

Hoisting winches

for knuckle boom and telescopic cranes

Content

1. Who we are	03
2. Crane applications	05
2.1 Telescopic cranes	06
2.2 Knuckle boom cranes	08
2.3 Accessories for knuckle boom cranes	10

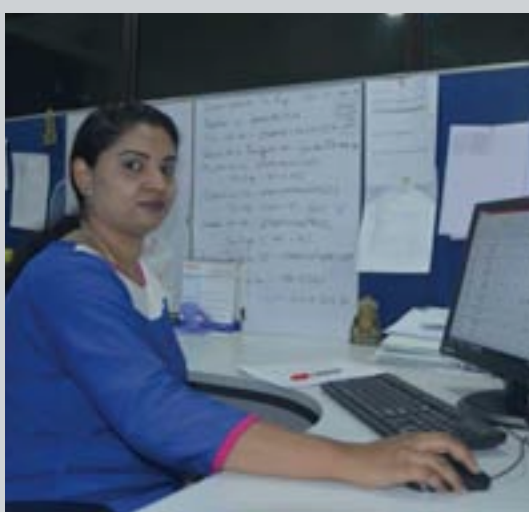


For 100 years, ROTZLER has stood for reliable hoisting and pulling winch technology. Competent, resolute, and innovative.





WHO WE ARE



ROTZLER – a 100-Year Success Story

ROTZLER – synonymous for groundbreaking winch technology

For 100 years, ROTZLER has stood for groundbreaking hoisting and pulling winch technology that customers can rely on even under the most difficult conditions. To keep this promise, our developers and engineers test the reliability of our products, in our unique test center in Steinen, Germany. Operators from around the world rely on ROTZLER's winches and individual system solutions when dependability is crucial, whether for recovery and rescue services, the construction industry, defense technology, the marine industry, or drilling equipment.

Learn all about who we are, what we do, and how we do it. And discover why our partnership with our clients is always our number one priority.

Leader in innovation: our mission for over 100 years

In 1919, Ernst Rotzler started a smithy in Steinen that shod horses and repaired agricultural machinery. From the very start, our company founder listened closely to his clients – and developed to meet their requirements. He optimized their hay elevators and manure cranes and shifted his focus to developing and manufacturing reliable rope winch technology.

Our motivation comes from the desire to optimally satisfy customer needs, and that continues to be the inspiration for our leading technology.

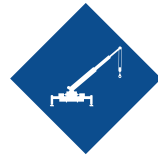
Winches and system solutions

Today, ROTZLER is a leader in hydraulic winches and system solutions for mobile applications. As an independent, owner-managed company, we stand for the values that are typical of the small business sector. Customer care, reliability, trustworthiness, and an innovative spirit.



CRANE APPLICATIONS





Telescopic cranes

At ROTZLER we build winches for a wide range of applications, including telescopic cranes. We focus on the highest quality and reliability in all our products. Lifelong. Each winch is tested before delivery to ensure that it meets the required performance data such as hoisting force or rope speed, without compromise.

For various crane sizes, corresponding winches are available, tailored to the different hoisting force classes of telescopic cranes to best match for your boom.

In addition to the performance data, the dimensions of the winch for integration on the crane arm are of decisive importance for the telescopic crane. Winches that are too wide are difficult to place on the crane. The extreme compactness of the TITAN, which is also supported by the motors specially developed by ROTZLER, are setting the standard in this application.

- ◆ Based on its compact design, the TITAN fits nicely on the boom of the crane and gives maximum flexibility regarding installation possibilities.
- ◆ The light weight of the winch allows easier handling, and gives low impact on gross weight.
- ◆ Short delivery times give our customers the greatest possible flexibility.
- ◆ Motor options are available for perfect alignment with the hydraulic system of the crane.
- ◆ The TITAN is shipped installation ready, to minimize handling and maximize productivity.
- ◆ All winches are performance tested – certification available upon request.



The following table gives an initial overview of the TITAN hoist winches available.

ROTZLER TITAN		TI 1	TI 2	TI 4	TI 5
Hoisting force in kN [lbf]	1st Layer	12,5 [2,850]	26,0 [5,900]	45,0 [10,100]	55,0 [12,300]
	Top Layer	9,5 [2,200]	19,0 [4,400]	33,0 [7,800]	43,0 [9,300]
Rope speed in m/min [ft/min]	1st Layer	42 [138]	42 [139]	47 [155]	46 [152]
	Top Layer	55 [179]	58 [184]	63 [199]	59 [198]

Our product brochure will provide all the details about the technical data and all features and available options of the ROTZLER TITAN hoisting winches. Or reach out for our website www.rotzler.com to configure your ROTZLER TITAN straight.



ROTZLER TITAN TI 2 standard winch with plain drum



Knuckle boom cranes

Our hoisting winches are also used on knuckle boom cranes. Here the TITAN hoist winch technology is characterized by its reliability and the compact design, which is second to none.

