



TLP

THIELE LIFTING AND LASHING POINTS

Screw- and Weld-on Type



Product Overview - Lifting Points

Pages 104-111	Lifting Points, Screw-Type				
	TWN 0121	TWN 0122	TWN 0123	TWN 0127	TWN 1120
TWN 1830	TWN 1884	TWN 1890			

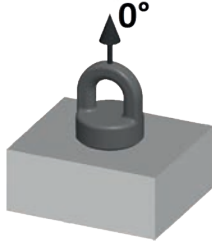
Pages 112-119	Lifting Points, Weld-on Type				
	TWN 0119	TWN 0124	TWN 0850/1	TWN 1908/0	TWN 0850/2
TWN 0913	TWN 1380	TWN 0949	TWN 1490	TWN 1872	
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Page 120	Hitches				
	TWN 0301	TWN 0302	TWN 0304	TWN 0308	TWN 0321
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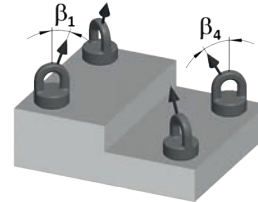
Lifting Points

Selection Criteria for Lifting Points

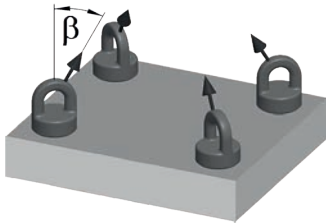
1. Determine the weight of the load to be lifted.



3. Determine the trade size by taking the inclination angle into consideration.



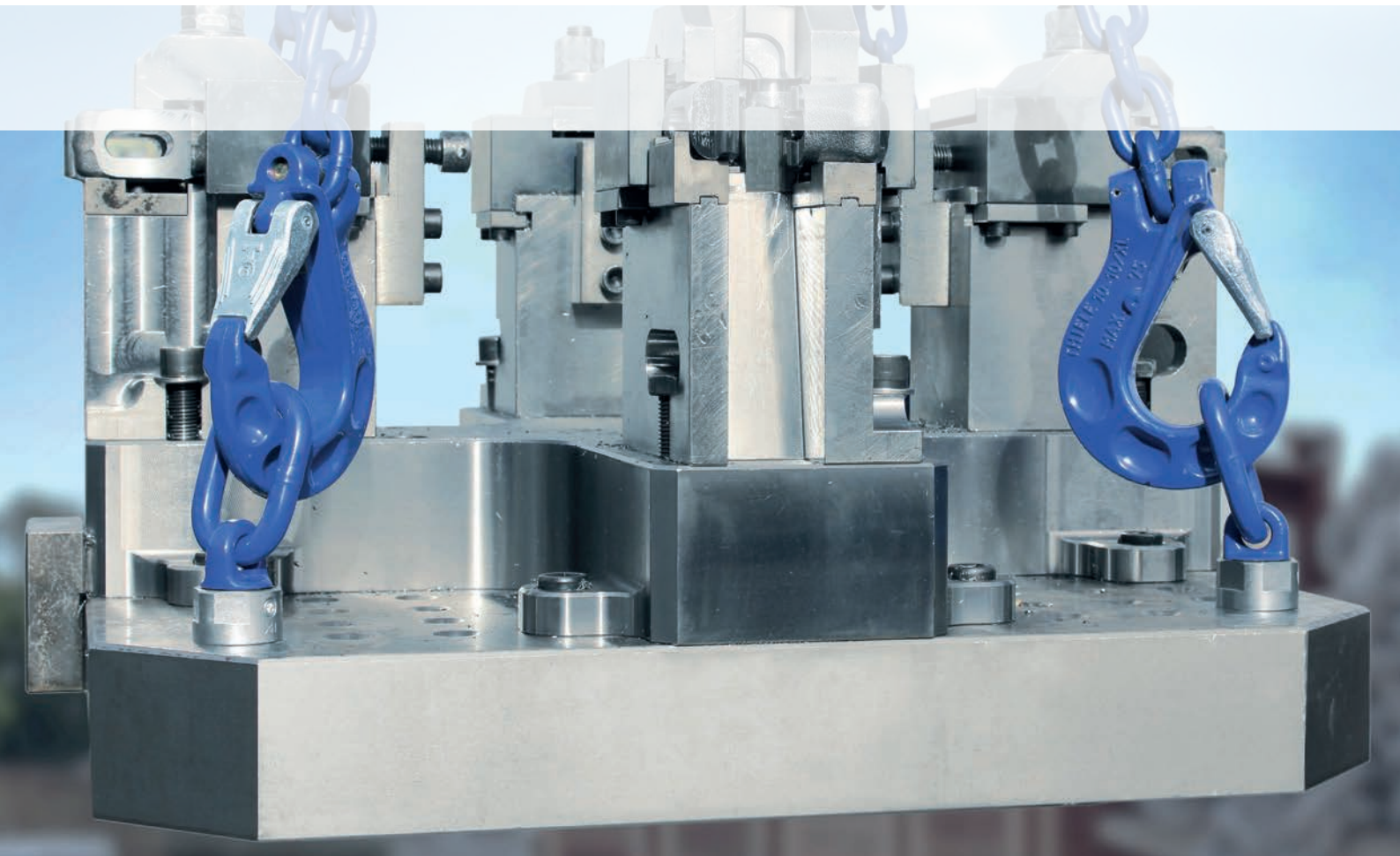
2. Determine the number of required lifting points, depending on the number of available legs of the chain slings and the number of available fitting positions (see pictographs on pages 104-107 and 112-113).



4. Select the suitable lifting point by taking the type of application and the determined working load limit under consideration.



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Lifting Points, Screw-Type



Working Load Limit Table for Lifting Points, Screw-Type

			TWN 0121 Swivel Lifting Points								TWN 0122 Screw-Type Lifting Points							
Application	Inclination Angle β	Number of Chain Strands	Working Load Limit [t]															
			Nominal Working Load Limit				Screw Size											
					1,12	2,0	3,15	5,3			3,15	5,3	8,0	15	21,2	25	31,5	36
					M16	M20	M24	M30			M16	M20	M30	M36	M42	M45	M56	M56
	0°	1			1,12	2,0	3,2	5,3			3,15	5,3	8,0	15	21,2	25	31,5	36
	0°	2			2,24	4,0	6,3	10,6			6,3	10,6	16	30	42,4	50	63	72
	90°	1			1,12	2,0	3,15	5,3			3,15	5,3	8,0	15	21,2	25	31,5	36
	90°	2			2,24	4,0	6,3	10,6			6,3	10,6	16	30	42,4	50	63	72
	0-45°	2			1,6	2,8	4,5	7,5			4,5	7,5	11,3	21,2	30	33,4	45,5	50,9
	45-60°	2			1,12	2,0	3,15	5,3			3,15	5,3	8,0	15	21,2	25	31,5	36
	asymmetry ¹⁾	2			1,12	2,0	3,15	5,3			3,15	5,3	8,0	15	21,2	25	31,5	36
	0-45°	3+4			2,4	4,2	6,7	11,2			6,7	11,2	17	31,8	45	53	66,8	76,4
	45-60°	3+4			1,7	3,0	4,7	8,0			4,7	8,0	12	22,5	31,8	37,5	47,3	54
	asymmetry ¹⁾	3+4			1,1	2,0	3,2	5,3			3,15	5,3	8,0	15	21,5	25	31,5	36

¹⁾ Reduced working load limit acc. to the DIN 685-5.

