



A.M.P PISANI S.r.l. Via Ungaretti 6/8 27024 CILAVEGNA (PV) ITALY
Phone +39 0381 96128 Fax +39 0381 969100 www.amppisani.com email: info@amppisani.com



T/520EX
AUTOMATIC ROLL SLITTING MACHINE

NUMERICALLY CONTROLLED AUTOMATIC ROLL SLITTING MACHINE T/520EX

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 in order to obtain from **IMQ** (www.imq.it Istituto Italiano del Marchio di Qualità - Italian Institute for Quality Trademarks) **the Certificate of Conformity 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 can process most of materials in rolls such as technical materials, bias or straight fabrics, non-woven with and without adhesives. With special devices, machine can slit foam rolls in polyethylene and PVC, glass and carbon fibers, plastic films, rubber, masking tapes, roofing materials, and more.

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 600 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.
- 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
- Self-centering pneumatic chuck with double clamping mechanism on the cardboard core and on the roll external surface with possibility to adjust the clamping pressure plus adjustable mechanical travel end of the external grippers stroke to avoid excessive pressure on the roll surface in case of soft materials
- 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. The machine includes a device to dress the main grindstone with a diamond.
- Machine standard equipped with non-rotating roll shaft. Rotating shaft and expanding rotating shaft on request are available with extra cost.
- Pneumatic system to lift and support the roll shaft for easier loading/unloading operations.
- 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. 300 mm, width 2.150 mm, weight Kg.60. Machine available on request for longer rolls and larger roll diameter.

DEVICES ON REQUEST

- T100/RIL Wormscrew reducer for the blade
- T300/SIL Automatic blade lubrication system for the blade
- T500/CLN Automatic blade cleaning system on both sides
- T500/D50 Machine with blade diam. 50 cm for rolls max diam. 40 cm
- T500/COL Blade cooling system by compressed air expansion
- T500/WLUB Machine modified for blade lubrication and cooling system with water or silicon at choice.
- 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 DATAS

- Blade diameter.....:450 mm (diam. 500 mm on requests)
- Roll shaft diameter.....:50 mm (other diameters on requests)
- Voltage.....:400V $\pm$ 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.....: $\pm$ 0.01 mm

