*
TCU 32	32	50°	19,5	152	181	Ø 45	37	73	75	40	*556927
TCU 40	40	36°	19,5	152	181	Ø 45	37	73	75	40	*556927
TCO 56	56	vertikal	30,1	123	217	45	39	57	101	121	*556965

\*\*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.



Model	Capacity** t	Weight** kg	A mm	B mm	Ø C mm	D mm	Ø E mm	EAN-Nº 4025092*
ткв	5,0	11	277	277	82	85	50	*556606
**per pai	r							





## 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	Jaw capacity	Weight	A	B	C	Ø D	E	F	G	H	l	EAN-Nº
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TFA 0,3/600	0,3	Ø 400 - Ø 600	57	600	1040	950	90	34	15	200	400	400	*557009





For drums according to DIN 6643 The grab jaws are prism shaped.

# 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	Jaw capacity	Weight	A	B	C	Ø D	E	F	G	H	EAN-N°
	t	mm	kg	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TFA 0,3/600 D	0,3	Ø 400 - Ø 600	83,0	600	1150	1525	90	34	15	200	400	*557009







For drums according to DIN 6643 The grab jaws are prism shaped.



### 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. Barrel grab TFA-R TFA-TR



TFA 0,35/700 R



TFA 0,35/700 TR

Model	Capacity kg	Jaw capacity mm	Weight kg	EAN-N° 4025092*
TFA 0,35/700 R	350	420 - 700	5,7	*551014
TFA 0,35/700 TR	350	420 - 700	9,2	*551472

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.



5 - 20



# 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	Weight	A	B	C	D	E	F	G	Ø H	EAN-Nº
	kg	kg	mm	mm	mm	mm	mm	mm	mm	mm	4025092*
TFRK	500	1,5	152	150	127	30	21	41	17	40	*556415







For drums according to DIN 6643



# Barrel clamp TFK

## **Barrel Clamp**

# for the transportation 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	Weight	A	B	C	D	Ø E	EAN-Nº
	kg	kg	mm	mm	mm	mm	mm	4025092*
TFK	500	7,3	479	350	410	300	50	*556071



For drums according to DIN 6643

# 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	Weight	L	B	A	EAN-Nº
	kg	kg	mm	mm	mm	4025092*
TKA 0,15/330d	150	25,8	465 - 540	315 - 330	200 - 300	*551519
TKA 0,15/480d	150	26,0	550 - 660	470 - 480	300	*552103

Please provide the crate dimensions 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	EAN-N° 4025092*
TKA 0,25/320a	9,3	250	320	*558082
TKA 0,25/480a	9,3	250	480	*558044
TKA 0,25/600a	9,3	250	600	*558099
TKA 0,25/320i	8,5	250	320	*558051
TKA 0,25/480i	8,5	250	480	*558068
TKA 0,25/600i	8,5	250	600	*558075

TKA .../...a External operating



TKA .../...i Internal operating

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







# 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.

	Model	Capacity kg	Flange width mm	Weight kg	EAN-N° 4025092*
Special reinforced and flat versions for	YC 1	1000	75 - 230	3,8	*055154
	YC 2	2000	75 - 230	4,6	*055161
girders with limited flange web height are	YC 3	3000	80 - 320	9,2	*055192
available upon request.	YC 5	5000	90 - 320	11,0	*055208
	YC 10	10000	90 - 320	17,2	*055215

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Capacity	A <sub>min.</sub>	A <sub>max.</sub>	$A_1$	A <sub>2</sub>	B <sub>1</sub>	B <sub>2</sub>	$b_1$	b <sub>2</sub>	С	D	E	$F_1$	$F_2$	$G_1$	$G_2$	Н	$J_1$	$J_2$	$K_1$	K <sub>2</sub>	L
kg	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	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	Flange width b	Min. curve radius	Weight	EAN-N°	
	kg	mm	m	kg	4025092*	
CTP 1 - A	1000	60 - 150	0,60	2,5	*063012	
CTP 2 - A	2000	75 - 200	0,90	9,9	*055437	
CTP 2 - B	2000	200 - 300	0,90	10,3	*055444	
CTP 3 - A	3000	75 - 200	1,15	17,5	*055451	
CTP 3 - B	3000	200 - 320	1,15	19,5	*055468	

