

usha martin°

Specialty Wire Rope and Solutions Provider

June 2023



Swaged ropes specialization



OUR VISION

- Expanding to Forestry logging customers in ALL continents
- Catering to OEMs and Distributor Service Dealers
- On time delivery. Wide logistics infrastructure

OUR COLLABORATIONS AND CUSTOMER COMMITMENT

- Swaged, heavily compacted wire ropes, developed with OEMs and fully field proof
- Available stocks in all continents
- Continuous endeavor to design special swaged ropes with special wire metallurgy and specific constructions
- R&D-specific Developments, GDC

Dedicated and fully integrated plants





Dedicated and fully integrated plants





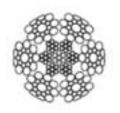
Swaging machines capable of diameter sizes upto ≤ 48 mm

Our complete forestry range (I)



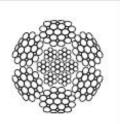
SWAGED 6

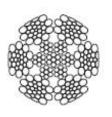
Rope Diameter		Apppox, Mass		Minimum Breaking Strength 1960 Grade
mm	Inch	kg/m	lbs/ft	iN
	5/16	0.360	0.342	66
9		0.441	0.296	
	3/6	0.487	0.327	89
10		0.529	0.365	97
11	7/16	0.636	0.427	107
12		0.742	0.499	136
	1/2	0.821	0.552	151
13		0.868	0.583	160
14		0.990	0.665	162
	9/16	1.05	0.692	189
	5/8	124	0.833	229
16		126	0847	232
18		1.54	1.06	200
19	34	1.73	136	38
20		190	129	349
22		2.29	154	420
	7/8	2.55	1.57	428
24		2.69	1.81	494
25		290	1.95	534
	1.0	2.99	2.01	550
26		3.15	2.10	574
26		3.59	2.41	660
	1 in	3.74	2.51	697



SWAGED PRO 6

Nominal Rope Diameter		Арррок Маня		Minimum Breaking Strength 1960 Grade	
mm	Inch	kg/m	bult.	M	
	5/16	0.383	0.26	72	
9		0.466	0.31	87	
	3/6	0.934	0.36	95	
10		0.558	0.37	105	
m	796	0.667	0.45	125	
12		0.776	0.52	145	
	1/2	0.856	0.58	160	
13		0.904	0.61	109	
14		1.03	0.69	193	
	9/16	1.07	0.72	198	
	5/8	129	0.87	239	
16		131	0.88	242	
10		1.61	100	299	
19	3/4	170	130	330	
20		196	1.31	362	
22		2.36	158	435	
	7/8	2.39	1.62	443	
24		2.75	185	pt pt	
25		2.97	2.00	593	
	1.0	106	2.06	567	
26		3.19	234	592	
28		3.67	2.47	680	
	114	3.81	2.56	708	





None

Note

1. Recommended Construction: 6x95, 6x19F, 6x36W5 with NWRC

Rope Sizes, Residing load and Construction not shown in the standard table in request & prior conformation.

^{1.} Recommended Construction: 6x95, 6x99, 6x26W5 with IWSIC

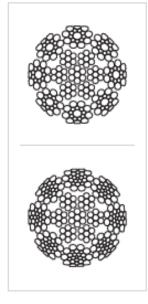
Rope Sizes, Breaking load and Construction not shown in the standard table ma request & prior confirmation.

Our complete forestry range (II)



SWAGED 8

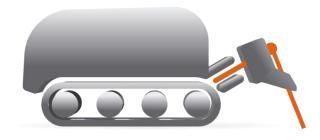
Ro	Nominal Rope Diameter		x. Mass	Minimum Breaking Strength 1960 Grade
mm	Inch	kg/m	lbs/ft	kN
12		0.670	0.450	132
	1/2	0.750	0.504	146
13		0.780	0.524	153
14		0.930	0.625	182
	9/16	0.970	0.652	189
	5/8	1.18	0.793	230
16		1.19	0.800	233
18		1.52	1.02	296
19	3/4	1.67	1.12	327
20		1.88	1.26	367
22		2.28	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
	11/6	3.80	2.55	744





