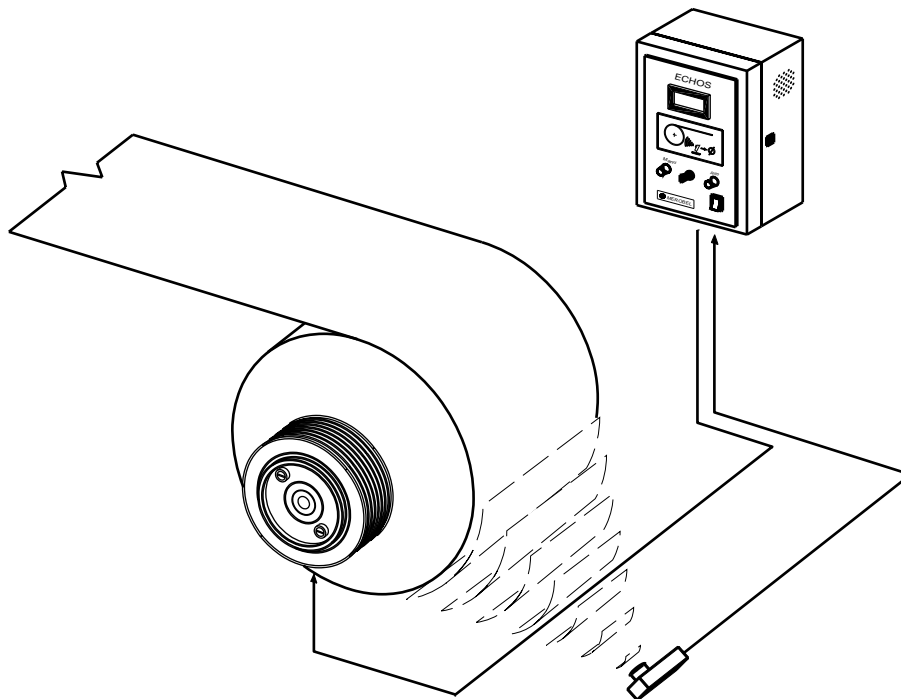


ECHOS Cabinet

Technical features

Power supply 110 or 240 V Mono	(Hz)	50-60
Mains consumption	(VA)	120
Output current	(A)	0-3,5
Input/Output analogic voltage	(V)	0-10
Operating temperature	(°C)	0-40
Internal cooling fan		
Weight	(Kg)	10



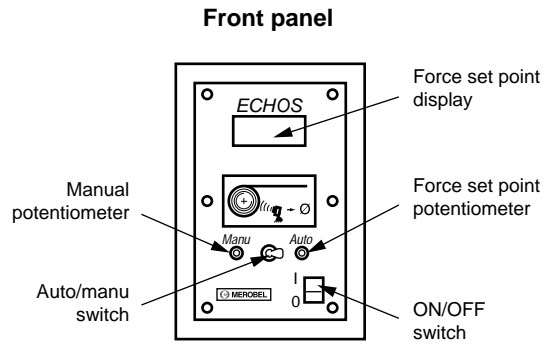
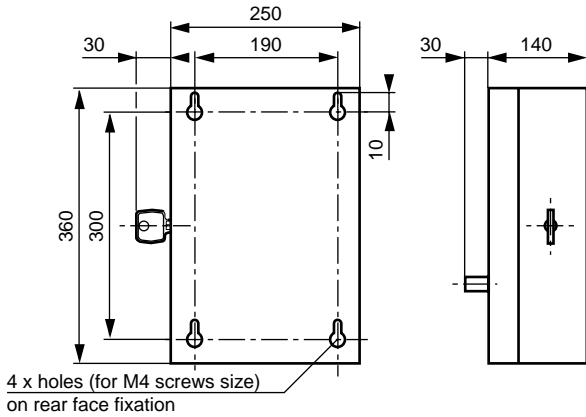
Operating principle

- The ECHOS cabinet continuously regulates the tension force applied to a product wound up on a web. The set point value is regulated by the machine operator. This system corrects in automatic mode the required torque on the web shaft, using an ultrasonic sensor.
- With the INERTIAL COMPENSATION CONTROL version, the web value of inertia is calculated (weight, speed, diameter) in order to correct the torque and to keep a constant tension force during transients (acceleration and deceleration).
- This regulator is basically made to operate with the whole range of MEROBEL couplings.

