

K-100™

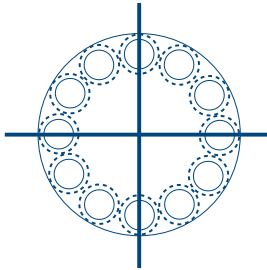
Designed specifically for use on mobile cranes, K-100 hoist rope features high strength-to-weight ratio, bend fatigue durability, and robust spooling capabilities.



Description

Samson has leveraged fiber, coating, and rope construction technology from multiple industries it serves to create K-100. Designed specifically for use on mobile cranes, K-100 hoist rope features high strength-to-weight ratio, bend fatigue durability, and robust spooling capabilities.

The combination of high-performance synthetic fibers provides strength similar to wire rope with over 80% in weight reduction. The high strength of these high-performance fibers allows the rope to meet the maximum line pull requirements with a 5:1 safety factor. A proprietary coating has been added to K-100 to improve rope performance in cyclic bend over sheave applications inherent on mobile cranes.



The physical structure of K-100 also contributes to its performance characteristics. The rope construction provides a firm cross section that enables efficient multi-layering spooling, prevents load spin, birdcaging, and limits permanent damage to improper spooling.

The result is a crane hoist line that is easy and safe to handle/reeve, more durable for spooling, and can reduce weight in the overall system.

Product Code:

130

Fiber (Core/Cover):

Polyester/High-modulus Blend

Specific Gravity:

1.05

Splice:

Product Specific Class II

Manufacturer:

Samson Rope Technologies, Inc.

Features

- 80% lighter than wire
- Easy handling/reeving and installation
- Reduces number of change out due to mitigation of kinking, birdcaging, or damage from diving
- Torque-neutral construction mitigates load spin and cabling
- Corrosion resistant - no rusting, no lubing
- Reduces risk of hand injury from broken wires
- Reduced wear on drums, sheaves
- Standardizes main and auxiliary hoist to one rope
- Same load pull and load chart but with a 5:1 safety factor



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Specifications

Nominal Diameter		Approximate Weight		ISO 2307 Strength*	
mm	Inches	kg/meter	lbs/foot	tons	lbs
16	5/8	0.17	0.11	21.4	47,200
18	3/4	0.24	0.16	28.9	63,700
20	13/16	0.27	0.18	32.6	71,900
22	7/8	0.32	0.22	38.1	84,000
25	1	0.42	0.29	49.3	109,000
28	1-1/8	0.54	0.36	60.2	133,000

* Unspliced strength. Max permissible line pull is calculated with 5:1 safety factor