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ROLL SLITTING MACHINES

GENERAL CATALOGUE



PRESENTATION OF THE COMPANY



Our passion is creating machinery. We have been doing it since long time.

For nearly seven decades, AMP Pisani has been designing and manufacturing quality machinery for apparel and textile industries as well as for roll slitting applications and customized projects. We have been established since 1946.

Our vast product range consists of bra moulding equipments and robotic systems for trimming foam bra cups, roll slitters for any application and bias machinery.

Collarette cutters, complementary machines for cutting room and automatic equipments for technical applications are also included in our product range.

Our skill of innovation has enabled us to achieve numerous technological innovations within the market, most of them patented.

AMP Pisani's machinery is exclusively manufactured at our facility in Italy by a skilled team of mechanics, electricians and software engineers who are able to design and manufacture customized units.

About 25.000 machines have been manufactured since our establishment.

Our headquarter and manufacturing facility is located in the city of Cilavegna, at 50 km from Milan city centre and at 40 km from Milan Malpensa International Airport.

A spare parts departments guarantee the quick delivery of spare parts and consumables (blades and grindstones) for all our equipments and our team can offer phone support, both technical and commercial, in the main European languages.

Our agents and distributors guarantee world wide distribution and technical assistance to our products.



AMP PISANI PRODUCTS

1. MACHINES FOR MOLDING BRA CUPS AND ROBOTS

- Fully automatic robot cutter for trimming foam bra cups
- Molding machines for foam and spacer fabrics class P88
- Molding machines for fabric with two molds class P92, P94, P96 and double machine P96/2 consisting of two units P96 connected to the same electric box
- Single head molding machine class P90 for small lots and prototyping (P90/BIG for large sizes)
- Molding machine for seamless bra class P84
- Special molding machines for technical applications

2. AUTOMATIC AND MANUAL ROLL SLITTERS FOR ANY APPLICATION

- Automatic and numerically controlled roll slitting machines class T/1000E, T/500, T/300E.
- Manual roll slitting machines class T/100E, T/50E and T/50HD

3. BIAS GROUP, WINDING MACHINES, PRESSING MACHINES AND OTHER EQUIPMENTS

- BIAS GROUP for the production of bias fabrics with warp and weft at 45 degrees, available in the automatic model class GCT and SPR/SYNCR0 or in simplified model class C/2000E and SPR/2000S.
- Automatic BIAS GROUP for sewing SISAL and cotton materials for polishing discs
- Automatic winding machines class APR and manual machines class APM
- Pressing machines for ribbons and waistbands class ROTOSTIR and MINISTIR
- Winding machines for ribbons in bobbins class BOBINATORE
- Hot cut machines class TX and MINICUT.
- Perforating machines for edge control ribbons class PERF

4. COLLARETTE CUTTING MACHINES AND BANDKNIFE

- Automatic collarette machines class TPM
- Manual collarette machines class 972
- Automatic machines for opening and rewinding the tubular fabric class SP/160
- Band knife machines class BK

5. MISCELLANEOUS EQUIPMENTS

- Automatic cutter for foam rectangles LTR/1600 and to cut/sew rectangles of fabric class LTR/1800
- Winding machines for fabric tapes AV/600
- Automatic sewing systems for waistband double piping with cord insertion and other special units.

Our R & D department is at your service for special applications and for customized projects..



AMP PISANI ROLL SLITTING MACHINES

AMP Pisani, a leading manufacturer of cutting room machines, has over 35 years of experience in the production of automatic and manual roll slitting machines for every application with high productivity, affordability, safety features and ergonomically designed for the operator.

Extensive experience in slitting allows AMP Pisani to offer solutions for any slitting request for fabric and non woven materials with or without adhesive and also polyethylene and PVC rolls, carbonium fibers, paper rolls, masking tapes, roofing materials, insulating tapes with foam and so on.

Our production range of automatic slitters consists of high performances models for heavy rolls class T/1000E and T500 with worm-screw positioning of the blade carriage plus model T/300E with pneumatic displacement of the blade carriage having an excellent price/performance ratio.

