

## Working Load Limit:

It is the responsibility of the ultimate user to determine a Working Load Limit for each application. Many factors should be considered: including among, but not limited to, loads applied, speed of operation, acceleration or deceleration, length of wire rope, shock loads, abrasion, corrosion, number, size, condition and location of drums and sheaves, facilities for inspection, and the danger to life and property should wire rope break.

Wire Ropes must be stored, used, lubricated and maintained in accordance with normal safety standards; and must be properly designed, maintained, and operated. Inspect regularly. Do not kink, knot or crush.

### \*AVOID SHOCK LOADS



**Don't over-torque your clips and wire!**  
-Cranky Turnbuckle

**Q: How many wire rope clips do I need and how much torque is required?**

**A:** Following proper specs is crucial to safe and effective rigging! If done wrong, the results can be disastrous. To take the guess work out of it, refer to the helpful "Wire Rope Turnback Chart" shown on the right.

## Wire Rope Turnback Chart

Clip Size		Minimum # of Clips	Length of Rope to Turn Back		Required Torque	
in.	mm		in.	mm	ft.-lbs.	kg
1/8	3	2	3-1/4	83	N/A	N/A
5/32	5	2	3-3/4	95	N/A	N/A
3/16	5	2	3-3/4	95	N/A	N/A
1/4	6	2	4-3/4	120	8	4
5/16	8	2	5-1/4	133	15	7
3/8	10	2	6-1/2	165	30	14
7/16	11	2	7	178	45	20
1/2	13	3	11-1/2	292	45	20
9/16	14	3	12	305	95	43
5/8	16	3	12	305	95	43
3/4	20	4	18	457	130	59
7/8	22	4	19	483	225	102
1	25	5	26	660	225	102
1-1/8	28	6	34	864	225	102
1-1/4	32	7	44	1118	360	164
1-1/2	38	8	54	1372	360	164
1-3/4	45	8	61	1550	590	268
2	50	8	71	1803	750	341

**Note:** The amount of rope turnback should be increased in direct proportion to the increased number of clips, if more clips are used than specified in the above table.

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TEL 508-732-9191 • FAX 508-732-9798 • ORDERS ONLY 800-394-2222  
www.suncorstainless.com