



HIGH-PERFORMANCE
**SWAGED
ROPE**
FOR FORESTRY





OUR WORLD

Usha Martin is one of the world's largest manufacturers of wire ropes. Our journey of more than six decades has been focused on manufacturing excellence, product innovation, technology improvements, and customer satisfaction, which has resulted in establishing Usha Martin ropes as one of the most preferred and trusted brands in the world.

Usha Martin manufactures the most advanced high-performance steel wire ropes, which are specially designed to meet the stringent requirements of the logging industry to the highest international standards and ensure the utmost safety in critical operations. The forestry ropes are subjected to a unique swaging process, which gives a compact rope structure, and increased strength without compromising flexibility. Swaging improves the rope's service life and increases its load-carrying capacity. Usha Martin's custom-made and precisely engineered forestry ropes are ideal for logging applications to be used as hauling ropes in tractor & skidder winches, and carrying & haul back rope in skyline tower yarder systems.

Usha Martin wire ropes undergo rigorous testing procedures to ensure superior quality to meet the requirement of demanding operating conditions. No matter how critical your application is, Usha Martin's expertise is always there to offer one-stop wire rope solutions for all your forestry needs.

Global companies, renowned for their critical applications, extensively use our high-performance ropes worldwide. Our desire to excel is manifested through our group dynamics having manufacturing facilities in India, Thailand, Dubai, and the United Kingdom with a Global Design Centre in Italy. Our distribution centres are spread across Europe, North America, Oceania, and other continents. Usha Martin's service centres are in India, Singapore, Dubai, the Netherlands, and Scotland. Our service-focused model has elevated Usha Martin from being a wire rope supplier to a one-stop solutions provider in collaboration with our customers.



GLOBAL FOOTPRINT



60+ YEARS OF LEADERSHIP



PRESENCE ACROSS
75+
COUNTRIES



06 MANUFACTURING FACILITIES



02 R&D CENTRES



300+
CHANNEL PARTNERS



SPECIAL WIRE ROPE FOR FORESTRY

FEATURES

Swaged cross section.

High breaking load.

Better fatigue performance.

Maximum structural stability.

Improved wear resistance for hard terrains.

Resilience to crushing makes it ideal for multi-layer winding.

Less pressure on drums.

Resistance to vibration.

Ideal for small diameter pulleys.

APPLICATIONS

Traction winches.

Skidder winches.

Carrying and hauling lines.

Haul back lines.

Tower yarder skylines.

APPLICATION SPECIFIC TO 8 STRANDED ROPES

Hauling and traction lines with dynamic loading.

Carrying lines with dynamic loading.





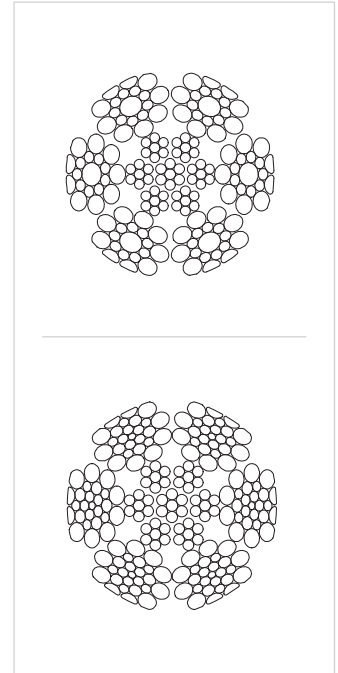


PRECISELY ENGINEERED SWAGED ROPES

Swaging improves the rope's service life and increases its load-carrying capacity

SWAGED 6

Nominal Rope Diameter		Appox. Mass		Minimum Breaking Strength
				1960 Grade
mm	Inch	kg/m	lb/ft	kN
8	5/16	0.360	0.242	66
9		0.441	0.296	81
	3/8	0.487	0.327	89
10		0.529	0.355	97
11	7/16	0.636	0.427	117
12		0.742	0.499	136
	1/2	0.821	0.552	151
13		0.868	0.583	160
14		0.990	0.665	182
	9/16	1.03	0.692	189
	5/8	1.24	0.833	229
16		1.26	0.847	232
18		1.56	1.05	288
19	3/4	1.73	1.16	318
20		1.90	1.28	349
22		2.29	1.54	420
	7/8	2.33	1.57	428
24		2.69	1.81	494
25		2.90	1.95	534
	1	2.99	2.01	550
26		3.13	2.10	574
28		3.59	2.41	660
	1 1/8	3.74	2.51	687

