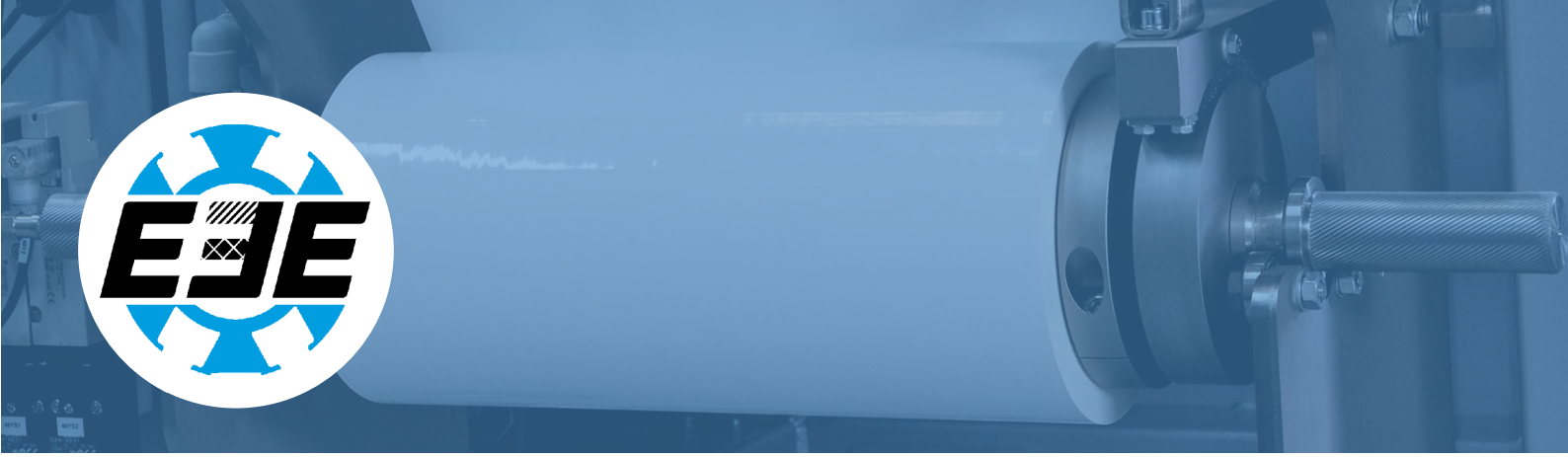
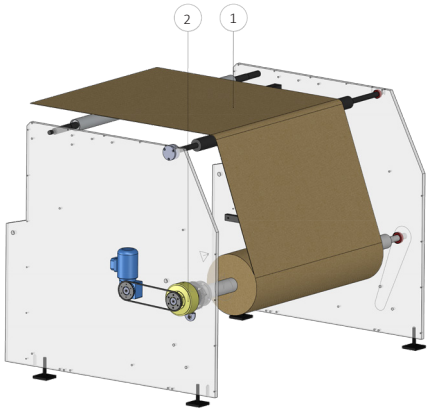


REWINDING AUTOMATIC CLUTCH TENSION CONTROL

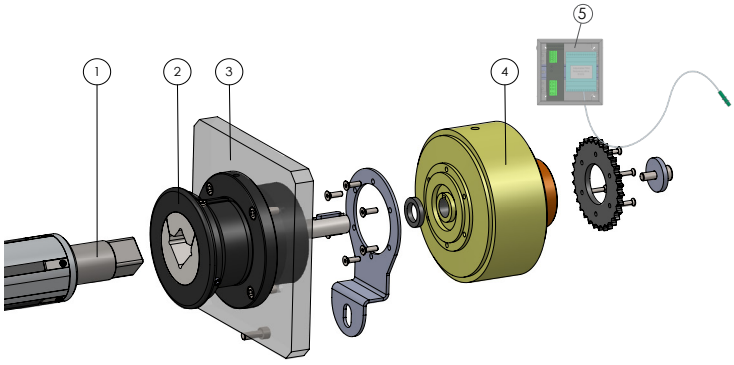
The purpose of the automatic belt tension control system for end of line rewinder modules is to perform the dragging of the belt under stable linear speed conditions to the converting industry. These features will contribute to perform converting processes more reliably and efficiently downstreams of the rewinder module.