Support winch, moderate slopes

Assisting harvesters and forwarders





Roge Districtor		Арррок Мане		Minimum Breaking Strength 1960 Grade
mm.	- Inch	kg/m	Smith	M
	576	0,360	0.242	66
9		0.640	0.296	
	3/8	0.487	0.327	89
10		0.529	0.386	97
71	176	0.636	0.427	117
12		0742	0.499	136
	10	0.821	0.662	185
15		0.968	0.585	160
36		0.990	0.665	162
	976	103	0.690	100
	5/8	134	0.633	229
×		126	0.647	252
18		156	1.06	200
39	1/4	175	136	38
20		190	136	349
22		2.29	154	420



- * Swaged rope with highest MBL and increased contact area rope/sheave and rope/winch
- * High strength steel wires according to ISO 2232
- * Swaged rope: wear-resistant and low tendency for wire spike generation
- * High radial stiffness, crushing resistant
- * Great resistance to fleet angle deformation (waviness and rope lay length variations)



Support winch, steep slopes

Assisting harvesters and forwarders



SWAGED PRO 6

Nominal Rope Diameter		Apppox. Mass		Minimum Breaking Strength 1960 Grade	
mm	Inch	kg/m	the/ft	kN	
19	3/4	178	1.20	330	
20		1.95	1.33	362	
22		2.35	1.58	436	
	7/8	2.39	1.61	443	
24		2.75	1.85	511	
25		2.97	2.00	551	
	1.0	3.06	2.06	567	
26		3.19	214	592	





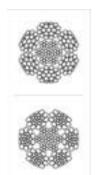
Harvest tower yarder, steep slopes







Nominal Rope Diameter		Apppox. Mass		Minimum Breaking Strength 1960 Grade
mm	Inch	kg/m	lbs/ft	kN
8	5/16	0.383	0.26	72
9		0.466	0.31	87
	3/8	0.514	0.35	95
10		0.558	0.37	103
11	7/16	0.667	0.45	125
12		0.776	0.52	145
	1/2	0.856	0.58	160
13		0.904	0.61	169
14	11.00000	1.03	0.69	193
	9/16	1.07	0.72	198
	5/8	1.29	0.87	239
16		1.31	0.86	242
18		1.61	1.08	299
19	3/4	1.78	1.20	230
20		1.95	1.31	362
22		2.35	158	435



- * Swaged rope with highest MBL and increased contact area rope/sheave and rope/winch
- * High strength steel wires according to ISO 2232
- * Swaged rope: wear resistant and low tendency for wire spike generation
- * High radial stiffness, crushing resistant
- * Great resistance to fleet angle deformation (waviness and rope lay length variations)



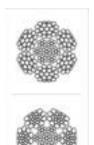
Mobile tower yarder, steep slopes





SWAGED PRO 6

Nominal Rope Diameter		Apppox. Mass		Minimum Breaking Strength 1960 Grade	
mm	Inch	kg/m	lbs/ft	kN	
8	5/16	0.383	0.26	72	
9		0.466	0.31	87	
	3/8	0.514	0.35	95	
10		0.558	0.37	103	
111	7/16	0.667	0.45	125	
12		0.776	0.52	145	
	1/2	0.856	0.58	160	
13		0.904	0.63	169	
14		1.03	0.69	193	
	9/16	1.07	0.72	198	
	5/8	1.29	0.87	239	
16		1.31	0.88	242	
18		1.61	1.08	299	
19	3/4	1.78	1.20	330	
20		1.95	1.31	362	
22		2.35	158	435	



AUTO ASSIST, LOW AND MODERATE SLOPE Harvester & Forwarder



8 STRAND SWAGED

- * Swaged and compacted wire rope, highest MBL
- * High strength steel wires, according to ISO 2232
- * High radial stiffness, crushing resistant
- * Swaged rope: wear-resistant and low tendency for wire spike generation
- * Easy rope handling cutting



SWAGED 8

Nominal Stope Diameter		Apppox. Mass		Minimum Breaking Strength 1960 Orade
mm	Inch	kg/m	Ruft:	kN
12		0.670	0.450	132
	1/2	0.750	0.504	146
13		0.790	0.524	153
14		0.930	0.625	182
	9/16	0.970	0.652	189
	5/8	118	0.793	230
16		139	0.800	233
10		1.52	1.02	296