Lifting Points, Screw-Type

Working Load Limit Table for Lifting Points, Screw-Type











TWN 0123 Screw-Type Lifting Points					TWN 0127 Screw Type Lifting Points MDB									
														
Working Load Limit [t]														
		1,12	2	3,15						3,15	5,3			
		M16	M20	M24						M20	M24			
		1,12	2,0	3,15						3,15	5,3			
		2,24	4,0	6,3						6,3	10,6			
		1,12	2,0	3,15						3,15	5,3			
		2,24	4,0	6,3						6,3	10,6			
		1,6	2,8	4,5						4,5	7,5			
		1,12	2,0	3,15						3,15	5,3			
		1,12	2,0	3,15						3,15	5,3			
		2,4	4,2	6,7						6,7	11,2			
		1,7	3,0	4,7						4,7	8,0			
		1,12	2,0	3,15						3,15	5,3			





Lifting Points, Screw-Type



Working Load Limit Table for Lifting Points, Screw-Type

			TWN 1120 X-TITAN Lifting Points								TWN 1830 X-TREME Lifting Points																
Application	Inclination Angle β	Number of Chain Strands																									
			Working Load Limit [t]																								
Working Load Limit			0,3	0,45	0,6	1,4	2,5	3,5	6,7	8,0	0,45	0,6	1,4	2,5	3,5	5,3	8,0	10	12,5	12,5	12,5	17	17	31,5	35	40	40
Screw Size			M8	M10	M12	M16	M20	M24	M30	M36	M10	M12	M16	M20	M24	M30	M36	M42	M45	M48	M52	M56	M64	M72	M80	M90	M100
	0°	1	0,3	0,45	0,6	2,1	3,0	6,0	7,1	12,5	0,9	1,2	2,8	5,3	7	10	15	18	20	20	20	28	28	50	50	50	50
	0°	2	0,6	0,9	1,2	4,2	6,0	12	14,2	25	1,8	2,4	5,6	10,6	14	20	30	36	40	40	40	56	56	100	100	100	100
	90°	1	0,3	0,45	0,6	1,4	2,5	3,5	6,7	8,0	0,6	0,75	1,7	2,8	4,0	6,3	10	13	15	16	16	22	25	40	48	50	50
	90°	2	0,6	0,9	1,2	2,8	4,9	7,0	13,4	16	1,2	1,5	3,4	5,6	8,0	12,6	20	26	30	32	32	44	50	80	96	100	100
	0-45°	2	0,42	0,6	0,9	2,0	3,6	5,	9,5	11,3	0,9	1,0	2,4	4,0	5,7	8,9	14,1	18,2	21,2	22,6	22,6	31,1	35,3	56	68	71	71
	45-60°	2	0,3	0,5	0,6	1,4	2,5	3,5	6,7	8,0	0,6	0,75	1,7	2,8	4,0	6,3	10	13	15	16	16	22	25	40	48	50	50
	Asymmetry ¹⁾	2	0,3	0,5	0,6	1,4	2,5	3,5	6,7	8,0	0,6	0,75	1,7	2,8	4,0	6,3	10	13	15	16	16	22	25	40	48	50	50
	0-45°	3+4	0,6	1,0	1,3	3,0	5,3	7,4	14,2	17	1,3	1,6	3,6	5,9	8,5	13,4	21,2	27,3	31,8	33,9	33,9	46,7	53	85	102	106	106
	45-60°	3+4	0,5	0,7	0,9	2,1	3,8	5,3	10	12	0,9	1,1	2,6	4,2	6,0	9,5	15	19,5	22,5	24	24	33	37,5	60	72	75	75
	Asymmetry ¹⁾	3+4	0,3	0,5	0,6	1,4	2,5	3,5	6,7	8,0	0,6	0,8	1,7	2,8	4,0	6,3	10	13	15	16	16	22	25	40	48	50	50

¹⁾ Reduced working load limit acc. to DIN 685-5.

Lifting Points, Screw-Type

Working Load Limit Table for Lifting Points, Screw-Type

TWN 1884 Screw Type XKE-Points											TWN 1890 Screw Type XS-Points								
																			
Working Load Limit [t]																			
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	12,5	15	17		0,63	1,0	1,5	2,5	4,0	6,0	8,0	10
M8	M10	M12	M16	M20	M24	M30	M36	M42	M45	M48		M10	M12	M16	M20	M24	M30	M36	M42
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	11,5	13	14,5		0,6	1,0	1,7	2,5	4,0	6,0	8,0	10
0,6	1,0	2,0	3,4	5,2	7,0	12	16	23	26	29		1,3	2,0	3,4	5,0	8,0	12	16	20
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	11,5	13	14,5		0,6	1,0	1,7	2,5	4,0	6,0	8,0	10
0,6	1,0	2,0	3,4	5,2	7,0	12	16	23	26	29		1,3	2,0	3,4	5,0	8,0	12	16	20
0,4	0,7	1,4	2,4	3,6	4,9	8,4	11,3	16,2	18,3	20,5		0,9	1,4	2,4	3,5	5,7	8,5	11,3	14
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	11,5	13	14,5		0,6	1,0	1,7	2,5	4,0	6,0	8,0	10
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	11,5	13	14,5		0,3	1,0	1,7	2,5	4,0	6,0	8,0	10
0,6	1,0	2,1	3,6	5,5	7,0	12,7	16,9	24,3	27,5	30,7		1,3	2,1	3,6	5,3	8,5	12,7	17	21,2
0,4	0,8	1,5	2,5	3,9	5,2	9,0	12	17,2	19,5	21,7		1,0	1,5	2,6	3,8	6,0	9,0	12	15
0,3	0,5	1,0	1,7	2,6	3,5	6,0	8,0	11,5	21,7	14,5		0,6	1,0	1,7	2,5	4,0	6,0	8,0	10



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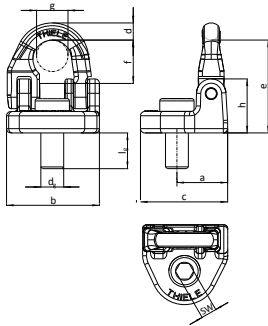


Lifting Points, Screw-Type

TWN 0121

Swivel Lifting Points NEW

The screw-type rotating lifting points TWN 0121 are predominantly used in mold and tool making. The sliding disc enables a twist-free alignment of the chain strands. The eyelet allows easy assembling with other lifting components. The manufacturing and testing requirements are based on the DIN EN 1677-1.



