RUD ACP-TURNADO.

A game changer for lifting points.



THE FIRST SMART LIFTING POINT IN THE WORLD.

The lift bail does not stop with dangerous transverse load.

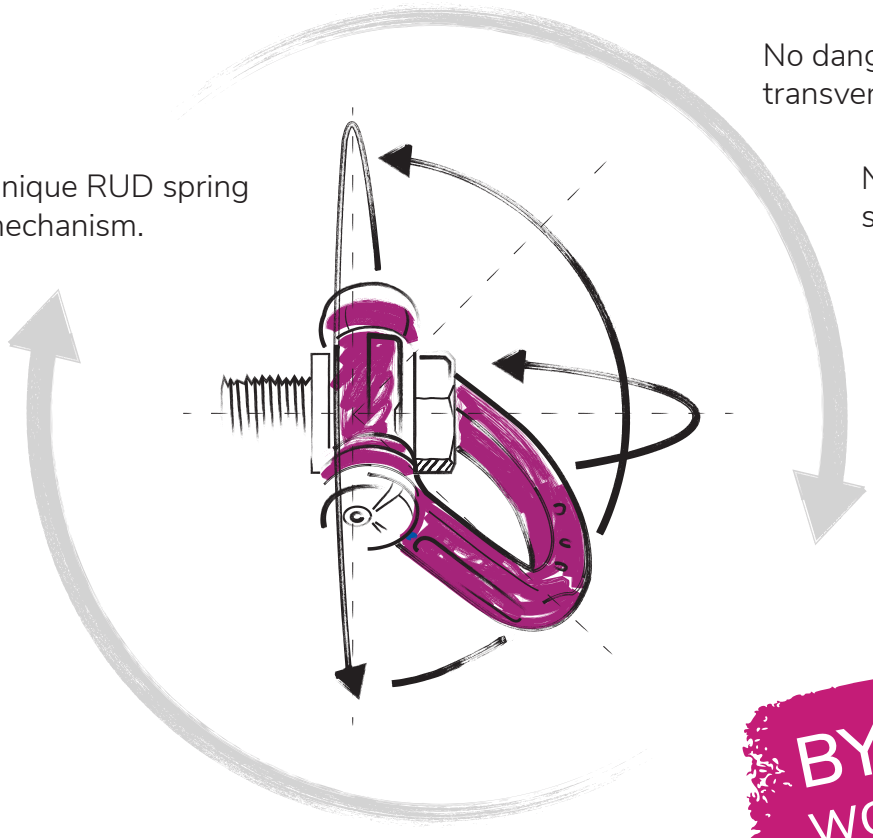
No dangerous transverse loads.

No unexpected sagging of the load.

No falling of the load.

Prevents damage to the crane or load.

Unique RUD spring mechanism.



BYE BYE WORST CASE!

NEW! Now up to M100 (4").
Up to 30 % higher WLL.



ACP-TURNADO

M8 – M30
(⅜" – 1 ¼")



ACP-TURNADO
MAX

M36 – M56
(1 ½" – 2")



ACP-TURNADO
SUPERMAX

M64 – M100
(2 ½" – 4")



Easy and safe handling.



Combination head bolt with internal and external hexagon socket.



Patented wear markings for determination of the discard age.

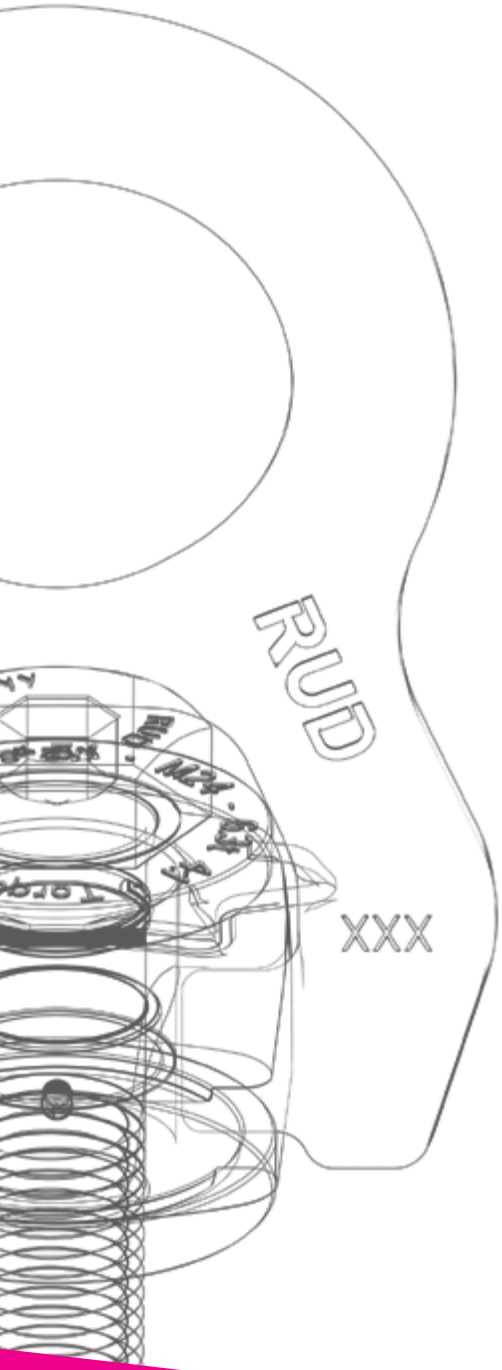


RUD BLUE-ID SYSTEM
Integrated RFID transponder to make checks easier.


12a



SMART DOWN TO THE LAST DETAIL.



Optimised for any load weight: The designs of the RUD ACP-TURNADO.

The RUD ACP-TURNADO sets new standards for the safe lifting of valuable loads. Thanks to its innovative spring mechanism, its lift bail immediately turns into the load direction when the load is lifted, so it cannot remain vertical. Dangerous transverse loads and a sudden drop of the load by sudden turning into the load direction are therefore impossible.

Since every application has special requirements, we have developed three different designs for the RUD ACP-TURNADO. Each of them is perfectly adapted to a defined WLL range and specific requirements. This is available only at RUD in this market segment.

Common features of all designs:

- Innovative spring mechanism – prevents the lift bail from stopping with transverse load.
- Swivel joint in the lifting ring axis.
- Wear lenses for checking discard criteria.
- Integrated RFID transponder to make checks easier.
- Safety factors 4:1 and 5:1.
- Meets and exceeds the requirements of the American standard ASME B30.26.

ACP-TURNADO SUPERMAX



M64 – M100 (2 ½" – 4")

- Innovative, protected internal spring mechanism – prevents the lift bail from stopping.
- Deflector disc with angle marking, WLL information in “t” and “lbs”, safety factors, and torque moment.
- Threaded rod – firmly connected.
- Free space for individual marking/stamp.



