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T1000EX

NUMERICALLY CONTROLLED SLITTING MACHINE FOR HEAVY ROLLS

NUMERICALLY CONTROLLED SLITTING MACHINE FOR HEAVY ROLLS CLASS T1000EX

The T1000EX numerical controlled roll splitter for heavy rolls up to 400mm diameter and with a maximum weight of 100 kg. The maximum displacement of the blade carriage from the chuck of 200 cm with possibility to load rolls with maximum length 235cm. This machine is designed with the utmost attention to safety features to obtain from IMQ (Italian Institute for Quality Trademarks) the **Certification of conformity to “CE” standards 2006/42/EC (ref. IMQ300)**. 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.

The 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. LED lights for very clear internal illumination of the machine. All machine motors are brushless.
- Automatic opening of the machine front door with pneumatic cylinder and safety system to avoid 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.
- Closed loop controlled brushless motors to adjust the blade rotation speed up to 700 RPM and the 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 closed loop controlled. Photocell to detect the roll diameter and laser pointer to indicate the actual position of the blade on the roll.
- Pivoting cutting head (on request) with adjustment of the angle between the blade and the roll controlled by a brushless motor with commands on the machine panel and dial indicator to display the position reached.
- 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. The stop position outside the roll can be varied 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.
- 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. 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.
- 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.
- 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. 400 mm (16”) x 2.350 mm (92”), Max weight Kg 100 (220 lbs)

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T500/LNK Remote connection to AMP Pisani service for service with 4G network
- T1000/LNK Remote connection to AMP Pisani service for service through Ethernet net
- T1000/D60 Machine with blade diam. 60 cm for rolls max diam. 50 cm.
- T1000/BROT Rotary shaft
- T1000/BAR75 Extra for roll shaft with diameter 75 mm (3”)
- T500/COL Blade cooling system with compressed air temperature minus 20 °C
- T1000/PVT Blade carriage with pivoting head

TECHNICAL DATAS

- Max roll dimensions: diam 400 x 2.000 (16” x 80”) – Kg. 100
- Blade diameter: 500 mm
- Roll shaft diameter: 50 mm (other measures on request)
- Electrical data.....: 7 kW 400V 50Hz 3-phases (other voltages on request)
- Space requirements and weight: 3260 x 1930 x 1640 (h) mm, Kg. 2850
- Compressed air: 6 bar
- Accuracy of blade positioning: ±0.01 mm

