



RATCHET TIE-DOWN ASSEMBLIES

HALO

Never Exceed Working Load Limit

Assembly	W.L.L. (lbs.)	Min. Breaking Strength (lbs.)	Wt. Ea.
1" x 12' with Vinyl Coated S-Hook	650	1,950	1.25
2" x 27' with Flat Hooks & Long/Wide Handle	3,335	10,000	6.00
2" x 27' with Double J Hooks & Long/Wide Handle	3,335	10,000	6.00
3" x 27' with Flat Hooks	5,000	15,000	13.00
4" x 27' with Flat Hooks	5,400	16,200	15.50



1" x 12' with Vinyl Coated S-Hooks



2" x 27' with Flat Hooks & Long/Wide Handle



2" x 27' with Double J Hooks & Long/Wide Handle



3" & 4" x 27' with Heavy Duty Ratchets

WEB STRAPS

Assembly	W.L.L. (lbs.)	Min. Breaking Strength (lbs.)	Wt. Ea.
3" x 27' with Flat Hooks	4,000	12,000	3.90
3" x 30' with Flat Hooks	4,000	12,000	4.20
4" x 27' with Flat Hooks	5,000	15,000	4.80
4" x 30' with Flat Hooks	5,000	15,000	5.20




Never Exceed Working Load Limit

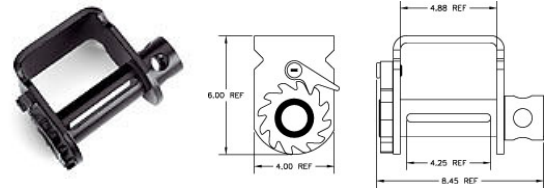
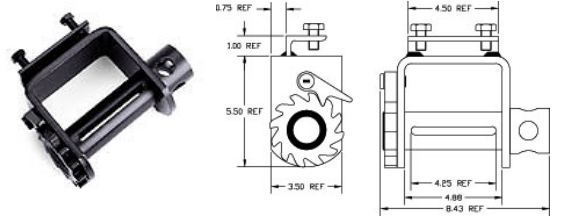
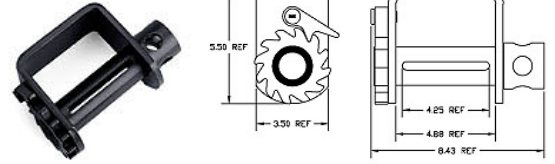


HALO

WEB STRAP WINCHES

Winch	Max. Web Size (in.)	Capacity (ft.)	W.L.L. (lbs.)	Min. Breaking Strength (lbs.)	Wt. Ea.
Weld-On	4.00	30	5,500	16,500	9.2
Portable Bolt-On	4.00	30	500	1,500	10.5
Sliding Type	4.00	20	500	1,500	10.3

 Never Exceed Working Load Limit

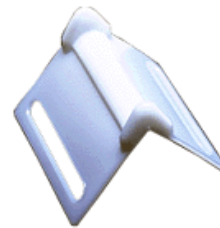


WINCH BARS



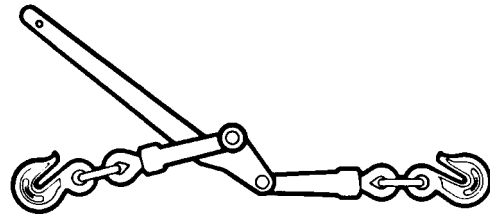
PLASTIC CORNER PROTECTORS

For 2" and combination 3" 3/4" web straps.



CM lever type load binder

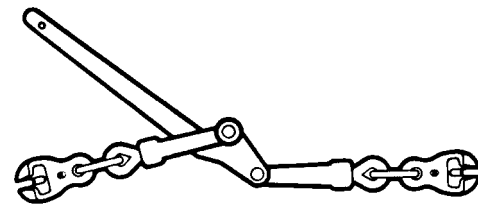
- Provides more control in binding and releasing without extra tools.
- Handle closes down away from load with more leverage.
- Functionally superior to any other on the road.
- Handles are drop forged from special bar quality steel.
- Hooks are heat treated steel.
- Single welded links as in binder chain for better reliability.
- More take-up for binding greater loads. Smaller handle slot with riveted nose to prevent spreading at the critical loading point.
- Meets D.O.T. and C.V.S.A. requirements.



Chain size (in.)	Chain grade	Working load limit (lbs.)*	Product code	UPC 43927-	Handle length (in.)	Take-up (in.)	Approx. weight each (lbs.)
1/4	G30, 43	2,600	M104	42642	11 1/4	3	2 1/2
1/4	G30, 43, 70	5,400	M105	42644	16	4 7/8	8 1/4
5/16	G30, 43, 70	5,400	M105	42644	16	4 7/8	8 1/4
3/8	G30, 43	5,400	M105	42644	16	4 7/8	8 1/4
5/16	G30, 43, 70	9,200	M106	42647	18 1/2	5 1/8	11 1/4
3/8	G30, 43, 70	9,200	M106	42647	18 1/2	5 1/8	11 1/4
7/16	G30, 43	9,200	M106	42647	18 1/2	5 1/8	11 1/4
1/2	G30, 43	9,200	M106	42647	18 1/2	5 1/8	11 1/4

CM claw hook load binder

- Same reliable design and construction as lever type load binder.
- Equipped with claw hooks for easy one-handed connection to loose or taut chain.
- Meets D.O.T. and C.V.S.A. requirements.



Chain size (in.)	Chain grade	Working load limit (lbs.)*	Product code	UPC 43927-	Handle length (in.)	Take-up (in.)	Approx. weight each (lbs.)
1/4	G30, 43, 70	5,400	M105C	42645	16	4 7/8	8 1/2
5/16	G30, 43, 70	5,400	M105C	42645	16	4 7/8	8 1/2
3/8	G30, 43	5,400	M105C	42645	16	4 7/8	8 1/2

Load binder operating instructions

1. Follow D.O.T. Federal Motor Carrier Safety Regulations S 392.9, S 393.100, and S 393.102.
2. Inspect before use. Replace worn and deformed binders. Lubricate pivot and swivel points for optimum performance.
3. Do not operate with anyone on load.
4. Always apply lever binder in a straight line hook to hook manner without bending and such that handle goes down when securing load.
5. Tighten binders before moving and recheck frequently.
6. Do not exceed working load limit shown on binder—hand effort will tighten binder to working load limit.
7. Do not use cheater bar or handle extension as their use can overload binder system and result in injury.
8. Secure handle down with a positive retaining method.
9. Release handle/load with extreme care. Make sure everyone is clear. Lever binder handle can snap back over center. Use open palm under handle and push up.

*⚠️ WARNING

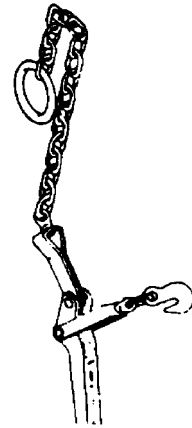
LOAD BINDING SYSTEMS STORE ENERGY WHICH CAN RELEASE SUDDENLY.

To avoid injury, operate only by hand from a firm standing position. Operate handle cautiously. Stay clear of handle path: handle may release suddenly. Follow instructions.

Poultry lever load binder

- 48355 has 1/4" binder with 18" G43 chain & ring
- 48356 has 1/4" binder with 18" G43 chain and 5/16" G43 Grab Hook

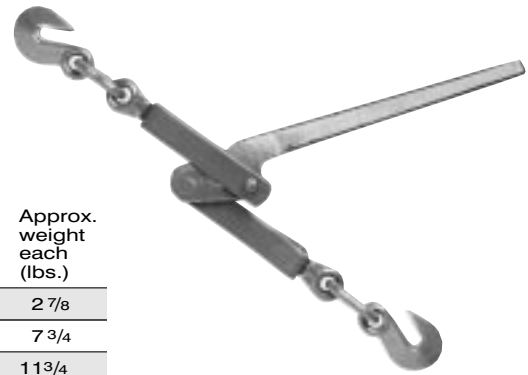
Chain size (in.)	Chain grade	Working load limit (lbs.)*	Product code	UPC 81767-	Take-up (in.)	Handle length (in.)	Approx. weight each (lbs.)
1/4	G30, 43	2,600	48355	48355	2 3/4	11 1/4	4.7
1/4	G30, 43	2,600	48356	48356	2 3/4	11 1/4	4.7



CM malleable lever load binder

- Free turning 360° swivels on both hooks for easier handling and better utility.
- Front tongue for greater take-up.
- Special handle angle prevents finger trap.
- Drop forged, short reach hooks for maximum take-up.
- Meets D.O.T. and C.V.S.A. specifications.