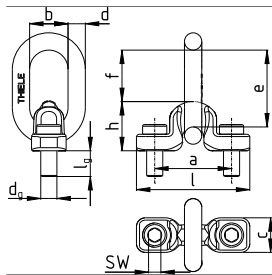
Screw Size d_g [mm]	Article-No.	Working Load Limit [t]	Thread Length l_g [mm]	Dimensions [mm]										Weight app. [kgs]
				e	f	c	b	h	g	d	SW	a		
M16 ¹⁾	F35000	1,12	25	65	30	61	65	38	22	12	12	36	0,70	
M20 NEW	F350100	2,00	32	80	34	78	90	49	28	17	14	45	1,56	
M24 ¹⁾	F35020	3,15	36	98	45	92	101	59	33	19	17	52	2,60	
M30 ¹⁾	F35030	5,30	51	120	55	113	125	72	45	25	22	62	4,60	

¹⁾ TWN 0121/1

TWN 0122

Screw-type Lifting Points

The screw-on lifting points TWN 0122 are predominantly used for the transportation of heavy moulds, tools, dies, machine elements and steel constructions. The intermediate links allow an easy assembling with other lifting components. The manufacturing and testing requirements comply with the DIN EN 1677-1.



Screw Size d_g [mm]	Article-No.	Working Load Limit [t]	Thread Length l_g [mm]	Dimensions [mm]										Weight app. [kgs]
				e	f	a	b	l	d	h	t	c	SW	
M16	F35070	3,15	25	112	57	90	40	130	18	55	85	38	12	1,47
M20	F35075	5,30	36	149	80	115	50	165	22	69	115	45	14	2,70
M30	F35080	8,00	50	183	93	150	65	212	26	89	140	55	22	5,94
M36	F35095	15,00	53	217	105	175	80	255	36	112	160	72	27	11,08
M42	F35098	21,20	67	262	132	200	100	295	45	130	200	90	32	20,09
M45	F35101	25,00	67	262	132	200	100	295	45	130	200	90	32	20,55
M56	F35102	31,50	88	336	193	230	110	330	48	143	270	100	36	31,60
M56	F35285	36,00	88	336	193	230	110	330	48	143	270	100	36	31,60

Lifting Points, Screw-Type

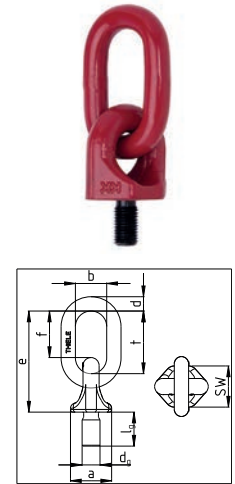
Screw-type Lifting Points

The screw-type lifting points TWN 0123 are predominantly used for the transportation of moulds, tools, dies, machine parts and steel constructions. The intermediate links allow an easy assembling with other lifting components. The manufacturing and testing requirements comply with the DIN EN 1677-1.



Screw Size d_g [mm]	Article-No.	Working Load Limit [t]	Thread Length l_g [mm]	Dimensions [mm]							Weight app. [kgs]
				e	f	d	t	b	SW	a	
M16	F34110	1,12	30	113	52	16	70	35	46	60	0,83
M16	F34115	1,12	30	153	92	16	110	60	46	60	1,00
M20	F34120	2,00	38	113	52	16	70	35	46	60	0,87
M20	F34121	2,00	38	153	92	16	110	60	46	60	1,05
M24	F34130	3,15	35	128	67	18	85	40	46	60	1,08
M24	F34131	3,15	45	153	92	18	110	60	46	60	1,26

TWN 0123



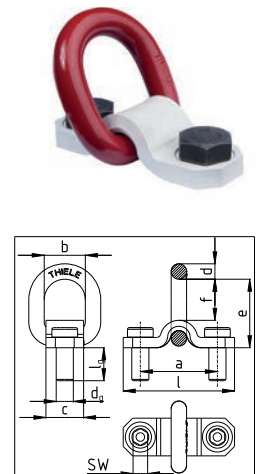
MDB Lifting Points

The screw-type lifting points TWN 0127 are predominantly used for the transportation of moulds, tools, dies, machine elements and steel constructions. The D-links enable an easy assembling to lifting components. The manufacturing and testing requirements comply with the DIN EN 1677-1.



Screw Size d_g [mm]	Article-No.	Working Load Limit [t]	Thread Length l_g [mm]	Dimensions [mm]								Weight app. [kgs]
				e	f	c	b	l	d	SW	a	
M20	F35157	3,15	39	68	48	44	48	130	18	30	90	1,10
M24	F35158	5,30	36	113	69	60	66	160	24	36	110	2,70

TWN 0127



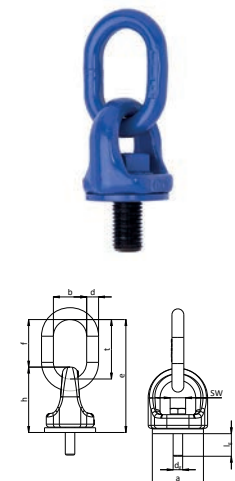
X-TITAN Lifting Points

The screw-type X-TITAN lifting points TWN 1120 are predominantly used for the transportation of moulds, tools, dies, machine elements and steel constructions. The intermediate links allow an easy assembling to other lifting components. The manufacturing and testing requirements are based on DIN EN 1677-1.



