

34 STRAND CONSTRUCTION BALANCE ROPE

Features:

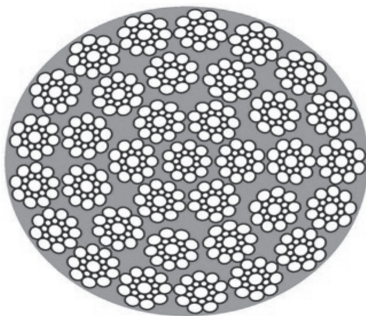
- Balance Rope when Friction Hoist Used
- Rotation Resistant
- 34x7 or 34x17 Construction
- High Flexibility
- High Torsional Stability
- Customizable Mass

Grade Options Wire Finishes

- 1770 N/mm² - Bright
- 1960 N/mm² - Galvanized
- 2160 N/mm² - Zinc Aluminum Alloy

Option:

Plastic Filled and Coated 34x17



For other diameters, weights, or strength requirements, please contact us. Other designs available upon request.

NOMINAL DIAMETER		NOMINAL WEIGHT		MINIMUM BREAKING STRENGTH	
mm	in	kg/m	lb/ft	Force (kN)	Load (lbs)
19	3/4	1.45	0.98	225	50,600
20		1.61	1.08	249	56,000
22		1.95	1.31	302	67,800
	7/8	1.99	1.34	308	69,200
24		2.32	1.56	359	80,700
25		2.52	1.69	389	87,500
	1	2.60	1.75	402	90,400
26		2.72	1.83	421	94,700
28		3.16	2.12	488	110,000
	1-1/8	3.29	2.21	509	114,000
30		3.63	2.44	561	126,000
	1-1/4	4.06	2.73	628	141,000
32		4.13	2.77	638	143,000
34		4.66	3.13	720	162,000
35	1-3/8	4.92	3.30	760	171,000
36		5.22	3.51	807	182,000
38	1-1/2	5.82	3.91	900	202,000
40		6.45	4.33	1000	224,000
41	1-5/8	6.87	4.61	1060	239,000
42		7.11	4.78	1100	247,000
44		7.80	5.24	1210	271,000
	1-3/4	7.96	5.35	1230	277,000
46		8.53	5.73	1320	296,000
48	1-7/8	9.29	6.24	1440	323,000
50		10.1	6.77	1560	350,000
	2	10.4	6.99	1610	361,000
52		10.9	7.32	1680	379,000
54	2-1/8	11.8	7.90	1820	408,000
56		12.6	8.49	1950	439,000
58	2-1/4	13.6	9.10	2100	471,000
60	2-3/8	14.7	9.90	2270	510,000
64	2-1/2	16.5	11.1	2550	574,000
65	2-1/8	17.0	11.4	2630	592,000

Minimum Breaking Strengths shown are for 1960 Grade.

FLAT BALANCE ROPE

Features:

- Balance Rope when Friction Hoist Used
- Guaranteed Service Life
- NDT Suitable
- Very High Cycle Life
- < 18:1 D:d ratio
- Strands Separated by Rubber
- Galvanized Wires

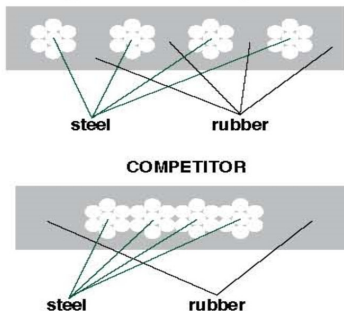


DESCRIPTION	MINIMUM BREAKING STRENGTH (KN)		
	1370 N/mm ²	1570 N/mm ²	1670 N/mm ²
Parameters of rope with cables diameter 12mm			
Min 2, 5-60 x 22/2 x 12	158	183	193
Max 4, 0-105 x 22/2 x 12			
Parameters of rope with cables diameter 14mm			
Min 3, 2-60 x 29/2 x 14	224	250	274
Max 13, 5-212 x 35/8 x 14	896	1000	1000
Parameters of rope with cables diameter 16mm			
Min 4, 1-60 x 29/2 x 16	300	344	365
Max 17, 3-212 x 35/8 x 16	1200	1376	1460
Parameters of rope with cables diameter 18mm			
Min 4, 5-60 x 29/2 x 18	366	419	446
Max 19, 0-212 x 35/8 x 18	1464	1679	1784
Parameters of rope with cables diameter 20mm			
Min 13, 2-170 x 35/4 x 20	858	984	1046
Max 17, 8-212 x 35/6 x 20	1287	1476	1569
Parameters of rope with cables diameter 22mm			
Min 14, 8-170 x 35/4 x 22	1138	1302	1387
Max 20, 5-212 x 35/6 x 22	1707	1953	2080
Parameters of rope with cables diameter 24mm			
Min 21, 5-197 x 35/6 x 24	2017	2242	2460

Other sizes available upon request.

