



Product in use: Custom Wide Lift Wire Mesh Sling
10 Gage 72" wide x 20' long

WIRE MESH SLINGS

Widely used in metalworking shops and steel warehouses where loads are abrasive, hot or tend to cut web slings.

Features and Benefits

Promotes Safety

- Steel construction resists abrasion and cutting.
- Each sling is permanently stamped with capacity and serial number.
- Grips contour of the load.
- Each sling is proof-tested and certified.

Saves Money

- Grips load firmly without stretching - reduces load damage.
- Resists abrasion and cutting for greater sling life.
- Low stretch and wide-bearing area distributes load to help avoid damage.

- Slings are repairable.
- Alloy steel end fittings are zinc plated for long life.
- Wire mesh is galvanized to resist corrosion.

Saves Time

- Width of mesh helps control and balance load.
- End fittings accommodate most large crane hooks.

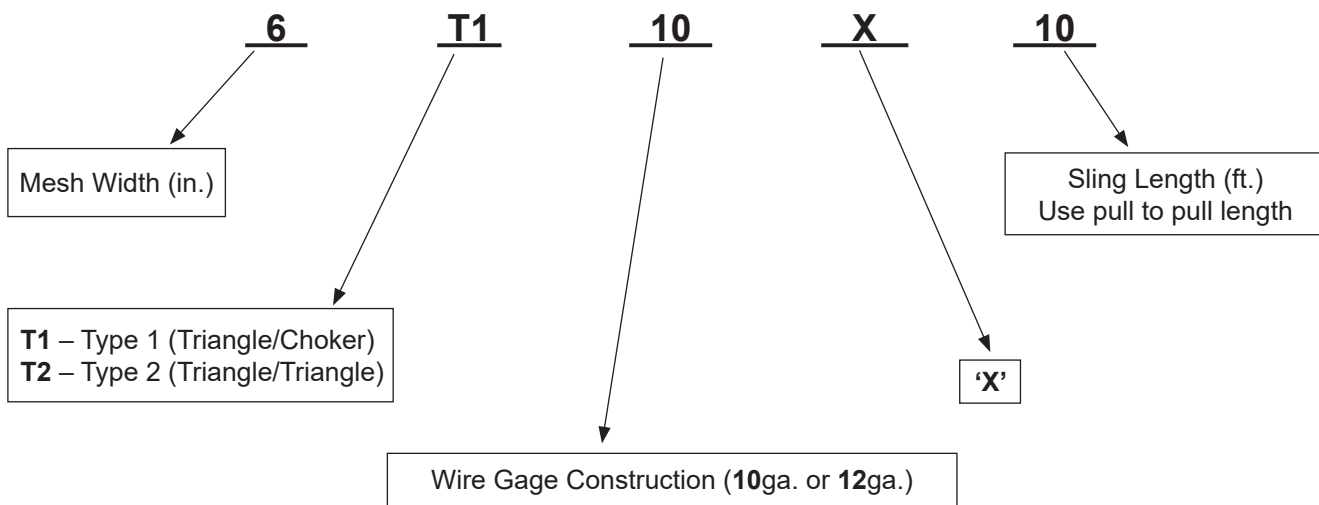
Environmental Considerations

- Wire mesh slings shall not be used at temperatures above 550°F.
- Store in a clean, dry area.

Roughneck Wire Mesh Sling Construction - 10 Gage Standard

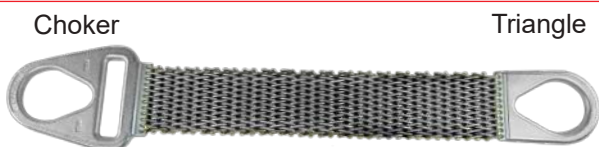
Alloy steel end fittings are zinc plated. Mesh is 10 gage galvanized high tensile steel (12 gage upon request). **Optional:** Type 304 stainless steel mesh is available for use in corrosive environments.

HOW TO ORDER WIRE MESH SLINGS



Type 1

Type 2



* **WARNING** Do not edge load. Full width of mesh must contact load.