The manual roll slitting machine class T/100E is the best solution for cutting different types of rolled materials. The machine is ergonomically designed and easy to use by the operator as the blade carriage automatically indexes to the preset cutting width. The blade is totally enclosed in a guard and the operator can start the blade and roll rotation for the cut only if both hands are engaged on pushbuttons. The machine is available for slitting rolls up having length up to 3.000 mm.

The simplified semiautomatic roll slitting machine class T/50E, less expensive but with features similar to T/100E machine, can cut smaller rolls and it is the best solution for the end user.

We offer also a manual model T50/HD designed for slitting plastic foils in roll and other special applications

All the units comply with the strict European safety standards.



AMP PISANI RANGE OF SLITTING MACHINES

MODEL	TYPE	BLADE DIAMETER	ROLL DIAMETER	ROLL LENGTH
T/1000E (**)	Numerical Control	500 mm (19.6")	400 mm (15.7")	2.000 mm (*) (78.7")
T/500	Automatic	450 mm (17.7")	300 mm (11.8")	1.850 mm (*) (73")
T/300E	Automatic Pneumatic	450 mm (17.7")	250 mm (9.84")	1.830 mm (*) (72")
T/100E	Manual	450 mm (17.7")	300 mm (11.8")	1.850 mm (73") (*)
T50E	Manual	400mm (17.7")	250mm (9.84")	1.600 mm (****) (63")
T50/HD (***)	Manual	360 mm (14.2")	200 mm (7,87")	1.600 mm (****) (63")

Because of the continuous development, the technical datas are not binding. The company can vary them at any time without notice.

(*) Other length on requests

(**) Machine available on requests with blade diam. 600 mm for max roll dimensions 500 x 2.000 mm

(***) Machine for slitting laminated plastic foils (NOT for fabrics)

(****) Machine can load rolls up to 200 cm long but blade carriages move at 160cm max from the chuck

- Roll length** refers to the max displacement of the blade carriage from the chuck
- The maximum length of the roll that is possible to load on the machine is 2.400 mm (94.5") for T/1000E, 2.100 mm (82.6") for T/300E and T/500; 2.000 mm (78.75") for T/50
- The machine T/100E is available with longer roll shaft support to slit rolls long up to 300 cm (118.1") but with the max displacement of the blade carriage from the chuck of 183 cm(72")

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T/1000E

HEAVY DUTY NUMERICALLY CONTROLLED SLITTING MACHINE

NUMERICALLY CONTROLLED SLITTING MACHINE CLASSE T/1000E

The numerically controlled slitting machine for heavy rolls class T/1000E is the most technologically advanced of our production range and features a number of characteristics that make this machine unique in the market.

The standard roll dimension is diam.400 x 2000 mm and max roll weight 100 kg, the maximum displacement of the blade carriage from the chuck is 2000 mm. Machine is available on request for larger width and heavier rolls.

The machine is particularly suitable to cut adhesive tapes, laminated foam materials, coupled fabrics with adhesives, straight and bias fabrics, satin, polyester, plastic films, felt and non-woven materials, glass fibres, roofing materials and so on

FEATURES

- Numerically controlled positioning of the blade carriage with brushless motor and automatic cut with possibility to program up to 6 cutting measures for each automatic cycle.
- Adjustable roll rotation speed and blade rotation speed up to 600 RPM with 2 kW brushless motors closed loop and gearbox.
- Numerical control for the cutting movement of the blade to the roll to get a slow initial penetration speed in the material, the cut at the preset speed and a slow down near to the cardboard core
- Laser pointer to indicate the actual position of the blade on the roll.
- Self centering pneumatic double lock chuck on the cardboard and on the external diameter with possibility to adjust the locking pressure and adjustable mechanical stop to avoid an excessive pressure of the pliers on the roll in case of soft materials
- Automatic opening of the machine door with pneumatic cylinder and safety system to avoid the sudden drop in case of sudden power off or sudden interruption of the compressed air supply
- New Automatic blade sharpener on both sides with programmable time and frequency by the operating panel
- Automatic blade lubrication with adjustable frequency and lube on/off times
- Automatic roll diameter adjusting with measuring photocell to stop the reverse stroke of the blade carriage once the blade is completely out of the roll.
- Possibility to cut at constant speed with increasing roll rotation speed as the blade gets closer to the centre of the roll.
- Pivoting cutting head with adjustment of the angle between the blade and the roll controlled by brushless servomotor with commands on the machine panel and mechanical comparator with dial indicator to show the position reached.

