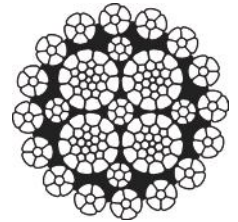




EVOLUTION TK 17

EVOLUTION TK 17 achieves highest breaking forces and is particularly well suited for challenging lifting operations involving multilayer winding. Its amazingly high flexibility was accomplished through its EVOLUTION TK design and by using a special manufacturing process.



PRODUCT ADVANTAGES

HIGH FLEXIBILITY

To ensure perfect spooling on the drum from the first layer on, it is essential that the rope be highly flexible. Especially in multilayer winding scenarios, the rope must spool flawlessly right from the start to ensure smooth operation. In order to keep the rope from being driven into and damaging the respective lower rope layer when loaded, the rope must also provide for highest dimensional stability under lateral pressure. Both of these necessary characteristics were combined in the rope's 2-layer EVOLUTION design and by means of our SUPERFILL® compaction method.

Advantages for the customer

- perfect spooling
- trouble-free operation
- easier installation and reeving of the ropes due to their high flexibility

HIGH RESISTANCE AGAINST EXTERNAL TORSION

The rope's resistance to external torsion caused, for example, by lateral deflections is crucial in order to keep the rope's geometry constant. This enables the rope to maintain its outstanding rotation resistance throughout its entire service life.

Through its 2-layer structure (outer strands and novel core design), EVOLUTION TK 17 optimizes this fundamental characteristic of a hoisting rope and guarantees safe lifting and lowering operations, even for great lifting heights.

Advantages for the customer

- no rotation, not even in the case of great lifting heights
- trouble-free lifting and lowering of loads
- accurate positioning of loads

HIGHEST WEAR RESISTANCE

Our EVOLUTION TK series achieves highest wear resistance by using thicker outer wires and by SUPERFILL® compacting every single strand.

Advantages for the customer

- highest wear resistance in multilayer winding
- excellent service life

SPECIFICATIONS

Regular lay

12-42 mm: 16 x K7 - PIWRC(K)

Rope grade: 1770 / 1960 / 2160 N/mm²

Number of wires in outer strands: 112



SUPERFILL® PLASTIFILL™





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Nominal Ø mm (inch)	Weight kg/m	Minimum breaking force kN		
		1770	1960	2160
10	0,48	82,0	91,0	98,0
12,00	0,72	120,0	133,0	144,0
13,00	0,83	141,0	156,0	170,0
14,00 (=9/16")	0,97	163,0	181,0	197,0
15,00	1,11	188,0	208,0	226,0
16,00 (=5/8")	1,27	214,0	236,0	257,0
17,00	1,42	241,0	267,0	290,0
18,00	1,61	271,0	300,0	325,0
19,00 (=3/4")	1,78	302,0	334,0	362,0
20,00	2,02	338,0	374,0	401,0
21,00	2,23	373,0	413,0	444,0
22,00 (7/8")	2,39	408,0	452,0	487,0
23,00	2,61	445,0	493,0	533,0
24,00	2,83	483,0	535,0	580,0
25,00	3,11	524,0	580,0	624,0
25,40 (=1")	3,16	527,0	584,0	628,0
26,00	3,34	567,0	627,0	675,0
27,00	3,61	609,0	674,0	725,0
28,00	3,89	655,0	725,0	780,0
28,57 (=1 1/8")	3,91	659,0	730,0	785,0
29,00	4,14	701,0	777,0	835,0
30,00	4,49	749,0	830,0	893,0
32,00 (= 1 1/4")	5,04	853,0	944,0	1.016,0
34,00	5,62	958,0	1.061,0	1.141,0

EVOLUTION TK 17 Technical Data

NOTE

Our rope recommendations are non-binding empirical values. Please be sure to take the special characteristics of your installation into account. Do not hesitate to contact us. We will help you find the best possible rope solution for your needs.

Langs lay ropes may be used with multi-layer winding (on the drum) only, or they must be subjected to periodical checks by an expert.

Other diameters are available on request.

WARNING

Using these products may prove hazardous. Therefore, never use our products for purposes other than those they were designed for. Customers must ensure that all persons using these products are familiar with their correct use and the related necessary safety precautions. Please bear in mind that any of these products may inflict harm when used incorrectly or subjected to excessive loads.

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