

SYNTHETIC ROUNDSLING TYPES & TERMS GUIDE

ROUNDSLING DETAILS

Variations

Working load limits for standard Mazzella synthetic roundslings can range from 2,120 LBS to 62,000 LBS, depending on the type of hitch being utilized. A color system has been developed for Mazzella's roundslings to provide a quick, visual guide for differing sling capacities.



Endless

Typical roundsling configuration.



Eye & Eye

Only when using a protective sleeve can synthetic roundslings be considered eye-and-eye. This sleeve will allow the sling to act like an eye-and-eye flat web sling, and it will be more protected if you're going around edges.



GOOD-FIT APPLICATIONS

Good-fit applications for synthetic roundslings include:

- Manufacturing shops
- Construction industry (avoid prolonged UV exposure, pinch points, and sharp edges)
- Acidic / chemical environments (non-alkaline)

BAD-FIT APPLICATIONS

Any environment in which the roundsling will be subject to cut or melt potential is a bad fit. Excess heat will cause the fibers to melt, which will lead to sling failure. Also, in applications with sharp edges, roundslings will not be a good fit.

You can use web slings outdoors but prolonged exposure to UV (ultraviolet) rays will degrade and compromise the safe and effective use of the sling.

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ROUNDSLING LENGTH

When determining sling length, measure from the top load-bearing point to the bottom load-bearing point. Multi-leg sling assemblies, or single-leg slings with fittings, are measured from the load-bearing point of any rings, hooks, or fittings.

ROUNDSLING CAPACITY

Roundslings come in a variety of lengths and capacities. Larger capacity slings can have a wider core and outer sleeve and can distribute the load over a larger sling surface area for better load balance and control.

ROUNDSLING HARDWARE

There are hooks made specifically for use with roundslings. The hook has a triangular or flat eye, which allows the roundsling to rest easily within that eye and avoid being pinched or bunched while under load.



HITCHES

Mazzella synthetic roundslings can be used in the following hitch orientations:



VERTICAL



CHOKER



BASKET

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MASTER LINK

- Oblong (Oval) Master Link
- Pear-Shaped Master Link
- Round (Circle) Master Link

MULTI-LEG ASSEMBLIES

- Single Leg Roundsling Bridle
- Double Leg Roundsling Bridle
- Triple Leg Roundsling Bridle
- Quad Leg Roundsling Bridle

END FITTINGS

Sling Hooks

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ROUNDSLING PROTECTION

Sling protection should always be used if a synthetic roundsling is going to be exposed to an edge or abrasive surface. A protective sleeve can be placed over the body of the roundsling. This will provide more protection when going around edges while also allowing the roundsling to act like an eye-and-eye flat web sling. A protective sleeve can be created to go around the sling or the added protection can be sewn directly into the jacket of the sling. Cordura® is a popular form of roundsling protection.



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HOW TO READ A MAZZELLA SYNTHETIC ROUNDSLING TAG

Per ASME B30.9, each synthetic roundsling shall be marked by the manufacturer to include:

- 1** Name or trademark of manufacturer, or if repaired, the entity performing repairs
- 2** Manufacturer's code or stock number
- 3** Rated load for at least one hitch type and the angle upon which it is based
- 4** Core material
- 5** Cover material, if different from core material
- 6** Number of legs, if more than one (*NOTE: this may come in the form of a secondary tag attached to a master link*)



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HIGH-PERFORMANCE SLINGMAX® TWIN-PATH® ROUNDSLINGS

High-performance Slingmax® Twin-Path® roundslings perform the same way as standard Mazzella roundslings but differ by utilizing a blend of inner core fibers called K-Spec® yarn. This proprietary blend of fibers allows the strengths of one fiber to counteract the negative aspects of a different fiber.

These are high-quality lifting slings that, if maintained, can be used over a period of years over many different jobs. They are not designed to be used just a few times, only to be disposed of and replaced on a regular basis.

These slings are fabricated with the Check-Fast® inspection system. This is an overload device that has proven useful in alerting the end-user when a sling is overloaded before or during, the execution of a lift.



Detail of Inner Fibers



HOW TO READ A MAZZELLA HIGH-PERFORMANCE ROUNDSLING TWIN-PATH® TAG

Per ASME B30.9, each synthetic roundsling shall be marked by the manufacturer to include:

- 1 Name or trademark of manufacturer, or if repaired, the entity performing repairs
- 2 Manufacturer's code or stock number
- 3 Rated load for at least one hitch type and the angle upon which it is based
- 4 Core yarn – fiber type(s) or blend
- 5 Cover material, if different from core material
- 6 Number of legs, if more than one (*NOTE: this may come in the form of a secondary tag attached to a master link*)