GENERAL SCHEME

ITEM NO.	GENERAL SHCEME DESCRIPTION
1	Rewinding machine with automatic web tension control
2	Clutch tension control assembly



ITEM NO.	TENSION CONTROL ASSEMBLY DESCRIPTION
1	Rewinding air shaft
2	Safety chuck or standard bushing
3	Machine frame
4	6 Nm to 50 Nm electromagnertic clutch accessory for rewinding web tension control
5	Electric box + clutch power regulation sensor



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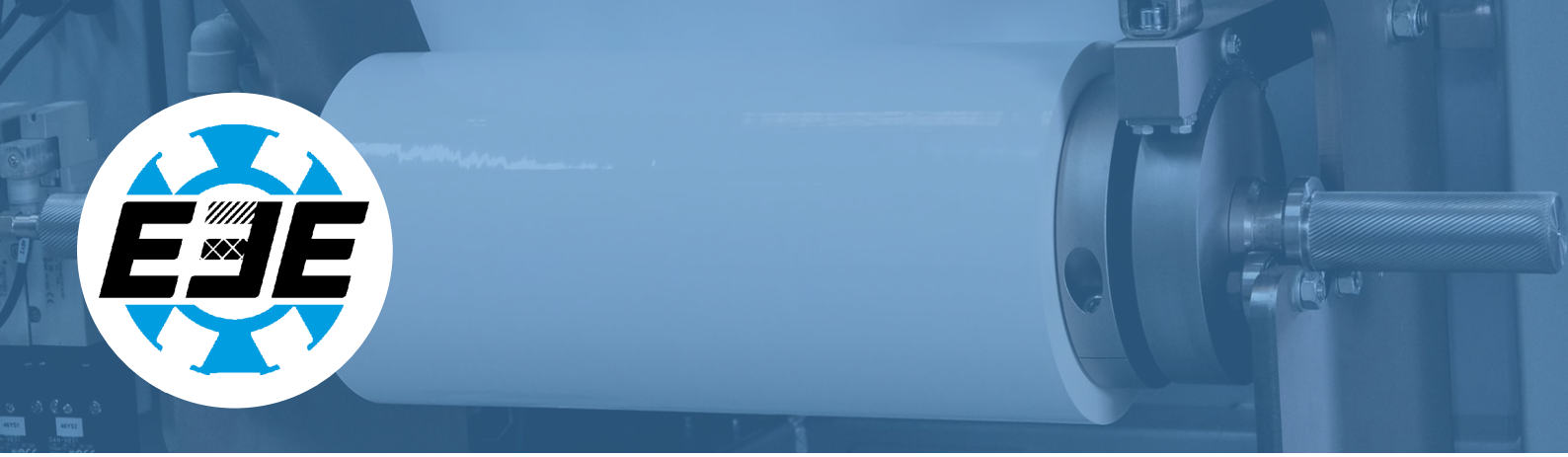
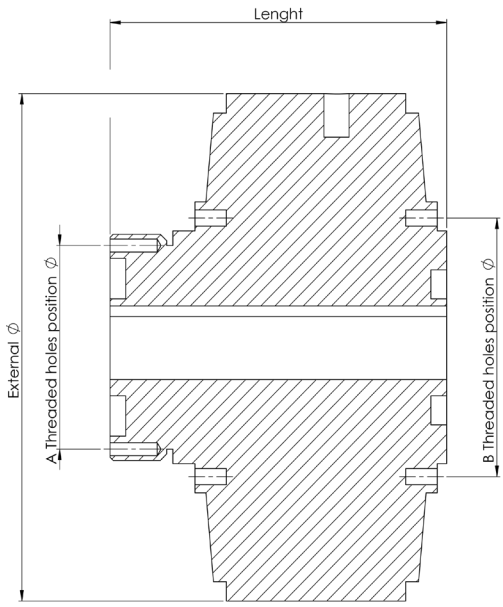
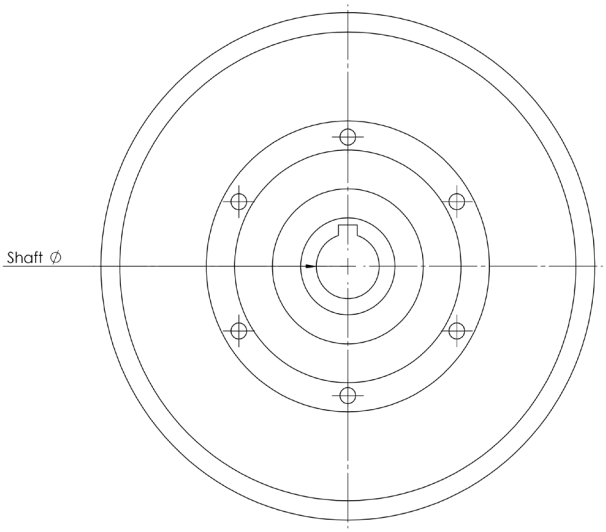