G30 max. size (in.)	Working load limit (lbs.)*	Product code	UPC 43927-	Take-up (in.)	Handle length (in.)	Approx. weight each (lbs.)
1/4	2,600	D48314	24252	2 3/4	11 1/4	2 7/8
3/8	5,400	D48315	23029	4 1/2	16	7 3/4
1/2	6,000	D48316	24253	4 1/2	19	11 3/4



Ratchet type load binder

- Heavy duty, rigid, all steel construction.
- Short reach hooks for maximum take-up.
- Infinite adjustment.
- Continuous take-up.
- Meets D.O.T. and C.V.S.A. specifications.

Max. size (in.)		Working load limit (lbs.)*	Product code	UPC 43927-	Take-up (in.)	Approx. weight each (lbs.)
—		13,000	D48363**	30002	8	11
5/16 3/8	G70 G43	5,400	D48365	30003	8	12 1/4
3/8 1/2	G70 G43	9,200	D48366	31205	8	12 1/4
5/16 3/8	G70 G43	5,400	D48810	21059	6	7 3/4
3/8 5/16	G80, G43 G70	7,100	D48360	81767- 48360	8	13
1/2 5/8	G70 G43	13,000	D48367	30008	8	14

**Supplied without hooks.



CM tightener load binder

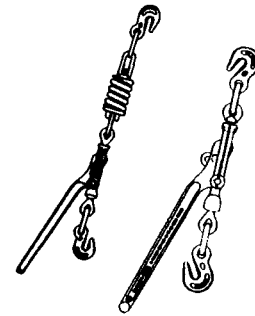
- Features swivel hook for easier operation.
- Either hook may be permanently attached to chain.
- Rugged cast construction with formed hooks.

Working load limit (lbs.)*	Product code	UPC 43927-	Take-up (in.)	Handle length (in.)	Approx. weight each (lbs.)
375	D48949	31206	3	9 1/2	2



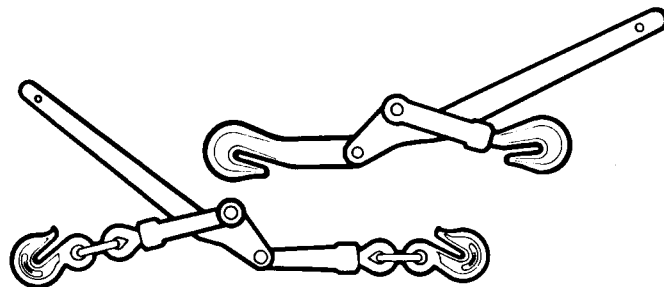
Specialty forged lever load binder

Chain size (in.)	Chain grade	Working load limit (lbs.)*	Product code	UPC 81767-	Take-up (in.)	Handle length (in.)	Approx. weight each (lbs.)
3/8	G30, 43	5,400	48395	48395	4 1/2	16.62	14.6
5/16	G70	5,400	48395	48395	4 1/2	16.62	14.6



CM drop forged load binder

- All steel.
- Drop forged.
- Both hooks swivel 360°.
- Each binder individually proof tested.
- Tie-down hole in handle.
- Short reach hooks for maximum take-up.
- Heavy, rigid construction.
- Special manufacturing permits use with transport grade 70 chain.
- Meets D.O.T. and C.V.S.A. specifications.

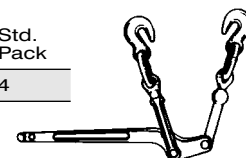


Working load limit (lbs.)*	Product code	UPC 43927-	Chain grade & size (in.)			Handle length (in.)	Take-up (in.)	Approx. weight each (lbs.)
			G30	G43	G70			
2,600	320104	32146	1/4	1/4	—	11 1/4	3	2 1/2
5,400	320105	24251	3/8	3/8	5/16	16 1/8	4 1/4	8
9,200	D48306	21424	1/2	1/2	3/8	16 5/8	4 1/2	10

CM E-Z Pro cam release lever binder

- Provides recoilless CAM release design.
- Entirely hand releasable.
- Individually proof tested.
- Use with grade 43 and grade 70 chain.

Chain grade & size (in.)		Working load limit (lbs.)*	Product code	UPC 43927-	Take-up (in.)	Approx. weight each (lbs.)	Std. Pack
G43	G70						
3/8	5/16	5,400	D48405	23028	4 1/2	11	4






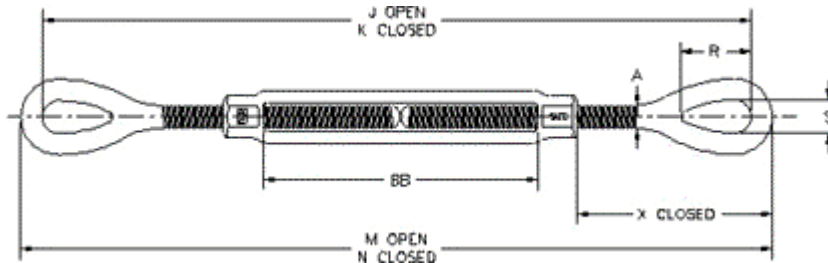
HALO

EYE x EYE TURNBUCKLES - GALVANIZED



Thread Diameter & Take Up (in.)	Working Load Limit * (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4 x 4	500	0.3	0.25	11.8	7.8	12.25	8.25	0.78	0.34	1.75	4
5/16 x 4-1/2	800	0.5	0.31	13.56	9.06	14.12	9.62	0.94	0.44	2.09	4.5
3/8 x 6	1200	0.75	0.38	17.47	11.47	18.16	12.16	1.12	0.53	2.52	6
1/2 x 6	2200	1.5	0.5	20.08	13.08	20.96	13.96	1.44	0.72	3.23	6
1/2 x 12	2200	2.18	0.5	32.08	19.08	32.96	19.96	1.44	0.72	3.23	12
5/8 x 6	3500	2.63	0.63	21.93	14.68	22.93	15.68	1.75	0.88	3.9	6
5/8 x 12	3500	3.25	0.63	33.93	20.68	34.93	21.68	1.75	0.88	3.9	12
3/4 x 6	5200	3.75	0.75	23.88	16.38	25.12	17.62	2.09	1	4.69	6
3/4 x 12	5200	5.75	0.75	35.88	22.38	37.12	23.62	2.09	1	4.69	12
3/4 x 18	5200	7	0.75	47.88	28.38	49.12	29.62	2.09	1	4.69	18
7/8 x 12	7200	8.38	0.88	37.07	23.32	38.57	24.82	2.38	1.25	5.1	12
7/8 x 18	7200	10.25	0.88	49.07	29.32	50.57	30.82	2.38	1.25	5.1	18
1 x 6	10000	10.75	1	27.97	19.97	29.72	21.72	3	1.44	6.36	6
1 x 12	10000	11.25	1	39.97	25.97	41.97	27.72	3	1.44	6.36	12
1 x 18	10000	14	1	51.97	31.97	53.72	33.72	3	1.44	6.36	18
1 x 24	10000	17	1	63.97	37.97	65.72	39.72	3	1.44	6.36	24
1-1/4 x 12	15200	19	1.25	42.81	28.31	45.06	30.56	3.56	1.81	7.72	12
1-1/4 x 18	15200	24.1	1.25	54.81	34.31	57.06	36.56	3.56	1.81	7.72	18
1-1/4 x 24	15200	25	1.25	66.81	40.31	69.06	42.56	3.56	1.81	7.72	24
1-1/2 x 12	21400	27	1.5	45.5	30.5	48	33	4.06	2.12	8.62	12
1-1/2 x 18	21400	31.2	1.5	57.5	36.5	60	39	4.06	2.12	8.62	18
1-1/2 x 24	21400	38.2	1.5	69.5	42.5	72	45	4.06	2.12	8.62	24
1-3/4 x 18	28000	53	1.75	57.38	39.38	60.38	42.38	4.62	2.38	10	18
1-3/4 x 24	28000	58	1.75	69.38	45.38	72.38	48.38	4.62	2.38	10	24
2 x 24	37000	90	2	75.69	51.69	79.19	55.19	5.75	2.69	13.09	24
2-1/2 x 24	60000	163	2.5	78.62	54.62	82.62	58.62	6.5	3.12	13.78	24
2-3/4 x 24	75000	180	2.75	81	57	85.5	61.5	7	3.25	15.22	24