WIRE MESH SLINGS

Wire Mesh Gage	Wire Mesh Width (in.)	Rated Capacity* (lbs.)		
		Vertical	Choker	Basket
10 Heavy Duty	2	2,300	2,300	4,600
	3	3,500	3,500	7,000
	4	4,800	4,800	9,600
	6	7,200	7,200	14,400
	8	9,600	9,600	19,200
	10	12,000	12,000	24,000
	12	14,400	14,400	28,800
	14	16,800	16,800	33,600
	16	19,200	19,200	38,400
	18	21,600	21,600	43,200
12 Medium Duty	2	1,600	1,600	3,200
	3	2,400	2,400	4,800
	4	3,200	3,200	6,400
	6	4,800	4,800	9,600
	8	6,400	6,400	12,800
	10	8,000	8,000	16,000
12	9,600	9,600 </td <td>19,200</td>	19,200	

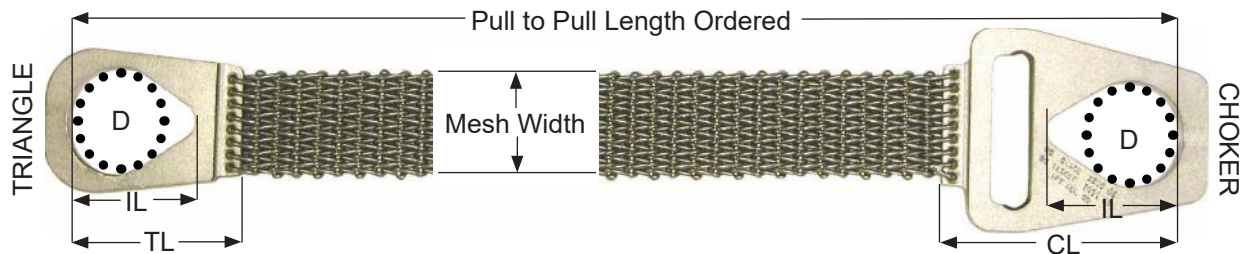
Under normal usage, wire mesh slings will eventually need repairs. *Lift-All* can perform this service and re-certify all sling brands at a relatively low cost. Wire mesh slings that are repaired are guaranteed to meet or exceed original specifications. Five *Lift-All* factories are strategically located in the U.S. to ensure prompt service. Wire mesh slings should be removed from service and/or repaired under the following conditions:

- A broken weld or brazed joint along the sling edge.
- A broken wire in any part of the mesh.
- Reduction in wire diameter of 25% due to abrasion or 15% due to corrosion.
- Lack of flexibility due to distortion of the mesh.
- Visible distortion or wear of either end fitting.
- Cracked end fitting.



Scan and learn more about *Lift-All's* Wire Mesh Slings.

NOTE: The choker fitting must not be positioned against a load edge or directly on the triangle fitting.



Nom. Mesh Width (in.)	Terminal Dimensions (in.)				Terminal Thickness (in.)		Approx. Weight of 3 ft. (lbs.) Type 1 Slings		Mesh Weight (per ft. in lbs.)	
	Dia. D	Inside Length IL	Triangle Length TL	Choker Length CL	10-GA	12-GA	10-GA	12-GA	10-GA	12-GA
2	2.00	3.00	3.88	5.63	1/2	1/2	6	5	1.3	1.1
3	2.25	3.38	4.38	6.25	1/2	1/2	8	8	1.9	1.8
4	3.00	4.00	5.00	6.75	1/2	1/2	10	10	2.5	2.3
6	3.50	4.50	5.63	7.75	1/2	1/2	16	14	3.9	3.4
8	4.50	6.00	7.50	9.00	1/2	1/2	22	21	5.1	4.5
10	4.75	6.25	8.00	10.88	1/2	1/2	28	26	6.4	5.6
12	5.00	6.50	8.63	11.38	1/2	1/2	34	32	7.6	6.8
14	5.00	6.50	8.75	12.75	1/2	1/2	40	37	8.9	7.9
16	5.25	7.00	9.13	14.13	3/4	1/2	57	38	10	9.0
18	5.50	7.50	9.75	15.75	3/4	1/2	67	44	11	10
20	5.75	7.75	10.13	17.00	3/4	1/2	77	51	13	11

* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in General Information section.

General Information
Web Slings
Round Slings
Sling Protection
Wire Rope
Chain Slings
Rigging Hardware
Mesh Slings
Cargo Control
Lift-All Hoists
Hoist Rings
Plate Clamps
Lifting Devices

INSPECTION CRITERIA FOR WIRE MESH SLINGS

The following photos illustrate some of the common damage that occurs and indicates that the sling must be taken out of service. For inspection frequency requirements, see the General Information section of this catalog.

General Information

Web Slings

Round Slings

Sling Protection

Wire Rope

Chain Slings

Rigging Hardware

Mesh Slings

Cargo Control

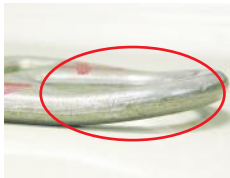
Lift-All Hoists

Hoist Rings

Plate Clamps

Lifting Devices

End Fitting Distortion / Wear



WHAT TO LOOK FOR
Fittings that have obvious areas of wear. Fittings that do not have legible rated capacity information or do not lie flat.

