

USING INSTRUCTION OF

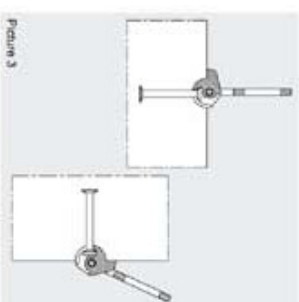
EATHU SPHERICAL HEAD LIFTING CLUTCH

Lifting and Turning

The EATHU Spherical Head Lifting Clutch is constructed in a way that an unintended coupling off (even without tension by a lifting device) is impossible. On lifting, attention must be paid that the lip shows into direction of tension.

The EATHU Spherical Head Lifting Clutch is suitable for all directions (axial, diagonal and lateral tension).

On turning of units, special attention must be paid on the lip position of the EATHU Spherical Head Lifting Clutch. It must always show into direction of tension (Picture 3).

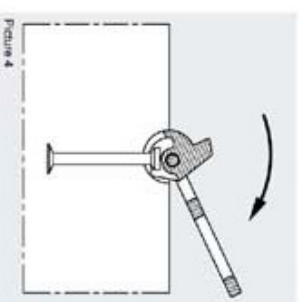


Picture 3

Coupling Off

Coupling off the EATHU Spherical Head Lifting Clutch it must be unloaded. Thereafter the EATHU Spherical Head Lifting Clutch can be coupled off by turning back the lip (Picture 4).

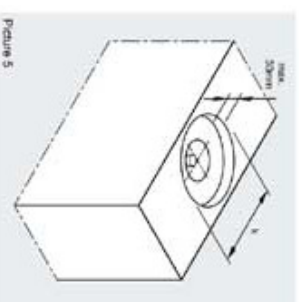
3. Corrosion Protection
The corrosion protection can be increased by installing the EATHU Spherical Head Anchor in a sunk position. The additional recess former must ensure the functionality of the anchor according to this installation instruction and must have the minimum dimensions of Table 2.



Picture 4

Table 2: Dimensions for Deepened Assembly

Load Group	disk [mm]
1.0 - 1.3	110.0
1.5 - 2.5	130.0
3.0 - 5.0	142.0
6.0 - 10.0	255.0
15.0 - 20.0	330.0



Picture 5

The EATHU Spherical Head Lifting Clutch counts as lifting device and is therefore subject of an annual inspection (BGR 500 Section 2.8). This inspection must be executed by an expert and is the responsibility of the user.

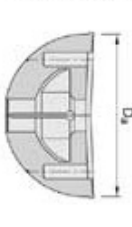
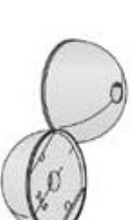
The particular accident prevention regulations must be taken into account in order to extend a higher durability. The right hook size and form should be considered.

Recess Formers

To fix the Spherical Head Anchors to the formwork a EATHU Recess former must be used. This ensures simple and secure locating of the anchor and leaves the anchor ready for the correct universal head lifting link.

Rubber recess former, round shape

The rubber recess former is constant in shape even when heated up to 120°C or in contact with oil. It can be used several times. In order to ease the identification of the load group the formers are produced in different colours. Recess formers are used with threaded plates which may be either rod or a socket.

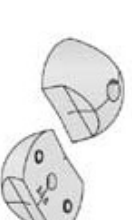


Rubber recess former, round shape

Load group	including plate with threaded rod		including plate with socket		without threaded parts		Colour	D _h [mm]
	Designation	Order no.	Designation	Order no.	Designation	Order no.		
1.3	6132-1.3	00001	6133-1.3	00001	6131-1.3	00001	blue	50
2.5	6132-2.5	00002	6133-2.5	00002	6131-2.5	00002	yellow	74
4.0	6132-4.0	00003	6133-4.0	00003	6131-4.0	00003	black	94
5.0	6132-5.0	00004	6133-5.0	00004	6131-5.0	00004	blue	94
7.5	6132-7.5	00005	6133-7.5	00005	6131-7.5	00005	red	118
10.0	6132-10	00006	6133-10	00006	6131-10	00006	yellow	118
15.0	6132-15	00007	6133-15	00007	6131-15	00007	gray	160
20.0	6132-20	00008	6133-20	00008	6131-20	00008	black	160
22.0/45.0	6132-32	00009	6133-32	00009	6131-32	00009	black	214

