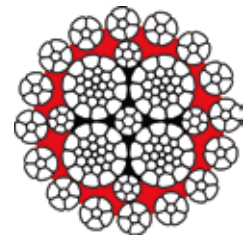


# TK 16 EVOLUTION



**Revolutionary design**, high-quality materials and perfectly coordinated production processes – the new TK 16 EVOLUTION combines all the characteristics your application requires: highest breaking forces AND high flexibility.



## YOUR BENEFIT

### > Highest breaking forces worldwide

This new type of rope structure and the SUPERFILL® compaction technology provide highest breaking forces worldwide for strand-compacted ropes. This results in increased safety when in operation.

### > Lowest twist at high torsion stability

The excellent torsion behavior of this rope facilitates the easy transportation of loads.

### > Higher flexibility

The flexibility of this rope facilitates optimal spooling conditions for multi-layer winding enabling extremely challenging lifting operations to be performed. The rope also absorbs high dynamic strain.

### > Longer service life, increased profitability

The structure of this rope is intended for long-term use. And, by further improving the process of production the high quality of our hoist rope production has been increased. The PLASTIFILL™ insert between the inner rope and outer strands provides additional protection against corrosion and ensures outstanding resistance against extreme environmental conditions. Your decision to choose TK 16 EVOLUTION affirms increased productivity, long-term cost reduction and added competitiveness.

## FIELD OF APPLICATION

**Hoist rope** for all crane installations such as:

- offshore cranes
- shipboard cranes
- cable-dredgers
- special civil engineering facilities
- and more

## SPECIFICATIONS

MULTI-LAYER WINDING

Ordinary lay (also available in Lang's lay), right or left lay,  
12-30 mm: 16 x K6 - EPIWRC(K), 32-42 mm: 16 x K7 -  
EPIWRC(K) Grades: 1770 / 1960 / 2160 N/mm<sup>2</sup>, Number of wires  
in the outer strands: 96 (12-30 mm), 112 (32-42 mm)



SUPERFILL®

PLASTIFILL™



Nominal Ø mm (=inch)	Weight*		Minimum breaking force					
	kg/m	lb/ft	1770 N/mm <sup>2</sup>		1960 N/mm <sup>2</sup>		2160 N/mm <sup>2</sup>	
			kN	lbs	kN	lbs	kN	lbs
8	0,34	0,23	54	12.140	59	13.264	64	14.388
10	0,5	0,33	82	18.434	91	20.458	98	22.031
12	0,74	0,50	120	26.977	133	29.900	144	32.373
13	0,86	0,58	141	31.698	156	35.070	170	38.218
14	1,01	0,68	163	36.644	181	40.691	197	44.288
15	1,16	0,78	194	43.613	215	48.334	231	51.931
16 (=5/8")	1,33	0,89	221	49.683	244	54.854	263	59.125
17	1,50	1,01	241	54.179	267	60.024	290	65.195
18	1,68	1,13	279	62.721	309	69.466	333	74.862
19 (=3/4")	1,85	1,24	312	70.140	345	77.559	371	83.405
20	2,08	1,39	338	75.985	374	84.079	401	90.149
21	2,25	1,51	373	83.853	413	92.847	444	99.816
22 (=7/8")	2,51	1,69	408	91.722	452	101.614	487	109.482
22,23	2,54	1,70	426	95.768	472	106.110	506	113.754
23	2,75	1,85	445	100.040	493	110.831	533	119.824
24	2,96	1,99	483	108.582	535	120.273	580	130.390
25	3,15	2,12	537	120.722	595	133.762	639	143.654
25,40	3,31	2,23	541	121.621	599	134.661	644	144.778
26	3,48	2,34	567	127.466	627	140.956	675	151.747
27	3,77	2,53	609	136.908	674	151.522	725	162.987
28	4,05	2,72	655	147.249	725	162.987	780	175.352
28,57	4,14	2,78	668	150.172	740	166.359	796	178.949
29	4,27	2,87	701	157.590	777	174.677	835	187.716
30	4,62	3,1	749	168.381	830	186.592	893	200.755
32 (=1 1/4")	5,24	3,52	853	191.763	944	212.221	1.016	228.407
34 (=1 3/8")	5,90	3,97	958	215.368	1.061	238.523	1.141	256.508
36	6,65	4,46	1.072	240.996	1.187	266.849	1.277	287.082
38 (=1 1/2")	7,35	4,94	1.237	278.090	1.369	307.765	1.472	330.920
40	8,13	5,46	1.317	296.075	1.458	327.773	1.568	352.502
42 (=1 5/8")	8,97	6,03	1.452	326.424	1.608	361.494	1.729	388.696

## TK 16 EVOLUTION Technical Data

### **⚠ ATTENTION**

Our rope recommendations are non-binding but based on many years of experience. Please note the special characteristics of your system and contact us to find the best rope for you. Subject to technical changes as well as written and print errors.  
\* Langs lay ropes may only be used for multi-layer winding (on the drum) or must be subjected to regular, non-destructive testing procedures.

Further diameters upon request

\*including plastic