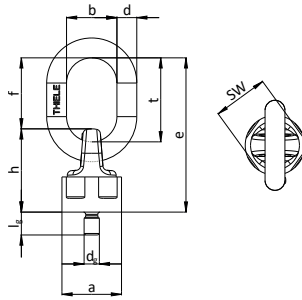
Screw Size d_g [mm]	Article-No.	Working Load Limit [t]	Thread Length l_g [mm]	Dimensions [mm]								Weight app. [kgs]
				e	f	b	t	d	h	SW	a	
M10	F34390	0,45	19	95	40	28	50	10	55	16	43	0,41
M12	F34395	0,60	24	95	40	28	50	10	55	18	43	0,43
M16	F34400	1,40	29	95	40	28	50	10	55	24	43	0,48
M20	F34410	2,50	33	115	49	34	60	12	66	30	54	0,79
M24	F34420	3,50	40	135	55	40	70	16	80	36	65	1,50
M30	F34430	6,70	52	167	66	50	85	18	101	46	85	2,98
M36	F34440	8,00	66	212	92	50	115	22	120	55	96	4,80

TWN 1120





Lifting Points, Screw-Type



TWN 1830 X-TREME Lifting Points

The screw-type X-TREME lifting points with ball-bearing TWN 1830 are predominantly used in mold- and tool-making. The ball-bearing allows the load to be rotated and turned under load.

The intermediate link allows easy assembling to other components.

The manufacturing and testing requirements are based on the DIN EN 1677-1.



Screw Size d_g [mm]	Article-No.	Working Load Limit [t]			Thread Length l_g [mm]	Dimensions [mm]								Weight app. [kgs]
		vertical $\beta_1 = \pm 5^\circ$ Y	extreme $5^\circ < \beta_1 \leq 45^\circ$ Z	folded $5^\circ < \beta_2 \leq 105^\circ$ X		e	f	b	t	d	h	SW	a	
M10	F34306	0,90	0,45	0,60	15	101	47	33	55	13	55	36	39	0,48
M12	F34307	1,20	0,60	0,70	18	101	47	33	55	13	55	36	39	0,49
M16	F34300	2,80	1,40	1,70	20	101	47	33	55	13	55	36	39	0,50
M20	F34310	5,30	2,50	2,80	25	121	59	34	70	16	63	46	50	0,94
M20	F34312	5,30	2,50	2,80	50	121	59	34	70	16	63	46	50	1,02
M24	F34320	7,00	3,50	4,00	30	148	72	40	85	18	76	50	57	1,50
M24	F34321	7,00	3,50	4,00	90	148	72	40	85	18	76	50	57	1,68
M30	F34330	10,00	5,30	6,30	40	171	83	50	100	22	88	65	73	2,72
M36	F34340	15,00	8,00	10,00	50	179	81	50	100	22	98	70	83	3,57
M36	F34341	15,00	8,00	10,00	63	179	81	50	100	22	98	70	83	3,67
M36	F34343	15,00	8,00	10,00	70	179	81	50	100	22	98	70	83	3,80
M42	F34350	18,00	10,00	12,50	60	244	116	70	140	32	128	95	106	8,30
M45	F34353	20,00	12,50	15,00	65	244	116	70	140	32	128	95	106	8,45
M48	F34355	20,00	12,50	16,00	68	244	116	70	140	32	128	95	106	8,60
M56	F34360	28,00	17,00	22,00	78	251	116	70	140	32	135	95	116	10,08
M64	F34363	28,00	17,00	25,00	96	251	116	70	140	32	135	95	116	11,38
M72	NEW F34380	50,00	31,50	40,00	108	379	177	110	220	45	202	145	170	31,42
M80	NEW F34383	50,00	35,00	48,00	120	379	177	110	220	45	202	145	170	32,67
M90	NEW F34385	50,00	40,00	50,00	135	379	177	110	220	45	202	145	170	34,64
M100	NEW F34388	50,00	40,00	50,00	150	379	177	110	220	45	202	145	170	37,10

Variable screw lengths available up to 5 x d standard screw lengths for thread diameters M20, M24, M30 and M36.

vertical
 $\beta_1 = \pm 5^\circ$
Y



folded
 $5^\circ < \beta_2 \leq 105^\circ$
X



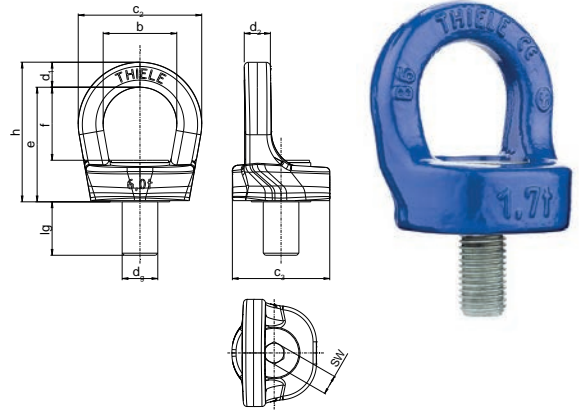
extreme
 $5^\circ < \beta_1 \leq 45^\circ$
Z



Lifting Points, Screw-Type

TWN 1884 XKE-Points

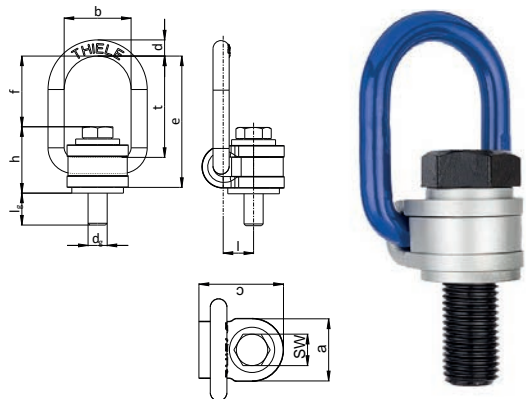
The screw-on XKE-Points with ball-bearing TWN 1884 are predominantly used in molds- and tool-making. The ball-bearing allows the load to be rotated and turned under load. The eccentrically positioned eye makes it easy to connect lifting equipment. The XKE-points have a multiple times higher load capacity than DIN 580-eye bolts and can be loaded in every direction. The eccentrically arranged eyelet enables an easy assembly with a standard Allen key. The manufacturing and testing requirements are based on the DIN EN 1677-1.