Rubber recess former, round shape

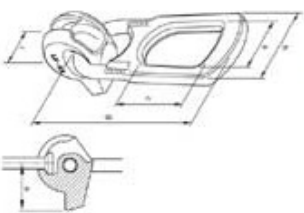
The narrow rubber recess former is used when the load is only in one direction. It is constant in shape even when heated up to 120°C or in contact with oil. It can be used several times. All of the narrow recess formers are coloured black.



Rubber recess former, round shape

Load group	including plate with threaded rod		including plate with socket		without threaded parts		Colour	D _h [mm]	D _h [mm]
	Designation	Order no.	Designation	Order no.	Designation	Order no.			
1.3	6134-1.3	00001	6145-1.3	00001	6137-1.3	00001	black	62	42
2.0/2.5	6134-2.0/2.5	00002	6145-2.0/2.5	00002	6137-2.0/2.5	00002	black	77	52
4.0	6134-4.0	00003	6145-4.0	00003	6137-4.0	00003	black	97	69
5.0	6134-5.0	00004	6145-5.0	00004	6137-5.0	00004	black	97	69
7.5	6134-7.5	00005	6145-7.5	00005	6137-7.5	00005	black	122	85
10.0	6134-10	00006	6145-10	00006	6137-10	00006	black	122	85
15.0	6134-15	00007	6145-15	00007	6137-15	00007	black	164	124
20.0	6134-20	00008	6145-20	00008	6137-20	00008	black	164	124

Type : TH



TH- Lifting eyes (clutch) , El. galvanised

Delivered with individual test certificate x 3 working load !

Type TH	Axial Capacities load	Dimensions mm								Weight
galvanised	kg	a	b	c	d	e	f	g		kg / pc
TH-1-3	1.300	47,5	76	71		45	33	165		1,0
TH-1,5-2,5	2.500	64	98	85		55	42	206		1,6
TH-3-5-0	5.000	70	118	88		66	57	240		3,3
TH-6-0-10-0	10.000	96	160	121		117,5	73	348,5		9,6
TH-15-20	20.000	118	188	150		155	110	441		24,5

The capacity loads are axial with breakage factor of safety equal to 5 for all the types of lifting eyes(1,3 tonne till 32 tonne).
Lifting clutch in 6 different load groups 1,3 -32 ton to suit the load carrying range of ALL TYPE OF LIFTING ANCHORS of the spherical-head anchor system!

Type : T



T- Anchors, BLACK

The capacity loads are axial with breakage factor of safety equal to 3.

Type T	Axial Capacities load	Lengths		Weight	Quantity
Black	kg	L = mm		kg / pc	per BAC
T-1,3-35	1.300	35		0,046	400
T-1,3-40	1.300	40		0,050	360
T-1,3-50	1.300	50		0,056	300
T-1,3-55	1.300	55		0,058	300
T-1,3-65	1.300	65		0,062	260
T-1,3-85	1.300	85		0,074	250
T-1,3-120	1.300	120		0,099	200
T-1,3-240	1.300	240		0,170	126
T-25-45	2.000	45		0,119	176