ACP-TURNADO MAX

M36 – M56 (1 ½" – 2")

- Innovative, optimally protected internal spring mechanism – prevents vertical stopping of the lift bail.
- Deflector disc with angle marking, WLL information in “t” and “lbs”, safety factors, and torque moment.
- M36 – M48: Combination head screw with internal and external hexagon for optimised handling; M52 – M56: threaded pin – firmly connected.
- Free space for individual marking/stamp.

ACP-TURNADO

M8 – M30 (½" – 1 ¼")

- Innovative exterior spring mechanism – prevents vertical stopping of the lift bail.
- Round lift bail – no clinking possible.
- Combination head threaded rod with internal and external hexagon for optimised handling; up to M24 (1") as RUD ICE-BOLT.



MORE SIZE.

RUD ACP-TURNADO M8 – M100 (½" – 4").



ACP-TURNADO
SUPERMAX

M64 – M100 (2 ½" – 4")

Wide variety meets endless applications.

There is an ambitious goal behind the RUD ACP-TURNADO: to perfect a well-known design. Therefore, we have carried out a significant optimisation of the basic design and essential details of conventional lifting points. The result was a lifting point that eliminates the disadvantages of existing solutions and makes the user's work easier and safer. You can choose between threads in various metric and inch sizes in three designs.



ACP-TURNADO

M8 – M30 (½" – 1 ¼")

ACP-TURNADO MAX

M36 – M56 (1 ½" – 2")

This illustration shows the 17 standard metric sizes.

SIMPLY STRONGER.

Up to 30 % more WLL than other lifting points.[1]

The RUD ACP-TURNADO stands up to every comparison. It is considerably ahead of many others at decisive points. It excels with up to 30 % higher load-bearing capacity compared to lifting points from other suppliers which are comparable in terms of design and size. This provides you with considerable reserves in the maximum WLL for all load weights as well as noticeable handling advantages.

The RUD ACP-TURNADO also has a clear lead in the variety of thread sizes. In addition to its extensive range of standard variants, it is always available for a custom solution. This makes the RUD ACP-TURNADO the first choice wherever heavy loads have to be moved in a safe, precise and ergonomic manner.

Up to 30 % higher WLL[1]



[1] Higher WLL compared to lifting points of comparable design and size from other suppliers.

CUSTOM THREADS.

The point: your application, our solution.

We at RUD are committed to always offer you a tailor-made solution that meets your specific requirements. This is why we equip the RUD ACP-TURNADO up to M48 (2") with a bolt that can be replaced. From thread size M52 (2 ½"), on the other hand, it has a threaded rod that is firmly connected. Thanks to this concept, large lifting points can be implemented even in very small batch sizes in a flexible, fast, and cost-effective manner. You can flexibly choose the length, type and diameter of the thread to fit your application. Individual special threads up to a length of 300 mm are possible.

ALL SIZES AND DESIGNS AT A GLANCE.



ACP-TURNADO							ACP-TURNADO MAX					ACP-TURNADO SUPERMAX				
Metric threads							Metric threads					Metric threads				
M8	M10	M12	M16	M20	M24	M30	M36	M42	M48	M52	M56	M64	M72	M80	M90	M100
Bolt (replaceable)										Threaded pin (firmly connected)						

ACP-TURNADO					ACP-TURNADO MAX			ACP-TURNADO SUPERMAX			
UNC inch thread					UNC inch thread			UNC inch thread			
1/2"	5/8"	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2"	2 1/2"	3"	3 1/2"	4"
Bolt (replaceable)								Threaded pin (firmly connected)			

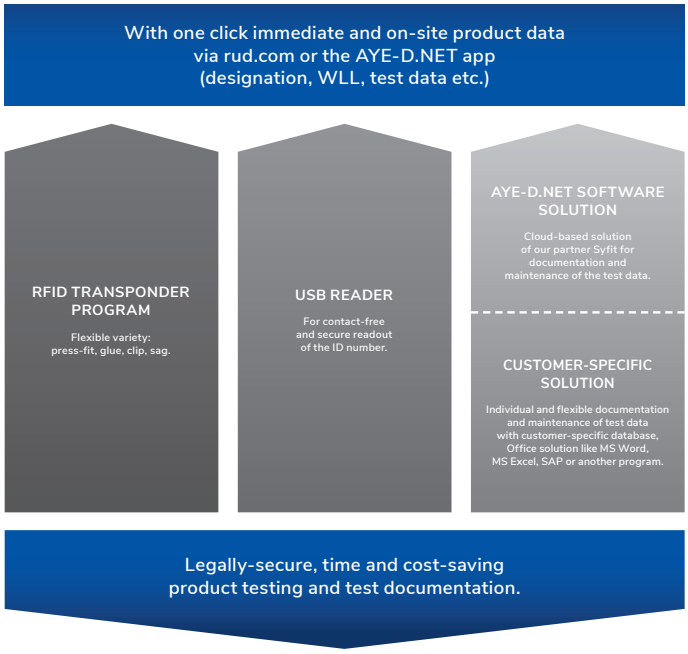


RFID ON BOARD BY DEFAULT.

The RUD ACP-TURNADO: fit for simplified equipment inspection with the RUD BLUE-ID SYSTEM.

Like many other RUD products, all versions of the RUD ACP-TURNADO have an integrated RUD ID-POINT® RFID transponder by default. This allows every lifting point to be identified during the prescribed equipment tests in a simple, unmistakable, and legally certain manner.

In connection with the RUD BLUE-ID SYSTEM consisting of transponders, readers, and software, your daily work will be easier, and you will save a significant amount of money. Using one of our readers or a smart phone with NFC capability, you transmit the transponder data for the inspection wirelessly to the connected software or app. Your entire testing process becomes easier, faster, and more reliable.





RUD BLUE-ID SYSTEM

If you see this symbol next to the image of an RUD product, you know:
An RFID transponder is installed here.