Screw Size d _g [mm]	Article-No.	Working Load Limit [t]	Thread Length l _g [mm]	Dimensions [mm]											Weight app. [kgs]
				b	c ₂	c ₃	e	f	h	d ₁	d ₂	l	SW		
M8	NEW F38005	0,30	16	26	45	37	40	26	50	9,5	9,5	8	6	0,18	
M10	NEW F38006	0,50	16	26	45	37	40	26	50	9,5	9,5	8	6	0,18	
M12	NEW F38007	1,00	18	30	51	43	47	30	57	10,5	10,5	10	8	0,29	
M16	F38010	1,70	27	38	66	56	62	38	76	14	14	13	10	0,66	
M20	F38020	2,60	33	42	74	61	70	42	86	16	16	15	12	0,99	
M24	NEW F38030	3,50	39	51	85	65	82	51	99	17	18	16	14	1,34	
M30	NEW F38040	6,00	45	62	104	82	97	62	118	21	22	20	19	2,29	
M36	NEW F38050	8,00	55	75	131	92	116	75	144	28	28	25	19	4,17	
M42	NEW F38060	11,50	64	95	173	122	142	95	181	39	39	33	22	8,89	
M45	NEW F38070	13,00	74	95	173	122	142	95	181	39	39	33	24	9,09	
M48	NEW F38080	14,50	74	95	173	122	142	95	181	39	39	33	27	9,18	

TWN 1890 XS-Points

The screw-type XS-Points TWN 1890 are predominantly used in mold making, tool making and vehicle construction. The extra large D-links enable an easy assembling to other lifting components. The bracket can be easily aligned in direction of force. The shape of the XS-Points allows the use of variable screw lengths. The manufacturing and testing requirements are based on the DIN EN 1677-1.



Screw Size d _g [mm]	Article-No.	Working Load Limit [t]	Thread Length l _g [mm]	Dimensions [mm]											Weight app. [kgs]
				e	f	c	l	t	b	h	d	SW	a		
M8	NEW F352398	0,30	17	71	38	43	17	53	35	35	9	-	32	0,29	
M10	F35243	0,63	17	71	37	43	17	53	35	35	9	16	32	0,29	
M12	F35244	1,00	22	71	36	43	17	53	35	36	9	18	32	0,31	
M16	F35245	1,70	28	98	46	64	25	70	50	52	13	24	48	0,96	
M20	F35246	2,50	38	98	44	64	26	70	50	54	13	30	48	1,05	
M24	F35247	4,00	40	135	70	71	28	102	58	65	16	36	50	1,69	
M30	F35249	6,00	44	149	73	88	35	110	70	75	20	46	65	3,07	
M36	F35250	8,00	64	149	70	88	35	110	70	79	20	55	67	3,55	
M42	F35251	10,00	74	191	98	106	43	145	84	93	24	65	81	6,10	
M48*	F35252	12,00	-	-	-	-	-	-	-	-	-	-	-	-	

*On request



Lifting Points, Weld-on Type

Working Load Limit Table for Lifting Points, Weld-on Type

			TWN 0119 Weld-on type Lifting Points								TWN 0124 Weld-on type Lifting Points with Springs							
Application	Inclination Angle β	Number of Chain Strands																
			Working Load Limits [t]															
Working Load Limit			1,1	2,0	3,15	5,3	8,0	15	32	50			1,12	2,0	3,15	5,3	8,0	
	0°	1	1,1	2,0	3,15	5,3	8,0	15	31,5	50			1,12	2,0	3,15	5,3	8,0	
	0°	2	2,2	4,0	6,3	10,6	16	30	63	100			2,24	4,0	6,3	10,6	16	
	90°	1	1,1	2,0	3,15	5,3	8,0	15	31,5	50			1,12	2,0	3,15	5,3	8,0	
	90°	2	2,2	4,0	6,3	10,6	16	30	63	100			2,24	4,0	6,3	10,6	16	
	0-45°	2	1,6	2,8	4,5	7,5	11,2	21,2	44,5	70			1,6	2,8	4,25	7,5	11,2	
	45-60°	2	1,1	2,0	3,15	5,3	8,0	15	31,5	50			1,12	2,0	3,15	5,3	8,0	
	asymmet.	2	1,1	2,0	3,15	5,3	8,0	15	31,5	50			1,12	2,0	3,15	5,3	8,0	
	0-45°	3+4	2,4	4,2	6,7	11,2	17	31,5	67	106			2,36	4,25	6,7	11,2	17	
	45-60°	3+4	1,7	3,0	4,7	8,0	12	22,4	47,5	75			1,7	3,0	4,75	8,0	11,8	
	asymmet.	3+4	1,12	2,0	3,15	5,3	8,0	15	31,5	50			1,12	2,0	3,15	5,3	8,0	

Lifting Points, Weld-on Type

Working Load Limit Table for Lifting Points, Weld-on Type

TWN 1872 Lifting Points with two Weld-on Brackets					TWN 1882 COMPACT Lifting Points with Spring									
														
Working Load Limit [t]														
			4,0	6,7						1,5	2,5	4,0	6,7	10
			4,0	6,7						1,5	2,5	4,0	6,7	10
			8,0	13,4						3,0	5,0	8,0	13,4	20
			4,0	6,7						1,5	2,5	4,0	6,7	10
			8,0	13,4						3,0	5,0	8,0	13,4	20
			5,6	9,5						2,1	3,5	5,6	9,4	14
			4,0	6,7						1,5	2,5	4,0	6,7	10
			4,0	6,7						1,5	2,5	4,0	6,7	10
			8,5	14,2						3,15	5,25	8,4	14,1	21
			6,0	10,1						2,25	3,75	6,0	10,1	15
			4,0	6,7						1,5	2,5	4,0	6,7	10



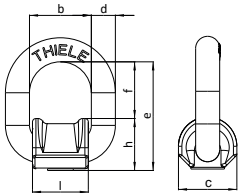


Lifting Points, Weld-on Type

TWN 0119

Weld-on type Lifting Points

The weld-on lifting points TWN 0119 are used for universal lifting, moving and lashing of loads. The lifting points are often welded to machine frames, steel structures, lifting beams and housings. The manufacturing and testing requirements are based on DIN EN 1677-1.



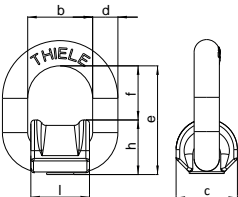
Trade Size	Article-No.	Working Load Limit [t]	Lashing Capacity (LC) [daN]	Dimensions [mm]							Weight app. [kgs]
				e*	f*	c	l	b	h	d	
6-8	F35103	1,12	2.200	59	31	32	32	36	28	12	0,24
8-8	F35113	2,00	4.000	69	36	38	38	42	33	14	0,46
10-8	F35123	3,15	6.300	85	46	45	44	48	38	18	0,72
13-8	F35133	5,30	10.600	120	69	60	60	66	51	24	1,93
16-8	F35143	8,00	16.000	127	66	68	65	72	61	28	2,67
22-8	F35163	15,00	-	178	98	96	109	120	80	39	8,09
32-8	F35183	31,50	-	292	174	145	165	180	118	56	27,30
40-8	F35193	50,00	-	371	223	186	210	230	145	72	60,00

*e- and f-Dimension vertical to the welding level.