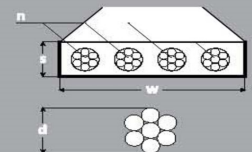
SAG VS COMPETITOR

SAG galvanized steel fully rubberized

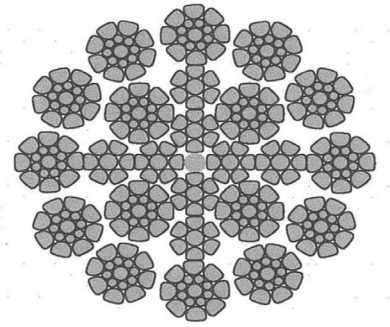


SAG $M - w \times s / n \times d - Rr$, where:

SAG – steel-rubber rope
 M – nominal mass of 1 rope metre (kg/m)
 w – rope width (mm)
 s – rope thickness (mm)
 n – number of vulcanized steel ropes inside SAG type rope
 d – nominal diameter of steel ropes inside SAG type rope (mm)
 R – wires strength (N/mm²)
 $F_{e.c.min}$ – aggregate minimum summary breaking load of rope (kN)
 A – metallic cross-section (mm²)
 F_{min} – minimal breaking load of SAG rope (kN)
 $F_{min} = 0.82 \times F_{e.c.min}$



Tolerances:
 - M (-2%, +2.5%)
 - w (+/- 5%)
 - s (+/- 5%)



CONSTRUCTION 24x17 HOIST, SINKING, OR BALANCE ROPE

Features:

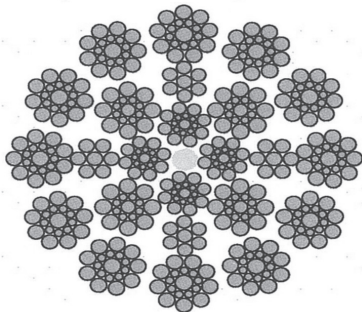
- For Use on Drum or Blair Hoists
- For Use on Friction Hoist (up to 35mm)
- Use as Sinking Rope
- Use as Balance Rope when Not Compacted
- Rotation Resistant
- High Breaking Strength
- Very High Resistance to Fatigue

Grade Options Wire Finishes

- 1770 N/mm² - Bright
- 1960 N/mm² - Galvanized
- 2160 N/mm² - Zinc Aluminum Alloy

Option:

Non-compacted Balance Rope



NOMINAL DIAMETER		NOMINAL WEIGHT		MINIMUM BREAKING STRENGTH	
mm	in	kg/m	lb/ft	Force (kN)	Load (lbs)
30		4.32	2.90	767	172,000
32	1-1/4	4.91	3.30	872	196,000
34		5.55	3.73	984	221,000
36	1-1/2	6.22	4.18	1104	248,000
38		6.94	4.66	1230	276,000
40		7.69	5.17	1364	306,000
42	1-5/8	8.49	5.70	1506	338,000
44		9.33	6.27	1654	371,000
46		10.21	6.86	1810	406,000
48	1-7/8	11.13	7.48	1974	443,000
50		12.09	8.13	2145	482,000
52		13.10	8.80	2323	522,000
54	2-1/8	14.16	9.51	2510	564,000
56		15.25	10.25	2704	607,000
58		16.39	11.01	2906	653,000
60		17.58	11.81	3116	700,000
62		18.81	12.64	3334	749,000
64	2-1/2	20.08	13.50	3560	800,000
66		21.41	14.38	3794	852,000
68		22.77	15.30	4036	907,000
70	2-3/4	24.19	16.25	4287	963,000

Minimum Breaking Strengths shown are for 1960 Grade.

For other diameters, weights, or strength requirements, please contact us. Other designs available upon request.