ACP-TURNADO

WLL M8 – M30 (½" – 1 ¼")
SAFETY FACTOR 4:1



THREAD SIZES M8–M30											
Number of strands		**1**	**1**	**2**	**2**	**2**	**2**	**2**	**3/4**	**3/4**	**3/4**
Angle of inclination <ß		**0°**	**90°**	**0°**	**90°**	**0–45°**	**> 45–60°**	**Asymm.**	**0–45°**	**> 45–60°**	**Asymm.**
Factor		**1**	**1**	**2**	**2**	**1.4**	**1**	**1**	**2.1**	**1.5**	**1**
Tonnage	**Thread size**										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads / UNC inch thread											
0.7 t	M8	0.7	0.7	1.4	1.4	0.98	0.7	0.7	1.47	1.05	0.7
1 t	M10	1	1	2	2	1.4	1	1	2.1	1.5	1
1.35 t	M12 / 1/2"	1.35	1.35	2.7	2.7	1.9	1.35	1.35	2.84	2	1.35
2.5 t	M16 / 5/8"	2.5	2.5	5	5	3.5	2.5	2.5	5.25	3.75	2.5
4 t	M20 / 3/4"	4	4	8	8	5.6	4	4	8.4	6	4
6.3 t	M24 / 1"	6.3	6.3	12.6	12.6	8.8	6.3	6.3	13.2	9.4	6.3
8 t	M30 / 1 1/4"	8	8	16	16	11.2	8	8	17	11.8	8
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads / UNC inch thread											
1,540 lbs	M8	1,540	1,540	3,080	3,080	2,170	1,540	1,540	3,260	2,310	1,540
2,200 lbs	M10	2,200	2,200	4,400	4,400	3,110	2,200	2,200	4,660	3,300	2,200
2,970 lbs	M12 / 1/2"	2,970	2,970	5,940	5,940	4,200	2,970	2,970	6,300	4,450	2,970
5,500 lbs	M16 / 5/8"	5,500	5,500	11,000	11,000	7,770	5,500	5,500	11,660	8,250	5,500
8,820 lbs	M20 / 3/4"	8,820	8,820	17,640	17,640	12,470	8,820	8,820	18,710	13,230	8,820
13,890 lbs	M24 / 1"	13,890	13,890	27,780	27,780	19,640	13,890	13,890	29,460	20,830	13,890
17,630 lbs	M30 / 1 1/4"	17,630	17,630	35,260	35,260	24,930	17,630	17,630	37,400	26,440	17,630

The following applies to both tables:
Specifications in tonnes [t] (top) and in lbs (bottom).
Maximum transport weight "G" in [t] with different lifting methods.
Subject to technical changes!

4:1 lbs 5:1 360° 180° M

UNC VARIO ASME B30.26 BLUE-ID 350°C max. -40° 100°C

RUD

SAFETY FACTOR 5:1

THREAD SIZES M8–M30											
Number of strands		1	1	2	2	2	2	2	3/4	3/4	3/4
Angle of inclination <ß		0°	90°	0°	90°	0–45°	> 45–60°	Asymm.	0–45°	> 45–60°	Asymm.
Factor		1	1	2	2	1.4	1	1	2.1	1.5	1
Tonnage	Thread size										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads / UNC inch thread											
0.56 t	M8	0.56	0.56	1.12	1.12	0.79	0.56	0.56	1.18	0.84	0.56
0.8 t	M10	0.8	0.8	1.6	1.6	1.12	0.8	0.8	1.70	1.18	0.8
1.1 t	M12 / 1/2"	1.1	1.1	2.2	2.2	1.5	1.1	1.1	2.3	1.6	1.1
2 t	M16 / 5/8"	2	2	4	4	2.8	2	2	4.25	3	2
3.2 t	M20 / 3/4"	3.2	3.2	6.4	6.4	4.5	3.2	3.2	6.7	4.8	3.2
5 t	M24 / 1"	5	5	10	10	7.1	5	5	10.6	7.5	5
6.4 t	M30 / 1 1/4"	6.4	6.4	12.8	12.8	9	6.4	6.4	13.5	9.6	6.4
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads / UNC inch thread											
1,230 lbs	M8	1,230	1,230	2,460	2,460	1,730	1,230	1,230	2,600	1,840	1,230
1,760 lbs	M10	1,760	1,760	3,520	3,520	2,480	1,760	1,760	3,730	2,640	1,760
2,380 lbs	M12 / 1/2"	2,380	2,380	4,760	4,760	3,360	2,380	2,380	5,040	3,570	2,380
4,400 lbs	M16 / 5/8"	4,400	4,400	8,800	8,800	6,220	4,400	4,400	9,330	6,600	4,400
7,040 lbs	M20 / 3/4"	7,040	7,040	14,080	14,080	9,950	7,040	7,040	14,930	10,560	7,040
11,080 lbs	M24 / 1"	11,080	11,080	22,160	22,160	15,670	11,080	11,080	23,500	16,620	11,080
14,080 lbs	M30 / 1 1/4"	14,080	14,080	28,160	28,160	19,910	14,080	14,080	29,860	21,120	14,080



ACP-TURNADO MAX

WLL M36 – M56 (1 ½" – 2")
SAFETY FACTOR 4:1



THREAD SIZES M36–M56											
Number of strands		1	1	2	2	2	2	2	3/4	3/4	3/4
Angle of inclination <ß		0°	90°	0°	90°	0–45°	> 45–60°	Asymm.	0–45°	> 45–60°	Asymm.
Factor		1	1	2	2	1.4	1	1	2.1	1.5	1
Tonnage	Thread size										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads											
12.5 t	M36	15	12.5	30	25	17	12.5	12.5	26.5	19	12.5
16 t	M42	18	16	36	32	22.4	16	16	33.6	24	16
20 t	M48	25	20	50	40	28	20	20	42	30	20
24 t	M52	26	24	52	48	33.6	24	24	50.4	36	24
27 t	M56	32.5	27	65	54	38	27	27	57	40.5	27
UNC inch thread											
14 t	1 1/2"	16	14	32	28	19.6	14	14	29.4	21	14
16 t	1 3/4"	18	16	36	32	22.4	16	16	33.6	24	16
22 t	2"	25	22	50	44	30.8	22	22	46.2	33	22
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads											
27,550 lbs	M36	33,070	27,550	66,140	55,100	38,960	27,550	27,550	58,440	41,320	27,550
35,270 lbs	M42	39,680	35,270	79,360	70,540	49,870	35,270	35,270	74,810	52,900	35,270
44,090 lbs	M48	55,110	44,090	110,220	88,180	62,350	44,090	44,090	93,520	66,130	44,090
52,910 lbs	M52	57,320	52,910	114,640	105,820	74,820	52,910	52,910	112,230	79,360	52,910
59,520 lbs	M56	71,650	59,520	143,300	119,040	84,170	59,520	59,520	126,260	89,280	59,520
UNC inch thread											
30,860 lbs	1 1/2"	35,270	30,860	70,540	61,720	43,640	30,860	30,860	65,460	46,290	30,860
35,270 lbs	1 3/4"	39,680	35,270	79,360	70,540	49,870	35,270	35,270	74,810	52,900	35,270
48,500 lbs	2"	55,110	48,500	110,220	97,000	68,580	48,500	48,500	102,880	72,750	48,500

The following applies to both tables:
Specifications in tonnes [t] (top) and in lbs (bottom).
Maximum transport weight "G" in [t] with different lifting methods.
Subject to technical changes!