Capacity	Size	А	D	E	$H_1$	I	L	$L_1$	М	0	Р	Т	t <sub>max.</sub>
kg		mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm	mm
1000	А	82 - 109	26	22	20,0	53,0	160	75	M12	46	153	105	15
2000	А	106 - 155	42	20	30,0	71,5	260	130	M18	60	205	139	25
2000	В	136 - 191	42	20	30,0	71,5	260	130	M18	60	255	189	25
3000	А	128 - 171	50	22	30,5	95,5	310	150	M24	80	220	155	25
3000	В	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 <sub>min.</sub> mm	C <sub>max.</sub> mm	D mm	E mm	F mm	G mm	EAN-Nº 4025092*
TZH 1,5/150	1,5	7,2	100	150	310	360	260	74	120	25	*557566
TZH 3,0/150	3,0	10,8	100	150	350	400	270	74	120	28	*557580
TZH 5,0/150	5,0	17,3	100	150	350	400	295	74	120	34	*557603
TZH 5,0/200	5,0	22,0	150	200	440	490	320	94	180	34	*557627
TZH 10,0/200	10,0	43,0	150	200	440	490	420	94	180	45	*557641



Swivel hooks, pivoting and swivelling

# **TIGRIP**<sup>®</sup>

## 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.

Model	Capacity kg	Weight kg	Weld size a	L <sub>1</sub> x B <sub>1</sub> mm	B <sub>2</sub> mm	C mm	H <sub>1</sub> mm	H <sub>2</sub> mm	L <sub>2</sub> mm	EAN-N° 4025092*
ASH 1	1000	0,5	4	90 x 25	17	24	6	76	22	*453073
ASH 3	3000	1,2	5	130 x 35	24	29	8	105	28	*453011
ASH 5	5000	2,4	5	160 x 45	30	37	10	132	47	*453028
ASH 8	8000	3,6	7	170 x 50	40	47	10	138	50	*453035



