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T/4400

FOUR MANDREL AUTOMATIC ROLL SLITTER FOR FOAM AND RUBBER

FOUR MANDREL AUTOMATIC ROLL SLITTER WITH ROTARY TURRET T/4400

Numerically controlled automatic roll slitting machine for rolls with max diameter 400 mm, blade diameter 700mm, max displacement of the blade carriage from the chuck of 165 cm and possibility to load rolls with max length 195 cm. Machine equipped with a rotating turret for the simultaneous cut of two rolls.

This machine is designed with the utmost attention to safety features to obtain from IMQ www.imq.it (an independent organization) the Certification of Examination "CE" for standards 2006/42/EC (IMQ327). The technical file of the machine has been deposited by the certification organization to receive the conformity to CE (European Community) Machine Safety Standards. The machine can process rolls of foam (PVC and polyurethane) even laminated with or without adhesives, rubber, plastic films, material for thermal and acoustic insulation of the buildings, glass and carbon fibers, roofing materials 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.
- 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 600 RPM and the roll rotation speed up to 400 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. Automatic blade positioning function at the roll edge with possibility of automatic blade carriage return to an initial preset position.
- Four self-centering pneumatic chucks with double locking on the carton and on the external surface of the roll with adjustable mechanical stop to avoid excessive pressure of the pliers on soft material rolls, rotary shafts diameter 76.4 mm (3") covered by an easy-to-replace plastic tube along the whole shaft extension. Shafts are not interchangeable on this unit.
- A "closed loop" brushless motor controls the rotation of the four shafts support disk with pneumatic controlled safety locking pin. The rotation is possible only when the operator is at a safety distance from the machine.
- A laser scanner system checks the presence of people at a safety distance from the unit and stops immediately the rotation in case of danger.
- 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 lubrication and cooling system 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: Two rolls diam. 400 mm (16") x 1.950 mm (77") max weight Kg 60 (140 lbs) or one roll diam. 500mm (20") x1.950 mm (77") max weight Kg 60 (140 lbs)

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T500/COL Blade cooling system with compressed air temperature minus 20 °C
- T500/LNK Link with AMP Pisani office for remote connection, troubleshooting and software updates through 4G network.
- T1000/LNK Link with AMP Pisani office for remote connection, troubleshooting and software updates through Ethernet network.

TECHNICAL DATA

- Max roll dimensions: Two rolls diam 400x1.950mm (16"x77") Kg. 60 (140 lbs) or One roll diam 500x1.950mm (20"x77") Kg.60 (140 lbs)
- Blade diameter: 700 mm (28")
- Roll shaft diameter: 3" (76 mm). Other measures on request
- Electrical data: 8 kW 400V 50Hz 3-phases (other voltages on request)
- Space requirements and weight.....:3675 x 2090 x 1900 (h) mm – Kg. 3000
- Compressed air: 6 bar
- Accuracy of blade positioning: ±0.01 mm