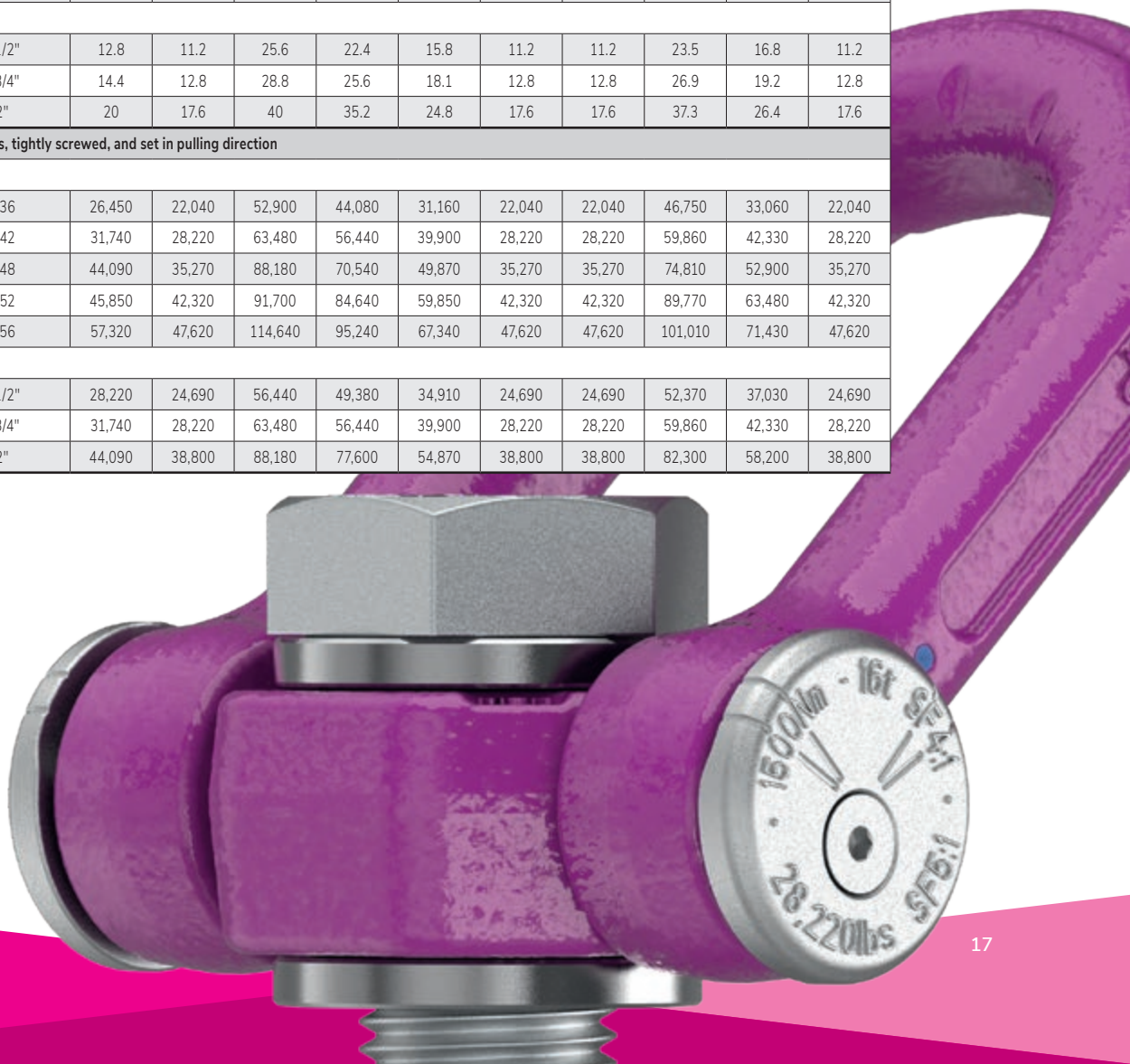
4:1 lbs 5:1 360° 180° M

UNC VARIO ASME B30.26 BLUE-ID 350°C max. -40° 100°C

RUD®

SAFETY FACTOR 5:1

THREAD SIZES M36–M56											
Number of strands		1	1	2	2	2	2	2	3/4	3/4	3/4
Angle of inclination <ß		0°	90°	0°	90°	0–45°	> 45–60°	Asymm.	0–45°	> 45–60°	Asymm.
Factor		1	1	2	2	1.4	1	1	2.1	1.5	1
Tonnage	Thread size										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads											
10 t	M36	12	10	24	20	14	10	10	21.2	15	10
12.8 t	M42	14.4	12.8	28.8	25.6	18.1	12.8	12.8	26.9	19.2	12.8
16 t	M48	20	16	40	32	22.4	16	16	33.6	24	16
19.2 t	M52	21	19.2	42	38.4	27.1	19.2	19.2	40.7	28.8	19.2
21.6 t	M56	26	21.6	52	43.2	30.5	21.6	21.6	45.8	32.4	21.6
UNC inch thread											
11.2 t	1 1/2"	12.8	11.2	25.6	22.4	15.8	11.2	11.2	23.5	16.8	11.2
12.8 t	1 3/4"	14.4	12.8	28.8	25.6	18.1	12.8	12.8	26.9	19.2	12.8
17.6 t	2"	20	17.6	40	35.2	24.8	17.6	17.6	37.3	26.4	17.6
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads											
22,040 lbs	M36	26,450	22,040	52,900	44,080	31,160	22,040	22,040	46,750	33,060	22,040
28,220 lbs	M42	31,740	28,220	63,480	56,440	39,900	28,220	28,220	59,860	42,330	28,220
35,270 lbs	M48	44,090	35,270	88,180	70,540	49,870	35,270	35,270	74,810	52,900	35,270
42,320 lbs	M52	45,850	42,320	91,700	84,640	59,850	42,320	42,320	89,770	63,480	42,320
47,620 lbs	M56	57,320	47,620	114,640	95,240	67,340	47,620	47,620	101,010	71,430	47,620
UNC inch thread											
24,690 lbs	1 1/2"	28,220	24,690	56,440	49,380	34,910	24,690	24,690	52,370	37,030	24,690
28,220 lbs	1 3/4"	31,740	28,220	63,480	56,440	39,900	28,220	28,220	59,860	42,330	28,220
38,800 lbs	2"	44,090	38,800	88,180	77,600	54,870	38,800	38,800	82,300	58,200	38,800