T-25-55	2.500	55	0,120	175
T-25-65	2.500	65	0,131	175
T-25-70	2.500	70	0,136	150
T-25-85	2.500	85	0,155	125
T-25-100	2.500	100	0,175	100
T-25-120	2.500	120	0,195	100
T-25-140	2.500	140	0,220	80
T-25-170	2.500	170	0,255	75
T-25-210	2.500	210	0,300	75
T-25-280	2.500	280	0,390	50
T-40-55	4.000	55	0,200	85
T-40-65	4.000	65	0,200	80
T-40-70	4.000	70	0,210	80
T-40-75	4.000	75	0,220	75
T-40-80	4.000	80	0,240	75
T-40-110	4.000	110	0,280	65
T-40-140	4.000	140	0,400	55
T-40-160	4.000	160	0,470	50
T-40-170	4.000	170	0,480	50
T-40-180	4.000	180	0,500	50
T-40-210	4.000	210	0,550	50
T-40-240	4.000	240	0,605	30
T-40-340	4.000	340	0,815	20
T-50-55	5.000	55	0,302	60
T-50-75	5.000	75	0,331	60
T-50-80	5.000	80	0,337	60
T-50-95	5.000	95	0,377	50
T-50-110	5.000	110	0,415	50
T-50-120	5.000	120	0,442	50
T-50-140	5.000	140	0,490	50
T-50-160	5.000	160	0,500	50
T-50-160	5.000	160	0,545	50
T-50-170	5.000	170	0,505	50
T-50-180	5.000	180	0,595	50
T-50-210	5.000	210	0,656	45
T-50-240	5.000	240	0,725	45
T-50-340	5.000	340	0,980	30
T-50-460	5.000	460	1,400	20
T-75-55	7.500	55	0,570	50
T-75-65	7.500	65	0,600	50
T-75-120	7.500	120	0,705	50
T-75-140	7.500	140	0,730	40
T-75-160	7.500	160	0,801	40
T-75-165	7.500	165	0,835	40
T-75-200	7.500	200	0,980	25
T-75-300	7.500	300	1,330	20
T-75-540	7.500	540	2,180	
T-75-660	8	660	2,700	



T-Anchors, Black

The capacity loads are axial with breakage factor of safety equal to 3.

Type: T	Axial Capacities load	Lengths	Weight	Quantity
Black	Kg	L = mm	Kg / pc	per BAG
T-100-85	10.000	85	0.772	
T-100-100	10.000	100	0.820	
T-100-110	10.000	110	0.890	
T-100-115	10.000	115	0.910	
T-100-120	10.000	120	0.920	
T-100-135	10.000	135	1.000	
T-100-150	10.000	150	1.088	
T-100-170	10.000	170	1.170	
T-100-200	10.000	200	1.300	
T-100-220	10.000	220	1.390	
T-100-250	10.000	250	1.559	
T-100-340	10.000	340	2.000	
T-100-650	10.000	650	3.600	
T-100-680	10.000	680	3.630	
T-150-140	15.000	140	1.800	
T-150-150	15.000	150	2.000	
T-150-165	15.000	165	2.200	
T-150-200	15.000	200	2.530	
T-150-210	15.000	210	2.610	
T-150-300	15.000	300	3.440	
T-150-400	15.000	400	4.270	
T-150-640	15.000	640	8.200	
T-200-165	20.000	165	2.600	
T-200-200	20.000	200	2.860	
T-200-250	20.000	250	3.455	
T-200-340	20.000	340	4.370	
T-200-500	20.000	500	5.870	
T-200-1000	20.000	1000	11.050	
T-320-175	32.000	175	5.460	
T-320-280	32.000	280	7.100	
T-320-500	32.000	500	11.200	
T-320-700	32.000	700	13.540	
T-320-1200	32.000	1200	21.000	
T-450-600	45.000	600	11.200	
T-450-1200	45.000	1200	21.000	

It is absolute not allow to weld at the body or the head of the anchor.

Type : T-HD



T-Anchors, Hot dipped galvanized

The capacity loads are axial with breakage factor of safety equal to 3.