 Never Exceed Working Load Limit





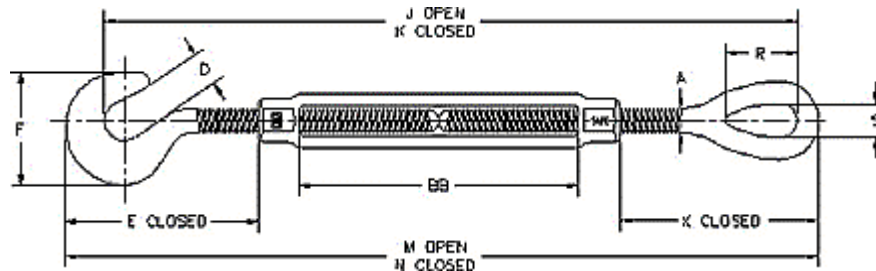
HALO

HOOK x EYE TURNBUCKLES - GALVANIZED



Thread Diameter & Take Up (in.)	Working Load Limit * (lbs.)	Weight Each (lbs.)	Dimensions (in.)												
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB	
1/4 x 4	400	0.3	0.25	0.45	1.59	1.27	11.46	7.46	12.09	8.09	0.78	0.34	1.75	4	
5/16 x 4-1/2	700	0.5	0.31	0.5	1.94	1.5	13.19	8.69	13.47	9.47	0.94	0.44	2.09	4.5	
3/8 x 6	1000	0.75	0.38	0.56	2.3	1.77	16.98	10.98	17.94	11.94	1.12	0.53	2.52	6	
1/2 x 6	1500	1.5	0.5	0.66	2.94	2.28	19.45	12.45	20.67	13.67	1.44	0.72	3.23	6	
1/2 x 12	1500	2.18	0.5	0.66	2.94	2.28	31.45	18.45	32.67	19.67	1.44	0.72	3.23	12	
5/8 x 6	2250	2.63	0.63	0.9	3.69	2.81	21.96	13.96	22.72	15.47	1.75	0.88	3.9	6	
5/8 x 12	2250	3.25	0.63	0.9	3.69	2.81	33.21	19.96	34.72	21.47	1.75	0.88	3.9	12	
3/4 x 6	3000	3.75	0.75	0.98	4.52	3.33	23.13	15.63	24.95	17.45	2.09	1	4.69	6	
3/4 x 12	3000	5.75	0.75	0.98	4.52	3.33	35.13	21.63	36.95	23.45	2.09	1	4.69	12	
3/4 x 18	3000	7	0.75	0.98	4.52	3.33	47.13	27.63	48.95	29.45	2.09	1	4.69	18	
7/8 x 12	4000	8.38	0.88	1.13	5.19	3.78	36.53	22.78	38.66	24.91	2.38	1.25	5.1	12	
1 x 12	5000	11.25	1	1.25	5.84	4.25	38.8	24.8	41.2	27.2	3	1.44	6.36	12	
1 x 18	5000	14	1	1.25	5.84	4.25	50.8	30.8	53.2	33.2	3	1.44	6.36	18	
1 x 24	5000	17	1	1.25	5.84	4.25	62.8	36.8	65.2	39.2	3	1.44	6.36	24	
1-1/4 x 12	6500	19	1.25	1.5	7.22	5.13	41.63	27.13	44.56	30.06	3.56	1.81	7.72	12	
1-1/4 x 18	6500	24.1	1.25	1.5	7.22	5.13	53.63	33.13	56.56	36.06	3.56	1.81	7.72	18	
1-1/4 x 24	6500	25	1.25	1.5	7.22	5.13	65.63	39.13	68.56	42.06	3.56	1.81	7.72	24	
1-1/2 x 12	7500	27	1.5	1.88	8.34	5.75	44.72	29.72	47.72	32.72	4.06	2.12	8.62	12	
1-1/2 x 18	7500	31.2	1.5	1.88	8.34	5.75	56.72	35.72	59.72	38.72	4.06	2.12	8.62	18	
1-1/2 x 24	7500	38.2	1.5	1.88	8.34	5.75	68.72	41.72	71.72	44.72	4.06	2.12	8.62	24	

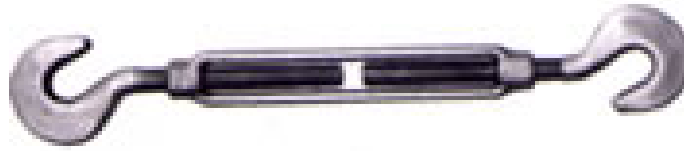
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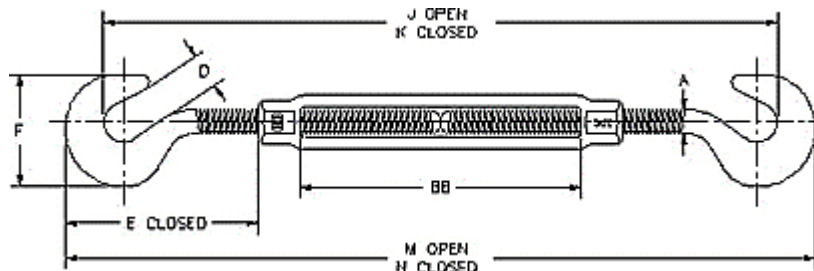
HALO

HOOK x HOOK TURNBUCKLES - GALVANIZED



Thread Diameter & Take Up (in.)	Working Load Limit * (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	D	E Closed	F	J Open	K Closed	M Open	N Closed	BB
1/4 x 4	400	0.3	0.25	0.45	1.59	1.27	11.12	7.12	11.94	7.94	4
5/16 x 4-1/2	700	0.5	0.31	0.5	1.94	1.5	12.81	8.31	13.81	9.31	4.5
3/8 x 6	1000	0.75	0.38	0.56	2.3	1.77	16.5	10.5	17.72	11.72	6
1/2 x 6	1500	1.5	0.5	0.66	2.94	2.28	18.82	11.82	20.38	13.38	6
1/2 x 12	1500	2.18	0.5	0.66	2.94	2.28	30.82	17.82	32.38	19.38	12
5/8 x 6	2250	2.63	0.63	0.9	3.69	2.81	20.5	13.25	22.5	15.25	6
5/8 x 12	2250	3.25	0.63	0.9	3.69	2.81	32.5	19.25	34.5	21.25	12
3/4 x 6	3000	3.75	0.75	0.98	4.52	3.33	22.38	14.88	24.78	17.28	6
3/4 x 12	3000	5.75	0.75	0.98	4.52	3.33	34.38	20.88	36.78	23.28	12
3/4 x 18	3000	7	0.75	0.98	4.52	3.33	46.38	26.88	48.78	29.28	18
7/8 x 12	4000	8.38	0.88	1.13	5.19	3.78	36	22.25	38.75	25	12
1 x 12	5000	11.25	1	1.25	5.84	4.25	37.63	23.63	40.69	26.69	12
1 x 18	5000	14	1	1.25	5.84	4.25	49.63	29.63	52.69	32.69	18
1 x 24	5000	17	1	1.25	5.84	4.25	61.63	35.63	64.69	38.69	24
1-1/4 x 12	6500	19	1.25	1.5	7.22	5.13	40.44	25.94	44.06	29.56	12
1-1/4 x 18	6500	24.1	1.25	1.5	7.22	5.13	52.44	31.94	56.06	35.56	18
1-1/4 x 24	6500	25	1.25	1.5	7.22	5.13	64.44	37.94	68.06	41.56	24
1-1/2 x 12	7500	27	1.5	1.88	8.34	5.75	43.94	28.94	47.44	32.44	12
1-1/2 x 18	7500	31.2	1.5	1.88	8.34	5.75	55.96	34.94	59.44	38.44	18
1-1/2 x 24	7500	38.2	1.5	1.88	8.34	5.75	67.94	40.94	71.44	44.44	24