ACP-TURNADO SUPERMAX

WLL M64 – M100 (2 ½" – 4")
SAFETY FACTOR 4:1



THREAD SIZES M64–M100											
Number of strands		1	1	2	2	2	2	2	3/4	3/4	3/4
Angle of inclination <ß		0°	90°	0°	90°	0–45°	> 45–60°	Asymm.	0–45°	> 45–60°	Asymm.
Factor		1	1	2	2	1.4	1	1	2.1	1.5	1
Tonnage	Thread size										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads											
32.5 t	M64	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	M72	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	M80	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	M90	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	M100	35	32.5	70	65	46	32.5	32.5	69	49	32.5
UNC inch thread											
32.5 t	2 1/2"	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	3"	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	3 1/2"	35	32.5	70	65	46	32.5	32.5	69	49	32.5
32.5 t	4"	35	32.5	70	65	46	32.5	32.5	69	49	32.5
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads											
71,650 lbs	M64	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	M72	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	M80	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	M90	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	M100	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
UNC inch thread											
71,650 lbs	2 1/2"	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	3"	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	3 1/2"	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650
71,650 lbs	4"	77,160	71,650	154,320	143,300	100,310	71,650	71,650	152,000	107,470	71,650

The following applies to both tables:
Specifications in tonnes [t] (top) and in lbs (bottom).
Maximum transport weight "G" in [t] with different lifting methods.
Subject to technical changes!

SAFETY FACTOR 5:1

THREAD SIZES M64–M100											
Number of strands		1	1	2	2	2	2	2	3/4	3/4	3/4
Angle of inclination <ß		0°	90°	0°	90°	0–45°	> 45–60°	Asymm.	0–45°	> 45–60°	Asymm.
Factor		1	1	2	2	1.4	1	1	2.1	1.5	1
Tonnage	Thread size										
For max. total load weight in tonnes, tightly screwed, and set in pulling direction											
Metric threads											
26 t	M64	28	26	56	52	36.8	26	26	55	39	26
26 t	M72	28	26	56	52	36.8	26	26	55	39	26
26 t	M80	28	26	56	52	36.8	26	26	55	39	26
26 t	M90	28	26	56	52	36.8	26	26	55	39	26
26 t	M100	28	26	56	52	36.8	26	26	55	39	26
UNC inch thread											
26 t	2 1/2"	28	26	56	52	36.8	26	26	55	39	26
26 t	3"	28	26	56	52	36.8	26	26	55	39	26
26 t	3 1/2"	28	26	56	52	36.8	26	26	55	39	26
26 t	4"	28	26	56	52	36.8	26	26	55	39	26
For max. total load weight in lbs, tightly screwed, and set in pulling direction											
Metric threads											
57,320 lbs	M64	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	M72	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	M80	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	M90	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	M100	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
UNC inch thread											
57,320 lbs	2 1/2"	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	3"	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	3 1/2"	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320
57,320 lbs	4"	61,720	57,320	123,440	114,640	81,000	57,320	57,320	121,590	85,980	57,320



ACP-TURNADO



M8 – M30
(½" – 1 ¼")

Metric thread /
metric thread in chosen length.

UNC inch thread /
UNC inch thread in chosen length.



TECHNICAL DATA: METRIC THREADS

ACP-TURNADO – ICE-BOLT THREAD– METRIC.

Type	WLL [t]	Weight [kg/unit]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]	L [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP-TURNADO 0.7 t M8	0.7	0.36	11	10.5	38	30	12	28	45.3	13	58	40	M8	5	83	30	7912061
ACP-TURNADO 1 t M10	1	0.37	11	10.5	38	30	16	28	50.4	17	58	44	M10	6	83	60	7912064
ACP-TURNADO 1.35 t M12	1.35	0.38	11	10.5	38	30	19	28	54.5	19	58	47	M12	8	83	80	7909314
ACP-TURNADO 2.5 t M16	2.5	0.88	14	14	50	40	22	36	68	24	76	58	M16	10	107	150	7909316
ACP-TURNADO 4 t M20	4	1.41	17	17.25	50	45	26.5	43.5	82.5	30	89	70	M20	12	118	300	7909317
ACP-TURNADO 6.3 t M24	6.3	3.27	23	23	66	60	34	55	104	36	121	89	M24	14	154	500	7909318
ACP-TURNADO 8 t M30	8	5.69	29	27	75	75	41.5	68.5	129	46	148	110	M30	17	183	800	7909319

Subject to technical changes!

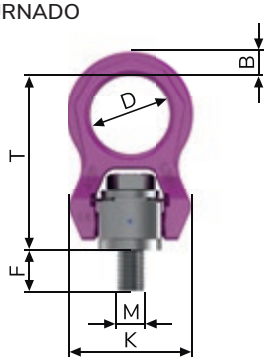
ACP-TURNADO – METRIC IN CHOSEN LENGTH INCL. SECURING NUT AND WASHER.

Type	WLL [t]	Weight [kg/unit]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I [mm]	K [mm]	L vario [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP-TURNADO 0.7 t M8	0.7	[1]	11	10.5	38	30	8–77	28	41.3–110.3	13	58	36–105	M8	5	83	30	8600630
ACP-TURNADO 1 t M10	1	[1]	11	10.5	38	30	10–97	28	44.4–131.4	17	58	38–125	M10	6	83	60	8600631
ACP-TURNADO 1.35 t M12	1.35	[1]	11	10.5	38	30	12–117	28	47.5–153	19	58	40–145	M12	8	83	80	8600632
ACP-TURNADO 2.5 t M16	2.5	[1]	14	14	50	40	16–149	36	62–195	24	76	52–185	M16	10	107	150	8600634
ACP-TURNADO 4 t M20	4	[1]	17	17.25	50	45	20–186.5	43.5	66–242	30	89	53.5–230	M20	12	118	300	8600636
ACP-TURNADO 6.3 t M24	6.3	[1]	23	23	66	60	24–210	55	94–280	36	121	79–265	M24	14	154	500	8600638
ACP-TURNADO 8 t M30	8	[1]	29	27	75	75	30–271.5	68.5	117.5–359	46	148	98.5–340	M30	17	183	800	8600640

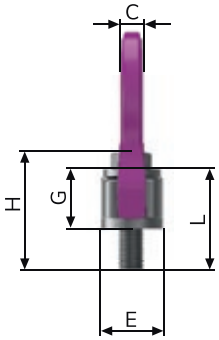
[1] Weight depends on the design.

Subject to technical changes!

