



Diepa[®]

MINING ROPES



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DIEPA MINING ROPES – QUALITY MADE IN GERMANY

For decades DIEPA has been acknowledged as the leading brand of high-performance wire rope for use in the most demanding lifting and specialist applications.

Moreover, the outstanding quality and performance of DIEPA special wire ropes has provided opportunities for our valued customers to benefit from reduced total cost of ownership (TCO), thus underlining the continued acceptance and appreciation of our products in multiple fields of use around the world.

With optimised rope constructions for the mining sector we offer our expertise gained over the years to designers, operators and users of draglines, shovels, mine shafts and other related high duty equipment and applications.



DIEPA MINING ROPES

Manufactured according to international standards DIN EN 12385 and ISO 3154. Design, breaking force and weight will be adjusted to the individual requirements.

DIEPA MX AND ML SERIES

ROPE CONSTRUCTION

Our 8- and 10-strand ropes offer high longevity and best durability against bending fatigue. These advantages are based on parallel lay strands combined with well-engineered rope design. Suitable for both single- and multi-layer applications.

ROPES CONTAINING PLASTIC

For decades now DIEPA has manufactured special wire ropes containing plastic, too. Only ultra-modern plastics such as polyamide 12 are employed.

ROPE LUBRICANT

Intensive impregnation of all rope components with lubricant during manufacture serves to inhibit the onset of internal corrosion, something especially important for prolonged service. In case of friction based applications, our ropes are equipped with a special coating offering high friction coefficients.

WIRE MATERIAL

DIEPA only processes exceptionally high-quality wire materials which go far beyond the requirements stipulated by the relevant standards. Besides bright or galvanized wires, the coating can be of aluminium-zinc to fulfil special corrosion resistance requirements.

ROPE CONSTRUCTION

Based on our successful rotation resistant rope series these ropes offer excellent non-spin characteristics. The combination of a compact rope structure and rugged outer strands make them most suitable for multi-layer coiling.

SERVICE

Our experts can provide specialist on-site inspection services using the most up to date criteria as detailed in ISO 4309.

AVAILABILITY

Our well-stocked warehouse allows us to react rapidly to a varied customer demand. Even tailor-made ropes can be realised quickly due to our huge wire stock and our customer-oriented production planning.

DIEPA MB SERIES



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SURFACE MINING



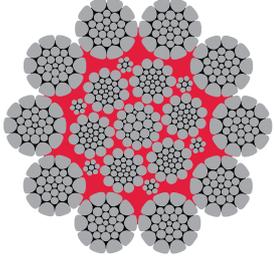
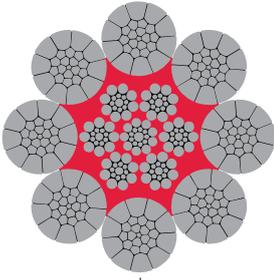
Draglines



Rope Shovels



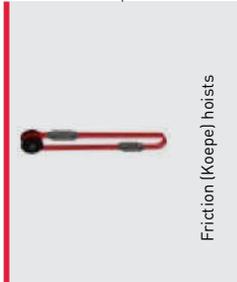
Blast Rigs



DIEPA MX-SERIES
DIEPA ML-SERIES
Non-rotation-resistant

Special wire ropes
optimised for various
mining applications

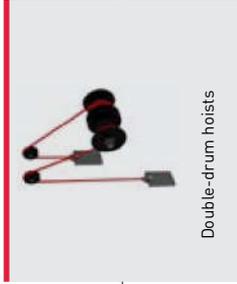
SHAFT MINING | Up to 450 meters shaft depth



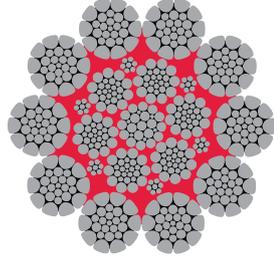
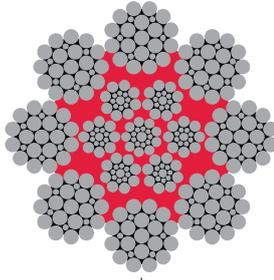
Friction (Koepe) hoists



Friction (Koepe) hoists
with diverter sheave



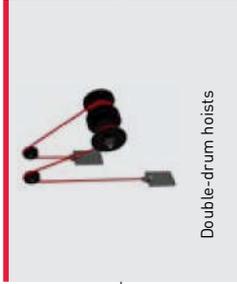
Double-drum hoists



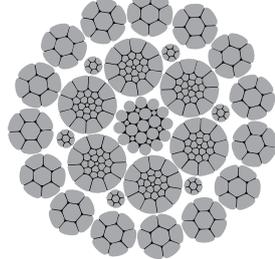
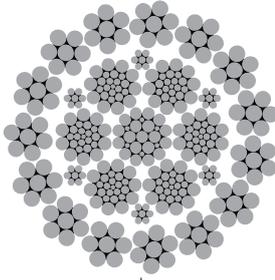
Friction (Koepe) hoists



