



ICE-Trade sro

International Conveyor Equipment & Trading

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ICE-Trade ® Belt Winders & Supports



The ICE-Trade Belt Winders are produced to size according to the specs of the customer : the width, diameter, weight of the belts and the needed power. Our standard winders feature a variable winding speed till 10 m/min.

On request the winders can be fitted with wheels, to run on a rail, with casters to replace the winder easily at the needed position, or for outside use the winders feature optional "sliding plates" from Hardox so that the winder can be dragged through the field behind a truck or a shovel. Outside used winders have protection class IP66 for the engine and IP65 for the electricity cabinet.



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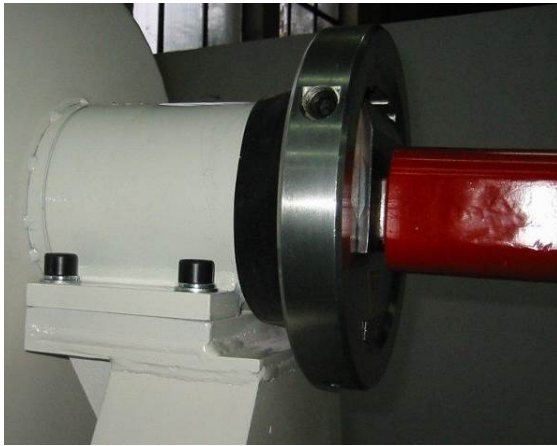
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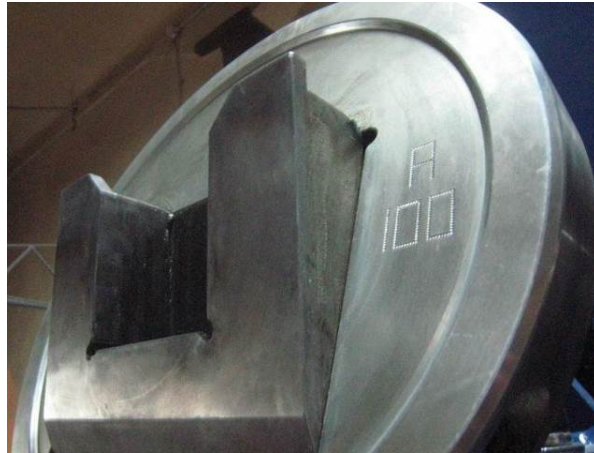
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The winders can be made that those run synchronically with other machines linked to the winder. This can be the Belt Buffing Machine, the Belt Slitting Table etc. In this case the belt winder is directed by an optical sensor or encoder.



Winders till 64 tons and max. 41.000 Nm torque can be fitted with **Safety Chucks**.



The **ICE-Trade® Safety Chuck** range :

Max. reel weight		Max. torque		Dimensions
kg	lbs	Nm	pound/force/feet	mm
1.600	3,527	350	258	30 - 40
2.800	6,173	1.100	811	40 - 50
7.200	15,870	2.350	1,733	50 - 80
7.200	15,870	5.300	3,909	80 - 100
12.000	26,460	9.000	6,638	80 - 120
15.000	33,070	20.000	14,750	120 -180
22.000	48,500	20.000	14,750	120 -180
32.000	70,550	25.000	18,440	170 - 200
64.000	141,100	41.000	30,240	170 - 230

Overall, above 22,000 kg reel weight the winders are mostly fabricated with the ICE-Trade Designed Coupling and Winding Axle Support.



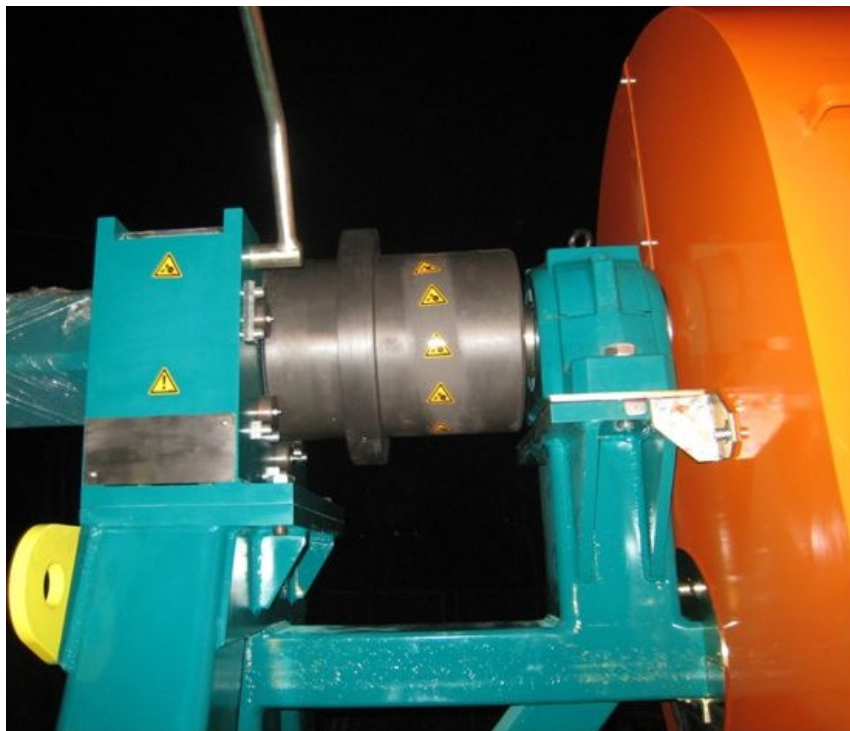
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The ICE-Trade designed Coupling is an alternative for the Safety Chucks. The Coupling connects between the drive axle and the winding axle. The winding axle is supported by 5 rollers, or by brass bearings at both sides and can easily be lifted out of the installation. The capacity of the Coupling and Winding Axle Support is not limited regarding the weight of the belt reel and the power !