TECHNICAL PARAMETERS





MAIN TECHNICAL PARAMETERS

TORQUE [NM]	VOLTAGE [V]	SPEED [RPM/MIN]	CURRENT [A]	WEIGHT [KG]	EXTERNAL Ø [MM]
6	24	1400	0,8	3	130
12	24	1400	1	6	157
25	24	1400	1,5	9	182
50	24	1400	1,8	14,5	219

OVERALL DIMENSIONS

LENGHT [MM]	SHAFT Ø [MM]	A THREADED HOLES POSITION [MM]	B THREADED HOLES POSITION [MM]	A SCREWS	B SCREWS
91	16	50	70	M5	M5
107	20	63	80	M5	M5
125	25	71	97	M6	M6
144	30	85	110	M6	M8

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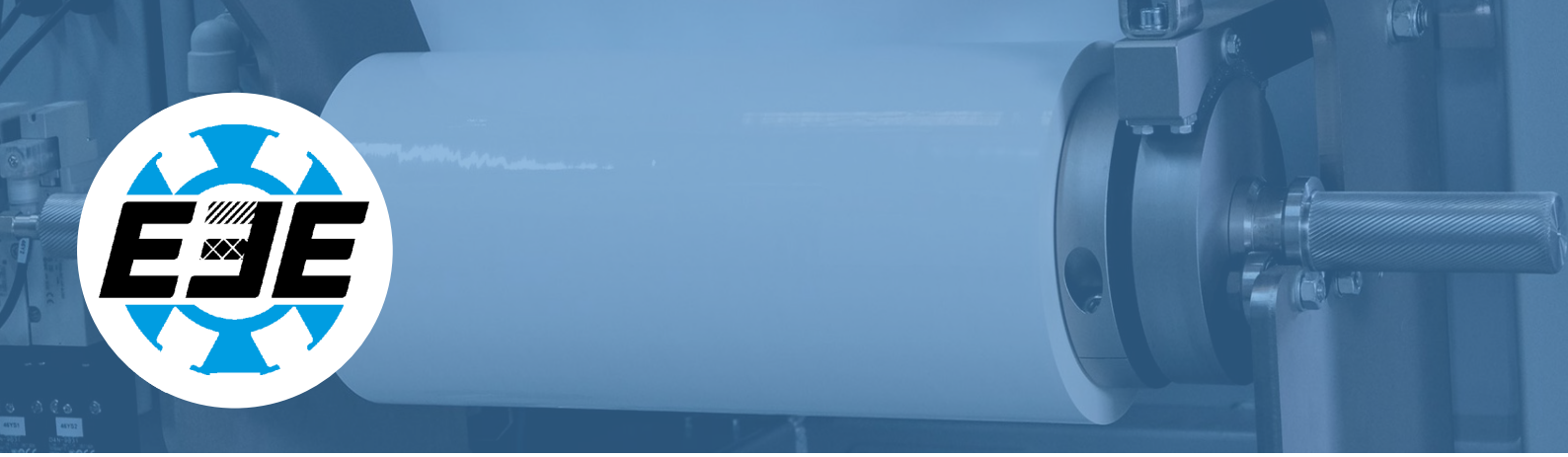
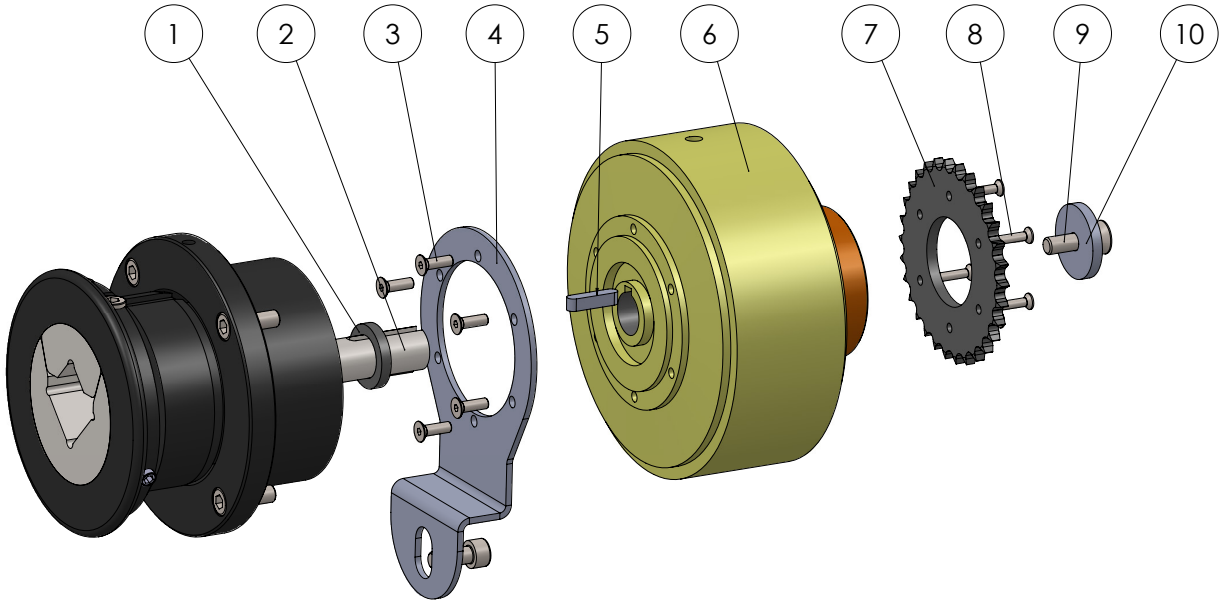