- Pneumatic device to support the roll shaft during loading/unloading operations for an easier threading of the roll on the shaft
- Pneumatic movement of the roll shaft support at the extremity of the shaft with pneumatic device to lift the shaft for an easier clamping of the support.
- Machine can operate with a LOCKED BLADE SLITTING CYCLE. Cut done with blocked blade and little rotation after each cut with complete sharpening programmable after a preset number of cuts. This cycle is particularly suitable to cut adhesive materials to reduce the deposit of glue on the blade.
- Automatic measurement of the blade diameter (getting smaller for sharpening) with display of the actual diameter on the operating panel.
- All positioning drives of the machines are brushless. Roll motor, blade motor, blade positioning motors are controlled by a closed loop.
- Door on the rear side of the machine for easy access to the blade carriage with sensor to stop the machine immediately when opened
- Machine totally closed and highly safe for the operator. Automatic opening of the front door with pneumatic cylinders and safety system that prevents the fall in case of power off or no compressed air in the circuit
- The high technology and very sturdy construction of this unit makes it particularly suitable for heavy duty use and the complete control software guarantees a very easy use for the operator
- LED lights for very clear internal illumination of the machine
- PLC controlled machine equipped with a complete diagnostic software to inform the operator of any possible alarm and includes instructions to restart the unit on a touch screen graphic panel

DEVICES ON REQUEST

- T500/CLN Automatic blade cleaning system on both sides
- T1000/D60 Machine with blade diam. 60 cm for rolls max diam. 50 cm
- T1000/LNK Internet link for connection to AMP Pisani service for troubleshooting and software updates
- 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

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 datas : 6 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
- Maximum cutting speed : up to 10 cuts/minute



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T/500
AUTOMATIC ROLL SLITTING MACHINE

AUTOMATIC ROLL SLITTING MACHINE T/500

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 length 215 cm.

The machine can process most of materials in rolls (bias or warp and weft fabric, non woven with and without adhesive).

With special devices machine can slit even polyethylene and PVC rolls, carbonium fibers, paper rolls, masking tapes, roofing materials, insulating tapes with foam and other materials.

TECHNICAL FEATURES

- Automatic cut with high speed positioning of the blade carriage with wormscrew and BRUSHLESS motors with possibility of presetting up to 3 cutting widths (up to 999.99 mm each) and the number of cuts for each cycle
- Machine can also easily be operated manually.
- 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.
- Automatic sharpening of the circular knife (both sides) with adjustable sharpening time after a programmable number of cuts.
- Totally closed machine. Highly safe for the operator.
- Self centering pneumatic chuck with grippers to lock the roll on the cardboard and on the surface.
- Machine standard equipped with non rotating roll shaft. Rotating shaft on request with extra cost
- Pneumatic system to lift and support the roll shaft
- Blade penetration speed in the roll and force adjustable on continuous rate and photocell to stop the blade carriage movement when the blade is out of the roll (automatic roll diameter adjustment).
- PLC equipped machine with TOUCH SCREEN operator panel for message display and data entry.
- Cutting speed up to 8 cuts/min.
- Max roll dimensions: diam. 300 mm, length 2150 mm, weight Kg.60. For bigger rolls on requests

DEVICES ON REQUEST

- T300/SIL Automatic blade lubrication system for the blade with presettable lube on/off time
- T500/BMT Blade motor with power 2,2 Kw
- T500/CLE Automatic cleaning system on one side
- T500/CLN Automatic blade cleaning system on both sides
- T500/D50 Machine with blade diam. 50 cm for rolls max diam. 40 cm
- T500/D60 Machine with blade diam. 60 cm for rolls max diam. 50 cm
- T500/WAT Machine modified for blade cooling system with water
- T500/WLUB Double lubrication system with two tanks and selection of the liquid
- T500/L160 Machine for max roll length 160 cm