# Spreader beam TTS-E TTS

### 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.



## Model TTS-E

**7**500 kg

without adjustability

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	Capacity	Jaw capacity Z	Weight kg	A	B	C	D	E	F	G	H	EAN-Nº 4025092*
			105									1020052
TTS 1,0/1000 E	1,0	1000	19	1140	355	60	110	130	25	15	20	*0552905
TTS 2,0/1000 E	2,0	1000	21	1140	385	75	135	160	28	20	25	*0554534
TTS 3,0/1000 E	3,0	1000	30	1140	455	90	160	190	35	25	25	*0552813
TTS 5,0/1000 E	5,0	1000	54	1190	490	100	180	215	40	30	25	*0554541
TTS 7,5/1000 E	7,5	1000	81	1190	615	140	260	300	45	35	34	*0554558
TTS 10,0/1000 E	10,0	1000	98	1190	640	140	260	305	50	40	42	*0554565
TTS 1,0/1500 E	1,0	1500	25	1640	355	60	110	130	25	15	20	*0552851
TTS 2,0/1500 E	2,0	1500	33	1640	405	75	135	160	28	20	25	*0554572
TTS 3,0/1500 E	3,0	1500	58	1640	435	90	160	190	35	25	25	*0552028
TTS 5,0/1500 E	5,0	1500	81	1690	510	100	180	215	40	30	25	*0552172
TTS 7,5/1500 E	7,5	1500	115	1690	635	140	260	300	45	35	34	*0554589
TTS 10,0/1500 E	10,0	1500	143	1690	660	140	260	305	50	40	42	*0554596
TTS 1,0/2500 E	1,0	2500	45	2640	375	60	110	130	25	15	20	*0554602
TTS 2,0/2500 E	2,0	2500	80	2640	385	75	135	160	28	20	25	*0552769
TTS 3,0/2500 E	3,0	2500	104	2640	455	90	160	190	35	25	25	*0552202
TTS 5,0/2500 E	5,0	2500	165	2690	550	100	180	215	40	30	25	*0552493
TTS 7,5/2500 E	7,5	2500	212	2690	675	140	260	300	45	35	34	*0554619
TTS 10,0/2500 E	10,0	2500	246	2690	700	140	260	305	50	40	42	*0554626
TTS 1,0/3500 E	1,0	3500	104	3640	355	60	110	130	25	15	20	*0554633
TTS 2,0/3500 E	2,0	3500	133	3640	405	75	135	160	28	20	25	*0554640
TTS 3,0/3500 E	3,0	3500	171	3640	475	90	160	190	35	25	25	*0552592
TTS 5,0/3500 E	5,0	3500	255	3690	570	100	180	215	40	30	25	*0554657
TTS 7,5/3500 E	7,5	3500	313	3690	695	140	260	300	45	35	34	*0554664
TTS 10,0/3500 E	10,0	3500	402	3690	740	140	260	305	50	40	42	*0554671
TTS 1,0/5000 E	1,0	5000	181	5140	375	60	110	130	25	15	20	*0554688
TTS 2,0/5000 E	2,0	5000	230	5140	425	75	135	160	28	20	25	*0552523
TTS 3,0/5000 E	3,0	5000	280	5140	495	90	160	190	35	25	25	*0554695
TTS 5,0/5000 E	5,0	5000	402	5190	590	100	180	215	40	30	25	*0554701
TTS 7,5/5000 E	7,5	5000	537	5190	735	140	260	300	45	35	34	*0554718
TTS 10.0/5000 E	10.0	5000	596	5190	760	140	260	305	50	40	42	*0554725