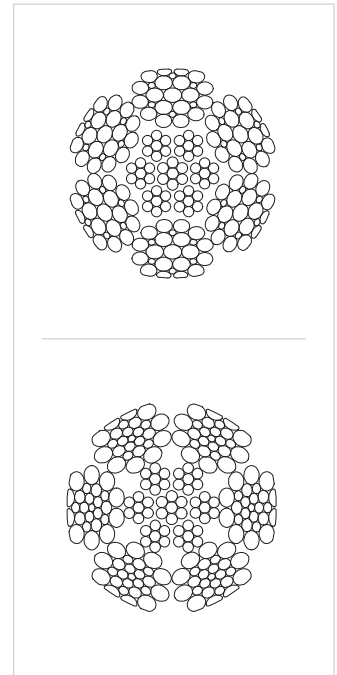


Note:

1. Recommended construction: 6x19S, 6x19F, 6x26WS with IWRC.
2. Rope sizes, breaking load and construction not shown in the standard table may be available on request and prior confirmation.

SWAGED PRO 6

Nominal Rope Diameter		Appox. Mass		Minimum Breaking Strength
				1960 Grade
mm	Inch	kg/m	lb/ft	kN
8	5/16	0.383	0.257	72
9		0.466	0.313	87
	3/8	0.514	0.345	95
10		0.558	0.375	103
11	7/16	0.667	0.448	125
12		0.776	0.521	145
	1/2	0.856	0.575	160
13		0.904	0.607	169
14		1.03	0.692	193
	9/16	1.07	0.719	198
	5/8	1.29	0.867	239
16		1.31	0.880	242
18		1.61	1.08	299
19	3/4	1.78	1.20	330
20		1.95	1.31	362
22		2.35	1.58	435
	7/8	2.39	1.61	443
24		2.75	1.85	511
25		2.97	2.00	551
	1	3.06	2.06	567
26		3.19	2.14	592
28		3.67	2.47	680
	1 1/8	3.81	2.56	708

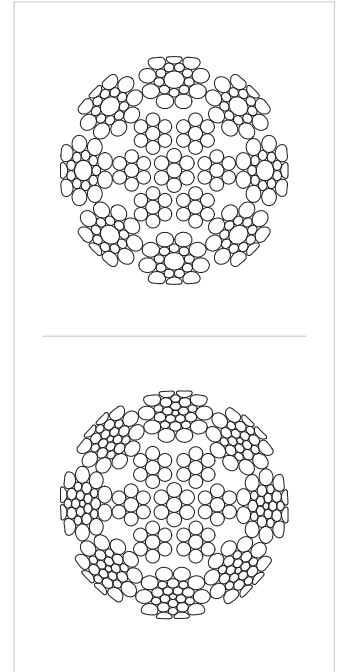


Note:

1. Recommended construction: 6x19S, 6x19F, 6x26WS with IWRC.
2. Rope sizes, breaking load and construction not shown in the standard table may be available on request and prior confirmation.

SWAGED 8

Nominal Rope Diameter		Appox. Mass		Minimum Breaking Strength
				1960 Grade
mm	Inch	kg/m	lb/ft	kN
12		0.670	0.450	132
	1/2	0.750	0.504	146
13		0.780	0.524	153
14		0.930	0.625	182
	9/16	0.970	0.652	189
	5/8	1.18	0.793	230
16		1.19	0.800	233
18		1.52	1.02	296
19	3/4	1.67	1.12	327
20		1.88	1.26	367
22		2.28	1.53	445
	7/8	2.31	1.55	452
24		2.69	1.81	527
25		2.93	1.97	572
	1	3.01	2.02	589
26		3.15	2.12	615
28		3.66	2.46	715
	1 1/8	3.80	2.55	744



Note:

1. Recommended construction: 8x19S, 8x19F, 8x26WS with IWRC.
2. Rope sizes, breaking load and construction not shown in the standard table may be available on request and prior confirmation.

SAFETY INFORMATION

Any performance specifications are conditional on proper rope diameter, construction & grade of rope tensile; on proper design & maintenance of mechanical equipment on which the wire rope is used and on proper storage, handling, maintenance and periodic inspection of such products during the period of use.

Inspect wire rope and consult industry and equipment manufacturer recommendations before each use. The UML wire rope may not perform as expected if it is damaged, abused, overused or improperly maintained.

Disclaimer

All statements, technical information and recommendations contained herein are believed to be reliable, but no guarantee is given as to their accuracy and/or completeness. The user must determine the suitability of the product for his own particular purpose, either alone or in combination with other products and shall assume all risk and liability in connection therewith.

Whilst every attempt has been made to ensure accuracy in the content of the tables, the information contained in this catalogue does not form any part of a contract.