TECHNICAL DATAS

- Blade diameter:450 mm (other diameters on requests)
- Roll shaft diameter.....:50 mm (other diameters on requests)
- Voltage:400V ±5% 50Hz 3-phases (other voltages on request)
- Space requirements and weight.....:3100 x 1200 x 1600 (h) mm
- Installed power:2,7 kW
- Compressed air:6 bar
- Accuracy of blade positioning.....:±0.03 mm



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T/300E

PNEUMATIC AUTOMATIC ROLL SLITTING MACHINE

AUTOMATIC ROLL SLITTING MACHINE T/300E

Automatic pneumatic roll slitting machine for cutting rolls with max diameter 300 mm (12"), max blade carriage displacement from the chuck 1,850 mm (72³/₄) and possibility to load rolls with max length 2,000 mm (78³/₄). The machine can process most of materials in rolls (bias or warp and weft fabric, synthetics, PVC, polyester, non woven fabrics, paper rolls, etc.).

FEATURES

- Automatic cut with pneumatic displacement of the knife carriage with presettable cutting quantity and cutting width on a screw
- Max cutting width: 200mm (7³/₄). Possible to set multiple displacements before slitting for larger cuts (Example: for cutting 600 mm, set 3 displacements 200mm each before slitting)
- Machine can also easily be operated manually.
- Roll adjustable speed with digital inverter (up to 300 rpm) standard on the machine with possibility to change the roll rotation direction.
- Self centering chuck with grippers to lock the roll on the cardboard and on the external diameter.
- Automatic sharpening of the circular knife (both sides) with adjustable sharpening time and sharpening frequency.
- Totally closed machine. Highly safe for the operator.
- Photocell to detect automatically the roll diameter
- Blade penetration speed and force adjustable on continuous rate.
- Machine controlled by PLC and equipped with touch screen panel for data entry, message display and diagnostic functions.
- Cutting speed up to 6 cuts/min.

DEVICES ON REQUEST

- T300/SIL Automatic blade lubrication system with presettable lube on/lube off time
- T300/INVL Blade adjustable speed with digital inverter up to 600 rpm
- T100/D45 Extra price for blade diam. 45 cm max roll diam. 30 cm
- T500/BMT Blade motor with power 2,2 Kw
- T500/D50 Machine with blade diam. 50 cm (20") for rolls max diam. 40 cm (16")
- T500/D60 Machine with blade diam. 60 cm (24") for rolls max diam. 50 cm (20")

TECHNICAL DATAS

- Blade diameter :450 mm (18")
- Roll shaft diameter :50 mm (other measures on requests)
- Voltage :400V ±5% 50Hz 3-phases (other on request)
- Space requirements and weight :3000 x 1200 x 1600 (h) mm
- Installed power :2,3 kW
- Compressed air :6 bar
- Accuracy of blade positioning : ±0.3mm



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T/100E

MANUAL ROLL SLITTING MACHINE

MANUAL ROLL SLITTING MACHINE CLASS T/100E

The manual slitting machine T/100E with semiautomatic movement of the blade carriage to the cutting measure can easily slit with the highest safety for the operator most of materials in roll (bias or straight fabrics, synthetic, polyester, non-woven, synthetic leather, adhesives, PVC, etc.).

