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T/1050

AUTOMATIC ROLL SLITTING MACHINE FOR FOAM, RUBBER AND FILMS

NUMERICALLY CONTROLLED AUTOMATIC ROLL SLITTING MACHINE FOR FOAM, RUBBER AND FILMS T/1050

Numerically controlled automatic roll slitting machine for rolls with max diameter 500 mm, max displacement of the blade carriage from the chuck of 175 cm and possibility to load rolls with max length 200 cm.

This machine is designed with the utmost attention to safety features in order to obtain from **IMQ** (www.imq.it Italian Institute for Quality Trademarks) 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 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.

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.
- All machine motors are brushless. Roll motor, blade motor and blade positioning motors are closed loop controlled.
- 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 wormscrew movement and brushless motor. with three adjustable cutting speeds (entry speed into the roll, cutting speed and cardboard core cutting speed) adjustable on continuous rate. 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
- Automatic blade positioning function at the roll edge with possibility of automatic blade carriage return to an initial preset position
- Automatic roll diameter adjustment with a measuring photocell to stop the reverse stroke of the blade carriage once the blade is out of the roll. 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
- Expanding rotary roll shaft with plastic grippers along the whole shaft length which can be easily replaced. Roll shaft diam. 76,4mm (3") or 80mm as per choice. This unit cannot be supplied with interchangeable shafts
- 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.
- Servomotor for adjusting the mechanical stop of the main sharpener on the blade (on request) with a decimal resolution programmable from the terminal.
- Rotation of the auxiliary grindstone sharpener controlled by a brushless motor (on request).
- 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
- 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. Max roll dimensions: diam. 500 mm, length 2000 mm, weight Kg.100.

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T500/COL Blade cooling system by compressed air expansion
- T500/NET Device for remote connection of the machine through internet to our technical offices.
- T500/SSD Servomotor for adjusting the mechanical stop of the main sharpener on the blade
- T500/SMT Motor driven rotation of the auxiliary sharpener

TECHNICAL DATAS

- Blade diameter..... : 600 mm
- Expanding roll shaft diameter : 76,4 mm (3") or 80 mm (at choice).
- Voltage : 400V ±5% 50Hz 3-phases (other voltages on request)
- Dimensions and weight..... : 320 x 194 x 160 (h) cm – Kg.2900
- Installed power..... : 5 kW in standard configuration.
- Compressed air : 6 bar
- Accuracy of blade positioning : ±0.01 mm