The complete structure is engineered and designed regarding the maximum reel weight and installed power. The winders for outside use feature standard : lifting/lacing eyes and beams for loading and unloading with a forklift truck.

Assembly of a winder.





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Operation of the belt winder is with a handheld or foot pedal which is 'hold-to-run'.

On the cabinet are: main switch, reset button, speed regulator and switch manual / auto.

The manual /auto switch is to choose between manual operation or automatic in case the winder is linked with another machine.

For winders used outside the cabinet has also the operation buttons, in case the handheld is damaged.



For steering the belt ICE-Trade developed a simple and efficient system, so that the conveyor belt can be reeled neat.

The ICE-Trade Steering System is offered as an option.



The ICE-Trade® Belt Winder in operation.

Some technical specs of the above ICE-Trade Belt Winder :

- max. belt weight 12 T
- belt width 2.000 mm
- max. diameter of the reel 3,3 m
- variable winding speed till 10 m/min
- engine 7,5 kW
- max. torque on the winding axle 9.000 Nm
- ICE-Trade Safety Chucks are installed



Details of the reeler at the left :

- max. reel weight 20 MT
- max. diam. 3,6 m
- max. width 2.150 mm
- engine 11 kW
- max. winding speed 10 m/min
- max. torque on winding axle 31.600 Nm
- weight belt winder 7,8 MT
- protection class IP66
- ICE-Trade Coupling & Axle Support are installed



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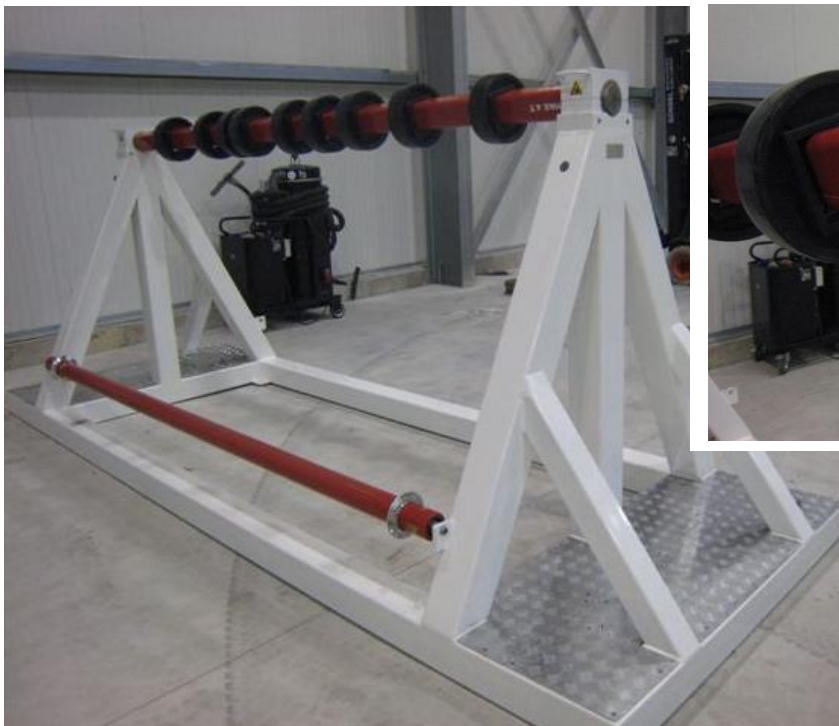
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Only for unwinding the **ICE-Trade® Belt Winder 'Non-Motorized'** features a brass bearings which acts as a mechanical brake.

The ITBW-NM can be used in combination with the belt slitting table, belt buffing machine as long as the weight of the roll of rubber does not exceed 2,5 MT, or other machines. On request an air, electric or manual operated brake can be installed.



The white de-reeler has a load charge capacity till 9 MT and takes up till 3000 mm. belt width.

The red unwinder is for 2150 mm. belt width and max. 5 MT.



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For storage and unwinding of the conveyor belts : the **ICE-Trade® Belt Stands**.



The Belt Stands are standard delivered without finish (paint). On request those can be painted or hot dip galvanized.



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For a quotation of a belt winder, for **outside use**, please download the **Belt Winder Questionnaire** from the Downloads page on our website.

For the **inside used** Belt Winders, Non-Motorized Unwinders and Belt Stands we need following specifications:

- belt width
- max. belt diameter
- max. belt weight
- application, please specify

Technical specifications ITBW :

Type	ITBW-xxxx (width) - xx (weight in T)
Max. reel diam.	xxxxx mm
Motor-gearbox	reversible, with brake and forced cooling
Secondary drive	chain: duplex or triplex / or direct drive
IT Safety Chucks	till 64 T. reel weight and 41.000 Nm torque
IT Coupling/Axle	no limit for weight, power and torque
Winding speed	variable till 10 m./min. or according specs

Technical specifications ITBW-NM :

Type	ITBW-xxxx (width) - xx (weight in T)- NM
Max. reel diam.	xxxx mm
Bearings	brass
Brake	brass bearing; air, electric or manual operated

The Belt Winders are standard powder coated in a RAL color.
On request the Belt Winders can be hot dip galvanized.

Technical specifications ITBS :

Type	ITBS-xxxx (width) - xx (weight in T)
Max. reel diam.	xxxx mm



For further information, please do not hesitate to contact us.