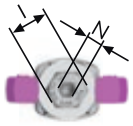
ACP-TURNADO



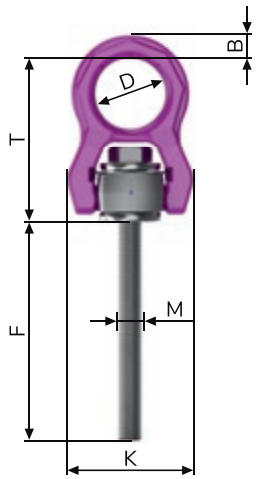
ACP-TURNADO



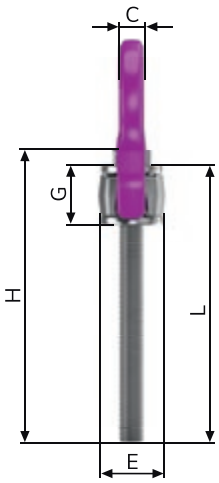
ACP-TURNADO



ACP-TURNADO – variable length



ACP-TURNADO – variable length



ACP-TURNADO – variable length




30
RUD
ACP-TURNADO

TECHNICAL DATA: UNC INCH THREAD

ACP-TURNADO – UNC INCH THREAD.

Type	WLL [t]	Weight [kg/unit]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I	K [mm]	L [mm]	M	N	T [mm]	Tightening torque [Nm]	Order no.
ACP – 1.35 t 1/2"-13UNC	1.35	0.39	11	10.5	38	30	18	28	54	3/4"	58	46	1/2"-13UNC	5/16"	83	80	7909417
ACP – 2.5 t 5/8"-11UNC	2.5	0.88	14	14	50	40	22	36	68	15/16"	76	58	5/8"-11UNC	3/8"	107	150	7909418
ACP – 4 t 3/4"-10UNC	4	1.41	17	17.25	50	45	25.5	43.5	81	1 1/8"	89	69	3/4"-10UNC	1/2"	118	300	7909419
ACP – 6.3 t 1"-8UNC	6.3	3.22	23	23	66	60	36	55	105.5	1 1/2"	121	91	1"-8UNC	9/16"	154	500	7909420
ACP – 8 t 1 1/4"-7UNC	8	5.77	29	27	75	75	46.5	68.5	134.5	1 7/8"	148	115	1 1/4"-7UNC	5/8"	183	800	7909421

Subject to technical changes!

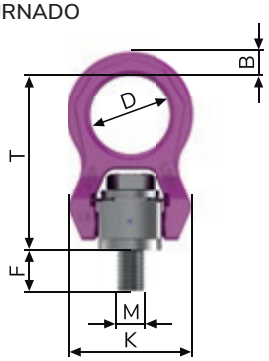
ACP-TURNADO – UNC INCH THREAD IN CHOSEN LENGTH.

Type	WLL [t]	Weight [kg/unit]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I	K [mm]	L vario [mm]	M	N	T [mm]	Tightening torque [Nm]	Order no.
ACP – 1.35 t 1/2"-13UNC	1.35	[1]	11	10.5	38	30	13–124.4	28	51–160	3/4"	58	41–152.4	1/2"-13UNC	5/16"	83	80	8600632
ACP – 2.5 t 5/8"-11UNC	2.5	[1]	14	14	50	40	16–148.4	36	62–194	15/16"	76	52–184	5/8"-11UNC	3/8"	107	150	8600634
ACP – 4 t 3/4"-10UNC	4	[1]	17	17.25	50	45	19–185	43.5	74.5–240	1 1/8"	89	62.5–228.6	3/4"-10UNC	1/2"	118	300	8600636
ACP – 6.3 t 1"-8UNC	6.3	[1]	23	23	66	60	25–199	55	94.5–270	1 1/2"	121	80–254	1"-8UNC	9/16"	154	500	8600638
ACP – 8 t 1 1/4"-7UNC	8	[1]	29	27	75	75	32–271	68.5	120–359	1 7/8"	148	100.5–339.5	1 1/4"-7UNC	5/8"	183	800	8600640

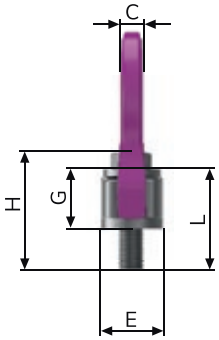
[1] Weight depends on the design.

Subject to technical changes!

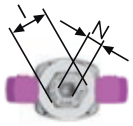
ACP-TURNADO



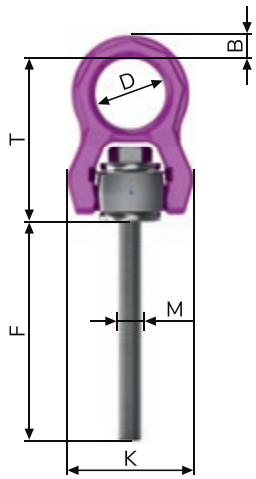
ACP-TURNADO



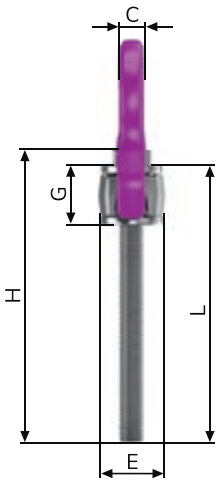
ACP-TURNADO



ACP-TURNADO – variable length



ACP-TURNADO – variable length



ACP-TURNADO – variable length



ACP-TURNADO MAX



M36 – M56
(1 ½" – 2")

Metric thread /
metric thread in chosen length.

UNC inch thread /
UNC inch thread in chosen length.



TECHNICAL DATA: METRIC THREADS

ACP-TURNADO MAX – METRIC.

Type	WLL [t]	Weight [kg/unit]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]	L [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP M36	12.5	7.1	106	32	32	82	70	45	60	128	55	168	105	M36	22	189	800	7911052
ACP M42	16	7.5	106	32	32	82	70	53	60	136	65	168	113	M42	24	189	1,500	7911053
ACP M48	20	16	126	45	45	103	90	60.5	78.5	169	75	204	139	M48	27	235	2,000	7912630
ACP M52 [1]	24	16.5	123.5	45	45	103	95	65	108	173	75	204	–	M52	24	232	2,000	7912631
ACP M56 [1]	27	16.7	123.5	45	45	103	95	70	108	178	75	204	–	M56	24	232	2,000	7912632

[1] Bolt cannot be replaced.

Subject to technical changes!

ACP-TURNADO MAX – METRIC IN CHOSEN LENGTH.

