

motorized reeling systems

CN & D Magnetic Couplers

35 years ago ...

The Conductix Division of the DELACHAUX Group revolutionized the reeling system technology by using a **Magnetic Coupler Drive**. This item is composed of permanent magnets for a smooth tension control of the cable / hose of material handling equipment.

This revolution was based on key features such as:

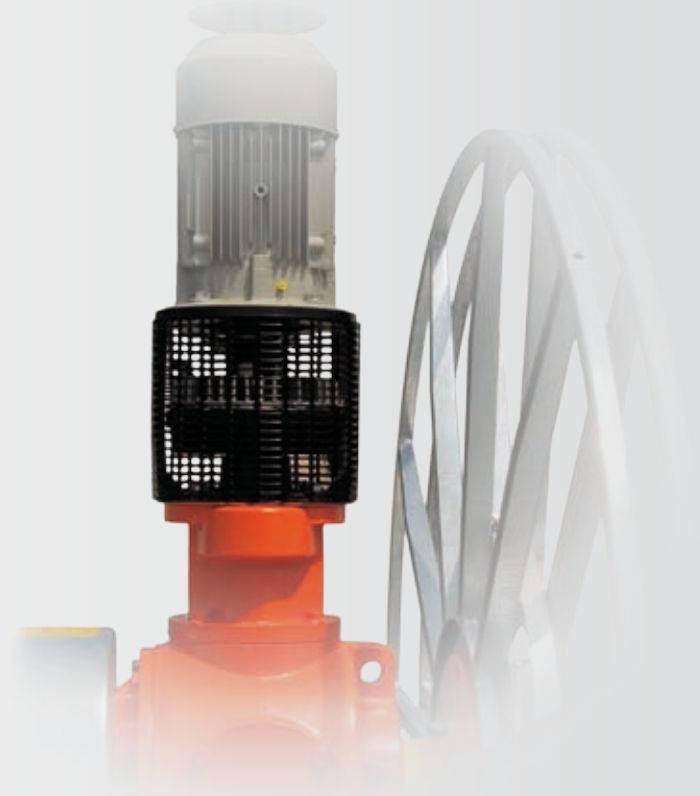
- **Modular design:** number of drives adapted all along the travel.
- **Contactless design:** no friction, no lubrication required.
- **Permanent torque:** no loss of cable tension during power failure, no electric coil.

Naturally, the DELACHAUX Group, under the Conductix-Wampfler trademark, has become the worldwide leader on the market for reeling systems.

Today ...

Conductix-Wampfler is proud to shake up this technology by introducing its last innovation:

The new CN & D Magnetic Couplers for a more efficient and lower energy consumption.



Technical improvements

- **New unbreakable induced plate**
- **Smaller but stronger magnets**
- **Stainless steel moulded body**

Interchangeability with existing 'C' couplers

- **Possible on all existing reels**
 - ⇒ Same interface
 - ⇒ Same mounting frame
 - ⇒ Same 1.5 kW motor used
- **No extra power required**
- **More torque generated thanks to a better efficiency**

Comparison with the 'C' coupler

Features	Consequences	Customer Benefits
<ul style="list-style-type: none"> • Increased torque • Lower inertia • Impossible dis-assemble • Reduced heating • Metal induced plate • Bearing axial positioning 	<ul style="list-style-type: none"> • Fewer couplers needed • Same or smaller main gear box • Faster start-up with high acceleration • Simple maintenance • Longer lifetime (at least ×2) • Cooler surface temperature • Unbreakable induced plate • Higher shock and vibration resistance 	<p>Safety</p> <ul style="list-style-type: none"> • Lower risk of cable slackness • Impossible to loose torque setting <p>Reliability</p> <ul style="list-style-type: none"> • Infinite lifetime of plates • Guaranteed reliability <p>Dynamics</p> <ul style="list-style-type: none"> • High reactivity • Optimization for hot environment and ATEX area <p>Maintenance</p> <ul style="list-style-type: none"> • Fewer couplers per reel • Easier maintenance • Lower maintenance cost

A new coupler for your application

■ To reduce coupler heating

- ⇒ High temperature applications (steel plants, desert, etc.)
- ⇒ 60 Hz frequency network applications

■ To improve dynamics

- ⇒ Lower inertia for strong accelerations and fast machines

■ To increase lifetime in harsh environments

- ⇒ Shocks and vibrations (e.g. Waste recycling plants)
- ⇒ Dust (e.g. Cement and mining industries)
- ⇒ Corrosion (seaside, on-board, off-shore)

■ To increase reliability

- ⇒ Secure torque setting
- ⇒ Improve lifetime of auxiliary components (anti run-back, coupling ring, secondary reducers)



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