TO PREVENT

Never lift with the fitting against a load edge or set load directly onto the sling. Reduce wear by keeping loads within the rated capacity of the sling.

Broken Weld / Brazed Joint



WHAT TO LOOK FOR
A crack or separation of the wire at the edge or in the body of the mesh.

TO PREVENT

Do not side load mesh. Tension on sling must be distributed evenly across the entire width of the mesh.

Overloading / Uneven Loading

WHAT TO LOOK FOR

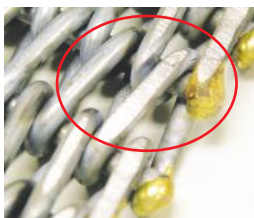
Mesh does not lie flat, appears distorted and/or will not bend easily.

TO PREVENT

Do not load in excess of rated capacity. Load edges must be straight / flat and in contact with full width of mesh at bearing points.



Wear



WHAT TO LOOK FOR
Flat areas on the individual wires. When wires have lost 25% or more of their original diameter, the sling must be taken out of service.

TO PREVENT

Do not drag sling on the ground and do not drag loads over slings. Use sling protection on high wear areas.

Corrosion / Heat Damage



WHAT TO LOOK FOR
Areas of discoloration. Remove slings with wire diameter reduction of 15% or more. Slings exposed to temperatures of 550°F or more must be removed from service.

TO PREVENT

Hang slings for storage away from moisture. If your conditions require temperatures above 550°F consider using stainless steel mesh.

CHAIN MESH SLINGS

Specialty slings for rugged applications

Features and Benefits

Promotes Safety

- Each sling is permanently stamped with capacity and serial number for traceability.
- Steel construction resists abrasion and cutting.
- Each sling proof-tested and certified.

Saves Time

- Width of mesh helps to balance and control loads.
- End fittings accommodate most large crane hooks.

Saves Money

- Alloy steel end fittings coupled with G100 chain resist abrasion and cutting for greater sling life.
- Repairable.
- Sling flexibility allows fast and easy connection to load.
- Low stretch and wide-bearing area distributes load to help avoid damage.

Inspection Criteria* for Roughneck Chain Mesh Slings

Remove sling from service if any of the following conditions are visible:

- Wear, nicks, cracks, breaks, gouges, stretch, bends or weld spatter on chain or attachments.
- Discoloration from excessive temperature.
- Chain links and attachments won't hinge freely with adjacent links.
- Visible distortion or deformation of fitting.
- 15% reduction of original cross-sectional area of metal at any point of either end fitting.
- Cracked end fitting.

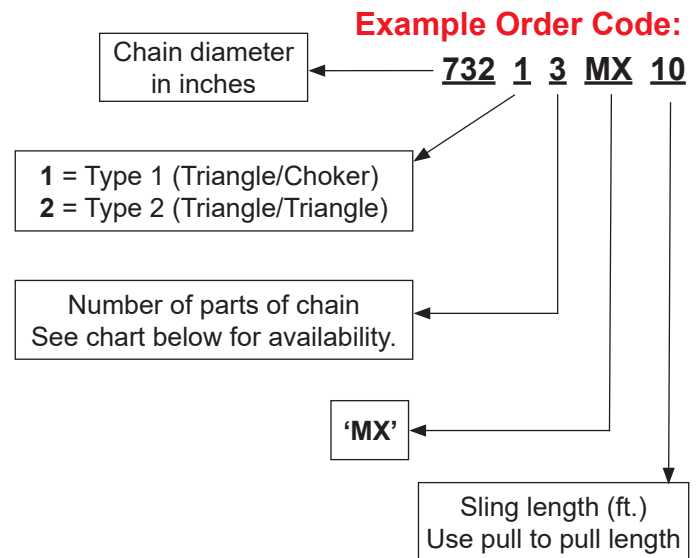
For more details, see inspection criteria in the Chain Sling section of this catalog.

Environmental Considerations

- Rated capacities of chain mesh are reduced at temperatures above 400°F.
- Store in clean, dry area to avoid corrosive action.

*All sling users must read and understand the safety bulletin provided with each sling.

