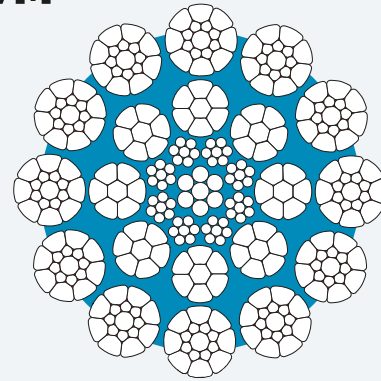
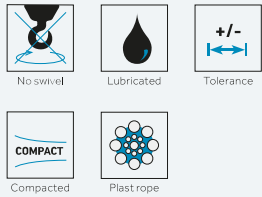


CASAR DOUZEPLAST VM

- High performance mining rope
- Koepe Tail / Balance Rope
- Designed to have a specific unit weight
- Rotation resistant
- Fully lubricated
- Plastic layer between steel core and outer strands
- Available in ordinary (regular) lay or lang's lay
- Available with conventional or with compacted strands

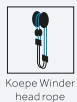


PROPERTIES

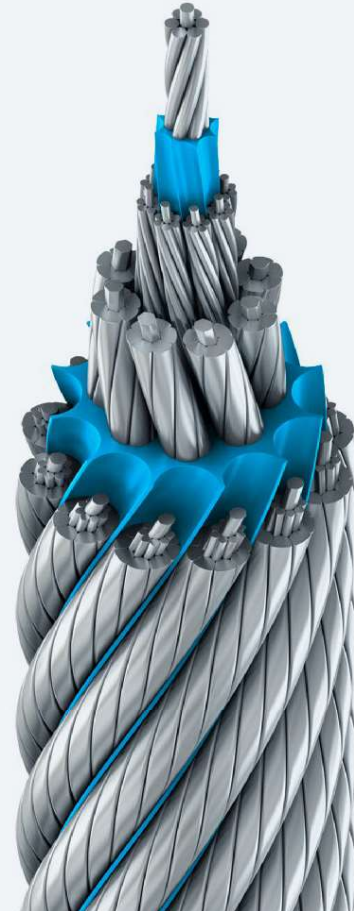


APPLICATIONS

High performance balance (tail) rope for koepe friction winder applications, where rotation-resistant ropes are required. Rope design and manufacturing parameters are adjusted according to the application, i.e. Douzeplast MT and Douzeplast VMT. The Douzeplast VM is a very flexible rope design, providing an excellent resistance to fatigue and corrosion.