### Table for standard spreader beam TTS-E, without adjustability



Model	Capacity t	Jaw capao Z <sub>1</sub>	city in mm Z <sub>2</sub>	Weight kg	$G_1$ mm	G <sub>2</sub> mm	H mm	l mm	J mm	K mm	L mm	V mm	EAN-Nº 4025092*
TTS 1,0/1500 TTS 2,0/1500 TTS 3,0/1500 TTS 5,0/1500 TTS 7,5/1500 TTS 10,0/1500 TTS 12,5/1500 TTS 15,0/1500 TTS 20,0/1500 TTS 25,0/1500	1,0 2,0 3,0 5,0 7,5 10,0 12,5 15,0 20,0 25,0	930 930 810 750 690 900 900 960 960	1500 1500 1500 1500 1500 1500 1500 1500	38 52 83 109 135 152 164 182 215 270	315 350 410 500 570 630 – – –	- - - 820 900 1000 1070	100 120 140 230 250 280 300 340 340	60 60 80 100 130 130 130 140 160 160	80 90 100 150 170 180 180 200 220 220	28 33 40 60 70 75 80 90 100	20 25 30 30 30 30 40 40 50 50	3 x 95 3 x 95 3 x 115 3 x 115 3 x 125 3 x 125 3 x 135 3 x 100 3 x 100 2 x 135 2 x 135	*552646 *552295 *553988 *551281 *553995 *552219 *554008 *554008 *554015 *554022 *554039
TTS 1,0/2500 TTS 2,0/2500 TTS 3,0/2500 TTS 5,0/2500 TTS 7,5/2500 TTS 10,0/2500 TTS 12,5/2500 TTS 15,0/2500 TTS 20,0/2500 TTS 25,0/2500	1,0 2,0 3,0 5,0 7,5 10,0 12,5 15,0 20,0 25,0	1550 1550 1350 1350 1250 1150 1300 1300 1420 1420	2500 2500 2500 2500 2500 2500 2500 2500	62 88 130 163 205 243 254 316 384 392	315 370 430 520 610 670 - - - -	- - - 860 960 1080 1150	100 120 140 220 250 260 280 300 340 340	60 60 80 100 130 130 130 140 160	80 90 100 150 170 180 180 200 220 220	28 33 40 60 70 75 80 90 100	20 25 30 30 30 30 40 40 50 50	5 x 95 5 x 95 5 x 115 5 x 115 5 x 125 5 x 135 6 x 100 6 x 100 4 x 135 4 x 135	*554046 *552158 *552448 *552424 *554053 *554060 *554077 *554084 *554091 *554107
TTS 1,0/3500 TTS 2,0/3500 TTS 3,0/3500 TTS 5,0/3500 TTS 7,5/3500 TTS 10,0/3500 TTS 12,5/3500 TTS 15,0/3500 TTS 20,0/3500 TTS 25,0/3500	1,0 2,0 3,0 5,0 7,5 10,0 12,5 15,0 20,0 25,0	2170 2170 1890 1890 1750 1610 1700 1610 1610	3500 3500 3500 3500 3500 3500 3500 3500	90 132 166 235 280 332 387 467 598 716	330 390 450 560 630 690 - - - -	- - - 900 1165 1160 1230	100 120 140 230 250 320 310 340 340	60 60 80 100 130 130 130 140 160	80 90 100 150 170 180 180 200 220 220	28 33 35 40 60 70 75 80 90 100	20 25 30 30 30 30 40 40 50 50	7 x 95 7 x 95 7 x 115 7 x 115 7 x 125 7 x 135 9 x 100 9 x 100 7 x 135 7 x 135	*552684 *554114 *554121 *554138 *554145 *554152 *554169 *551403 *554176 *554183
TTS 1,0/5000 TTS 2,0/5000 TTS 3,0/5000 TTS 5,0/5000 TTS 7,5/5000 TTS 10,0/5000 TTS 12,5/5000 TTS 15,0/5000 TTS 20,0/5000	1,0 2,0 3,0 5,0 7,5 10,0 12,5 15,0 20,0	2000 2000 2000 2000 2000 2300 2300 2300	5000 5000 5000 5000 5000 5000 5000 500	206 280 330 460 560 610 660 870 1070	- - - - - - - -	745 795 855 975 1070 1135 1245 1275 1415	400 410 420 470 490 500 500 530 530	60 60 80 100 130 130 130 140 160	80 90 100 150 170 180 180 200 220	28 33 40 60 70 75 80 90	20 25 30 30 30 30 40 40 50	$\begin{array}{c} 15 \times 100 \\ 10 \times 135 \\ 10 \times 135 \\ 10 \times 135 \end{array}$	*554367 *554374 *554381 *554398 *554404 *554411 *554428 *554435 *554442
TTS 1,0/8000 TTS 2,0/8000 TTS 3,0/8000 TTS 5,0/8000 TTS 7,5/8000 TTS 10,0/8000 TTS 12,5/8000	1,0 2,0 3,0 5,0 7,5 10,0 12,5	3000 3000 3000 3000 3000 3000 3140	8000 8000 8000 8000 8000 8000 8000	377 502 657 847 1165 1238 1453	- - - - - -	785 835 915 1055 1130 1235 1290	400 410 420 470 490 500 500	60 60 80 100 130 130 130	80 90 100 150 170 180 180	28 33 35 40 60 70 75	20 25 30 30 30 30 30 40	25 x 100 25 x 100 25 x 100 25 x 100 25 x 100 25 x 100 18 x 135	*554459 *554466 *554473 *554480 *554497 *554503 *554510

#### Table for spreader beam TTS, with adjustable hooks



1355 530 140 200 80 40 18 x 135 \*554527

\_

1580

TTS 15,0/8000

15,0

3140

8000



## Spreader beams

Custom designs



Adjustable spreader beam with side hooks

## Custom spreader beams



Wende-Traverse





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.