HOW TO ORDER CHAIN MESH SLINGS

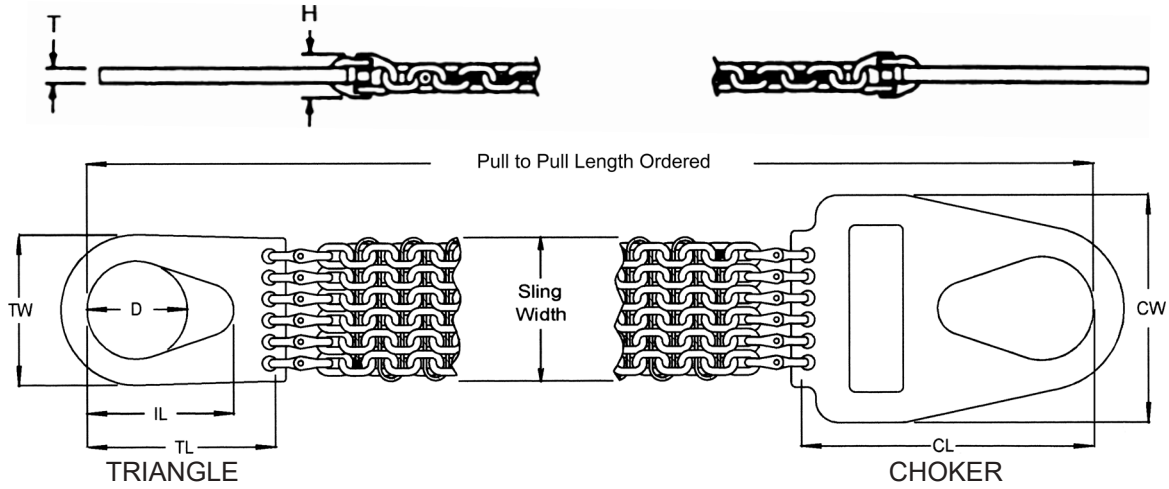


Chain Size (in.)	Parts of Chain	Sling Width (in.)	Rated Capacity (lbs.)*		
			Vertical	Choker	Basket
7/32	3	1-1/2	5,000	5,000	10,000
	4	2	6,700	6,700	13,400
	5	2-1/2	8,400	8,400	16,800
	6	3	10,000	10,000	20,000
9/32	3	2-1/8	8,400	8,400	16,800
	4	2-3/4	11,000	11,000	22,000
	5	3-3/8	14,000	14,000	28,000
	6	4	16,800	16,800	33,600
3/8	3	3-1/4	17,000	-	34,000
	4	4-3/8	22,700	-	45,400
	5	5-3/8	28,400	-	56,800
	6	6-1/2	34,000	-	68,000
1/2	2	3	19,200	-	38,400
	3	4-1/2	28,800	-	57,600
	4	6	38,400	-	76,800

* **WARNING** Do not exceed rated capacities. Sling capacity decreases as the angle from horizontal decreases. Slings should not be used at angles of less than 30°. Refer to Effect of Angle chart in General Information section of this catalog.

CHAIN MESH SLINGS

Type 1 Triangle & Choker



Chain Size (in.)	Parts of Chain	Dimensions (in.)									5 ft. Type 2 Wgt. (lbs.)	Wgt. (per ft. in lbs.)
		Dia. D	Inside Length IL	Triangle Length TL	Triangle Width TW	Choker Length CL	Choker Width CW	Sling Width	Sling Thck. T	Sling Height H		
7/32	3	2.75	4.13	6.75	4.75	9.00	7.13	1.50	0.38	1.25	10	1.3
	4	3.00	4.50	7.13	5.00	9.38	7.13	2.00	0.38	1.25	12	1.8
	5	3.50	5.25	8.00	5.50	10.13	7.75	2.50	0.38	1.25	14	2.2
	6	3.75	5.63	8.25	5.75	10.63	8.25	3.00	0.38	1.25	17	2.7
9/32	3	2.75	4.13	6.75	4.75	9.00	7.13	2.13	0.50	1.75	14	2.2
	4	3.00	4.50	7.13	5.00	9.38	7.25	2.75	0.50	1.75	18	3.0
	5	3.50	5.25	8.0	5.50	10.13	7.75	3.38	0.50	1.75	22	3.7
	6	3.75	5.63	8.25	5.75	10.63	8.25	4.00	0.50	1.75	26	4.5
3/8	3	3.50	5.25	6.88	5.00	-	-	3.25	0.75	2.25	30	4.4
	4	4.38	6.50	8.13	6.38	-	-	4.38	0.75	2.25	41	5.8
	5	4.38	6.50	8.38	7.38	-	-	5.38	0.75	2.25	55	7.3
	6	5.25	7.88	9.75	8.25	-	-	6.50	0.75	2.25	59	8.8
1/2	2	3.50	5.25	6.88	5.00	-	-	3.00	1.0	3.13	33	5.2
	3	4.38	6.50	8.38	6.38	-	-	4.50	1.0	3.13	50	7.7
	4	5.25	7.88	9.75	7.75	-	-	6.00	1.0	3.13	62	10

Note: Length tolerance ± 2 chain links so plane is maintained.