Type: T-HD	Axial Capacities load	Lengths	Weight	Quantity
Hot dipped galvanized	Kg	L = mm	Kg / pc	per BAG
T-13-35-HD	1,300	35	0.045	400
T-13-40-HD	1,300	40	0.050	360
T-13-50-HD	1,300	50	0.055	300
T-13-55-HD	1,300	55	0.056	300
T-13-65-HD	1,300	65	0.062	260
T-13-85-HD	1,300	85	0.074	250
T-13-120-HD	1,300	120	0.095	200
T-13-240-HD	1,300	240	0.170	125
T-25-45-HD	2,500	45	0.119	175
T-25-55-HD	2,500	55	0.120	175
T-25-65-HD	2,500	65	0.131	175
T-25-70-HD	2,500	70	0.135	160
T-25-85-HD	2,500	85	0.155	125
T-25-100-HD	2,500	100	0.175	100
T-25-120-HD	2,500	120	0.195	100
T-25-140-HD	2,500	120	0.220	90
T-25-170-HD	2,500	170	0.255	75
T-25-280-HD	2,500	280	0.389	50
T-40-55-HD	4,000	55	0.250	85
T-40-65-HD	4,000	65	0.300	80
T-40-70-HD	4,000	70	0.310	75
T-40-75-HD	4,000	75	0.320	75
T-40-80-HD	4,000	80	0.340	70
T-40-110-HD	4,000	110	0.390	60
T-40-140-HD	4,000	140	0.460	50
T-40-160-HD	4,000	160	0.500	50
T-40-170-HD	4,000	170	0.510	50
T-40-180-HD	4,000	180	0.520	45
T-40-210-HD	4,000	210	0.550	40
T-40-240-HD	4,000	240	0.605	35
T-40-340-HD	4,000	340	0.815	25

Type : T-HD



T-Anchors, Hot dipped galvalnised

The capacity loads are axial with breakage factor of safety equal to 3.

Type: T-HD	Axial Capacities load	Lengths	Weight	Quantity
Hot dipped galvalnised	Kg	L = mm	Kg / pc	per BAG
T-50-65-HD	5,000	65	0.302	80
T-50-75-HD	5,000	75	0.331	80
T-50-80-HD	5,000	80	0.337	80
T-50-85-HD	5,000	85	0.360	50
T-50-95-HD	5,000	95	0.377	50
T-60-110-HD	5,000	110	0.416	50
T-60-120-HD	5,000	120	0.442	50
T-60-140-HD	5,000	140	0.490	50
T-60-150-HD	5,000	150	0.500	50
T-60-160-HD	5,000	160	0.546	50
T-60-180-HD	5,000	180	0.585	50
T-60-210-HD	5,000	210	0.656	45
T-60-240-HD	5,000	240	0.725	45
T-60-340-HD	5,000	340	0.980	30
T-60-480-HD	5,000	480	1.400	20
T-75-85-HD	7,500	85	0.570	50
T-75-95-HD	7,500	95	0.600	50
T-75-120-HD	7,500	120	0.705	50
T-75-150-HD	7,500	150	0.820	40
T-75-160-HD	7,500	160	0.835	40
T-75-200-HD	7,500	200	0.980	25
T-75-300-HD	7,500	300	1.330	20
T-75-540-HD	7,500	540	2.180	



T-Anchors, Hot dipped galvalnised

The capacity loads are axial with breakage factor of safety equal to 3.

Type T+HD	Axial Capacities load	Lengths	KG / pc	Quantity
Hot dipped galvalnised	Kg	L = mm		per BAG
T-100-100+HD	10,000	100	0.820	
T-100-110+HD	10,000	110	0.900	
T-100-115+HD	10,000	115	0.910	
T-100-120+HD	10,000	120	0.920	
T-100-125+HD	10,000	125	1.000	
T-100-150+HD	10,000	150	1.088	
T-100-170+HD	10,000	170	1.170	
T-100-220+HD	10,000	220	1.390	
T-100-250+HD	10,000	250	1.558	
T-100-340+HD	10,000	340	2.000	
T-100-650+HD	10,000	650	3.500	
T-100-680+HD	10,000	680	3.630	
T-150-140+HD	15,000	140	1.800	
T-150-150+HD	15,000	150	2.000	
T-150-165+HD	15,000	165	2.200	
T-150-200+HD	15,000	200	2.530	
T-150-210+HD	15,000	210	2.610	
T-150-300+HD	15,000	300	3.440	



T-Anchors, Hot dipped galvalnised

The capacity loads are axial with breakage factor of safety equal to 3.

