

DGT300⁺

at the core of the most advanced
Tension Control Systems

Digital Controller
+
EMP Brakes & Clutches
+
Sensors and Load Cells



► Advanced communication

- Networking with HMI through ethernet TCP/IP communication
- Easy setup by Windows PC based software through USB connection

Features

► Advanced Regulation Capabilities

- Suitable for closed and open loop tension control
- Automatic PID parameters variation function
- Inertia compensation function
- Smooth start-up with programmable slope
- Non-stop web turret management function
- Five complete built-in memories

► Universal Load Cell Inputs

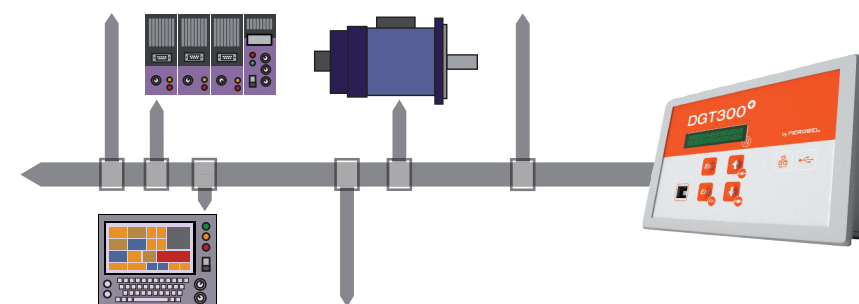
- Compatible with all current load cell technologies
- Suitable for one, two, half or full bridge load cells, or even with direct 0 - 10 V signal

► User Friendly

- Easy readout with backlit display (2 x 16 digits)
- Selectable language, metric and imperial units



The Digital controller is supplied with the **DGTSoft+**, a **fully customized PC software** which makes any system setup simple.



Integrated Web Tension Control

Advanced **TCP/IP**, **Fieldbus**, and **USB** communication features makes the DGT300+ a true **integrated component** of the full machine process.



DGT300+ offers a **complete solution** from the easiest to the toughest applications

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Leading manufacturer, Global supplier

For many years, ANDANTEX has proven its leadership as a worldwide supplier of EMP Brakes, Clutches and their associated electronics and controls. Our know-how and constant product improvements have provided the ultimate solutions for Web, Wire & Cable Tension Control applications, as well as variable torque simulation on Test rigs.

Today, ANDANTEX is a specialized division of the REDEX Group, with seven international subsidiaries at the heart of a large network of agents highly trained on the latest technologies.

ANDANTEX USA Inc.

REDEX also provides a comprehensive range of **Precision Drives** dedicated to printing, converting, labeling and coating manufacturing equipment.

Reliable EMP Brakes & Clutches

MECHATRONICS by nature:

The EMP powder for brakes & clutches reacts to the variation of a magnetic field generated by an electromagnetic coil. Varying the powder's viscosity leads to the control of the torque transmission between the primary and the secondary rotors.

Main features :

- The torque is proportional to the electric current
- The torque is independant of slip speed
- Very good repeatability of the torque

By design, the very low power consumption of EMP technology leads to lower environment footprints in comparison to motors and drives.

Power Supply and Electronics

Additional electronic devices are available to complete a full range of control solutions and systems.

- Load cells + load cell amplifiers
- Precision power supply (current regulated)
- Laser and Ultrasonic sensors

Great achievements start with us.



- SR Series
Epicyclic differential gearbox



- DLO & DR Series
Differential phase shifters



- Z Series
Precision spiral bevel gearbox

ANDANTEX

USA, Inc.

Digital Controller

MEROBEL DGT300⁺



The **all-in-one** solution
for **Web Tension Control**



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