Never Exceed Working Load Limit






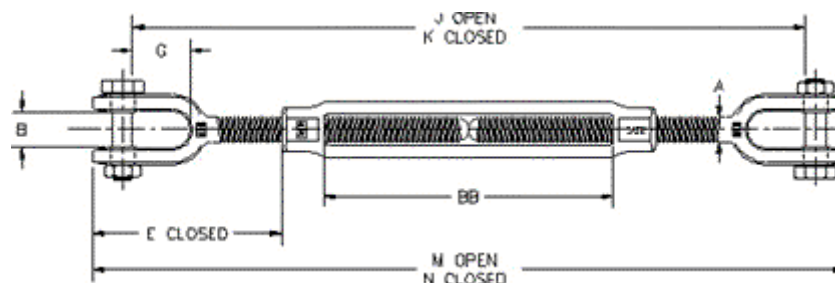
HALO

JAW x JAW TURNBUCKLES - GALVANIZED



Thread Diameter & Take Up (in.)	Working Load Limit (lbs.)	Weight Each (lbs.)	Dimensions (in.)								
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	BB
1/4 x 4	500	0.4	0.25	0.45	1.58	0.62	10.9	6.9	11.9	7.9	4
5/16 x 4-1/2	800	0.58	0.31	0.5	1.98	0.87	12.36	8.36	13.9	9.4	4.5
3/8 x 6	1200	0.93	0.38	0.54	2.12	0.87	16.14	10.14	17.38	11.38	6
1/2 x 6	2200	1.68	0.5	0.55	2.75	1.06	18.5	11.5	20	13	6
1/2 x 9	2200	1.85	0.5	0.55	2.75	1.06	24.5	14.5	26	16	9
1/2 x 12	2200	2.2	0.5	0.55	2.75	1.06	30.5	17.5	32	19	12
5/8 x 6	3500	2.82	0.63	0.82	3.5	1.31	20.05	12.8	22.13	14.88	6
5/8 x 9	3500	3.25	0.63	0.82	3.5	1.31	26.05	15.8	28.13	17.88	9
5/8 x 12	3500	3.75	0.63	0.82	3.5	1.31	32.05	18.8	34.13	20.88	12
3/4 x 6	5200	4.68	0.75	1.03	4.18	1.5	21.5	14	24.1	16.6	6
3/4 x 9	5200	5.38	0.75	1.03	4.18	1.5	27.5	17	30.1	19.6	9
3/4 x 12	5200	6.12	0.75	1.03	4.18	1.5	33.5	20	36.1	22.6	12
3/4 x 18	5200	7.75	0.75	1.03	4.18	1.5	45.5	26	48.1	28.6	18
7/8 x 12	7200	9.38	0.88	1.23	4.85	1.75	35.11	21.36	38.07	24.32	12
7/8 x 18	7200	11.44	0.88	1.23	4.85	1.75	47.11	27.36	50.07	30.32	18
1 x 6	10000	11.8	1	1.31	5.53	2.06	24.72	16.72	28.06	20.06	6
1 x 12	10000	12.88	1	1.31	5.53	2.06	36.72	22.72	40.06	26.06	12
1 x 18	10000	16.1	1	1.31	5.53	2.06	48.72	28.72	52.06	32.06	18
1 x 24	10000	18.6	1	1.31	5.53	2.06	60.72	34.72	64.06	38.06	24
1-1/4 x 12	15200	23.6	1.25	1.86	7.21	2.81	39.84	25.34	44.04	29.54	12
1-1/4 x 18	15200	26.6	1.25	1.86	7.21	2.81	51.84	31.34	56.04	35.54	18
1-1/4 x 24	15200	31.2	1.25	1.86	7.21	2.81	63.84	37.34	68.04	41.54	24
1-1/2 x 12	21400	35.5	1.5	2.25	7.88	2.81	41.5	26.5	46.5	31.5	12
1-1/2 x 18	21400	40.7	1.5	2.25	7.88	2.81	53.5	32.5	58.5	37.5	18
1-1/2 x 24	21400	47.6	1.5	2.25	7.88	2.81	65.5	38.5	70.5	43.5	24
1-3/4 x 18	28000	62	1.75	2.6	9.4	3.38	53.38	35.38	59.18	41.18	18
1-3/4 x 24	28000	64	1.75	2.6	9.4	3.38	65.38	41.38	71.18	47.18	24
2 x 24	37000	115	2	2.62	11.86	3.69	69.54	45.54	76.72	52.72	24
2-1/2 x 24	60000	200	2.5	3.06	13.56	4.44	72.98	48.98	82.18	58.18	24
2-3/4 x 24	75000	248	2.75	3.68	15.22	4.19	74.75	50.75	85.5	61.5	24

 Never Exceed Working Load Limit





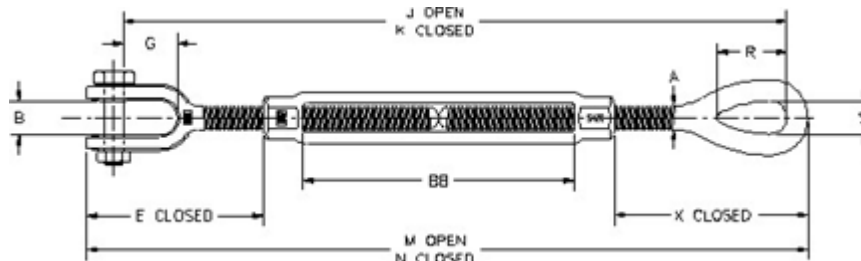
HALO

JAW x EYE TURNBUCKLES - GALVANIZED



Thread Diameter & Take Up (in.)	Working Load Limit* (lbs.)	Weight Each (lbs.)	Dimen- (in.)											
			A	B	E Closed	G	J Open	K Closed	M Open	N Closed	R	S	X Closed	BB
1/4 x 4	500	0.3	0.25	0.45	1.58	0.62	11.35	7.35	12.07	8.07	0.78	0.34	1.75	4
5/16 x 4-1/2	800	0.53	0.31	0.5	1.98	0.87	13.71	8.71	14.01	9.51	0.94	0.44	2.09	4.5
3/8 x 6	1200	0.82	0.38	0.54	2.12	0.87	16.81	10.81	17.77	11.77	1.12	0.53	2.52	6
1/2 x 6	2200	1.62	0.5	0.55	2.75	1.06	19.29	12.29	20.48	13.48	1.44	0.72	3.23	6
1/2 x 9	2200	1.82	0.5	0.55	2.75	1.06	25.29	15.29	26.48	16.48	1.44	0.72	3.23	9
1/2 x 12	2200	2.19	0.5	0.55	2.75	1.06	31.29	18.29	32.48	19.48	1.44	0.72	3.23	12
5/8 x 6	3500	2.69	0.63	0.82	3.5	1.31	20.99	13.74	22.53	15.28	1.75	0.88	3.9	6
5/8 x 9	3500	3.01	0.63	0.82	3.5	1.31	26.99	16.74	28.53	18.28	1.75	0.88	3.9	9
5/8 x 12	3500	3.5	0.63	0.82	3.5	1.31	32.99	19.74	34.53	21.28	1.75	0.88	3.9	12
3/4 x 6	5200	4.25	0.75	1.03	4.18	1.5	22.69	15.19	24.61	17.11	2.09	1	4.69	6
3/4 x 9	5200	5	0.75	1.03	4.18	1.5	28.69	18.19	30.61	20.11	2.09	1	4.69	9
3/4 x 12	5200	5.75	0.75	1.03	4.18	1.5	34.69	21.19	36.61	23.11	2.09	1	4.69	12
3/4 x 18	5200	7.25	0.75	1.03	4.18	1.5	46.69	27.19	48.61	29.11	2.09	1	4.69	18
7/8 x 12	7200	8.88	0.88	1.23	4.85	1.75	36.09	22.34	38.32	24.57	2.38	1.25	5.1	12
7/8 x 18	7200	10.6	0.88	1.23	4.85	1.75	48.09	28.34	50.32	30.57	2.38	1.25	5.1	18
1 x 6	10000	11.1	1	1.31	5.53	2.06	26.34	18.34	28.89	20.89	3	1.44	6.36	6
1 x 12	10000	12	1	1.31	5.53	2.06	38.34	24.34	40.89	26.89	3	1.44	6.36	12
1 x 18	10000	14.75	1	1.31	5.53	2.06	50.34	30.34	52.89	32.89	3	1.44	6.36	18
1 x 24	10000	17.75	1	1.31	5.53	2.06	62.34	36.34	64.89	38.89	3	1.44	6.36	24
1-1/4 x 12	15200	21.2	1.25	1.86	7.21	2.81	41.32	26.82	44.55	30.05	3.56	1.81	7.72	12
1-1/4 x 18	15200	26	1.25	1.86	7.21	2.81	53.32	32.82	56.05	36.05	3.56	1.81	7.72	18
1-1/4 x 24	15200	28.7	1.25	1.86	7.21	2.81	65.32	38.82	68.55	42.05	3.56	1.81	7.72	24
1-1/2 x 12	21400	31.1	1.5	2.25	7.88	2.81	43.5	28.5	47.25	32.25	4.06	2.12	8.62	12
1-1/2 x 18	21400	36.4	1.5	2.25	7.88	2.81	55.5	34.5	59.25	38.25	4.06	2.12	8.62	18
1-1/2 x 24	21400	44.2	1.5	2.25	7.88	2.81	67.5	40.5	71.25	44.25	4.06	2.12	8.62	24
1-3/4 x 18	28000	57.5	1.75	2.6	9.4	3.38	55.38	37.38	59.78	41.78	4.62	2.38	10	18
1-3/4 x 24	28000	60	1.75	2.6	9.4	3.38	67.38	43.38	71.78	47.78	4.62	2.38	10	24
2 x 24	37000	102	2	2.62	11.86	3.69	72.62	48.62	77.95	53.95	5.75	2.69	13.09	24
2-1/2 x 24	60000	180	2.5	3.06	13.56	4.44	75.8	51.8	82.4	58.4	6.5	3.12	13.78	24
2-3/4 x 24	75000	214	2.75	3.68	15.22	4.19	77.88	53.88	85.5	61.5	7	3.25	15.22	24