Friction (Koepe) hoists
with diverter sheave



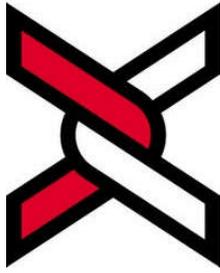
Double-drum hoists



DIEPA MB-SERIES
Rotation-resistant

Special wire ropes
optimised for deep shaft
mining (>450 meters)

SHAFT MINING | Beyond 450 meters shaft depth



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DIEPA MB-SERIES

DIEPA MB4
DIEPA MB5
DIEPA MB6
DIEPA MB7

DIEPA MB4
DIEPA MB5
DIEPA MB6
DIEPA MB7



PRODUCT DIEPA MB4

- PROPERTIES**
- Rotation resistant
 - Non-compacted outer strands
 - Optimised for longevity

TECHNICAL DATA
Load-bearing wires
in the outer strands

105	Ø 15-49mm	RCN.23-2
255	Ø 50-99mm	RCN.27
540	Ø 100-120mm	RCN.31

fill factor 0,6511
spinning loss factor 0,7800

PRODUCT DIEPA MB5

- PROPERTIES**
- Rotation resistant
 - Compacted outer strands
 - High breaking force

TECHNICAL DATA
Load-bearing wires
in the outer strands

105	Ø 15-49mm	RCN.23-2
255	Ø 50-99mm	RCN.27
540	Ø 100-120mm	RCN.31

fill factor 0,7145
spinning loss factor 0,8350

PRODUCT DIEPA MB6

- PROPERTIES**
- Rotation resistant
 - Compacted outer and inner strands
 - Very high breaking force

TECHNICAL DATA
Load-bearing wires
in the outer strands

105	Ø 15-49mm	RCN.23-2
208	Ø 50-70mm	RCN.27

fill factor 0,7357
spinning loss factor 0,8450

PRODUCT DIEPA MB7

- PROPERTIES**
- Rotation resistant
 - Compacted outer and inner strands
 - Extremely high breaking force
 - Optimised for reaking force

TECHNICAL DATA
Load-bearing wires
in the outer strands

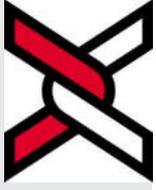
105	Ø 15-49mm	RCN.23-2
208	Ø 50-70mm	RCN.27

fill factor 0,7550
spinning loss factor 0,8450

- For tailor-made rope constructions, please contact our technical department.
- Ropes will be modified and optimised to suit your application.
- Diameters and rope grades not listed on request.