MECHANICAL ASSEMBLY

ITEM NO.	TENSION CONTROL ASSEMBLY DESCRIPTION
1	Separator washer
2	Shaft
3	X6 screw DIN 7991
4	Antirrotation arm
5	Shaft key
6	6 Nm to 50 Nm electromagnertic clutch accessory for rewinding web tension control
7	Traction sprocket
8	X6 screw DIN 7991
9	Screw DIN 912 M8x30
10	Compression washer



COMPATIBILITY WITH OTHER EJEMATIC SOLUTIONS

Our Electromagnetic Clutch Tension Control guarantees seamless compatibility across the complete range of standard airshafts and machine anchoring systems proudly offered by EJEMATIC:

Airshaft type	Double Support	Cantilever	Axial Displacement
Body Diammeter	Ø69, Ø75, Ø150, Special	Ø69, Ø75, Ø150, Special	Ø69, Ø75, Ø150, Special
Machine anchor type	Flange & Foot Safety Chucks and Rolling Supports	Flange & Foot Bushings Ø35 and Ø45	

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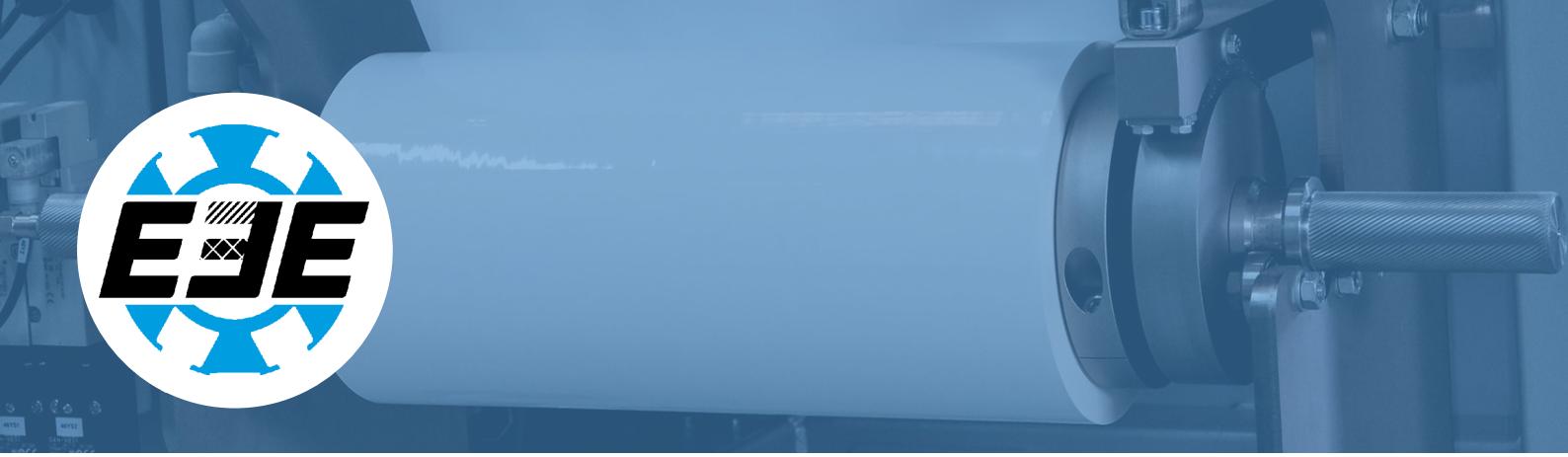
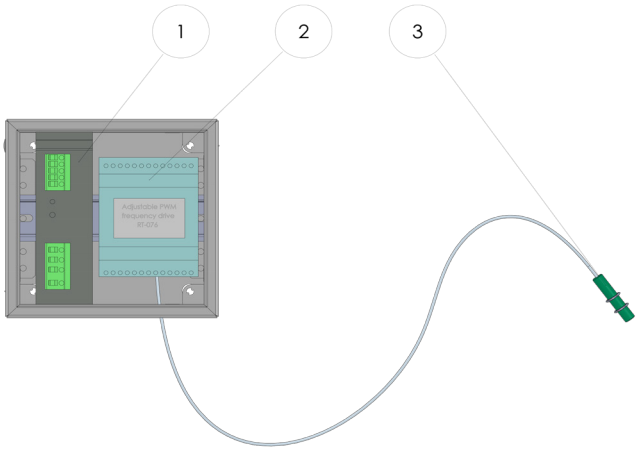
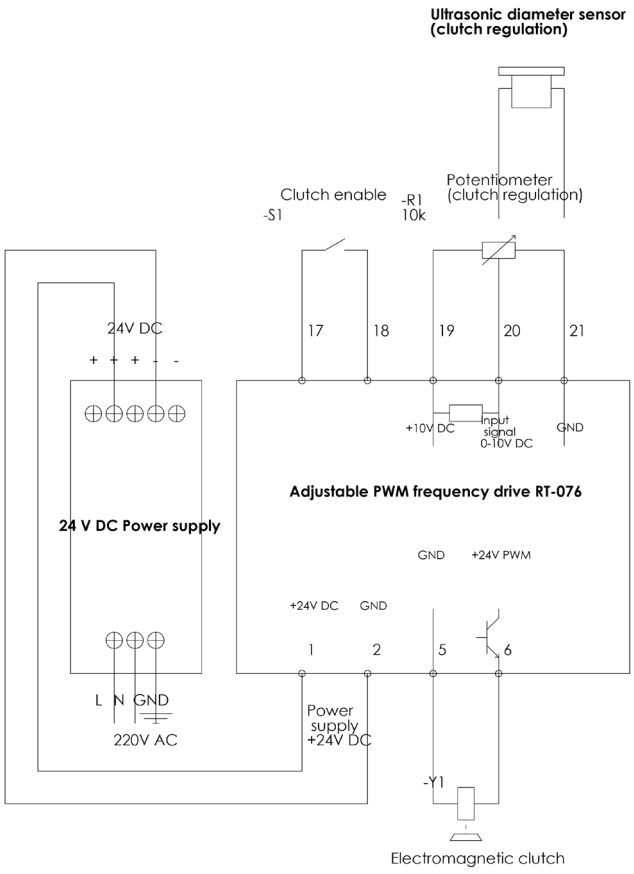


TENSION CONTROL
ELECTRICAL ASSEMBLY



ITEM NO.	TENSION CONTROL ASSEMBLY DESCRIPTION
1	Power supply
2	Adjustable PWM frequency drive
3	Clutch power regulation
3.1	Manual potentiometer
3.2	Distance sensor or pendulum probe sensor
3.3	Load cell



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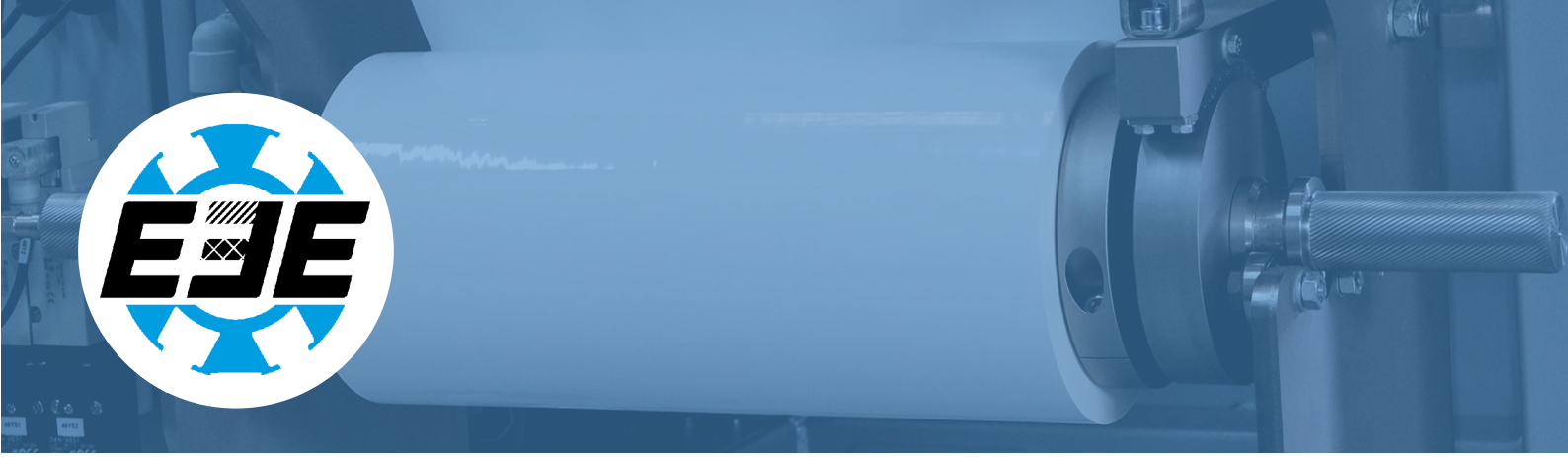