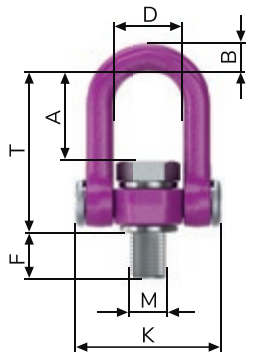
Type	WLL [t]	Weight (kg/unit)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I [mm]	K [mm]	L vario [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP M36	12.5	[2]	106	32	32	82	70	36–240	60	119–323	55	168	96–300	M36	22	189	800	8600642
ACP M42	16	[2]	106	32	32	82	70	42–290	60	125–373	65	168	102–350	M42	24	189	1,500	8600644
ACP M48	20	[2]	126	45	45	103	90	48–311.5	78.5	156.5–420	75	204	126.5–390	M48	27	235	2,000	8600645
ACP M52 [1]	24	[2]	123.5	45	45	103	95	52–300	–	160–408	75	204	–	M52	24	232	2,000	8600647
ACP M56 [1]	27	[2]	123.5	45	45	103	95	56–300	–	164–408	75	204	–	M56	24	232	2,000	8600648

[1] Bolt cannot be replaced.

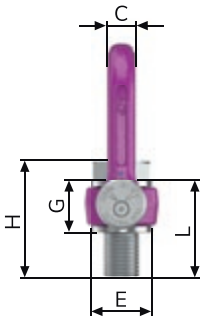
[2] Weight depends on the design.

Subject to technical changes!

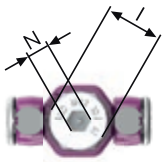
ACP-TURNADO MAX



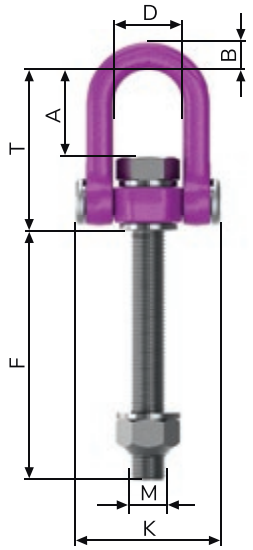
ACP-TURNADO MAX



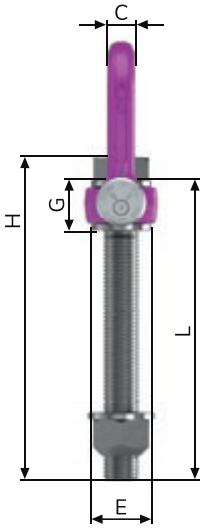
ACP-TURNADO MAX



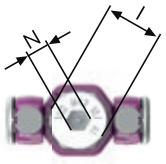
ACP-TURNADO MAX – variable length



ACP-TURNADO MAX – variable length



ACP-TURNADO MAX – variable length




56
RUD
ACP-TURNADO
MAX
M36–M

TECHNICAL DATA: UNC INCH THREAD

ACP-TURNADO MAX – UNC INCH THREAD.

Type	WLL [t]	Weight [kg/unit]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]	L [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP 1 1/2"	14	7.3	106	32	32	82	70	48	60	131	2 1/4"	168	108	1 1/2"-6UNC	7/8"	189	800	7911054
ACP 1 3/4"	16	7.5	104	32	32	82	70	56	60	141	2 5/8"	168	117	1 3/4"-5UNC	1"	189	1,500	7911055
ACP 2"	22	14.9	126	45	45	103	90	63.5	79	172	3"	204	142	2"-4.5UNC	1 1/8"	235	2,000	7912638

Subject to technical changes!

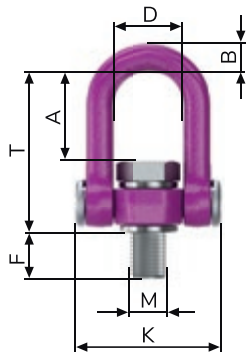
ACP-TURNADO MAX – UNC INCH THREAD IN CHOSEN LENGTH.

Type	WLL [t]	Weight (kg/unit)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I [mm]	K [mm]	L vario [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP 1 1/2"	14	[1]	106	32	32	82	70	48–287	60	131–370	2 1/4"	168	108–347	1 1/2"-6UNC	7/8"	189	800	8600643
ACP 2"	22	[1]	126	45	45	103	90	51–311	79	160–420	3"	204	130–390	2"-4.5UNC	1 1/8"	235	2,000	8600646

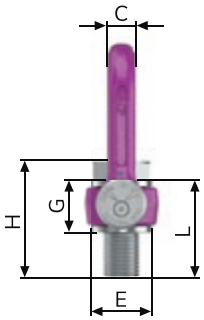
[1] Weight depends on the design.

Subject to technical changes!

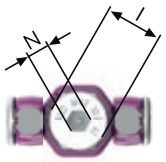
ACP-TURNADO MAX



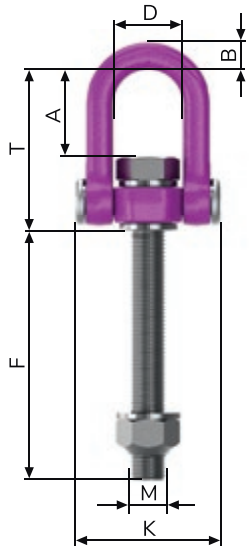
ACP-TURNADO MAX



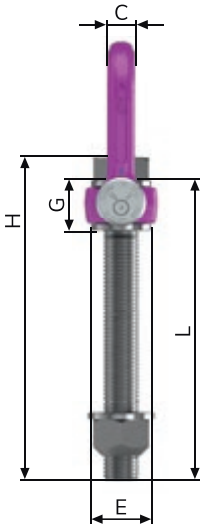
ACP-TURNADO MAX



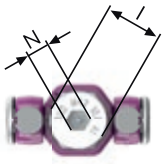
ACP-TURNADO MAX – variable length



ACP-TURNADO MAX – variable length



ACP-TURNADO MAX – variable length



ACP-TURNADO SUPERMAX



M64 – M100
(2 ½" – 4")

Metric thread /
metric thread in chosen length.

UNC inch thread /
UNC inch thread in chosen length.



TECHNICAL DATA: METRIC THREADS

ACP-TURNADO SUPERMAX – METRIC.

Type	WLL [t]	Weight [kg/unit]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP M64	32.5	17.2	123.5	45	45	103	95	80	108	188	75	204	M64	24	232	2,000	7912633
ACP M72	32.5	18.2	123.5	45	45	103	95	90	108	198	75	204	M72	24	232	2,000	7912634
ACP M80	32.5	19.3	123.5	45	45	103	95	100	108	208	75	204	M80	24	232	2,000	7912635
ACP M90	32.5	21.5	123.5	45	45	103	110	113	116	229	75	204	M90	24	240	2,000	7912636
ACP M100	32.5	23.8	123.5	45	45	103	110	125	116	241	75	204	M100	24	240	2,000	7912637

Subject to technical changes!