Never Exceed Working Load Limit



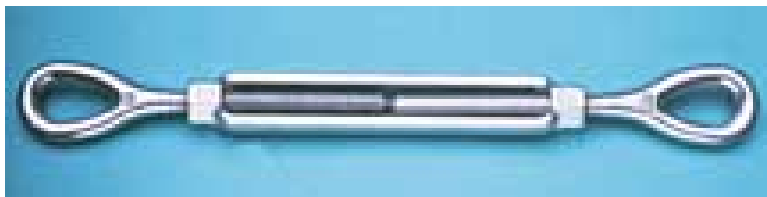



EYE x EYE TURNBUCKLES - TYPE 316 STAINLESS

Drop Forged. Meets ASTM Spec. F1145-92, Type 1, Class H

HALO

Size (A)	B	C	L	W.L.L. (lbs.)	Wt. Ea. (lbs.)
1/4"	4"	.33"	8"	500	0.3
5/16"	4.5"	.41"	9.25"	800	0.5
3/8"	6"	.50"	10-5/8"	1200	0.85
1/2"	6"	.75"	12"	2200	1.3

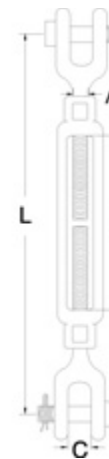



 Never Exceed Working Load Limit

JAW x JAW TURNBUCKLES - TYPE 316 STAINLESS

Drop Forged. Meets ASTM Spec. F1145-92, Type 1, Class G

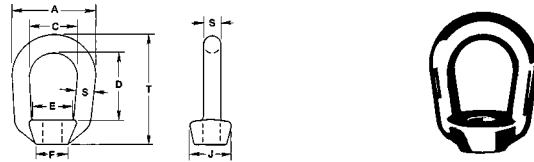
Size (A)	B	C	L	W.L.L. (lbs.)	Wt. Ea. (lbs.)
1/4"	4"	.44"	7.75"	500	0.45
5/16"	4.5"	.50"	9"	800	0.65
3/8"	6"	.56"	10-5/8"	1200	0.9
1/2"	6"	.64"	12"	2200	1.6



 Never Exceed Working Load Limit

CM tapped eyenuts

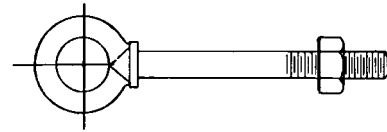
- Forged
- Heat treated
- Hot galvanized per ASTM A153



Size no.	Dia. (in.)	Working load limit (lbs.)*	Product code	UPC 43927-	Std. tap size (in.)	Dimensions (inches)								Approx. weight each (lbs.)
						A	C	D	E	F	J	S	T	
3A	3/8	2,250	M2602	45987	1/2	2.00	1.250	1.562	1.000	.88	1.063	.375	2.62	.30
4	1/2	3,600	M2603	45988	5/8	2.50	1.500	2.063	1.160	.94	1.312	.500	3.31	.58
5	5/8	5,200	M2604	45989	3/4	3.00	1.750	2.437	1.375	1.19	1.500	.625	4.00	.97
6	3/4	7,200	M2607	45990	7/8	3.50	2.000	2.687	1.625	1.31	1.875	.750	4.50	1.76
8	1	15,500	M2609	45991	1 1/4	4.75	2.750	3.531	2.000	1.50	2.062	1.000	5.88	3.81
9	1 1/8	18,500	M2611	46271	1 3/8	5.50	3.250	4.062	2.531	2.06	3.000	1.125	6.73	5.00

CM shoulder eyebolt—specials

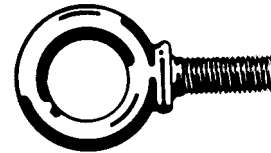
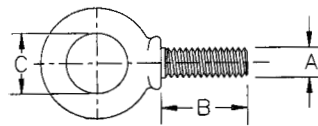
- Drop forged.
 - Quenched and tempered.
 - Self colored finish.
 - With or without thread.
 - Available upon request:
 - Other shank lengths less than those specified below.
 - Other finishes, i.e., galvanized, zinc plated, painted.
 - Other materials
 - Alloy
 - Stainless
 - Untreated carbon steel (working load limits do not apply).
 - Price on application.
- In your inquiry, please specify quantity, finish and any other special requirements.



Working load limit (lbs.) full length*	Product code	Dimensions (inches)				Approx. weight each (lbs.)	
		Shank dia. & length	I.D.	O.D.	Length threads	Plain	Nut type
1,200	1048EB	3/8 x 2 1/2	3/4	1 3/8	1 1/2	.16	.20
1,200	1848EB	3/8 x 4 1/2	3/4	1 3/8	2 1/2	.24	.32
2,200	1350EB	1/2 x 3 1/4	1	1 3/4	1 1/2	.33	.38
2,200	2450EB	1/2 x 6	1	1 3/4	3	.51	.59
3,500	1651EB	5/8 x 4	1 1/4	2 1/4	2	.75	.78
3,500	2451EB	5/8 x 6	1 1/4	2 1/4	3	.89	1.00

CM shoulder eyebolt

- Forged steel
- Heat treated
- Quenched & tempered
- Meets IFI standards, ASTM A489, ANSI/ASME, B18.15



Size dia. (in.)	Working load limit* (lbs.)	Product code	UPC 43927-	Dimensions (inches)				Thread UNC-2A	Approx. weight each (lbs.)
				A	B	C			
1/4 x 1	500	456920	20865	1/4	1	3/4	1/4 - 20	.06	
5/16 x 1 1/8	900	456921	20866	5/16	1 1/8	7/8	5/16 - 18	.11	
3/8 x 1 1/4	1,300	456922	20867	3/8	1 1/4	1	3/8 - 16	.18	
1/2 x 1 1/2	2,400	456923	20868	1/2	1 1/2	1 3/16	1/2 - 13	.35	
5/8 x 1 3/4	4,000	456924	20869	5/8	1 3/4	1 3/8	5/8 - 11	.70	
3/4 x 2	5,000	456925	20870	3/4	2	1 1/2	3/4 - 10	1.10	
7/8 x 2 1/4	7,000	456926	20871	7/8	2 1/4	1 11/16	7/8 - 9	1.70	
1 x 2 1/2	9,000	456927	20872	1	2 1/2	1 13/16	1 - 8	2.36	
1 1/4 x 3	15,000	456928	20873	1 1/4	3	2 3/16	1 1/4 - 7	4.68	
1 1/2 x 3 1/2	21,000	456929	20874	1 1/2	3 1/2	2 9/16	1 1/2 - 6	7.77	

NOTE: Do not exceed the working load limit – reduce the working load limit according to the adjacent table if loading other than true vertical. Inspect eyebolts before use. Do not use if bent more than 15° or if wear of more than 10% of original dimension is evident. Install with shoulder at 90° to axis of hole to assure total contact of shoulder. Torque nut/eyebolt to assure proper seating. Check seating after initial loading.