TWN 0124

Weld-on type Lifting Points with Spring

The weld-on lifting points with spring TWN 0124 are used for universal lifting, moving and lashing of loads. The lifting points are often welded onto machine frames, steel constructions, lifting beams and housings. The D-ring is being held in position by a spring. The manufacturing and testing requirements are based on DIN EN 1677-1.



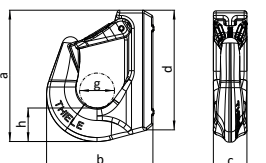
Trade Size	Article-No.	Working Load Limit [t]	Lashing Capacity (LC) [daN]	Dimensions [mm]							Weight app. [kgs]
				e*	f*	c	l	b	h	d	
6-8	F35107	1,12	2.200	57	29	32	32	36	28	12	0,24
8-8	F35110	2,00	4.000	67	34	38	38	42	33	14	0,46
10-8	F35124	3,15	6.300	81	43	45	44	48	38	18	0,72
13-8	F35139	5,30	10.600	117	66	60	60	66	54	24	1,61
16-8	F35144	8,00	16.000	122	61	68	65	72	61	28	2,67

*e- and f-Dimension vertical to the welding level.

TWN 0850/1

Weld-on Hooks

The weld-on hooks TWN 0850/1 are primarily welded to earth-moving machines, buckets, shovels and traverses for lifting, moving and securing loads. The forged safety latches prevent unintentional detachment from the load. The manufacturing and testing requirements are based on the DGV testing principle GS-OA 15-03.



Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]						Weight app. [kgs]
			a	c	g	b	h	d	
1	F32751	1,12	94	24	26	77	24	85	0,52
2	F32752	2,00	120	30	33	97	28	107,5	0,84

Lifting Points, Weld-on Type

Spare Part Sets for Weld-on Type Hooks

The spare part sets TWN 1908/0 consist of a safety latch, spring and dowel pin and are suitable for the weld-on hooks TWN 0850/1.

Trade Size	Article-No.	Packing Unit	Weight app. [kgs]
1	F48731	1 set	0,05
2	F48733	1 set	0,08

TWN 1908/0



Weld-on Hooks NEW

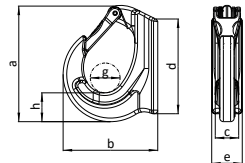
The weld-on hooks TWN 0850/2 are primarily welded to earth-moving machines, buckets, shovels and trawlers for lifting, moving and securing loads. The forged safety latches prevent unintentional detachment from the load.

The manufacturing and testing requirements are based on the DGUV testing principle GS-OA 15-03.



Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]							Weight app. [kgs]
			e	a	c	g	b	h	d	
1	F32770	1,00	26	108	19	25	72	28	78	0,52
2	F32771	2,00	34	114	20	33	92	28	85	0,70
3	F32772	3,00	34	129	26	33	105	32	104	1,15
5	F32773	5,00	44	167	28	43	138	46	150	2,36
8	F32774	8,00	51	173	42	43	145	53	148	3,32
10	F32775	10,00	67	225	47	60	179	61	197	6,44

TWN 0850/2



Spare Part Sets for Weld-on Type Hooks

The spare part sets TWN 0913 consist of a safety latch, spring and dowel pin and are suitable for the weld-on hooks TWN 0850/2.

Trade Size	Article-No.	Packing Unit	Weight app. [kgs]
1, 2, 3	Z04496	1 set	0,06
5, 8	Z10614	1 set	0,20
10	Z05842	1 set	0,44

TWN 0913



Weld-on Hooks NEW

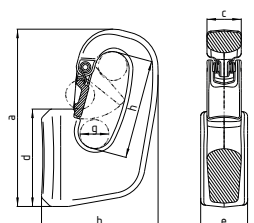
The weld-on hooks TWN 1380 are designed for lifting and moving loads and are mainly welded onto earth-moving machines, e.g. shovels. The weld-on hooks consist of a forged hook and a spring-loaded safety latch. They are painted yellow, the areas for the welds are bright.

The design and construction are based on DIN EN 1677-1 as well as the DGUV testing principle GS-OA 15-03.



Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]							Weight app. [kgs]
			a	b	c	d	e	g	h	
1	F328701	1,00	125	81	22	70	32	20	70	0,99
2,5	F328702	2,50	163	105	26	90	42	28	90	2,03
5	F328705	5,00	196	129	38	108	52	32	110	4,12
7,5	F328707	7,50	255	161	46	140	75	45	145	8,53
12,5	F328712	12,50	295	178	52	170	80	45	145	12,59

TWN 1380





Lifting Points, Weld-on Type

TWN 0949

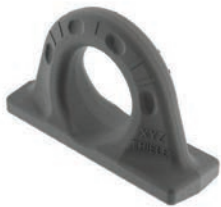


Spare Part Sets for Weld-on Type Hooks NEW

The spare part sets TWN 0949 consist of a safety latch, spring and dowel pin and are suitable for the weld-on hooks TWN 1380.

Trade Size	Article-No.	Packing Unit	Weight app. [kgs]
1	F48316	1 set	0,05
2	F48317	1 set	0,08
5	F48318	1 set	0,18
7,5/12,5	F48320	1 set	0,31

TWN 1490

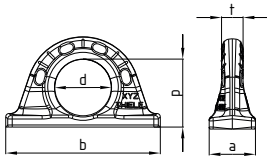


Lifting points THI-EYE, weld-on type NEW

The weld-on type lifting points THI-EYE TWN 1490 are used for lifting, moving, and securing of loads, primarily to get welded onto earth-moving machines, shovels, grabs and traverses.

The lifting points may be used with 100% WLL in all directions, are crack tested and feature angle indicators to optimize alignment during the rigging process.

The manufacturing and testing requirements are based on the DGUV testing principal GS-OA 15-03 and the DIN EN 1677-1.



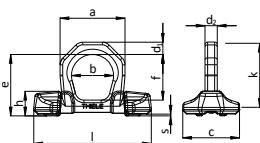
Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]					Weight app. [kgs]
			a	b	t	d	p	
3,2	F32300	3,20	41	137	19	50	60	1,00
5	F32301	5,00	51	172	26	60	73	2,20
10	F32302	10,00	70	228	37	80	98	5,20
20	F32303	20,00	90	272	50	115	140	10,5
31,5	F32304	31,50	108	320	62	130	160	18,5

TWN 1872



Lifting Points with two weld-on Brackets

The weld-on lifting points with two weld-on brackets TWN 1872 are used for lifting and moving of loads. The lifting points are predominantly welded on machine frames, steel constructions, traverses and housings. The manufacturing and testing requirements are based on the DIN EN 1677-1, under consideration of higher load capacities.



Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]											Weight app. [kgs]
			d ₁	d ₂	b	a	l	k	e*	h	c	s	f	
10-10	F352005	4,00	14	14	48	74	137	74	70	28	65	2	52	0,79
13-10	F352015	6,70	20	20	60	100	170	93	85	37	80	2	61	1,73

* Upright standing ring

Lashing Points, Weld-on Type

COMPACT Lifting Points with Spring

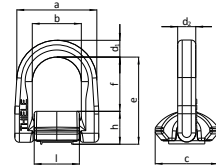
The weld-on COMPACT lifting points with fixing spring TWN 1882 are used for lifting and moving of loads. The lifting points are predominantly welded on machine frames, steel constructions, trusses and housings. The compact design allows a small installation space. The manufacturing and testing requirements are based on the DIN EN 1677-1, under consideration of higher load capacities.



Trade Size	Article-No.	Working Load Limit [t]	Dimensions [mm]									Weight app. [kgs]
			d ₁	d ₂	b	a	l	e*	h	c	f	
6-10	F352041	1,50	13	14	38	65	35	68	26	50	42	0,41
8-10	F352051	2,50	15	15	45	76	42	73	27	50	46	0,57
10-10	F352061	4,00	17	17	50	85	46	87	31	56	56	0,84
13-10	F352071	6,70	23	23	68	116	63	122	44	78	78	2,19
16-10	F352081	10,00	27	27	69	130	63	126	54	92	72	3,35

* Upright standing ring

TWN 1882



Lashing Points with two weld-on Brackets

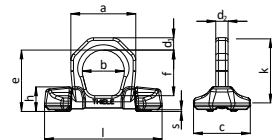
The weld-on lashing points with two weld-on brackets TWN 1473 are used for lashing of loads. The lashing points are predominantly welded to the vehicle frame (semi-trailers, trailers). The manufacturing and testing requirements are based on DIN EN 1677-1, under consideration of higher lashing forces.



Trade Size	Article-No.	Article-No. (Ring only)	Lashing Capacity (LC) [daN] max.	Dimensions [mm]										Weight app. [kgs]	
				d ₁	d ₂	b	a	l	e*	k	h	c	s		f
10-10	F352001	F352002	8.000	14	14	48	74	134	74	74	28	65	2	57	0,79
13-10	F352011	F352012	13.500	20	20	60	100	170	85	93	37	80	2	61	1,73

* Upright standing ring

TWN 1473



COMPACT Lashing Points with Spring

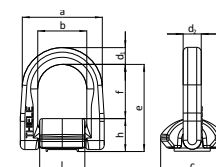
The weld-on COMPACT lashing points with fixing springs TWN 1880 are used for securing of loads. The lashing points are predominantly welded in recessed skip fittings and on vehicle frames (semi-trailers, trailers). The compact design allows a small installation space. The manufacturing and testing requirements are based on the DIN EN 1677-1, under consideration of higher lashing forces.



Trade Size	Article-No.	Lashing Capacity (LC) [daN]	Dimensions [mm]									Weight app. [kgs]
			d ₁	d ₂	b	a	l	e*	h	c	f	
6-10	F35204	3.000	13	14	38	65	35	68	26	50	42	0,41
8-10	F35205	5.000	15	15	45	76	42	73	27	50	46	0,57
10-10	F35206	8.000	17	17	50	85	46	87	31	55	56	0,84
13-10	F35207	13.500	23	23	68	116	63	122	44	77	78	2,19
16-10	F35208	20.000	27	27	69	130	63	126	54	92	72	3,35

* Upright standing ring

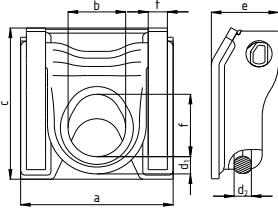
TWN 1880





Lashing Points, Weld-on Type

TWN 1477



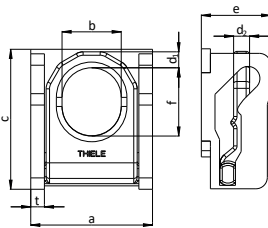
ZKS-Modules NEW

The weld-on ZKS-modules TWN 1477 are predominantly installed side frames of low-loaders and trailers. The large swivel range also allows the securing of overhanging loads. The pivotable large lashing eyelet built into the cassette enables a fixed mounting position for easy connection with the lashing equipment. The manufacturing and testing requirements are based on the DIN EN 1677-1.



Trade Size	Article-No.	Lashing Capacity (LC) [daN]	Dimensions [mm]								Weight app. [kgs]
			d ₁	d ₂	b	a	t	e	c	f	
10	F352376	10.000	18	18	60	159	20	70	157,5	65	4,95

TWN 1471



ZK-Modules with Stressless Lashing® NEW

The weld-on ZK-modules TWN 1471 are predominantly installed in C-shaped side frames of low-loaders and trailers. The large swivel range also allows the securing of overhanging loads. A newly developed, patented cassette design enables a fixed mounting position for easy connection to the lashing equipment.

Stressless Lashing® in perfection.

The manufacturing and testing requirements are based on DIN EN 1677-1.



Trade Size	Article-No.	Execution*	Lashing Capacity (LC) [daN] max.	Dimensions [mm]								Weight app. [kgs]
				d ₁	d ₂	b	a	t	e	c	f	
5	F352390	N	5.000	14	14	52	107	12	61	119	60	1,92
5	F352395	S	5.000	14	14	52	107	12	61	119	60	1,95
10	F352380	N	10.000	18	18	62	137	15	73	144	78	3,45
10	F352385	S	10.000	18	18	62	137	15	73	144	78	3,46

*The sheets of the lashing cassette in the execution „N“ (=Normal) are produced in micro-alloyed steel. The execution „S“ (=Special) are produced from special steel and are therefore capable to get be hot dip galvanized (up to 500°C) with the vehicle frame.



ZK-module on YouTube

General information

The standard DIN EN 12640 specifies the minimum testing requirements for lashing points on road trucks and trailers with flatbed bodies and a permissible total weight of more than 3,5 t for mixed cargo transportation. Lashing points are devices to attach lashing gear. A lashing point can be an oval link, hook, lug or lashing rail. These types of lashing points may lead to safety issues when in operation.