The TITAN fits perfectly under the arm of the knuckle boom crane, without any interfering edges, for example due to a protruding motor. The compact design allows the winch to be positioned under the articulated arm without any problems. The sophisticated technology enables very precise positioning of the load. This offers reliable use of the TITAN even when installing glass windows.

- ◆ Adding a winch is expanding the reach and flexibility of your knuckle boom crane massively.
- ◆ The multitude of available options allow to perfectly match your TITAN to the knuckle boom crane.
- ◆ The low weight of the winch allows easy handling and reduces the impact on overall weight.



- ◆ Combination of ROTZLER winch motor, counterbalance valve and hydraulic brake allows precise positioning of the load.
- ◆ Various controls, such as rope end or load measurement, allow maximum safety during winch operation.
- ◆ Short delivery times provide greatest possible flexibility.

The following table gives an initial overview of the TITAN hoist winches available.

ROTZLER TITAN		TI 1	TI 2	TI 4	TI 5
Hoisting force in kN [lbf]	1st Layer	12,5 [2,850]	26,0 [5,900]	45,0 [10,100]	55,0 [12,300]
	Top Layer	9,5 [2,200]	19,0 [4,400]	33,0 [7,800]	43,0 [9,300]
Rope speed in m/min [ft/min]	1st Layer	42 [138]	42 [139]	47 [155]	46 [152]
	Top Layer	55 [179]	58 [184]	63 [199]	59 [198]

Our product brochure will provide all the details about the technical data and all features and available options of the ROTZLER TITAN hoisting winches. Or reach out for our website www.rotzler.com to configure your ROTZLER TITAN straight.



ROTZLER TITAN TI 1 with optional grooved drum





Accessories for the **ROTZLER TITAN**

ROTZLER offers a portfolio of accessories specially tailored to the TITAN hoist winches for use on knuckle boom cranes. ROTZLER thus offers everything you need for winch operation on the knuckle boom cranes.

Regardless of single line or double line operation, ROTZLER offers the full set of accessories for our TITAN range. For single line operation, top rollers, hook weights, hooks and ropes are available. In addition to that, to allow double line hoisting, hookweights with snatch blocks and related hooks are available as well.



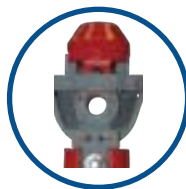
Top roller

To deflect the rope at the crane tip, we offer appropriate top rollers for each winch size. They are equipped with a stop that prevents the wire rope from being pulled in too far. This stop can also be used in conjunction with the MCD system to switch off the winch in the “rope in” direction.



Hook weight

The modular hook weights from ROTZLER not only improve the rope winding of the winch, but also ensure improved stability when working without a load.



Hook weight with snatch block

The modular hook weight with snatch block allows double line operations and can easily be rebuilt to a hook weight for single line operation. They not only improve the rope winding of the winch, but also ensure improved stability when working without a load. They allow easy connection of hook weight with rope and the swivel hook.



Swivel hook

A corresponding swivel hook is available for every TITAN size, which completes the accessories perfectly matched to the lifting force of the winch. All from a single source. ROTZLER is offering hooks with slide bearing as a standard. Hooks with roller bearings are available for optimizing ease of use.



Rope

For each winch, we offer different wire ropes that meet the current standards. These ropes are rotation resistant. Other rope lengths are available upon request.

Accessories TITAN	TI 1	TI 2	TI 4	TI 5
Top roller (Fmax.) in kN	15	29	55	55
Hook weight (weight) in kg	27	27	50	50
Swivel with hook (working load) in t	2,0	3,15	5,3	8,0
Hook weight with snatch block (weight) in kg	42	42	80	80
Swivel with hook for use with snatch block (working load) in t	3,15	5,3	12,5	12,5

For rope details please refer to page 13.



The ROTZLER GROUP

Where to find us

CANADA

ROTZLER Canada Inc.

Unit 122, 7350 - 72 Street
Delta, B.C. V4G 1H9
CANADA
Phone: +1 604 940 7134

USA

ROTZLER USA Inc.

1475 Ave S, Suite 301
Grand Prairie, Texas 75050
USA
Phone: +1 604 940 7134

GERMANY

ROTZLER HOLDING GmbH + Co.KG ROTZLER Deutschland GmbH + Co.KG

Robert-Bosch-Strasse 4
79585 Steinen
GERMANY
Phone: +49 7627 701 0

INDIA

ROTZLER India Pvt. Ltd.

Plot No.4, 5th Main, 3rd Phase
Peenya Industrial Area
560 058 - Bangalore
INDIA
Phone: +91 80 28392599

KOREA

ROTZLER Korea Ltd.

1-110 Changwon Knowledge
Industrial Center
316, Ungham-ro, Seongsan-gu
Changwon, Gyeongnam, 642290
KOREA
Phone: +82 55 282 5067