## Standard spreader beams

#### Hooks with safety latch



#### Hooks with safety latch

adjustable



#### Safety eye hooks



#### Safety eye hooks







with swivel hooks swivelling, pivoting and adjustable



#### with long hooks



### Spreader beams with side hooks

#### Safety eye hooks

![](_page_58_Figure_18.jpeg)

#### Swivel hooks

![](_page_58_Figure_20.jpeg)

![](_page_58_Figure_21.jpeg)

![](_page_58_Figure_22.jpeg)

# **TIGRIP**<sup>®</sup> Custom designs

# Spreader beams

# Spreader beam for box pallets

TTS

![](_page_59_Picture_3.jpeg)

### 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	l mm	EAN-Nº 4025092*
TTS 1,0/1240 - 810	1,0	38	1175	600	410	195	125	100	80	28	15	*551595
TTS 2,0/1240 - 810	2,0	61	1175	600	495	215	180	150	100	30	20	*551236
TTS 3,0/1240 - 810	3,0	80	1175	600	520	215	205	170	130	40	25	*553742

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

![](_page_59_Figure_9.jpeg)

![](_page_60_Picture_0.jpeg)

## 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.

## Spreader beam for Big-Bag TTB

![](_page_60_Picture_4.jpeg)

ш

Model	Capacity	Working width Z	Weight	B	C	D	EAN-N°
	t	mm	kg	mm	mm	mm	4025092*
TTB 1,0/1090 - 1090	1,0	750 - 800	27	210	60	110	*556293
TTB 1,0/1320 - 1320	1,0	900 - 970	33	210	60	110	*556316
TTB 2,0/1090 - 1090	2,0	750 - 800	42	240	75	135	*556330
TTB 2,0/1320 - 1320	2,0	900 - 970	52	240	75	135	*556354

![](_page_60_Figure_6.jpeg)

# **TIGRIP**<sup>®</sup>

# Crane forks TKG vhs

### 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

![](_page_61_Picture_13.jpeg)

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

Μ	odel	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	EAN-N° 4025092*
Т	KG 1,0 vhs	0,2 - 1,0	140	350 - 900	1100 - 1600	1000	100 x 30	1420 - 1920	*552233
Т	KG 1,5 vhs	0,3 - 1,5	162	350 - 900	1300 - 2000	1000	100 x 40	1650 - 2350	*551113
Т	KG 2,0 vhs	0,4 - 2,0	220	400 - 900	1300 - 2000	1000	120 x 40	1655 - 2355	*550666
Т	KG 3,0 vhs	0,6 - 3,0	280	450 - 900	1300 - 2000	1000	120 x 50	1720 - 2420	*551090
Т	KG 5,0 vhs	1,0 - 5,0	380	500 - 1000	1300 - 2000	1000	150 x 60	1710 - 2410	*554794

### 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

![](_page_62_Picture_11.jpeg)

Model	Capacity	Weight	Adjustment	Useable height B	Length of tines	Section of tines	Overall height F	EAN-N°
	t	kg	mm	mm	mm	mm	mm	4025092*
TKG 1,0 vh	1,0	130	350 - 900	1100 - 1600	1000	100 x 30	1390 - 1890	*552370
TKG 1,5 vh	1,5	150	350 - 900	1300 - 2000	1000	100 x 40	1600 - 2300	*551052
TKG 2,0 vh	2,0	200	400 - 900	1300 - 2000	1000	120 x 40	1640 - 2340	*554756
TKG 3,0 vh	3,0	250	450 - 900	1300 - 2000	1000	120 x 50	1670 - 2370	*551564
TKG 5,0 vh	5,0	370	500 - 1000	1300 - 2000	1000	150 x 60	1700 - 2400	*554763

**FIGRIP**<sup>®</sup>

**Crane forks** 

**TKG** vh

## Concrete pipe lifting gear BTG

![](_page_63_Picture_2.jpeg)

