



HOISTING ROPE FOR OFFSHORE  
AND SHIP CRANES

# EVOLUTION TK18

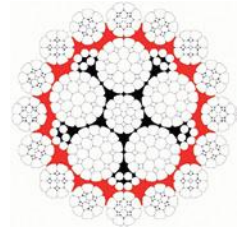


TOGETHER IN MOTION



# EVOLUTION TK18

The **EVOLUTION TK18** is our new high-performance rope for large cranes, e.g. in the offshore and shipping industry. EVOLUTION TK18 has been developed for cranes which operate under hardest conditions. This rope offers best in class breaking forces, a high flexibility and is the first choice for larger diameters between 44 and 70 mm.



## PRODUCT ADVANTAGES

### HIGH FLEXIBILITY

Even in larger diameters this rope is very flexible and enables optimal spooling results for multi-layer winding enabling extremely challenging lifting operations to be performed.

#### Advantages for the customer

- Optimal spooling results
- Easier handling during mounting
- Smooth operations during extremely challenging lifting operations

### NEW ROPE STRUCTURE (1)

Due to the new rope structure of the innovative EVOLUTION TK18 resistance to prevent internal damages is increased.

Due to our innovative PLASTFILL™ and SUPERFILL® technology very high minimum breaking forces can be achieved. At the same time the constriction pressure on the inner rope is, in comparison with other constructions, reduced.

#### Advantages for the customer

- Longer service Life – this helps cutting costs and increasing profitability
- Highest breaking forces increases the safety factor
- Constant MBF during operation

## SPEZIFICATIONS

Ordinary lay (also available in lang's lay), left or right lay

44 - 70 mm: 16 x K17F - EPIWRC(K), RCN 27

Rope grade: 1960

Number of wires in the outer strands: 272

SUPERFILL®

PLASTFILL™

MULTI-LAYER WINDING



### LOWEST TWIST AT HIGH TORSIONAL STABILITY

For large cranes the rotation resistance of a rope becomes even more important. The new EVOLUTION TK18 is the perfect solution which offers lowest twist in its class.

#### Advantages for the customer

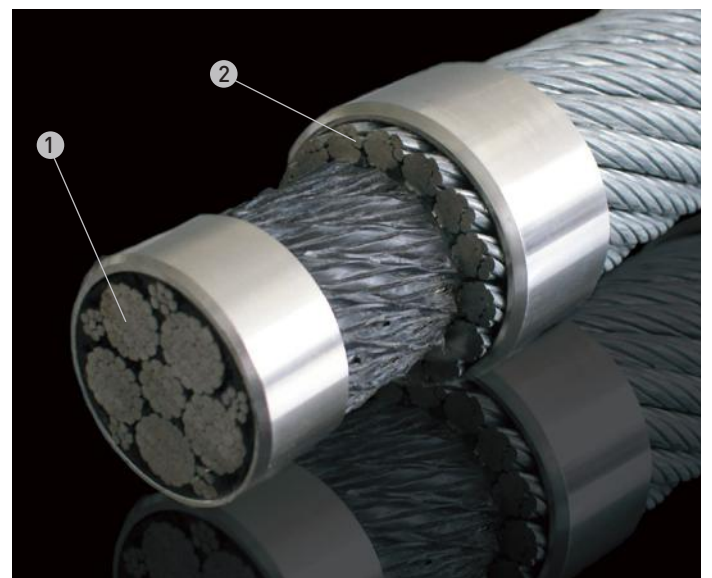
- Lowest twist in its class ensures safe and efficient handling

### HIGHEST WEAR RESISTANCE (2)

This is achieved by using outer wires with bigger diameters and compacting every single strand using the SUPERFILL® Technology

#### Advantages for the customer

- Longer service life – this helps cutting costs and increasing profitability
- Excellent suitability for heave compensation (only regular lay ropes)



# EVOLUTION TK18



**Demanding the highest and permanent use** in extreme environmental conditions is characteristic for offshore cranes, subsea winches and ship cranes. High device disposability is very important far away from the coast, while safety and reliability are crucial factors for both crane manufacturers and the steel wire ropes in use. TEUFELBERGER ropes serve to demonstrate these factors daily on numerous platforms all over the world.

Nominal Ø [mm]	Weight in air [kg/m]	Weight submerged [kg/m]	Rope Grade 1960	
			MBF [kN]	MBF [metr. to]
44	9,75	8,29	1.781	182
46	10,60	9,04	1.946	198
48	11,10	9,42	2.114	216
50	12,50	10,66	2.299	234
52	13,50	11,56	2.487	254
54	14,30	12,20	2.683	274
56	15,50	13,11	2.884	294
58	16,55	14,06	3.094	315
60	17,56	15,00	3.311	338
62	18,90	16,04	3.536	360
64	20,00	17,06	3.767	384
66	21,25	18,12	4.007	408
68	22,50	19,19	4.253	434
70	23,86	20,36	4.507	459

## **WARNING**

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.

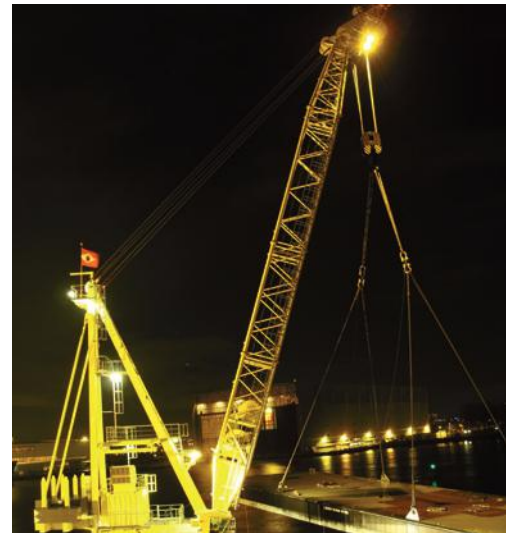
Further diameters upon request

## **WARNING**

Using the products may be dangerous. Our products must not be used for other than the intended purposes. The customer has to ensure that the user is familiar with the correct application and the necessary precautions. Please bear in mind that every product may cause damage when used improperly or when overstressed.

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## YOUR BENEFIT WITH TEUFELBERGER:

### EXPERTISE

Our special steel wire ropes are designed for fulfilling the requirements of your application in an optimal way.

### HIGHEST QUALITY

Only high-strength material and state-of-the-art production processes are used for our products.

### SERVICE AROUND THE CLOCK

Our 24-hour hotline and top service team ensure that our experts are available within the shortest time possible wherever required. 24-hour hotline: +43 (0) 7242-615-388

### EXPERT CONSULTANCY

TEUFELBERGER's network of consultants ensures that expert support is close to you.

Our staff is especially trained for your application which translates into cooperative development of the most useful answer to any problems which may occur.

### DELIVERY RELIABILITY

TEUFELBERGER's management of orders ensures optimal processing in production and logistics.

### RESEARCH AND DEVELOPMENT

Our R&D department provides permanent product improvement in terms of safety, reliability and service life.

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