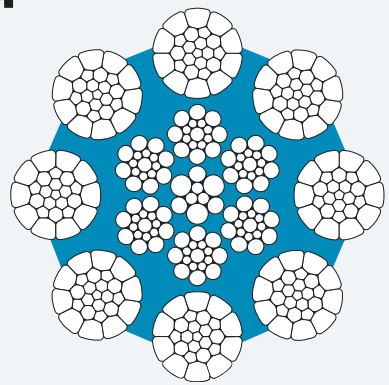
CASAR **TURBOPLAST M**

- High performance mining rope
- 8-strand construction with compacted outer strands
- Fully lubricated
- Plastic layer between steel core and outer strands
- Very high breaking force
- Good resistance to drum crushing
- Available in ordinary (regular) lay or langs lay



IMPROVED DESIGN

PROPERTIES

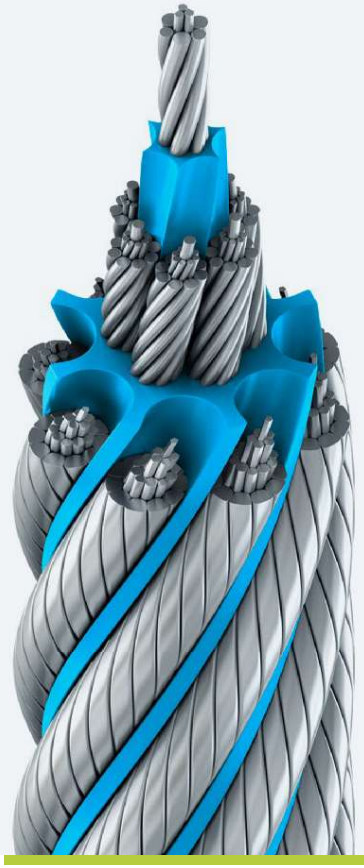
No swivel · Lubricated · Tolerance · Plast rope

Compacted · High Breaking Force · preformed

APPLICATIONS

High performance hoist rope for a wide range of drum and koepe friction winder applications. Rope design and manufacturing parameters are adjusted according to the application, i.e. Turboplast MD and Turboplast MF. Our CASAR Turboplast M with compacted strands offers an excellent fatigue resistance as well as a good resistance to drum crushing.

