

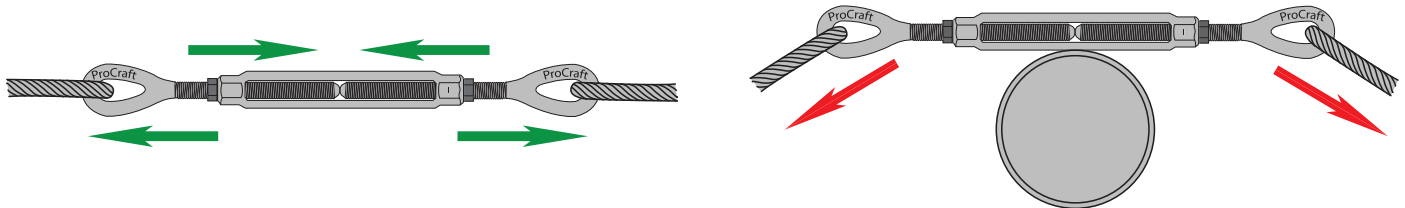
TURNBUCKLES are used to make adjustments on length for all type of rigging assemblies. They can be used for both lifting slings and as standing rigging for guy cables on towers and other engineered applications.

Description & Types

Turnbuckles sizes are designated by the thread diameter on the end fitting and the length measurement inside the body. For instance a 3/8" x 6" Jaw & Jaw, is 3/8" thread diameter on the jaw fitting and 6" measurement on the inside of the body or "take up". Turnbuckles can be supplied with several different end fittings including eyes, jaws, stub and hooks. Eye and Jaw end fittings are the most common, and hook or stub end fittings are less frequently used and have a rated capacity lower than Jaw and Eye fittings.

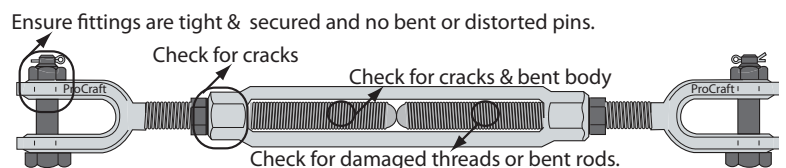
Instructions for Safe Use

1. Ensure the correct Turnbuckle is selected for its application or intended use. Check strength ratings match the wire rope or hardware that it is installed with.
2. Place turnbuckle in line with the rigging and adjust turnbuckle so that the "slack" is taken out of the line and tension is applied to the turnbuckle. (Turnbuckles are designed for loading in direct tension only).
3. Ensure that there is thread engagement at either end of at least 1.5 times the thread diameter.
4. When tightening a turnbuckle, do not apply more torque than you would to a bolt of equal size.
5. When turnbuckles are exposed to vibration, lock frames to end fittings. This will prevent turning and loosening of the end fittings. Use jam nuts or lock nuts, or secure end fittings with wire.
6. Lubricate threads and body for extra corrosion protection.
7. Ensure the threaded fittings in the turnbuckle are clear and free from any potential strike or wear damage from foreign objects.
8. Turnbuckles are designed for straight or in line tension only, do not use bent or twisted around objects.



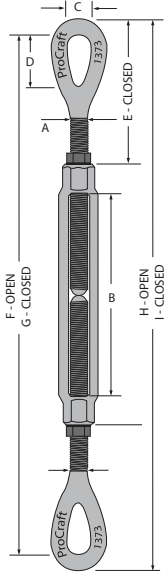
Inspection

1. Inspect turnbuckles before installing on any line. Also, regular periodic inspection of permanently installed turnbuckles is required.
2. Inspect end fittings for any cracks especially at the neck of the fitting. Check the end fitting for deformation or elongation, deformed or bent rods, and any signs of thread damage.
3. Check body for deformation or bends, and any signs of thread damage or cracks in the body.
4. Locknuts which are fitted are a method of locking the turnbuckle, but may not provide reliable locking under all circumstances. Locknuts should be inspected regularly for any "backing off".
5. Turnbuckles are not designed for continuous adjustment while under rated load conditions. If they are used in this way careful frequent inspections of the thread should be performed as wear on the threads is expected.



ProCraft Hot Dipped Galvanized Eye & Eye Turnbuckles

These turnbuckles are drop forged hot dipped galvanized which meets US Federal Spec FF-T-792B Type 1, Form 1 (open Body). They are stamped and marked with size, manufacturer and traceability code to meet with the ASME standards. ProCraft turnbuckles come complete with lock nuts installed on the threaded ends for safer installation practices.