Diameter mm	Weight kg/100m	Min. breaking force kN/100m	Weight kg/100m	Min. breaking force kN/100m	Weight kg/100m	Min. breaking force kN/100m
16	115	127	44,200	128	231	519,00
17	118	130	44,700	130	235	527,00
18	122	134	45,500	134	241	536,00
19	126	138	46,400	138	246	545,00
20	130	142	47,400	142	252	555,00
21	135	147	48,500	147	258	565,00
22	140	152	49,700	152	264	575,00
23	145	157	51,000	157	271	586,00
24	150	162	52,400	162	278	597,00
25	155	167	53,900	167	285	608,00
26	160	172	55,500	172	292	619,00
27	165	177	57,200	177	299	630,00
28	170	182	59,000	182	307	641,00
29	175	187	60,900	187	314	652,00
30	180	192	62,900	192	322	663,00
31	185	197	65,000	197	330	674,00
32	190	202	67,200	202	338	685,00
33	195	207	69,500	207	346	696,00
34	200	212	71,900	212	354	707,00
35	205	217	74,400	217	362	718,00
36	210	222	77,000	222	370	729,00
37	215	227	79,700	227	378	740,00
38	220	232	82,500	232	386	751,00
39	225	237	85,400	237	394	762,00
40	230	242	88,400	242	402	773,00
41	235	247	91,500	247	410	784,00
42	240	252	94,700	252	418	795,00
43	245	257	98,000	257	426	806,00
44	250	262	101,400	262	434	817,00
45	255	267	104,900	267	442	828,00
46	260	272	108,500	272	450	839,00
47	265	277	112,200	277	458	850,00
48	270	282	116,000	282	466	861,00
49	275	287	119,900	287	474	872,00
50	280	292	123,900	292	482	883,00
51	285	297	128,000	297	490	894,00
52	290	302	132,200	302	498	905,00
53	295	307	136,500	307	506	916,00
54	300	312	140,900	312	514	927,00
55	305	317	145,400	317	522	938,00
56	310	322	150,000	322	530	949,00
57	315	327	154,700	327	538	960,00
58	320	332	159,500	332	546	971,00
59	325	337	164,400	337	554	982,00
60	330	342	169,400	342	562	993,00
61	335	347	174,500	347	570	1004,00
62	340	352	179,700	352	578	1015,00
63	345	357	185,000	357	586	1026,00
64	350	362	190,400	362	594	1037,00
65	355	367	195,900	367	602	1048,00
66	360	372	201,500	372	610	1059,00
67	365	377	207,200	377	618	1070,00
68	370	382	213,000	382	626	1081,00
69	375	387	218,900	387	634	1092,00
70	380	392	224,900	392	642	1103,00
71	385	397	231,000	397	650	1114,00
72	390	402	237,200	402	658	1125,00
73	395	407	243,500	407	666	1136,00
74	400	412	250,000	412	674	1147,00
75	405	417	256,600	417	682	1158,00
76	410	422	263,300	422	690	1169,00
77	415	427	270,100	427	698	1180,00
78	420	432	277,000	432	706	1191,00
79	425	437	284,000	437	714	1202,00
80	430	442	291,100	442	722	1213,00
81	435	447	298,300	447	730	1224,00
82	440	452	305,600	452	738	1235,00
83	445	457	313,000	457	746	1246,00
84	450	462	320,500	462	754	1257,00
85	455	467	328,100	467	762	1268,00
86	460	472	335,800	472	770	1279,00
87	465	477	343,600	477	778	1290,00
88	470	482	351,500	482	786	1301,00
89	475	487	359,600	487	794	1312,00
90	480	492	367,800	492	802	1323,00
91	485	497	376,100	497	810	1334,00
92	490	502	384,500	502	818	1345,00
93	495	507	393,000	507	826	1356,00
94	500	512	401,600	512	834	1367,00
95	505	517	410,300	517	842	1378,00
96	510	522	419,100	522	850	1389,00
97	515	527	428,000	527	858	1400,00
98	520	532	437,100	532	866	1411,00
99	525	537	446,300	537	874	1422,00
100	530	542	455,600	542	882	1433,00
101	535	547	465,100	547	890	1444,00
102	540	552	474,700	552	898	1455,00
103	545	557	484,400	557	906	1466,00
104	550	562	494,200	562	914	1477,00
105	555	567	504,100	567	922	1488,00
106	560	572	514,200	572	930	1499,00
107	565	577	524,400	577	938	1510,00
108	570	582	534,700	582	946	1521,00
109	575	587	545,200	587	954	1532,00
110	580	592	555,800	592	962	1543,00
111	585	597	566,500	597	970	1554,00
112	590	602	577,400	602	978	1565,00
113	595	607	588,400	607	986	1576,00
114	600	612	599,600	612	994	1587,00
115	605	617	610,900	617	1002	1598,00
116	610	622	622,300	622	1010	1609,00
117	615	627	633,900	627	1018	1620,00
118	620	632	645,600	632	1026	1631,00
119	625	637	657,400	637	1034	1642,00
120	630	642	669,300	642	1042	1653,00

RCN=RCN. The rope is made from galvanized steel wires. The dimensions are technical and in mm. The actual values depend on the rope diameter. We reserve the right to modify the specifications without notice.



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ROPE TERMINATIONS FOR INSTALLATION

Tailor-made rope terminations for installation meeting the requirements of ISO 16841



PULLING EYES

- Available in various designs and sizes
- **For single use**
- Marked with save work load limit according to **ISO 16841**



BECKET LOOPS

- Tailor-made rope terminations
- **For single use**
- Tested to determine the save work load limit according to **ISO 16841**



DIEPA EASY REEVE SYSTEM

- Combined rope termination **for installation and permanent use!**



WEDGE SOCKETS

- **80%** rope breaking force efficiency
- Execution according to **EN 13411-6/7**



SWAGINGS

- Executed with aluminium or steel ferrule
- **90%** rope breaking force efficiency
- Execution according to **EN 13411-3**



SOCKETING

- Executed with resin or molten metal
- **100%** rope breaking force efficiency
- Execution according to **EN 13411-4**

ROPE TERMINATIONS FOR PERMANENT USE

Tailor-made rope terminations for permanent use according to EN 13411

For more information see our separate brochure!



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