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T/520EX
AUTOMATIC ROLL SLITTING MACHINE
FOR SLITTING ROLLS OF PREPEG CARBON FIBERS

NUMERICALLY CONTROLLED AUTOMATIC ROLL SLITTING MACHINE T/520EX_L600

Numerically controlled automatic roll slitting machine for rolls with max diameter 300 mm, max displacement of the blade carriage from the chuck of 185 cm and possibility to load rolls with max width 215 cm.

This unit is designed with the utmost attention to safety features to obtain from **IMQ** (www.imq.it Istituto Italiano del Marchio di Qualità - Italian Institute for Quality Trademarks) **the Certification of Type Examination for standards 2006/42/EC (Ref.IMQ345)**. The technical file of the machine has been deposited by IMQ organization that has certified the conformity to EC (European Community) Machine Safety Standards.

The movement of the blade carriage towards the roll with wormscrew and brushless motor. The machine has been designed to slit rolls of PREPEG carbon fiber for aeronautical use but can also slit rolls of technical materials, polyurethane and PVC foam materials, glass fibers, plastic films, rubber, adhesive tapes, etc.

TECHNICAL FEATURES

- Totally closed machine. Highly safe for the operator, no diffusion of cutting dust and less noise. LED lights for a clear illumination inside the machine
- Numerically controlled positioning of the blade carriage with brushless motor and automatic cut with the possibility of programming up to 6 cutting measures for each automatic cycle.
- Numerically controlled blade penetration movement into the roll with three adjustable cutting speeds (entry speed into the roll, cutting speed and cardboard core cutting speed) adjustable on continuous rate with wormscrew movement and brushless motor. Photocell to detect the roll diameter and Laser pointer to indicate the actual position of the blade on the roll.
- Adjustable blade rotation speed (up to 150 RPM) and adjustable roll rotation speed (up to 400 RPM) with digital vectorial inverter. Possibility to select the roll rotation direction.
- Up to 50 different cutting cycles. All the cutting parameters can be stored and retrieved into the machine memory.
- Automatic sharpening of the circular knife on both sides with adjustable sharpening time after a programmed number of cuts. Blade speed will be set automatically to the optimal sharpening speed during operation. The sharpening parameters of the auxiliary sharpener can be programmed with values different from those of the main sharpener. Grindstones in BORAZON material with a device to dress the main borazon grindstone with an abrasive stone. Localized hood system in the sharpening area to be connected to an external vacuum cleaner to remove sharpening dust.
- Two blade cooling system by compressed air expansion "vortex" type
- Laser system to measure the blade diameter with automatic adjustment of stop position near the roll shaft. No knob to adjust the forward travel end of the blade carriage.
- Automatic positioning of the blade at the edge of the roll and automatic return of the blade to the initial position of the automatic cycle
- Quick blade return function out of the roll after slitting during the automatic cycle. The stop position outside the roll can be adjusted with the machine joystick
- Standard machine equipped with rotary roll shaft with cardboard tube locking by expanding six plastic pilers along the entire length of the roll
- Pneumatic lifting of the roll shaft for easy loading and unloading of the roll
- PLC controlled machine with a separate safety PLC to control the safety devices and equipped with complete diagnostic software to inform the operator of any possible alarm and to display instructions to restart the unit on a touch screen graphic panel. Machine prepared for connection Industry 4.0 with Modbus/TCP protocol
- Max roll dimensions: diam. 45 cm (16") width 620 mm (27"½) weight Kg.70 (155lbs).

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T500/LNK Link with AMP Pisani for remote connection, troubleshooting and sw updates through 4G network.
- T1000/LNK Link with AMP Pisani for remote connection, troubleshooting and sw updates through Ethernet network

TECHNICAL DATA

- Blade diameter.....:450 mm
- Roll shaft diameter.....:75 mm (other diameters on requests)
- Voltage.....:400V ±5% 50Hz 3-phases (other voltages on request)
- Dimensions and weight:3100 x 1850 x 1600 (h) mm – Kg 1.150 kg
- Installed power.....:4,5 kW in standard configuration.
- Compressed air:6 bar
- Accuracy of blade positioning.....:±0.01 mm