### 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	EAN-Nº 4025092*
BTG 1,5/120	1,5	40 - 120	165	100	10,3	135	75	18	180	*550147
BTG 3,0/180 TM-N	3,0	50 - 180	245	175	24,9	180	100	26	310	*551199
BTG 3,0/220 TM-N	3,0	90 - 220	245	175	26,3	180	100	26	310	*550819

\*\*per clamp

![](_page_63_Figure_14.jpeg)

## Trench shield grab

for the transport of trench shields/sheet piling

#### 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 Weight В С D Е ØF G ØН EAN-N° А 4025092\* t kg mm mm mm mm mm mm mm mm TCP 1,5 1,5 12,2 207 488 218 90 18 20 180 50 \*555807 TCP 3,0 3,0 24,6 226 517 218 100 24 24 180 63 \*555791 TCP 5.5 5,5 26,7 575 269 218 120 24 30 180 89 \*555784

![](_page_64_Picture_7.jpeg)

![](_page_64_Figure_8.jpeg)

ш

![](_page_64_Picture_9.jpeg)

# Trench shield grab TCP

C

0

6

## Trench shield clamp TPP

![](_page_65_Picture_2.jpeg)

## 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	l mm	J mm	EAN-Nº 4025092*
TPP 3	3,0	0 - 20	16,0	224	325	20	88	147	25	123	60	20	18	*556255
TPP 8	8,0	0 - 30	27,8	294	445	30	109	194	42	146	72	25	26	*556217
TPP 12	12,0	0 - 30	53,0	361	486	40	145	190	41	167	90	30	32	*556231

![](_page_65_Figure_7.jpeg)

![](_page_65_Picture_8.jpeg)

### 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, $4^{1}/_{2}$ 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

Measuring range

kg

0 - 5000

0 - 10000

0 - 20000

Weight

kg

19

29

64

Crane weigher with integrated replaceable storage

battery, battery charger, remote control device and

А

mm

560

680

870

В

mm

350

350

350

С

mm

183

183

183

D

mm

350

350

350

Ε

mm

90

110

150

F

mm

160

200

250

G

mm

22

32

40

Н

mm

38

48

70

Model

TKF 5

**TKF 10** 

**TKF 20** 

Features

• high accuracy

• easy to use

· excellent quality

exchangeable storage battery.

• sturdy design

Includes

lightweight designeasy-to-read display

![](_page_66_Picture_3.jpeg)

# **FIGRIP**<sup>®</sup>

## Crane weigher TKF

TIGRIP® Wägetechnik

EAN-N°

4025092\*

\*550291

\*550338

\*550697

Meßbereich 0...5t

013%

# **TIGRIP**<sup>®</sup>

## **Crane weigher**

TKA TWF

![](_page_67_Picture_3.jpeg)

## Crane Weigher TKA

with digital display

## Crane Weigher TWF

#### with digital display and radio control

The crane weighers TKA and TWF are compact measuring devices for the weighing of loads being lifted.

Appropriate tackle can be attached to assist in the lifting and weighing.

The crane weighers have 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 TKA

- high accuracy
- lightweight design
- easy-to-read display
- easy to use
- excellent quality
- sturdy design
- housing swivelling 180°
- retains the max. value to memory
- rechargeable, with integrated storage battery

#### Features TWF

The concept corresponds to model TKA. In addition the TWF is provided with (cordless) radio control and RS 232 interface. The readings can be taken off the remote control device.

#### Scope of delivery TKA

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

#### Scope of delivery TWF

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

### Optional for TWF

PC cable, user software

![](_page_67_Picture_30.jpeg)