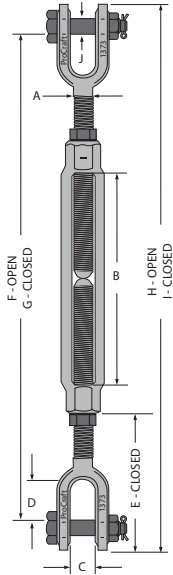


Stock Code	Size Inches A x B	Working Load Limit Pounds	Dimension Inches							Weight Per Piece Pound
			C	D	E	F	G	H	I	
84TRN-EE0804	1/4 x 4	500	0.34	0.78	1.8	13.4	9.4	12.9	8.9	0.40
84TRN-EE1004	5/16 x 4-1/2	800	0.44	0.94	2.1	14.8	10.3	14.2	9.7	0.54
84TRN-EE1206	3/8 x 6	1,200	0.52	1.12	2.6	17.5	11.5	18.2	12.2	0.83
84TRN-EE1606	1/2 x 6	2,200	0.72	1.44	3.2	18.7	12.7	20.2	14.2	1.60
84TRN-EE1609	1/2 x 9	2,200	0.72	1.44	3.2	24.7	15.7	26.2	17.2	1.83
84TRN-EE1612	1/2 x 12	2,200	0.72	1.44	3.2	30.7	18.7	32.2	20.2	2.26
84TRN-EE2006	5/8 x 6	3,500	0.88	1.75	3.9	20.9	14.9	24.6	16.6	2.75
84TRN-EE2009	5/8 x 9	3,500	0.88	1.75	3.9	26.9	17.9	25.6	19.6	3.13
84TRN-EE2012	5/8 x 12	3,500	0.88	1.75	3.9	32.9	20.9	34.6	22.6	3.50
84TRN-EE2406	3/4 x 6	5,200	1.00	2.09	4.8	22.2	16.2	23.7	17.7	3.89
84TRN-EE2409	3/4 x 9	5,200	1.00	2.09	4.8	28.2	19.2	29.7	20.7	4.61
84TRN-EE2412	3/4 x 12	5,200	1.00	2.09	4.8	34.2	22.2	35.7	23.7	5.43
84TRN-EE2418	3/4 x 18	5,200	1.00	2.09	4.8	46.2	28.2	47.7	29.7	6.33
84TRN-EE2812	7/8 x 12	7,200	1.25	2.38	5.1	35.7	23.7	36.8	24.8	8.10
84TRN-EE2818	7/8 x 18	7,200	1.25	2.38	5.1	47.7	29.7	48.8	30.8	9.95
84TRN-EE3206	1 x 6	10,000	1.44	3.00	6.7	25.6	19.6	27.8	21.8	9.33
84TRN-EE3212	1 x 12	10,000	1.44	3.00	6.7	37.6	25.6	39.8	27.8	11.93
84TRN-EE3218	1 x 18	10,000	1.44	3.00	6.7	49.6	31.6	51.8	33.8	14.00
84TRN-EE3224	1 x 24	10,000	1.44	3.00	6.7	61.6	37.6	63.8	39.8	17.25
84TRN-EE4012	1 1/4 x 12	15,200	1.81	3.56	8.0	39.9	27.9	43.1	31.1	19.81
84TRN-EE4018	1 1/4 x 18	15,200	1.81	3.56	8.0	51.9	33.9	55.1	37.1	24.91
84TRN-EE4024	1 1/4 x 24	15,200	1.81	3.56	8.0	63.9	39.9	67.1	43.1	25.81
84TRN-EE4824	1 1/2 x 24	21,400	2.12	4.06	8.6	65.9	41.9	69.0	45.0	39.60
84TRN-EE5624	1-3/4 x 24	28,000	2.38	4.62	11.0	70.1	46.1	74.1	50.1	60.01
84TRN-EE6424	2 x 24	37,000	2.69	5.57	14.1	73.7	49.7	79.2	55.2	94.50



ProCraft Hot Dipped Galvanized Eye & Eye Turnbuckles

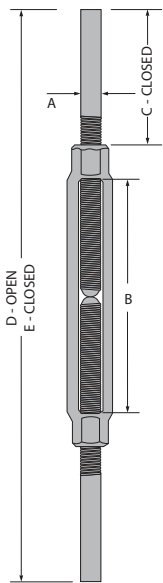
These turnbuckles are drop forged hot dipped galvanized which meets US Federal Spec FF-T-792B Type 1, Form 1 (open Body). They are stamped and marked with size, manufacturer and traceability code to meet with the ASME standards. ProCraft turnbuckles come complete with lock nuts installed on the threaded ends for safer installation practices.