Drum Winder · Shaft Sinking · Koepe Winder head rope



Nominal Diameter		metallic area		Weight		Aggregate Breaking Force				Minimum Breaking Force			
						1770 N/mm²		1960 N/mm²		1770 N/mm²		1960 N/mm²	
mm	inch	mm²	Sqin	kg/m	lb/ft	kN	lbs	kN	lbs	kN	lbs	kN	lbs
20		207.0	0.3209	1.80	1.21	366.4	82,368	405.7	91,209	310.0	69,691	343.2	77,154
21		228.3	0.3539	1.99	1.34	404.1	90,843	447.5	100,595	341.7	76,817	378.4	85,068
22		250.5	0.3883	2.18	1.46	443.4	99,677	491.0	110,377	375.1	84,326	415.3	93,363
	7/8	255.6	0.3962	2.22	1.49	452.4	101,706	501.0	112,624	382.8	86,057	423.8	95,274
23		273.8	0.4244	2.38	1.60	484.6	108,948	536.6	120,643	409.9	92,149	453.9	102,041
24		298.1	0.4621	2.59	1.74	527.6	118,617	584.3	131,350	446.4	100,355	494.3	111,123
25		323.5	0.5014	2.81	1.89	572.6	128,724	634.1	142,542	484.3	108,875	536.3	120,565
	1	333.9	0.5175	2.90	1.95	591.0	132,863	654.4	147,125	499.9	112,382	553.5	124,432
26		349.9	0.5423	3.04	2.04	619.3	139,229	685.8	154,175	523.9	117,777	580.1	130,412
27		377.3	0.5848	3.28	2.20	667.8	150,132	739.5	166,248	564.9	126,995	625.6	140,640
28		405.8	0.6290	3.53	2.37	718.3	161,473	795.4	178,806	607.6	136,594	672.8	151,251
	1 1/8	422.6	0.6550	3.67	2.47	748.0	168,158	828.3	186,208	632.8	142,259	700.7	157,524
29		435.3	0.6747	3.79	2.55	770.5	173,211	853.2	191,804	651.7	146,508	721.7	162,245
30		465.8	0.7220	4.05	2.72	824.5	185,347	913.0	205,243	697.4	156,782	772.3	173,620
31		497.4	0.7710	4.33	2.91	880.4	197,921	974.9	219,167	744.7	167,415	824.7	185,400
	1 1/4	521.7	0.8086	4.54	3.05	923.4	207,591	1,022.5	229,874	781.1	175,598	865.0	194,460
32		530.0	0.8215	4.61	3.10	938.1	210,893	1,038.8	233,531	793.5	178,386	878.7	197,540
33		563.7	0.8737	4.90	3.29	997.7	224,303	1,104.9	248,381	843.9	189,716	934.5	210,084
34		598.3	0.9274	5.21	3.50	1,059.0	238,071	1,172.7	263,626	895.8	201,384	992.0	223,010
	1 3/8	631.2	0.9784	5.49	3.69	1,117.2	251,162	1,237.2	278,123	945.2	212,489	1,046.7	235,307
35		634.1	0.9829	5.52	3.71	1,122.4	252,316	1,242.8	279,401	949.3	213,411	1,051.2	236,319
36		670.5	1.0393	5.84	3.92	1,186.8	266,800	1,314.2	295,439	1,004.3	225,776	1,112.1	250,010
37		708.6	1.0983	6.16	4.14	1,254.2	281,960	1,388.9	312,227	1,060.9	238,500	1,174.8	264,105
38		747.4	1.1585	6.50	4.37	1,322.9	297,399	1,464.9	329,323	1,119.0	251,561	1,239.1	278,561
	1 1/2	751.3	1.1645	6.53	4.39	1,329.8	298,951	1,472.5	331,042	1,124.8	252,865	1,245.6	280,022
39		787.3	1.2203	6.85	4.60	1,393.5	313,276	1,543.1	346,904	1,178.7	264,982	1,305.2	293,421
40		828.1	1.2836	7.20	4.84	1,465.7	329,511	1,623.1	364,882	1,239.9	278,741	1,373.0	308,663
41		870.1	1.3487	7.57	5.09	1,540.1	346,223	1,705.4	383,388	1,302.7	292,859	1,442.5	324,287
	1 5/8	881.8	1.3668	7.67	5.15	1,560.8	350,879	1,728.3	388,544	1,320.2	296,793	1,461.9	328,648
42		913.0	1.4152	7.94	5.34	1,616.0	363,293	1,789.5	402,291	1,367.0	307,314	1,513.7	340,293
43		957.0	1.4834	8.33	5.60	1,693.9	380,802	1,875.7	421,679	1,432.9	322,129	1,586.7	356,704
44		1,002.1	1.5533	8.72	5.86	1,773.7	398,747	1,964.1	441,551	1,500.3	337,281	1,661.3	373,475