#### Technical data

Model		TKA 1,0 TWF 1,0	TKA 2,0 TWF 2,0	TKA 3,2 TWF 3,2	TKA 5,0 TWF 5,0	TKA 8,0 TWF 8,0	TKA 12,0 TWF 12,0					
Measuring range	kg	0 - 1000	0 - 2000	0 - 3200	0 - 5000	0 - 8000	0 - 12000					
Nominal load	t	1	2	3,2	5	8	12					
Limit load	t	1,1	2,2	3,5	5,5	8,8	13,2					
Breaking load	t	≥ 4	≥ 8	≥ 13	≥ 20	≥ 32	≥ 48					
Weight incl. tackle	kg	3,0	3,6	5,9	7,3	10,5	19,8					
Accuracy		0,1% of nominal load										
Resolution step	kg	0,5	1	1	1	2	5					
Operation time*		ca. 200 h at 20° C										
Temperature range (operation)				–10° C to	o + 50° C							
Temperature range (storage)				–20° C to	o + 70° C							
Protection standard				IP	54							
Display			LC	D 20,5 mm	high, 4½ dig	gits						
Tare range		100 % actual load										
Overload warning		actictted at 110 % nominal load										

![](_page_68_Picture_2.jpeg)

\*with one battery chargeing

#### Dimensions

Model	A mm	B mm	C mm	D mm	E mm	F mm	G mm	H mm	EAN-Nº 4025092*
TKA 1,0 TWF 1,0	395	362	60	110	13	20	70	134	*557368 *558242
TKA 2,0 TWF 2,0	423	385	60	110	16	25	81	142	*557382 *558259
TKA 3,2 TWF 3,2	502	455	75	135	18	32	103	154	*557405 *558266
TKA 5,0 TWF 5,0	585	528	90	160	22	40	126	162	*557429 *558273
TKA 8,0 TWF 8,0	671	602	100	180	26	49	152	172	*557443 *558280
TKA 12,0 TWF 12.0	820	725	140	260	35	45	190	190	*558365 *558372

![](_page_68_Picture_6.jpeg)

![](_page_68_Figure_7.jpeg)

## Digital load indicator TKZ TZF

![](_page_69_Picture_2.jpeg)

## Load Indicator TKZ

with digital display

### Load Indicator TZF with digital display and radio control

The TIGRIP load indicator is a mechanical measuring instrument with electronic display. On account of its flexibility 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 load indicator is provided with 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 TKZ

- 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

#### Features TZF

the concept corresponds to model TKZ. In addition the TZF is provided with (cordless) radio control and RS 232 interface. The load indicator can be operated via radio control. The reading can be taken off the remote control device and can be transmitted to a PC.

#### Scope of delivery TKZ

Load indicator, battery charger (3 V, 700 mA), carrying case, test certificate, however, without shackle and hook

#### Scope of delivery TZF

Load indicator, battery charger (3 V, 700 mA), radio remote control, carrying case, test certificate, however, without shackle and hook

#### Optional for TZF

PC cable, user software

![](_page_69_Picture_24.jpeg)

Model		TKZ 2,5 TZF 2,5	TKZ 5 TZF 5	TKZ 10 TZF 10	TKZ 20 TZF 20	TKZ 35 TZF 35	TKZ 50 TZF 50	TKZ 100 TZF 100					
Measuring range	t	0 - 2,5	0 - 5	0 - 10	0 - 20	0 - 35	0 - 50	0 - 100					
Nominal load	t	2,5	5	10	20	35	50	100					
Limit load	t	2,75	5,5	11	22	38,5	55	110					
Breaking load	t	≥ 10	≥ 20	≥ 40	≥ 80	≥ 140	≥ 200	≥ 400					
Weight	kg	2,8	3,4	4,4	7,6	10,0	25,0	41,0					
Accuracy				0,25	% of nominal	load							
Resolution step	kg	1	1	10	10	10	10	50					
Operation time*	on time*				ca. 200 h at 20° C								
Temperature range (operation)		-10° C to + 50° C											
Temperature range (storange)		-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 % nor	ninal load							
*with one battery chargeing							- anniann						