Koepe Winder head rope



Nominal Diameter		metallic area		Weight		Aggregate Breaking Force				Minimum Breaking Force			
						1770 N/mm ²		1960 N/mm ²		1770 N/mm ²		1960 N/mm ²	
mm	inch	mm ²	Sqin	kg/m	lb/ft	kN	lbs	kN	lbs	kN	lbs	kN	lbs
20		206.7	0.3204	1.81	1.22	324.5	72,955	365.9	82,248	276.2	62,085	303.7	68,274
21		222.4	0.3447	1.95	1.31	349.1	78,483	393.6	88,481	297.1	66,789	334.8	75,266
22		244.0	0.3783	2.14	1.44	383.2	86,136	432.0	97,108	326.1	73,302	367.5	82,617
	7/8	249.1	0.3860	2.18	1.47	391.0	87,907	440.8	99,105	332.8	74,809	375.1	84,316
23		266.7	0.4134	2.34	1.57	418.8	94,144	472.1	106,137	356.4	80,117	401.6	90,283
24		290.4	0.4502	2.55	1.71	456.0	102,509	514.1	115,567	388.0	87,235	437.3	98,309
25		315.1	0.4885	2.76	1.86	494.8	111,229	557.8	125,398	421.1	94,656	474.5	106,672
	1	325.3	0.5042	2.85	1.92	510.7	114,817	575.8	129,443	434.6	97,709	489.8	110,113
26		340.9	0.5283	2.99	2.01	535.1	120,305	603.3	135,631	455.4	102,380	513.2	115,372
27		367.6	0.5697	3.22	2.17	577.1	129,738	650.6	146,265	491.1	110,407	553.5	124,432
28		395.3	0.6127	3.47	2.33	620.6	139,526	699.7	157,300	528.2	118,736	595.2	133,806
	1 1/8	411.7	0.6382	3.61	2.43	646.4	145,315	728.7	163,827	550.1	123,663	619.9	139,358
29		424.1	0.6573	3.72	2.50	665.8	149,670	750.6	168,736	566.6	127,369	638.5	143,540
30		453.8	0.7034	3.98	2.67	712.5	160,170	805.2	180,574	606.3	136,304	683.3	153,612
31		484.6	0.7511	4.25	2.86	760.8	171,026	857.7	192,812	647.4	145,543	729.6	164,021
	1 1/4	508.3	0.7879	4.46	3.00	798.0	179,401	899.7	202,255	679.1	152,670	765.3	172,053
32		516.3	0.8003	4.53	3.04	810.6	182,238	913.9	205,453	689.8	155,084	777.4	174,766
33		549.1	0.8511	4.82	3.24	862.1	193,805	971.9	218,494	733.6	164,928	826.8	185,872
34		582.9	0.9035	5.11	3.44	915.1	205,729	1,031.7	231,937	778.8	175,076	877.7	197,315
35	1 3/8	615.0	0.9533	5.39	3.62	965.6	217,076	1,088.6	244,728	821.7	184,731	930.0	209,072
36		653.5	1.0129	5.73	3.85	1,026.0	230,644	1,156.7	260,026	873.1	196,278	983.9	221,189
37		690.3	1.0699	6.05	4.07	1,083.7	243,636	1,221.8	274,672	922.3	207,334	1,039.4	233,666
38	1 1/2	731.9	1.1345	6.42	4.31	1,149.1	258,338	1,295.5	291,247	977.9	219,845	1,096.3	246,458
39		766.9	1.1887	6.73	4.52	1,204.1	270,687	1,357.5	305,169	1,024.7	230,355	1,154.8	259,609
40		806.8	1.2505	7.08	4.75	1,266.6	284,746	1,428.0	321,020	1,077.9	242,319	1,214.8	273,098
41		847.6	1.3138	7.43	5.00	1,330.7	299,162	1,500.3	337,271	1,132.5	254,586	1,276.2	286,901
	1 5/8	859.0	1.3315	7.53	5.06	1,348.6	303,188	1,520.5	341,811	1,147.7	258,013	1,293.4	290,763
42		889.5	1.3787	7.80	5.24	1,396.4	313,933	1,574.3	353,924	1,188.4	267,157	1,371.0	308,213
43		932.3	1.4451	8.18	5.49	1,463.7	329,060	1,650.2	370,978	1,245.6	280,030	1,403.8	315,587
44		976.2	1.5131	8.56	5.75	1,532.6	344,543	1,727.8	388,434	1,304.2	293,206	1,469.8	330,424
	1 3/4	996.3	1.5442	8.74	5.87	1,564.1	351,626	1,763.4	396,420	1,331.1	299,234	1,500.0	337,217
45		1,021.1	1.5826	8.95	6.02	1,603.1	360,382	1,807.3	406,291	1,364.2	306,685	1,537.4	345,621
46		1,066.9	1.6538	9.36	6.29	1,675.1	376,577	1,888.5	424,549	1,425.5	320,467	1,606.5	361,155
	1 7/8	1,143.7	1.7727	10.03	6.74	1,795.5	403,653	2,024.3	455,074	1,528.0	343,509	1,722.0	387,123
47		1,113.8	1.7264	9.77	6.56	1,748.7	393,128	1,971.5	443,208	1,488.2	334,552	1,677.1	377,027
48		1,161.7	1.8007	10.19	6.85	1,823.9	410,035	2,056.3	462,268	1,552.2	348,939	1,749.2	393,236
49		1,210.6	1.8765	10.62	7.13	1,900.7	427,297	2,142.8	481,730	1,617.5	363,630	1,822.9	409,804
50		1,260.6	1.9539	11.06	7.43	1,979.1	444,916	2,231.2	501,593	1,684.2	378,624	1,898.0	426,687
	2	1,301.2	2.0169	11.41	7.67	2,042.9	459,267	2,305.2	517,773	1,738.5	390,836	1,959.2	440,451
51		1,311.5	2.0328	11.50	7.73	2,059.0	462,891	2,321.3	521,858	1,752.2	393,920	1,974.7	443,930
52		1,363.4	2.1133	11.96	8.03	2,140.6	481,221	2,413.3	542,523	1,821.6	409,519	2,052.9	461,510
53		1,416.4	2.1954	12.42	8.35	2,223.7	499,908	2,507.0	563,590	1,892.4	425,421	2,132.6	479,427
54	2 1/8	1,469.0	2.2769	12.88	8.66	2,306.3	518,470	2,600.1	584,517	1,962.6	441,218	2,213.9	497,704
55		1,525.3	2.3642	13.38	8.99	2,394.7	538,348	2,699.8	606,928	2,037.9	458,135	2,296.6	516,296
56		1,581.3	2.4509	13.87	9.32	2,482.6	558,103	2,798.8	629,199	2,112.7	474,945	2,380.9	535,248
57		1,638.2	2.5393	14.37	9.65	2,572.0	578,213	2,899.7	651,871	2,188.8	492,059	2,466.7	554,536
	2 1/4	1,646.9	2.5526	14.44	9.71	2,585.6	581,260	2,914.9	655,306	2,200.3	494,652	2,479.7	557,459
58		1,696.2	2.6291	14.88	10.00	2,663.1	598,679	3,002.3	674,944	2,266.3	509,476	2,554.0	574,162
59		1,755.2	2.7206	15.39	10.34	2,755.7	619,501	3,106.7	698,418	2,345.1	527,195	2,642.8	594,125
60		1,815.2	2.8136	15.92	10.70	2,849.9	640,679	3,212.9	722,294	2,425.3	545,218	2,733.2	614,448
	2 3/8	1,834.9	2.8441	16.09	10.81	2,880.8	647,639	3,247.8	730,140	2,451.6	551,140	2,762.9	621,122
61		1,876.2	2.9081	16.45	11.06	2,945.7	662,213	3,320.9	746,571	2,506.8	563,543	2,825.1	635,108
62		1,938.2	3.0043	17.00	11.42	3,043.0	684,103	3,430.7	771,250	2,589.6	582,172	2,918.4	656,082
63		2,001.3	3.1020	17.55	11.79	3,142.0	706,349	3,542.3	796,329	2,673.8	601,103	3,013.3	677,417
	2 1/2	2,033.2	3.1514	17.83	11.98	3,192.1	717,605	3,598.7	809,020	2,716.4	610,682	3,061.3	688,212
64		2,065.3	3.2012	18.11	12.17	3,242.5	728,950	3,655.6	821,810	2,759.4	620,337	3,109.8	699,111
65		2,130.4	3.3020	18.68	12.55	3,344.7	751,908	3,770.7	847,693	2,846.3	639,874	3,207.7	721,120

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