TENSION CONTROL TYPES

The web tension can be regulated through a manual potencimeter or with differnet sensor types.
Under low-demand unwinding conditions the web tension can be regulated by a manual potentiometer that adjusts the braking power.

When the unwinding conditions are more demanding the web tension is regulated with different sensor types with different technologies involved. The web tension is controlled by a dancer arm and a potentiometer that adjusts the braking power, is controlled by a distance sensor that reads the diameter of the roll and adjusts the braking power or is controlled through a load cell that adjusts the breaking power.

MANUAL

1 **MANUAL TENSION CONTROL**

The web tension is regulated by a manual potentiometer that adjusts the clutch power.

COMPONENTS:

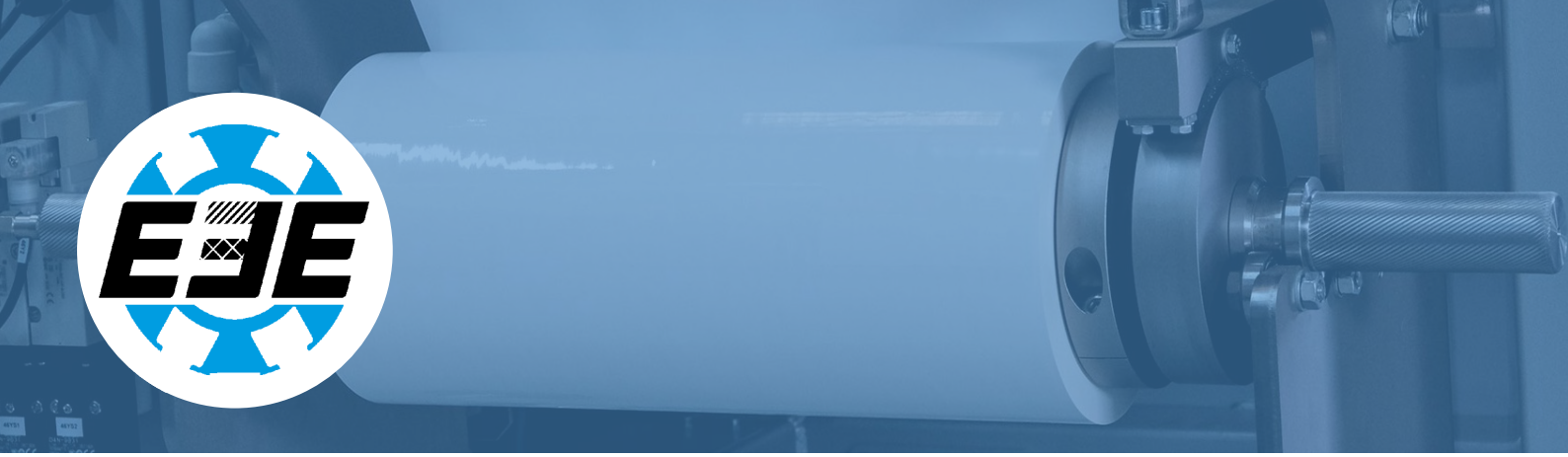
1 Electromagnetic clutch

2 Adjustable PWM frequency drive

3 24V DC 100W power supply

4 Potentiometer

5 Electric box



SENSORITZATION

1 TENSION CONTROL THROUGH DISTANCE SENSOR

The web tension is controlled by a load cell that adjusts the clutch power.