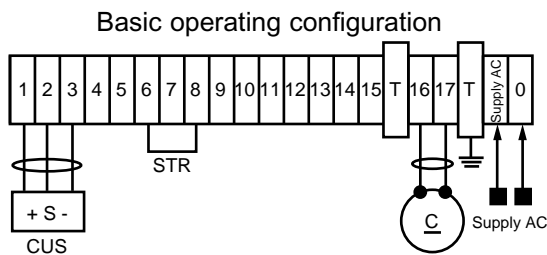
Advantages

- Small cabinet including all the functions.
- Display which allows to control the tension force set point.
- Manual mode commutation possible.
- Current regulated power supply (torque independent of the coupling temperature changes).
- Set point monitoring:
 - in local mode with potentiometer on the front panel,
 - in external mode with potentiometer or input voltage (0-10 V).
- From an output voltage (0-10V), it is possible to use:
 - the set point value,
 - the web diameter image.
- From external contacts, it is possible:
 - to switch off the current in the coupling (FREEWHEEL function),
 - to fix a current (MAXIMUM TORQUE function), adjustable on the electronic card.
- Advanced version with INERTIAL COMPENSATION CONTROL.

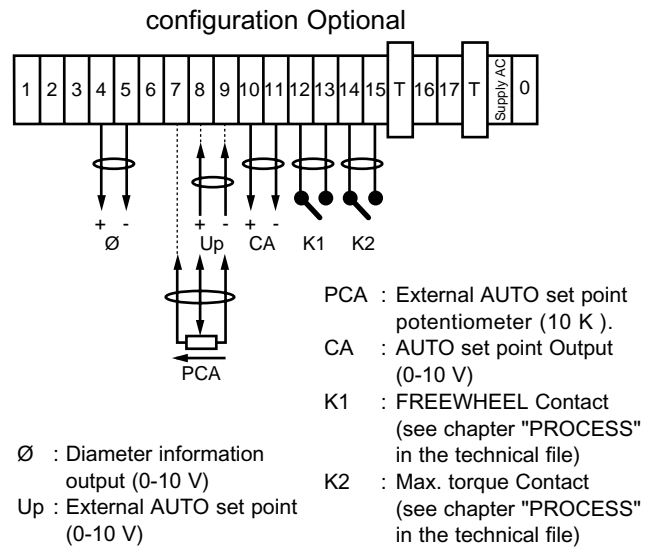
Size and mounting



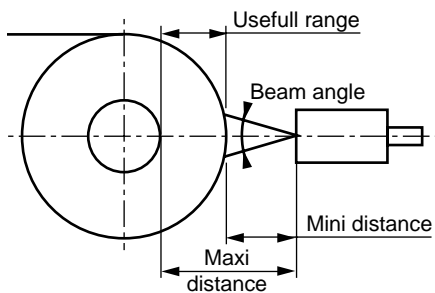
Electrical wirings (terminal)



CUS : Ultrasonic sensor.
STR : Strap to plug between terminals 6 and 8,
when using the front face potentiometer.
C : MEROBEL coupling.



Ultrasonic sensors



Two types of sensors are provided according to the web size and chape (see technical sheet "SENSOR US").

Installation and adjustment

A technical file is provided with the cabinet, giving all the necessaries informations to install and adjust your device. It is also available at our Sales department.

Order referencies

240 V AC Standard: 336 830 00
110 V AC Standard: 336 831 00

Inertial Compensation control: 336 860 00
Inertial Compensation control: 336 861 00