Model	A mm	B mm	Ø C mm	D mm	E mm	F mm	G mm	H mm	l mm	J mm	K mm	L mm	ØM mm	N mm	0 mm	P mm	Q mm	EAN-Nr. 4025092*	EAN-Nr. Shackle 4025092*	EAN-Nr. Hook 4025092*
TKZ 2,5	247	118	22	179	26	75	47	24	8	610	34	38	16	25	23	17	315	*557467	*453653	*557665
TZF 2,5	247	118	22	179	26	75	47	24	8	610	34	38	16	25	23	17	315	*558105	*453653	*557665
TKZ 5	250	118	27	180	22	60	47	31	8	610	50	44	19	32	37	28	350	*557481	*456722	*557689
TZF 5	250	118	27	180	22	60	47	31	8	610	50	44	19	32	37	28	350	*558112	*456722	*557689
TKZ 10	325	118	48	213	32	106	47	-	8	690	105	95	35	50	63	44	535	*550116	*453714	*551311
TZF 10	325	118	48	213	32	106	47	-	8	690	105	95	35	50	63	44	535	*558129	*453714	*551311
TKZ 20	378	141	55	233	45	133	57	-	1	780	92	95	35	70	80	57	562	*550093	*453714	*551007
TZF 20	378	141	55	233	45	133	57	-	1	780	92	95	35	70	80	57	562	*558136	*453714	*551007
TKZ 35	405	156	64	245	48	146	70	-	1	1000	130	114	44	110	123	90	665	*550444	*453738	*552226
TZF 35	405	156	64	245	48	146	70	-	1	1000	130	114	44	110	123	90	665	*558143	*453738	*552226
TKZ 50	450	180	76	264	55	161	80	-	1	1170	140	132	51	115	132	97	730	*550369	*453745	*555050
TZF 50	450	180	76	264	55	161	80	-	1	1170	140	132	51	115	132	97	730	*558150	*453745	*555050
TKZ 100	640	260	100	380	80	270	99	-	1	-	300	238	89	_	-	_	1240	*557504	*456746	on request
TZF 100	640	260	100	380	80	270	99	-	1	-	300	238	89	-	-	-	1240	on request	on request	on request

#### Digital load indicator 2,5 t and 5 t $\,$

![](_page_70_Figure_4.jpeg)

G

![](_page_70_Figure_5.jpeg)

![](_page_70_Figure_6.jpeg)

**TKZ Load indicator** 

![](_page_70_Figure_8.jpeg)

**TKZ Load indicator** 

![](_page_70_Figure_10.jpeg)

![](_page_70_Figure_11.jpeg)

# Yale<sup>®</sup> Training

![](_page_71_Picture_1.jpeg)

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.

![](_page_71_Picture_12.jpeg)
# **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



## 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.



## Target group

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

### 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.
- 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.
- 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
- 1999 Tigrip<sup>®</sup> Lifting Clamps and Weighing Systems



# Yale Industrial Products GmbH

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 as well as a wide range of hydraulic jacks and tools. Qualified personnel at the Yale locations in Germany, the U.K., Spain, France, Austria, the Netherlands 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.



#### 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.





#### **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.

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#### **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.





Your local distributor:

#### Yale<sup>®</sup> Hoisting Equipment

- Ratchet lever hoists
- Hand chain hoists
- Electric and pneumatic chain hoists
- Travel trolleys and beam clamps
- Cable pullers and accessories
- Electric and pneumatic winches

#### Yaletex

# Textile Lifting Slings and Lashing Equipment

- Round slings
- Flat webbing slings
- Ratchet lashings

#### **TIGRIP**®

# Load Hoisting Tackle and Crane Weighers

- Clamps
- Grabs
- Spreader beams
- Crane forks
- Crane weighers

#### Steerman<sup>®</sup> Load Moving Systems

#### Hydraulic Jacks and Tools

- Hydraulic cylinders 5-1.100 tonnes
- Hand and motor pumps up to 700 bar
- Universal and machine jacks
- Hydraulic puller sets
- Workshop presses up to 200 tonnes
- Accessories and complete hydraulic systems

#### Yale*systems*

- Wall-mounted Jib cranes
- Floor-mounted Jib cranes
- Gantry cranes
- Crane systems

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