Stock Code	Size Inches A x B	Working Load Limit Pounds	Dimension Inches								Weight Per Piece Pound
			C	D	E	F	G	H	I	J	
84TRN-JJ0804	1/4 x 4	500	0.41	0.63	1.58	10.9	6.9	11.9	7.9	0.25	0.40
84TRN-JJ1004	5/16 x 4-1/2	800	0.47	0.88	1.98	12.9	8.4	13.9	9.4	0.25	0.60
84TRN-JJ1206	3/8 x 6	1,200	0.50	0.88	2.12	16.7	10.7	17.9	11.9	0.31	1.21
84TRN-JJ1606	1/2 x 6	2,200	0.63	1.06	2.75	17.9	11.9	19.5	13.5	0.38	2.12
84TRN-JJ1609	1/2 x 9	2,200	0.63	1.06	2.75	23.9	14.9	25.5	16.5	0.38	2.60
84TRN-JJ1612	1/2 x 12	2,200	0.63	1.06	2.75	29.9	17.9	31.9	19.5	0.38	3.31
84TRN-JJ2006	5/8 x 6	3,500	0.75	1.31	3.50	19.6	13.6	22.0	16.0	0.50	3.86
84TRN-JJ2009	5/8 x 9	3,500	0.75	1.31	3.50	25.6	16.6	28.0	19.0	0.50	4.72
84TRN-JJ2012	5/8 x 12	3,500	0.75	1.31	3.50	31.6	19.6	34.0	22.0	0.50	5.36
84TRN-JJ2406	3/4 x 6	5,200	0.94	1.50	4.18	20.5	14.5	23.3	17.3	0.63	5.95
84TRN-JJ2409	3/4 x 9	5,200	0.94	1.50	4.18	26.5	17.5	29.3	20.3	0.63	7.12
84TRN-JJ2412	3/4 x 12	5,200	0.94	1.50	4.18	32.5	20.5	35.3	23.3	0.63	7.87
84TRN-JJ2418	3/4 x 18	5,200	0.94	1.50	4.18	44.5	26.5	47.3	29.3	0.63	10.03
84TRN-JJ2812	7/8 x 12	7,200	1.13	1.75	4.85	34.1	22.1	37.1	25.1	0.75	11.51
84TRN-JJ2818	7/8 x 18	7,200	1.13	1.75	4.85	46.1	28.1	49.1	31.1	0.75	14.46
84TRN-JJ3206	1 x 6	10,000	1.19	2.06	5.53	23.6	17.6	26.9	20.9	0.88	12.21
84TRN-JJ3212	1 x 12	10,000	1.19	2.06	5.53	25.6	23.6	38.9	26.9	0.88	15.34
84TRN-JJ3218	1 x 18	10,000	1.19	2.06	5.53	47.6	29.6	50.9	32.9	0.88	18.52
84TRN-JJ3224	1 x 24	10,000	1.19	2.06	5.53	59.6	35.6	62.9	38.9	0.88	19.62
84TRN-JJ4012	1-1/4 x 12	15,200	1.75	2.81	7.21	37.3	25.3	41.8	29.8	1.13	26.20
84TRN-JJ4018	1-1/4 x 18	15,200	1.75	2.81	7.21	49.3	31.3	53.8	35.8	1.13	30.00
84TRN-JJ4024	1-1/4 x 24	15,200	1.75	2.81	7.21	61.3	37.3	65.8	41.8	1.13	31.30
84TRN-JJ4824	1-1/2 x 24	21,400	2.06	2.81	8.93	62.6	38.6	67.7	43.7	1.38	48.50
84TRN-JJ5624	1-3/4 x 24	28,000	2.38	3.38	9.36	66.8	42.8	72.0	48.0	1.63	72.80
84TRN-JJ6424	2 x 24	37,000	2.50	3.75	11.9	69.4	45.4	76.7	52.7	2.00	110.00

ProCraft Self Colour Stub End Turnbuckles

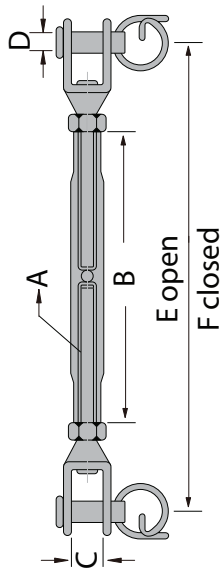
These turnbuckles are drop forged self colour finish which meets US Federal Spec FF-T-792B Type 1, Form 1 (open Body). They are stamped and marked with size, manufacturer and traceability code to meet with the ASME standards.



Stock Code	Size Inches A x B	Working Load Limit Pounds	Dimension Inches			Weight Per Piece Pound
			C	D	E	
84TRN-SE1206	3/8 x 6	1,200	4.44	22.00	16.0	0.75
84TRN-SE1606	1/2 x 6	2,200	4.25	22.00	16.0	1.25
84TRN-SE2006	5/8 x 6	3,500	4.07	22.00	16.0	2.00
84TRN-SE2406	3/4 x 6	5,200	4.38	23.00	17.0	3.25
84TRN-SE3206	1 x 6	10,000	5.00	25.00	19.0	6.80

ProCraft Stainless Steel 316 Jaw & Jaw Pipe Turnbuckles

These turnbuckles are formed and polished and are a 316 stainless steel finish. They come with UNC threads in a compact size.



Stock Code	Size Inches A x B	Working Load Limit Pounds	Dimension Inches				Weight Per Piece Pound
			C	D	E	F	
84TRN-JJ0603SS	3/16 x 2-5/16	350	0.25	0.19	7.40	5.19	0.10
84TRN-JJ0804SS	1/4 x 3-3/4	460	0.31	0.25	9.50	6.00	0.16
84TRN-JJ1004SS	5/16 x 4-3/16	900	0.38	0.31	11.40	7.31	0.30
84TRN-JJ1204SS	3/8 x 4-3/4	1,300	0.50	0.38	13.30	8.75	0.52