COMPONENTS:

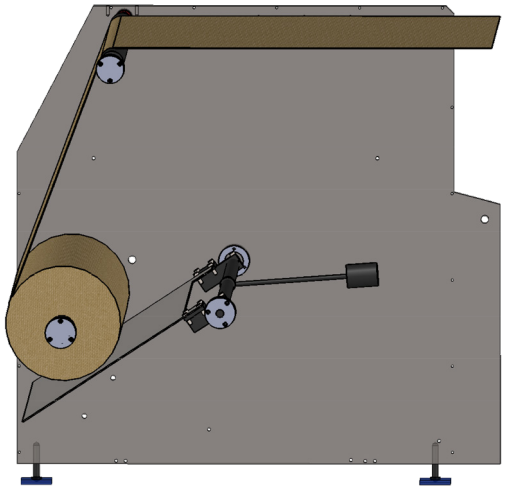
1 Electromagnetic clutch

2 Adjustable PWM frequency drive

3 24V DC 100W power supply

4 Load cell

5 Electric box



2 TENSION CONTROL THROUGH LOAD CELL

The web tension is controlled by a load cell that adjusts the braking power.

COMPONENTS:

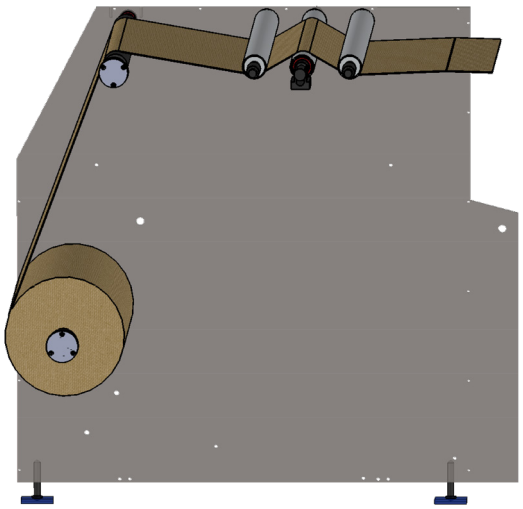
1 Electromagnetic clutch

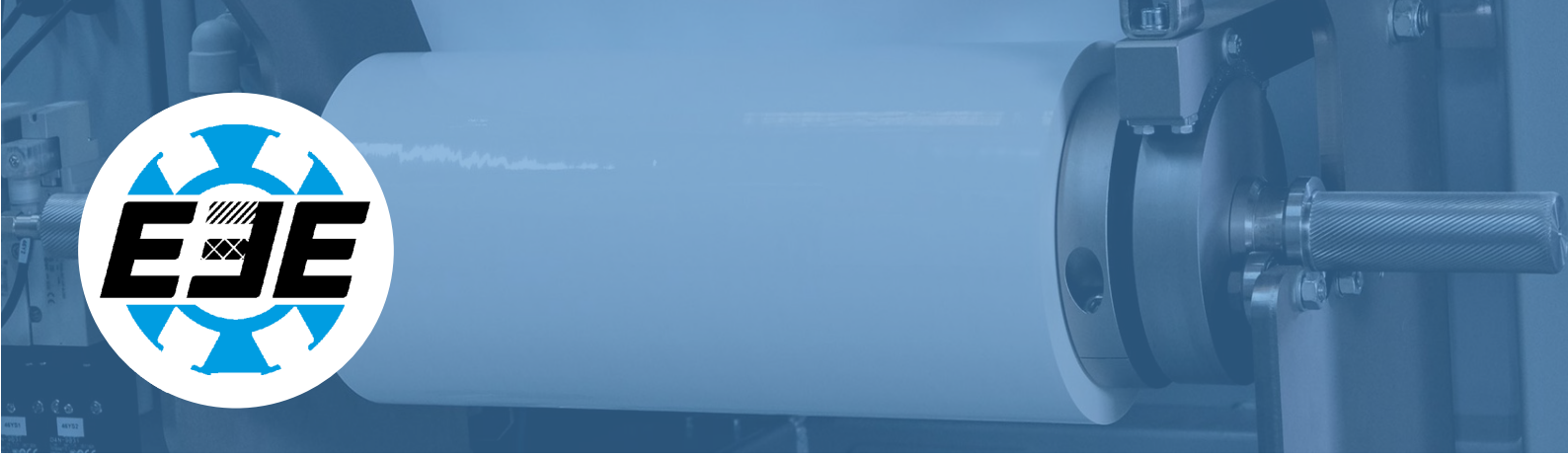
2 Adjustable PWM frequency drive

3 24V DC 100W power supply

4 Load cell

5 Electric box

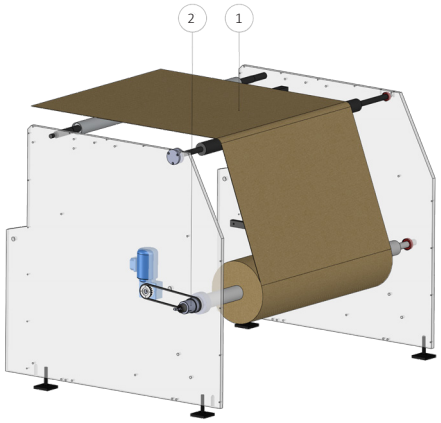




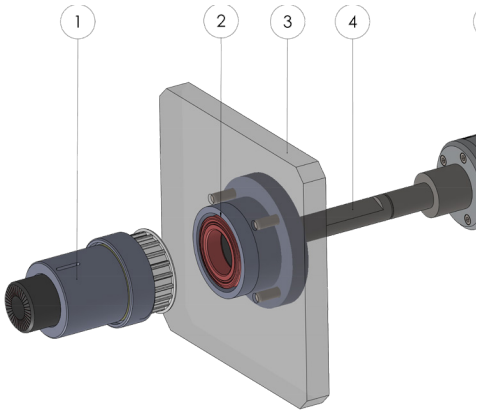
REWINDING MECHANICAL CLUTCH TENSION CONTROL

GENERAL SCHEME

ITEM NO.	GENERAL SHCEME DESCRIPTION
1	Rewinding machine with mechanical clutch tension control
2	Mechanical clutch tension control assembly



ITEM NO.	TENSION CONTROL ASSEMBLY DESCRIPTION
