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T/1000E LFT

HEAVY DUTY NUMERICALLY CONTROLLED SLITTING MACHINE WITH LOADING DEVICE

NUMERICALLY CONTROLLED SLITTING MACHINE CLASS T/1000E LFT

The numerically controlled slitting class T/1000ELFT for heavy rolls can slit rolls up to diam 500mm (20") and length 2000mm (78") with maximum weight 200kg. The maximum displacement of the blade carriage from the chuck is 1920mm. The roll lifting system allows the operator an easy loading of heavy rolls. The roll trolley can move manually along the whole length of the roll shaft to thread easily the roll and the up/down movement is controlled by brushless motors

This machine is designed with the utmost attention to safety features in order to obtain from IMQ (Italian Institute for Quality Trademarks www.imq.it) the **Certification of Examination "CE" for standards 2006/42/EC (ref. IMQ299)**. The technical file of the machine has been deposited by IMQ organization that has certified the conformity to EC (European Community) Machine Safety Standards. This means that, while AMP PISANI issues the "CE" certification of the machine, IMQ (Independent organization) confirms that the unit fulfils the requirements of the aforementioned directive.

This unit is particularly suitable to slit large and heavy rolls of nonwoven, foam and laminated foam, felt, glass fibres, rubber and roofing materials, tar rolls, films, fabrics, laminated fabrics etc.

FEATURES

- Machine totally closed and highly safe for its operator. Automatic opening of the machine front door with pneumatic cylinder and safety system to avoid the its sudden drop in case of power cut or interruption of the compressed air supply
- 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. LED lights for a clear illumination inside the machine
- All machine motors are brushless. Roll motor, blade motor and blade positioning motors are closed loop controlled. A signal tower indicates the actual machine status
- Adjustable blade rotation speed (up to 700 RPM) and adjustable roll rotation speed (up to 450 RPM) with possibility to choose the roll rotation direction.
- 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.
- Laser system to measure the blade diameter and its circularity error with automatic adjustment of stop position near the roll support shaft. No knob to adjust the forward travel end of the blade carriage.
- Quick blade return function out of the roll after slitting during the automatic cycle with a measuring photocell to stop a reverse stroke of the blade carriage once the blade is completely out of the roll. The blade stop position outside the roll can be adjusted with the machine joystick. Automatic blade positioning function at the roll edge with possibility of automatic blade carriage return to an initial preset position
- 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
- Expanding rotary roll shaft with plastic grippers along the whole shaft length which can be easily replaced. Roll shaft diam. 76,4 mm (3") or 80 mm as per choice. This unit cannot be supplied with interchangeable roll shafts
- Automatic lock system of the roll shaft extremity by a sliding arm with pneumatic clamping system
- Automatic sharpening of the circular knife on both sides with adjustable sharpening time after a programmed number of cuts by BORAZON grindstones. 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.
- Automatic blade cooling system with nebulized water and collection tank in stainless steel. The liquids can be discharged outside the machine with a tube.
- Automatic blade lubrication with adjustable frequency (single or multiple) and lube on/off times with possibility to use pure silicon oil or water mixed with silicone glycol
- Door on the rear side of the machine for easy access to the blade carriage with sensor to sudden stop the machine once it has been opened
- Up to 50 different cutting cycles. All cutting parameters can be stored and retrieved into the machine memory from each program. Machine prepared for connection Industry 4.0 with Modbus/TCP protocol
- 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. Maximum roll dimensions: diam. 500 mm (20"), length 2000 mm (78"), weight Kg. 200 (440 lbs).

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T1000/LNK Internet link for connection to AMP Pisani service for troubleshooting and software updates
- T500/COL Blade cooling system with compressed air temperature minus 20 °C

TECHNICAL DATAS

- Max roll dimensions: diam 500 mm x 2.000 mm (20" x 80") – Kg. 200
- Blade diameter: 600 mm
- Roll shaft diameter: 76,4 mm (3") or 80 mm at choice.
- Electrical data: 7 kW 400V 50Hz 3-phases or 220 V 3-phases 50/60Hz
- Space requirements and weight: 5.070 x 2.130 x 1.750 (h) mm, Kg. 2500
- Compressed air: 6 bar
- Water: 2 bar
- Accuracy of blade positioning: ±0.01 m