Type T-HD	Axial Capacities load	Lengths	KG / pc	Quantity
Hot dipped galvalnised	Kg	L = mm		per BAG
T-150-400-HD	15,000	400	4.270	
T-150-540-HD	15,000	540	6.200	
T-200-165-HD	20,000	165	2.800	
T-200-250-HD	20,000	250	3.485	
T-200-340-HD	20,000	340	4.370	
T-200-500-HD	20,000	500	5.970	
T-200-1000-HD	20,000	1000	11.050	
T-320-280-HD	32,000	280	7.100	
T-320-500-HD	32,000	500	11.200	
T-320-700-HD	32,000	700	13.540	
T-320-1200-HD	32,000	1200	21.000	
T-450-500-HD	45,000	500	11.200	
T-450-1200-HD	45,000	1200	21.000	

It is absolute not allow to weld at the body or the head of the anchor.

Type : P



Type : P	Axial Capacities load KG	Lengths L = mm	Dimensions			Weight Kg / pc
			diam. C	diam. B	diam. A	
Black						
P-13-55	1300	55	25	19	19	0.087
P-13-85	1300	85	25	19	19	0.087
P-13-120	1300	120	25	19	19	0.109
P-25-85	2500	85	35	26	26	0.175
P-25-120	2500	120	35	26	26	0.215
P-25-170	2500	170	35	26	26	0.280
P-50-75	5000	75	50	36	36	0.430
P-50-120	5000	120	50	36	36	0.590
P-50-240	5000	240	50	36	36	0.925

The capacity loads are axial with breakage factor of safety equal to 3.

Type : P – HD

P- Anchors, Hot dipped galvanized

Type : P-HD	Axial Capacities load KG	Lengths L = mm	Dimensions			Weight Kg / pc
			diam. C	diam. B	diam. A	
Hot dipped galvanized						
P-13-85-HD	1300	85	25	19	19	0.088
P-13-120-HD	1300	120	25	19	19	0.110
P-25-55-HD	2500	55	35	26	26	0.165
P-25-85-HD	2500	85	35	26	26	0.185
P-25-120-HD	2500	120	35	26	26	0.220
P-25-170-HD	2500	170	35	26	26	0.297
P-50-75-HD	5000	75	50	36	36	0.430
P-50-120-HD	5000	120	50	36	36	0.590
P-50-240-HD	5000	240	50	36	36	0.925

The capacity loads are axial with breakage factor of safety equal to 3.

Type : O



Type : O	Axial Capacities load KG	Lengths L = mm	Dimensions			Weight Kg / pc	Quantity per bag
			diam. C	diam. B	diam. A		
Black							
O-13-55	1300	55	9	10	19	0.055	350
O-25-90	2500	90	13	14	26	0.175	125
O-25-120	2500	120	13	14	26	0.233	125
O-50-90	5000	90	18	20	36	0.350	60
O-50-120	5000	120	18	20	36	0.435	50
O-100-115	10,000	115	25	28	47	0.810	-
O-100-180	10,000	180	25	28	47	1.130	-
O-200-250	20,000	250	37	39	70	3.280	-
O-320-300	32,000	300	47	50	88	6.310	-

The capacity loads are axial with breakage factor of safety equal to 3.

O- Anchors, Hot dipped galvanized

Type:O-HD	Axial Capacities load KG	Lengths L = mm	Dimensions			Weight Kg / pc	Quantity per bag
			diam. C	diam. B	diam. A		
Hot dipped galvanized							
O-13-55-HD	1300	55	9	10	19	0.065	350
O-25-90-HD	2500	90	13	14	26	0.175	125
O-50-90-HD	5000	90	18	20	36	0.350	60
O-50-120-HD	5000	120	18	20	36	0.435	50
O-100-115-HD	10,000	115	25	28	47	0.810	-
O-100-180-HD	10,000	180	25	28	47	1.130	-
O-200-250-HD	20,000	250	37	39	70	3.280	-
O-320-300-HD	32,000	300	47	50	88	6.310	-

The capacity loads are axial with breakage factor of safety equal to 3.