1	2 Nm to 12 Nm mechanical clutch accessory for rewinding web tension control
2	Machine frame
3	Air shaft journal end
4	Air shaft body



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Machine anchor type	Flange & Foot Safety Chucks and Rolling Supports	Flange & Foot Bushings Ø35 and Ø45	

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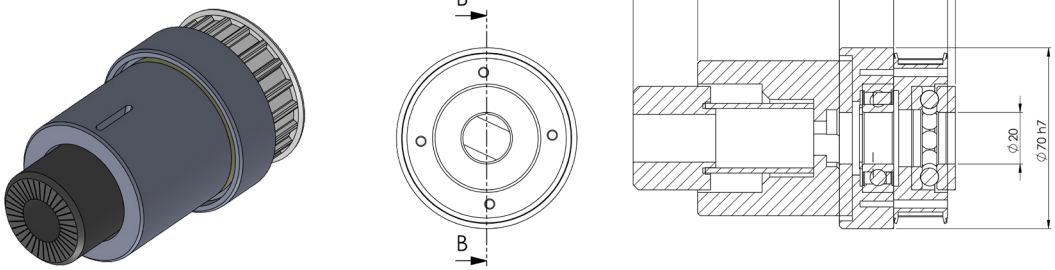
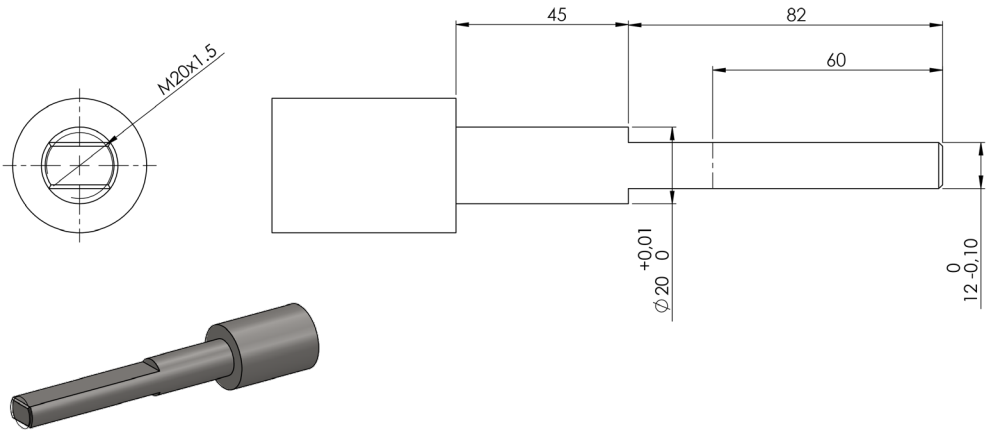
TECHNICAL PARAMETERS



Clutch power manual regulation through the nut

REQUIRED JOURNAL END TO ASSEMBLE THE MECHANICAL CLUTCH:



TORQUE [NM]	SPEED [RPM/MIN]	WEIGHT [KG]	EXTERNAL Ø [MM]	LENGHT [MM]	SHAFT Ø [MM]	PRODUCT REFERENCE
2	1000	2	70	125	20	CTS- MCX-002
4	1000	2	70	125	20	CTS- MCX-004
6	1000	2	70	125	20	CTS- MCX-006
12	1000	2,4	90	130	20	CTS- MCX-012

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