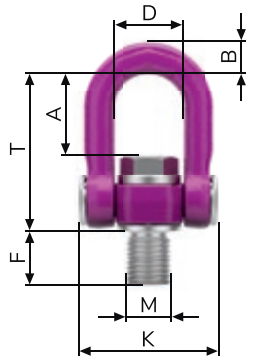
ACP-TURNADO SUPERMAX – METRIC IN CHOSEN LENGTH.

Type	WLL [t]	Weight (kg/unit)	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I [mm]	K [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP M64	32.5	[1]	123.5	45	45	103	95	64–300	108	172–408	75	204	M64	24	232	2,000	8600649
ACP M72	32.5	[1]	123.5	45	45	103	95	72–300	108	180–408	75	204	M72	24	232	2,000	8600649
ACP M80	32.5	[1]	123.5	45	45	103	95	80–300	108	188–408	75	204	M80	24	232	2,000	8600649
ACP M90	32.5	[1]	123.5	45	45	103	110	90–300	116	206–416	75	204	M90	24	240	2,000	8600649
ACP M100	32.5	[1]	123.5	45	45	103	110	100–300	116	216–416	75	204	M100	24	240	2,000	8600649

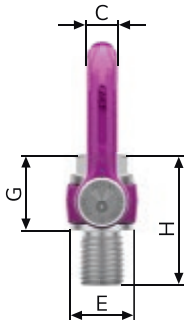
[1] Weight depends on the design.

Subject to technical changes!

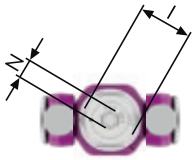
ACP-TURNADO SUPERMAX



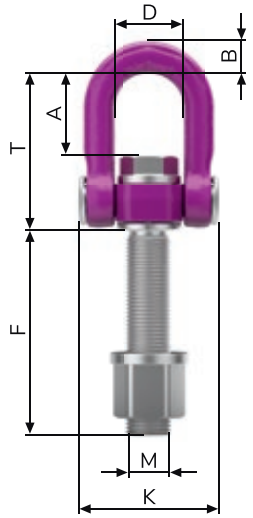
ACP-TURNADO SUPERMAX



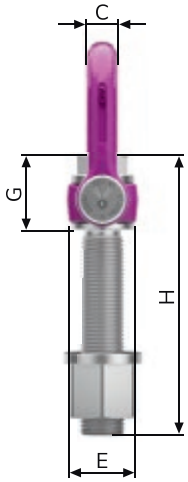
ACP-TURNADO SUPERMAX



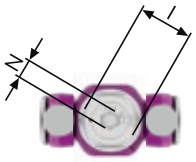
ACP-TURNADO SUPERMAX – variable length



ACP-TURNADO SUPERMAX – variable length



ACP-TURNADO SUPERMAX – variable length




100
RUD
ACP-TURNADO
SUPERMAX
M64
(2 1/2"-4

TECHNICAL DATA: UNC INCH THREAD

ACP-TURNADO SUPERMAX – UNC INCH THREAD.

Type	WLL [t]	Weight [kg/unit]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F [mm]	G [mm]	H [mm]	I [mm]	K [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP 2 1/2"	32.5	17.2	123.5	45	45	103	95	79	108	187	75	204	2 1/2"-4UNC	24	232	2,000	7912639
ACP 3"	32.5	18.7	123.5	45	45	103	95	95	108	203	75	204	3"-4UNC	24	232	2,000	7912640
ACP 3 1/2"	32.5	21.5	123.5	45	45	103	110	111	116	227	75	204	3 1/2"-4UNC	24	240	2,000	7912641
ACP 4"	32.5	24	123.5	45	45	103	120	127	116	243	75	204	4"-4UNC	24	240	2,000	8600649

Subject to technical changes!

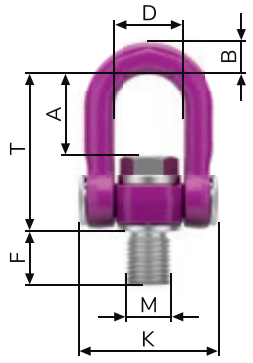
ACP-TURNADO SUPERMAX – UNC INCH THREAD IN CHOSEN LENGTH.

Type	WLL [t]	Weight [kg/unit]	A [mm]	B [mm]	C [mm]	D [mm]	E [mm]	F vario [mm]	G [mm]	H vario [mm]	I [mm]	K [mm]	M	N [mm]	T [mm]	Tightening torque [Nm]	Order no.
ACP 2 1/2"	32.5	[1]	123.5	45	45	103	95	63.5–300	108	171.5–408	75	204	2 1/2"-4UNC	24	232	2,000	8600649
ACP 3"	32.5	[1]	123.5	45	45	103	95	76–300	108	184–408	75	204	3"-4UNC	24	232	2,000	8600649
ACP 3 1/2"	32.5	[1]	123.5	45	45	103	110	89–300	116	205–416	75	204	3 1/2"-4UNC	24	240	2,000	8600649
ACP 4"	32.5	[1]	123.5	45	45	103	120	102–300	116	218–416	75	204	4"-4UNC	24	240	2,000	8600649

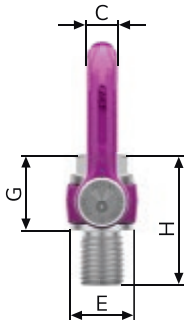
[1] Weight depends on the design.

Subject to technical changes!

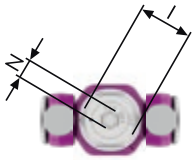
ACP-TURNADO SUPERMAX



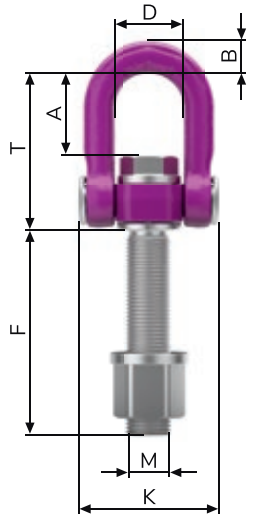
ACP-TURNADO SUPERMAX



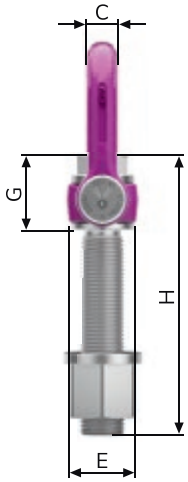
ACP-TURNADO SUPERMAX



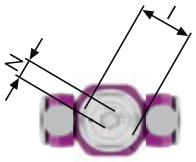
ACP-TURNADO SUPERMAX – variable length



ACP-TURNADO SUPERMAX – variable length



ACP-TURNADO SUPERMAX – variable length



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