If installing in tapped hole, make sure depth of thread engagement is at least 1 1/2 times bolt diameter. Thread fit must also be good-tight, not loose-sloppy.

Where eyebolts must be aligned, a washer or shim may be placed under the shoulder to permit alignment when tightened.

To minimize the bending moment, always apply load in the direction of the plane of the eye. Reduce working load limit according to table if loaded other than true vertical.

Never insert a hook tip in an eyebolt; always use a shackle to connect eyebolt to load. Do not use a sling reeved through an eyebolt or a pair of eyebolts. Attach each single sling leg to an eyebolt using a shackle.

Shoulder eyebolt working load limit

Angle of loading

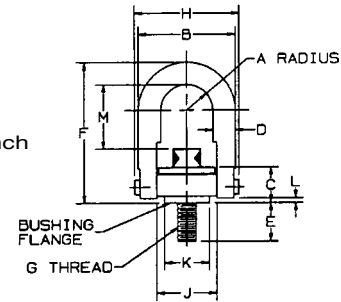
	True vertical	75°	65°	45°	less than 45°
Full working load limit (refer to full catalog page)	55% of full working load limit	35% of full working load limit	25% of full working load limit	Do not use	

If in doubt, consult a rigging handbook or discuss with a qualified person.

CM specialty engineered hoist rings

- Bale and shoulder pins machined from alloy steel
- Patented design provides shoulder pin retention with specialized clip
- Easy disassembly for periodic non-destructive inspection
- Capacity range from 800-100,000 lbs.
- Specials available in stainless steel and metric sizes

Standard tolerance $\pm .030$ inch unless otherwise specified



Product Code	Rated Load (lbs.)	A	B	C	D	E $\pm .060$	F $\pm .060$	G	H $\pm .060$	J	K	L	M	RTL* (ft./lbs.)	Weight (lbs.)
423051	800	.43	1.61	.71	3/8	.29	2.67	5/16-18	1.84	1.00	.75	.17	1.27	7	.31
423052	800	.43	1.61	.71	3/8	.54	2.67	5/16-18	1.84	1.00	.75	.17	1.27	7	.31
423053	1,000	.43	1.61	.71	3/8	.54	2.67	3/8-16	1.84	1.00	.75	.17	1.21	12	.31
423301	2,500	.70	2.40	.93	1/2	1.07	3.77	1/2-13	2.58	1.49	1.25	.20	1.84	28	1.00
423004	2,500	.88	3.25	1.22	3/4	.78	4.78	1/2-13	3.52	1.99	1.50	.16	2.31	28	2.31
•423322	2,500	.88	3.25	1.22	3/4	.78	6.72	1/2-13	3.52	1.99	1.50	.16	4.25	28	2.75
423005	2,500	.88	3.25	1.22	3/4	1.03	4.78	1/2-13	3.52	1.99	1.50	.16	2.31	28	2.31
•423323	2,500	.88	3.25	1.22	3/4	1.03	6.72	1/2-13	3.52	1.99	1.50	.16	4.25	28	2.00
423006	2,500	.88	3.25	1.22	3/4	1.28	4.78	1/2-13	3.52	1.99	1.50	.16	2.31	28	2.31
•423324	2,500	.88	3.25	1.22	3/4	1.28	6.72	1/2-13	3.52	1.99	1.50	.16	4.25	28	2.75
423001	4,000	.88	3.25	1.22	3/4	.78	4.78	5/8-11	3.52	1.99	1.50	.16	2.18	60	2.44
423002	4,000	.88	3.25	1.22	3/4	1.03	4.78	5/8-11	3.52	1.99	1.50	.16	2.18	60	2.44
•423320	4,000	.88	3.25	1.22	3/4	1.03	6.72	5/8-11	3.52	1.99	1.50	.16	4.12	60	2.88
423003	4,000	.88	3.25	1.22	3/4	1.28	4.78	5/8-11	3.52	1.99	1.50	.16	2.18	60	2.44
•423321	4,000	.88	3.25	1.22	3/4	1.28	6.72	5/8-11	3.52	1.99	1.50	.16	4.12	60	2.88
423007	5,000	.88	3.25	1.22	3/4	1.03	4.78	3/4-10	3.52	1.99	1.50	.16	2.06	100	2.56
•423325	5,000	.88	3.25	1.22	3/4	1.03	6.72	3/4-10	3.52	1.99	1.50	.16	4.00	100	3.00
423009	5,000	.88	3.25	1.22	3/4	1.53	4.78	3/4-10	3.52	1.99	1.50	.16	2.06	100	2.56
•423327	5,000	.88	3.25	1.22	3/4	1.53	6.72	3/4-10	3.52	1.99	1.50	.16	4.00	100	3.00
423102	7,000	1.40	4.80	1.71	1	1.04	6.52	3/4-10	5.14	3.00	2.37	.24	3.06	100	6.23
423329	7,000	1.40	4.80	1.71	1	1.04	8.11	3/4-10	5.14	3.00	2.37	.24	4.65	100	7.25
423103	7,000	1.40	4.80	1.71	1	1.54	6.52	3/4-10	5.14	3.00	2.37	.24	3.06	100	6.63
423330	7,000	1.40	4.80	1.71	1	1.54	8.11	3/4-10	5.14	3.00	2.37	.24	4.65	100	6.63
423101	8,000	1.40	4.80	1.71	1	1.04	6.52	7/8-9	5.14	3.00	2.37	.24	2.93	160	6.75
•423328	8,000	1.40	4.80	1.71	1	1.04	8.11	7/8-9	5.14	3.00	2.37	.24	4.52	160	6.75
423105	10,000	1.40	4.93	1.71	1	1.29	6.52	1-8	5.14	3.00	2.37	.24	2.81	230	7.00
•423331	10,000	1.40	4.93	1.71	1	1.29	8.11	1-8	5.14	3.00	2.37	.24	4.40	230	7.00
423106	10,000	1.40	4.93	1.71	1	1.54	6.52	1-8	5.14	3.00	2.37	.24	2.81	230	7.00
•423332	10,000	1.40	4.93	1.71	1	1.54	8.11	1-8	5.14	3.00	2.37	.24	4.40	230	7.00
423107	10,000	1.40	4.93	1.71	1	2.29	6.52	1-8	5.14	3.00	2.37	.24	2.81	230	7.00
•423333	10,000	1.40	4.93	1.71	1	2.29	8.11	1-8	5.14	3.00	2.37	.24	4.40	230	7.00
423401	15,000	1.75	6.00	2.11	1 1/4	1.89	8.73	1 1/4-7	6.50	3.76	3.20	.35	4.12	470	14.00
423202	24,000	2.25	8.00	2.81	1 3/4	2.70	12.47	1 1/2-6	8.55	4.87	4.20	.47	6.41	800	33.75
423200	30,000	2.25	8.00	2.81	1 3/4	2.96	12.47	2-4 1/2	8.55	4.87	4.20	.47	5.41	800	36.00
423501	50,000	3.00	10.50	4.09	2 1/4	4.00	16.87	2 1/2-8	11.67	6.52	5.75	1.12	8.03	2,100	87.50
423503	50,000	3.00	10.50	4.09	2 1/4	4.00	16.87	2 1/2-4	11.67	6.52	5.75	1.12	8.03	2,100	87.50
423600	75,000	3.75	13.00	5.27	2 3/4	5.20	19.50	3-4	14.15	8.10	7.25	1.00	8.48	4,300	166.00
423701	100,000	4.00	14.50	6.06	3 1/4	7.00	22.09	3 1/2-4	15.90	8.60	7.75	1.09	9.28	6,600	240.00

• Long Bar Model
 *Recommended Torque Load
 All dimensions approximate
 All sizes in inches unless otherwise specified

*** ⚠ WARNING**

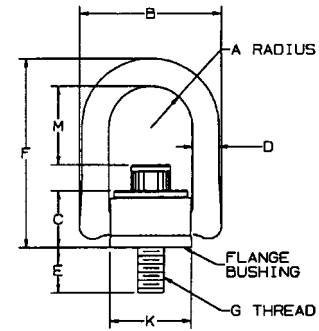
Improper Installation and use of hoist rings can cause injury.