A non-appropriate dimensioning and use of non-suitable lashing points, as well as the damage of the lashing points and frames of the vehicle, shows a high potential danger in traffic. In operation, oval links are often exposed to unforeseen torque which may cause a damage to the body-work of the vehicles. Very often required inclination angles are not properly considered. Further, oval links can cause unnecessary noise exposure in traffic. The developed THIELE ZK-Modules (lashing ring with cassette) may be easily fitted and adopted at the side frames of trailers.

The ZK-Modules are marked with permissible lashing capacity (LC), manufacturer name (THIELE) and standard number (DIN EN 12640). Official agencies may easily check the correct installation. The ZK-Modules made by THIELE provides highest safety for load securing in the heavy-duty road traffic.

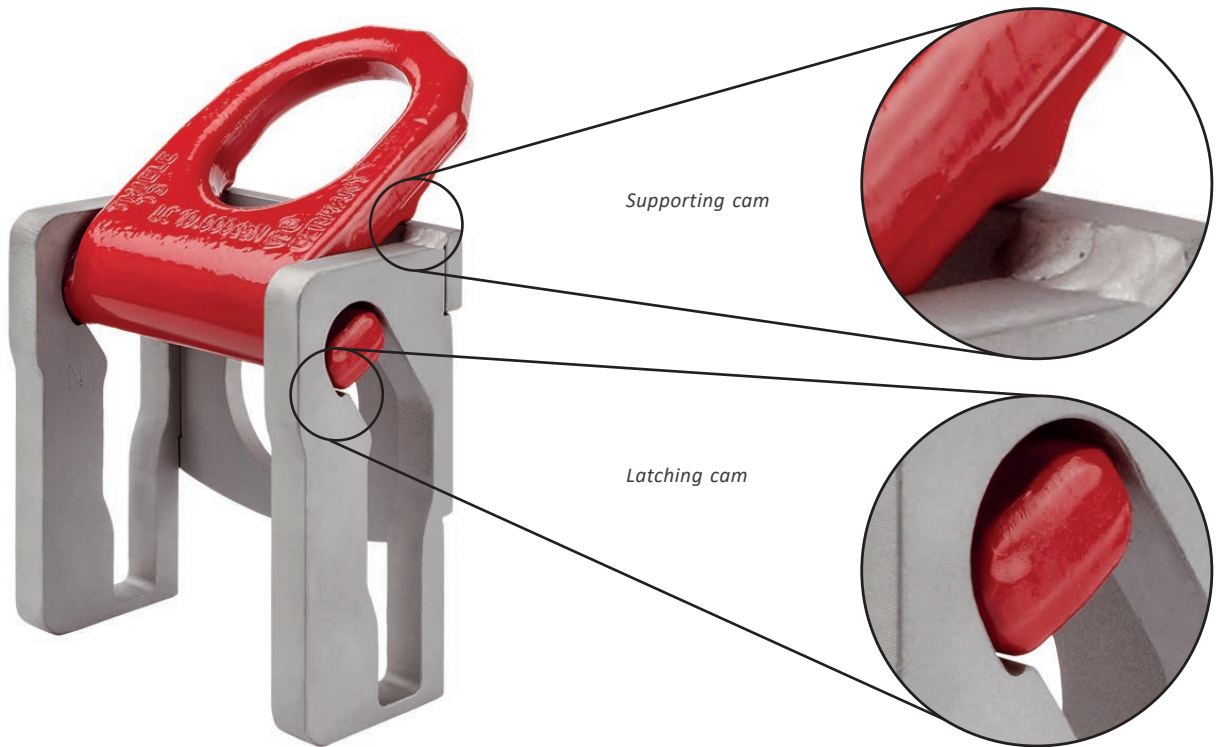
Lashing Points, Weld-on Type

TWN 1471
ZK-Modules with Stressless Lashing®

NEW



ZK-module
on YouTube



Now available with
latching cam.

Positions:



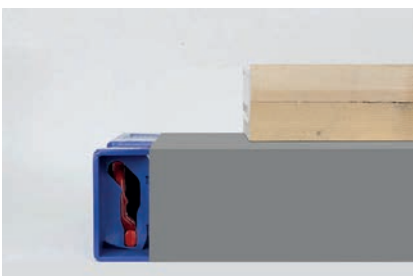
Rest Position



Hold Position



Position for oversized load

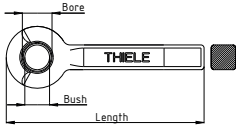




TWN 0301 - 0304 Towing Eyes acc. to DIN 74054



The weld-on towing eyes with shaft TWN 0301 - 0304 serve as coupling elements primarily for drawbars and central axle trailers for the connection with the pins or trailer hitches. The bore dimensions comply with the DIN 74054 parts 1 and 2.

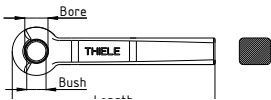


TWN	Article-No.	Type	Length [mm]	Bush [mm]	Bore [mm]	Weight app. [kgs]
0301	F27100	C	320	–	40	3,70
	F27101	A	320	40	48	3,70
0302	F27110	C	350	–	40	4,00
	F27111	A	350	40	48	4,00
0304	F27130	C	360	–	40	5,10
	F27131	A	360	40	48	5,10

TWN 0308 Towing Eyes acc. to DIN 74054



The weld-on towing eyes with shaft TWN 0308 serve as coupling elements primarily for drawbars and central axle trailers for the connection with the pins or trailer hitches. The bore dimensions comply with the DIN 74054 parts 1 and 2.

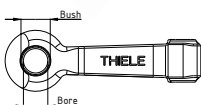


Article-No.	Type	Length [mm]	Bush [mm]	Bore [mm]	Weight app. [kgs]
F27180	C	420	–	40	8,50
F27181	A	420	40	48	8,50
F27182	D	420	-	48	8,50

TWN 0321 Towing Eyes acc. to DIN 74054



The weld-on towing eyes with shaft TWN 0321 serve as coupling elements primarily for drawbars and central axle trailers for the connection with the pins or trailer hitches. The bore dimensions comply with the DIN 74054 parts 1 and 2.

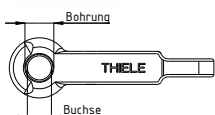


Article-No.	Type	Bush [mm]	Bore [mm]	Weight app. [kgs]
F27300	C	–	40	7,30
F27301	A	40	48	7,30

TWN 0323 Towing Eyes acc. to DIN 74054



The weld-on towing eyes with shaft TWN 0323 serve as coupling elements primarily for drawbars and central axle trailers for the connection with the pins or trailer hitches. The bore dimensions comply with the DIN 74054 parts 1 and 2.



Article-No.	Type	Bush [mm]	Bore [mm]	Weight app. [kgs]
F27320	C	–	40	6,40
F27321	A	40	48	6,40