	1 3/4	1,022.7	1.5852	8.89	5.97	1,810.2	406,944	2,004.5	450,628	1,531.1	344,205	1,695.4	381,141
45		1,048.1	1.6246	9.12	6.13	1,855.1	417,051	2,054.3	461,820	1,569.2	352,770	1,737.7	390,650
46		1,095.2	1.6976	9.53	6.40	1,938.5	435,793	2,146.6	482,573	1,639.8	368,642	1,815.8	408,208
47		1,143.4	1.7723	9.95	6.69	2,023.8	454,972	2,241.1	503,811	1,711.8	384,828	1,895.6	426,148
	1 7/8	1,174.0	1.8197	10.21	6.86	2,078.0	467,148	2,301.0	517,294	1,757.6	395,124	1,946.3	437,546
48		1,192.5	1.8484	10.38	6.98	2,110.7	474,510	2,337.3	525,446	1,785.5	401,396	1,977.1	444,470
49		1,242.7	1.9262	10.81	7.26	2,199.6	494,485	2,435.7	547,565	1,860.6	418,279	2,060.4	463,196
50		1,303.7	2.0208	11.26	7.57	2,307.6	518,762	2,555.3	574,448	1,937.3	435,522	2,145.3	482,283
	2	1,345.7	2.0858	11.62	7.81	2,381.9	535,470	2,637.6	592,950	1,999.7	449,550	2,214.4	497,817
51		1,346.3	2.0868	11.71	7.87	2,383.0	535,709	2,638.7	593,214	2,015.6	453,125	2,232.0	501,773
52		1,399.6	2.1694	12.18	8.18	2,477.3	556,917	2,743.2	616,699	2,095.4	471,065	2,320.4	521,647
53		1,453.9	2.2535	12.65	8.50	2,573.4	578,524	2,849.6	640,625	2,176.8	489,364	2,410.5	541,902
	2 1/8	1,507.8	2.3371	13.11	8.81	2,668.8	599,971	2,955.3	664,375	2,257.6	507,529	2,500.0	562,022
54		1,509.3	2.3394	13.13	8.82	2,671.5	600,568	2,958.2	665,036	2,259.7	508,001	2,502.3	562,539
55		1,565.7	2.4268	13.62	9.15	2,771.3	623,010	3,068.8	689,887	2,344.2	526,997	2,595.8	583,559
56		1,623.2	2.5160	14.12	9.49	2,873.1	645,890	3,181.5	715,223	2,430.2	546,331	2,691.1	604,983
57		1,681.7	2.6066	14.63	9.83	2,976.6	669,168	3,296.1	741,000	2,517.8	566,024	2,788.0	626,767
	2 1/4	1,690.5	2.6203	14.70	9.88	2,992.2	672,670	3,313.4	744,877	2,531.0	568,991	2,802.6	630,049
58		1,741.2	2.6989	15.15	10.18	3,081.9	692,844	3,412.8	767,217	2,606.9	586,054	2,886.7	648,956
59		1,801.7	2.7926	15.68	10.54	3,189.0	716,918	3,531.3	793,875	2,697.6	606,444	2,987.1	671,527
60		1,863.3	2.8881	16.21	10.89	3,298.0	741,429	3,652.1	821,017	2,789.8	627,172	3,089.2	694,480
	2 3/8	1,883.5	2.9194	16.39	11.01	3,333.8	749,467	3,691.7	829,918	2,820.1	633,984	3,122.8	702,033
61		1,925.9	2.9851	16.75	11.26	3,408.8	766,338	3,774.8	848,601	2,883.6	648,259	3,193.0	717,815
62		1,989.6	3.0839	17.31	11.63	3,521.6	791,685	3,899.6	876,668	2,978.9	669,683	3,298.6	741,555
63		2,054.3	3.1842	17.87	12.01	3,636.1	817,430	4,026.4	905,177	3,075.8	691,467	3,405.8	765,654
	2 ½	2,087.0	3.2349	18.16	12.20	3,694.0	830,442	4,090.5	919,585	3,124.8	702,483	3,460.1	777,861
64		2,120.0	3.2860	18.44	12.39	3,752.4	843,573	4,155.2	934,126	3,174.2	713,588	3,514.8	790,158
65		2,186.8	3.3895	19.02	12.78	3,870.6	870,153	4,286.1	963,560	3,274.1	736,047	3,625.5	815,045

Product specifications are subject to change without notice or obligation. The shown drawings or cross sections are only for illustrative purposes; the images can vary depending on requested diameter and current status of technical development. This table is for reference only. Additional sizes available upon request.

Special constructions and diameters available – please contact us directly.