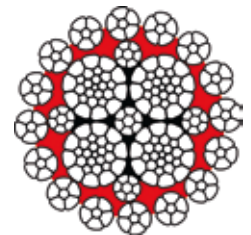




TK 16 EVOLUTION

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/mm², 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 ² | | 1960 N/mm ² | | 2160 N/mm ² | |
| | | | 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

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