TO AVOID INJURY:

- Do not exceed rated load.
- Install rings per instructions. Verify full 360° seating— Retorque periodically.
- Consult angular lifting graph when lifting at other than 90°

CM heavy duty hoist rings

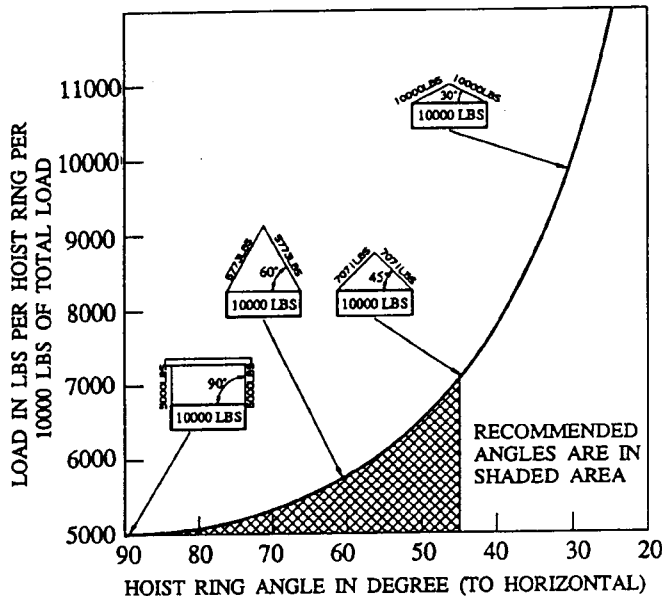
- Back and side pins constructed of one piece forged alloy steel
- Less moving parts than competitive rings
- Bale and center body are closed die forged to assure superior grain flow and consistent dimensional accuracy
- 100% magnetic particle inspected
- Patented product specified in wide range of industries
- Larger bale allows use of a variety of hook sizes
- Easy disassembly for periodic non-destructive inspection
- Capacities range from 800-24,000 lbs.
- Economically priced



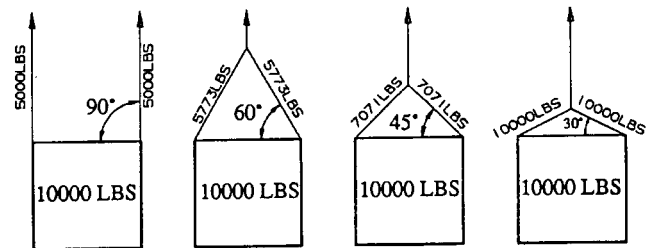
Product Code	Rated Load (lbs.)	A	B	C	D	E	F	G	K	RTL* (ft./lbs.)	M	Net Weight (lbs.)
433212	800	.65	2.29	.96	.44	.56	3.23	5/16-18	1.25	7	1.51	.52
433214	800	.65	2.29	.96	.44	1.06	3.23	5/16-18	1.25	7	1.51	.54
433312	1,000	.65	2.29	.96	.44	.56	3.23	3/8-16	1.25	12	1.45	.56
433314	1,000	.65	2.29	.96	.44	1.06	3.23	3/8-16	1.25	12	1.45	.58
433515	2,500	1.00	3.50	1.50	.75	1.00	5.31	1/2-13	1.89	28	2.56	1.72
433516	2,500	1.00	3.50	1.50	.75	1.25	5.31	1/2-13	1.89	28	2.56	1.82
433614	4,000	1.00	3.50	1.50	.75	1.00	5.31	5/8-11	1.89	60	2.44	1.78
433615	4,000	1.00	3.50	1.50	.75	1.25	5.31	5/8-11	1.89	60	2.44	1.88
433714	5,000	1.00	3.50	1.50	.75	1.00	5.31	3/4-10	1.89	100	2.31	1.89
433716	5,000	1.00	3.50	1.50	.75	1.50	5.31	3/4-10	1.89	100	2.31	2.02
433102	7,000	1.40	5.10	2.05	1.00	1.20	7.00	3/4-10	2.81	100	3.20	7.23
433103	7,000	1.40	5.10	2.05	1.00	1.70	7.00	3/4-10	2.81	100	3.20	7.25
433101	8,000	1.40	5.10	2.05	1.00	1.20	7.00	7/8-9	2.81	160	3.07	7.33
433105	10,000	1.40	5.10	2.05	1.00	1.45	7.00	1-8	2.81	230	2.95	7.57
433106	10,000	1.40	5.10	2.05	1.00	1.70	7.00	1-8	2.81	230	2.95	7.63
433107	10,000	1.40	5.10	2.05	1.00	2.45	7.00	1-8	2.81	230	2.95	7.81
433401	15,000	2.00	6.75	2.87	1.25	2.63	9.22	1 1/4-7	3.88	470	3.74	16.00
433420	20,000	2.00	6.75	2.87	1.25	2.63	9.22	1 3/8-6	3.88	670	3.62	17.20
433424	24,000	2.00	6.75	2.87	1.25	2.63	9.22	1 1/2-6	3.88	800	3.49	18.10

Replacement screws are available. Contact customer service for details.
 All sizes in inches unless otherwise specified.
 *Recommended torque load.

Angular Lifting Graph



Effect of Hoist Ring Angle on Load



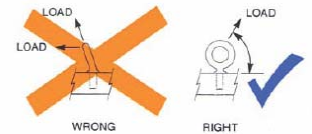
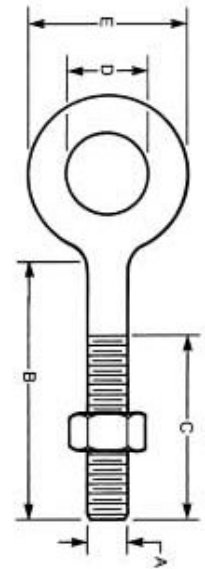
INSTALLATION INSTRUCTIONS: Drill and tap workpiece for hoist ring screw with axis vertical to mounting surface. Work surface should be flat and smooth to provide full 360° flush seating for the bushing flange. (SAFETY NOTE: Some loosening may develop after prolonged service in a permanent installation. It is advisable to periodically re-tighten the mounting screw to maintain the specified torque value.) The use of free fit spacers between the bushing flange and mounting surface is not recommended as this will reduce the safe load rating on angularly applied loads. Hoist ring must be free to swivel 360° and pivot 180° at all times.



HALO

REGULAR EYE BOLTS - GALVANIZED

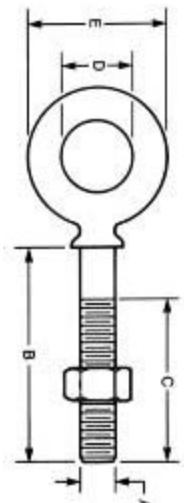
"A" Bolt Dia. (in.)	"B" Shank Length (in.)	Working Load Limit in Lbs.	Approx. Wt. in Lbs.	C	D	E
1/4"	2"	650	0.06	1.50	0.50	1.00
1/4"	4"	650	0.10	2.50	0.50	1.00
5/16"	2 1/4"	1200	0.13	1.50	0.63	1.25
5/16"	4 1/4"	1200	0.17	2.50	0.63	1.25
3/8"	2 1/2"	1500	0.22	1.50	0.75	1.50
3/8"	4 1/2"	1500	0.28	2.50	0.75	1.50
3/8"	6"	1500	0.33	2.50	0.75	1.50
1/2"	2"	2600	0.46	1.50	1.00	2.00
1/2"	3 1/4"	2600	0.54	1.50	1.00	2.00
1/2"	6"	2600	0.68	3.00	1.00	2.00
1/2"	8"	2600	0.80	3.00	1.00	2.00
1/2"	10"	2600	0.93	3.00	1.00	2.00
1/2"	15"	2600	1.23	5.00	1.00	2.00
5/8"	4"	5200	1.00	2.00	1.25	2.50
5/8"	6"	5200	1.14	3.00	1.25	2.50
5/8"	8"	5200	1.38	3.00	1.25	2.50
5/8"	10"	5200	1.55	3.00	1.25	2.50
5/8"	12"	5200	1.69	4.00	1.25	2.50
3/4"	4 1/2"	7200	1.64	2.00	1.50	3.00
3/4"	6"	7200	1.81	3.00	1.50	3.00
3/4"	8"	7200	2.00	3.00	1.50	3.00
3/4"	10"	7200	2.30	3.00	1.50	3.00
3/4"	12"	7200	2.50	4.00	1.50	3.00
3/4"	15"	7200	2.90	5.00	1.50	3.00
1"	6"	10000	3.60	3.00	2.00	4.00
1"	9"	10000	4.30	4.00	2.00	4.00
1"	12"	10000	5.00	4.00	2.00	4.00



Never Exceed Working Load Limit

SHOULDER EYE BOLTS - GALVANIZED

"A" Bolt Dia. (in.)	"B" Shank Length (in.)	Working Load Limit in Lbs.	Approx. Wt. in Lbs.	C	D	E
1/4"	2"	650	0.06	1.50	0.50	0.88
1/4"	4"	650	0.09	2.50	0.50	0.88
5/16"	2 1/4"	1200	0.11	1.50	0.63	1.13
5/16"	4 1/4"	1200	0.15	2.50	0.63	1.13
3/8"	2 1/2"	1500	0.19	1.50	0.75	1.38
3/8"	4 1/2"	1500	0.25	2.50	0.75	1.38
1/2"	3 1/4"	2600	0.41	1.50	1.00	1.75
1/2"	6"	2600	0.59	3.00	1.00	1.75
5/8"	4"	5200	0.83	2.00	1.25	2.25
5/8"	6"	5200	1.00	3.00	1.25	2.25
3/4"	4 1/2"	7200	1.50	2.00	1.50	2.75
3/4"	6"	7200	1.70	3.00	1.50	2.75



Never Exceed Working Load Limit



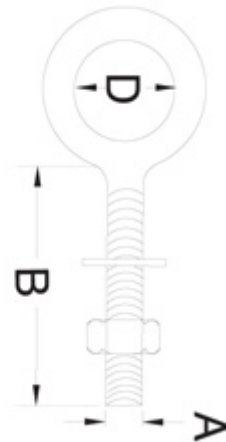



EYEBOLTS—TYPE 304 STAINLESS

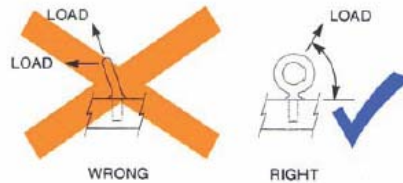
Formed and welded. Comes with nut and washer.

HALO

Size (A)	B	D	W.L.L. (lbs.)	Wt. Ea. (lbs.)
1/4"	2-3/8"	3/8"	400	0.04
1/4"	3-3/16"	3/8"	400	0.05
5/16"	3-3/16"	1/2"	600	0.1
5/16"	4"	1/2"	600	0.12
3/8"	4"	5/8"	1000	0.18
3/8"	6"	5/8"	1000	0.28
1/2"	4"	3/4"	1800	0.36
1/2"	6"	3/4"	1800	0.45



 Never Exceed Working Load Limit

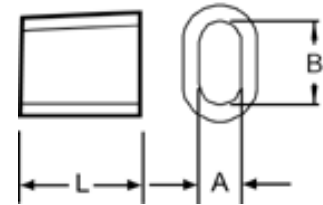




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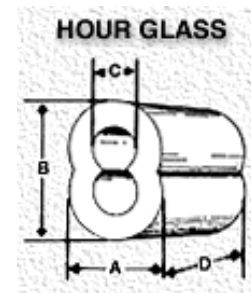
ALUMINUM OVAL SLEEVES

Wire Rope Size	L (in.)	A (in.)	B (in.)	Wt. (lbs.)
1/2"	1-57/64"	19/32"	1-13/64"	0.160
5/8"	2-11/64"	45/64"	1-3/8"	0.250
3/4"	3"	61/64"	1-29/32"	0.640
7/8"	3-37/64"	1-31/32"	3-3/32"	1.040
1"	3-13/16"	1-7/32"	2-7/16"	1.290
1-1/8"	4-25/64"	1-3/8"	2-49/64"	1.960



ALUMINUM HOUR GLASS SLEEVES

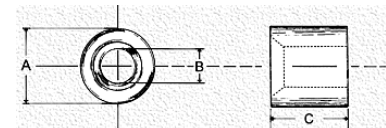
Cable & Sleeve Size	A (in.)	B (in.)	C (in.)	D (in.)	Pkg. Qty.
1/16"	0.172	0.250	0.078	3/8"	100
3/32"	0.278	0.404	0.125	1/2"	100
1/8"	0.343	0.500	0.156	5/8"	100
5/32"	0.375	0.562	0.187	11/16"	100
3/16"	0.440	0.665	0.223	1"	50
1/4"	0.536	0.818	0.290	1-1/8"	50
5/16"	0.687	1.031	0.375	1-1/4"	50
3/8"	0.750	1.156	0.438	1-7/16"	20



Sleeves, when properly applied, are capable of holding the rated breaking strength of the cable to which they are applied. However, to determine the exact holding strength, we recommend pull testing prior to use. This step ensures the proper selection of materials, the correct pressing procedure and an adequate margin of safety for the intended use.

ALUMINUM STOP BUTTONS

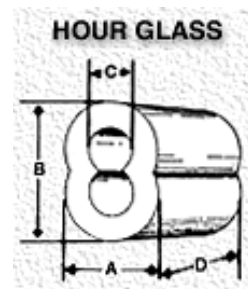
Cable & Button Size	A (in.)	B (in.)	C (in.)	Pkg. Qty.
1/16"	0.250	0.078	5/32"	100
3/32"	0.344	0.112	5/16"	100
1/8"	0.344	0.152	5/16"	100
5/32"	0.437	0.185	11/32"	100
3/16"	0.437	0.216	11/32"	100
1/4"	0.688	0.281	11/16"	50
5/16"	0.688	0.375	11/16"	50
3/8"	0.688	0.406	11/16"	20



Holding strength is approximately 1/3 of rated cable strength when properly swaged.

ZINC COATED COPPER HOUR GLASS SLEEVES

C (in.) Cable & Sleeve Size	A (in.)	B (in.)	D (in.)
3/32"	0.224	0.370	0.400
1/8"	0.327	0.492	0.554
3/16"	0.450	0.672	0.940
1/4"	0.515	0.809	1.110
5/16"	0.668	1.020	1.051
3/8"	0.728	1.113	1.236





HALO

ALLOY TOW PLATES



Made in Argentina



Each plate is ABS certified and certificates are provided.

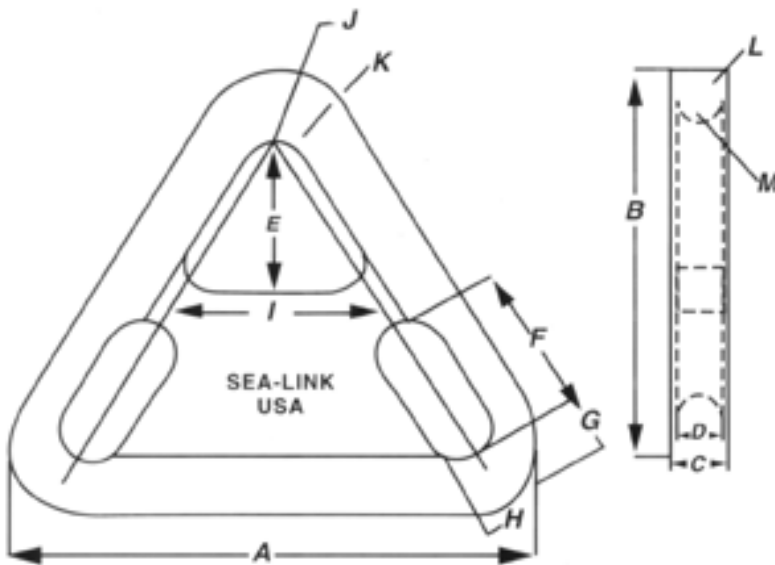


Plate	Shackle Size	A	B	C	D	E	F	G	H	I	J	K	L	M	Weight in lbs.	Proof Load in lbs.
No. 1	1 1/2"-2"	17 1/2"	16"	2 1/4"	1 3/4"	5 1/2"	5 3/8"	2"	2 1/4"	6"	2 1/2"	1"	1/4"	2 1/4"	65	300,000
No. 2	2 1/4"-3"	22 1/2"	23"	3"	2"	7"	7"	3"	3 1/4"	7"	4"	1 1/2"	3/8"	3"	165	485,000
No. 3	3 1/2"-4"	31"	31"	4"	3"	10"	10"	4"	4 3/8"	10"	6"	2"	3/8"	4"	550	624,000