TECHNICAL FEATURES

- Highly safe for the operator. The blade is totally protected by a guard and the operator can perform the cut only if both hands are on a pushbutton and on the cutting lever.
- Fast pneumatic displacement of the blade carriage. The operator pushes a button and the blade carriage indexes to the cutting width on graduated knob.
- Double sharpening of the circular knife (both sides) with a motor driven main grindstone and an auxiliary grindstone to remove the sharpening burrs. On requests main grindstone in borazon.
- A diamond for grindstone dressing is included.
- Pneumatic device to lift the roll shaft on the side of the support.
- Self centering chuck with external grippers for the cardboard and for the roll.
- PLC controlled machine.
- Machine available on requests for max roll weight Kg.100 or for special applications

DEVICES ON REQUEST

- T100/SIL Blade lubrication system
- T300/INVL Blade speed control with inverter
- T300/INVP Roll speed control with planetary variable speed drive
- T100/REV Winding device to rewind rolls on the paper tube in the roll shaft support
- T100/CM Mechanic meter counter for T100/REV winding device
- T100/3MT Extra for machine with roll shaft length up to 300 cm (9 feet)
- T100/D50 Extra price for blade diam. 50 cm (20") max roll diam. 40 cm (15" $\frac{3}{4}$)
- T100/BAR Extra roll shaft support with diameter at choice (between 34 and 55 mm)
- T100/B75 Extra roll shaft support with diameter 75 mm (3")
- T100/FLA Flange with springs for roll support
- T100/LFT Pneumatic lifting device for roll shaft on blade carriage (for heavy rolls)
- T100/FWD Automatic movement of the blade towards the roll with adjustable speed

TECHNICAL DATAS

- Roll dimensions:diameter 30 cm x 185 cm⁽¹⁾ Kg.50 max
- Accuracy of blade positioning:±0.3 mm
- Blade diameter:45 cm (18" approx). Blade with diameter larger than 50 cm (20") available on request
- Roll shaft diameter Standard 49,3 mm – On request from 34 to 75 mm
- Installed power and voltage:2,2 kW 400V ±5% 50Hz 3-phases (other voltages on request)
- Compressed air:6 bar

(1) Rolls up to 220 cm can be loaded but the first cut can be done at a maximum distance of 185 cm from the chuck.



T100/REV Winding device for rolls

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T/50E

SEMI-AUTOMATIC ROLL SLITTING MACHINE

SEMIOMATIC ROLL SLITTING MACHINE CLASS T/50E

The T/50 manual slitting machine with semiautomatic movement of the blade carriage to the cutting measure can cut easily with the highest safety for the operator most of materials in rolls (bias or straight cut, polyester, non-woven, synthetic leather, PVC, interlinings, adhesives and so on).

Machine has been designed with the utmost attention to safety features to obtain, **for the first time in the market**, from **IMQ** (Istituto Italiano del Marchio di Qualità - Italian Institute for Quality Trademarks) the **Certification of Examination “CE” for standards 2006/42/EC**. The complete project of the machine with engineering calculation of all components has been deposited by IMQ organization that has certified the conformity to “CE” European Community Safety Standards. This means that, while AMP PISANI issues the “CE” certification of the machine, **IMQ** (Independent organization) **confirms that the unit meets the requirements of the aforementioned Directive**.

TECHNICAL FEATURES

- Highly safe for the operator. The blade is totally enclosed and the operator can do the cutting operations only when both hands are engaged.
- Semiautomatic pneumatic positioning of the blade carriage. The operator presses a button and the blade carriage indexes to the preset measure.
- Manual blade sharpening of the blade on both sides with motor driven main grindstone and an auxiliary stone for removing the sharpening burrs.
- Machine includes a diamond to dress the main grindstone.
- Self-centering mechanic chuck with double locking of the roll on the external of the roll (3 pliers) and one extra plier to lock the cardboard core
- Cutting width easily presettable on a graduated knob with magnifying glass for a clear view of the ruler
- PLC Controlled machine

DEVICES ON REQUEST

- T50/SIL Manual blade lubrication system
- T50/INVP Adjustable roll speed with inverter up to 400 RPM
- T50/INVL Adjustable blade speed with inverter up to 600 RPM
- T50/FLA Flange with springs for roll support
- T50/BAR Extra roll shaft support with diameter at choice (between 34 and 75 mm)
- T50/REV Winding device to rewind rolls on the paper tube in the roll shaft support
- T 50/CM Mechanic meter counter for winding system (not for knitted fabric)

TECHNICAL DATAS

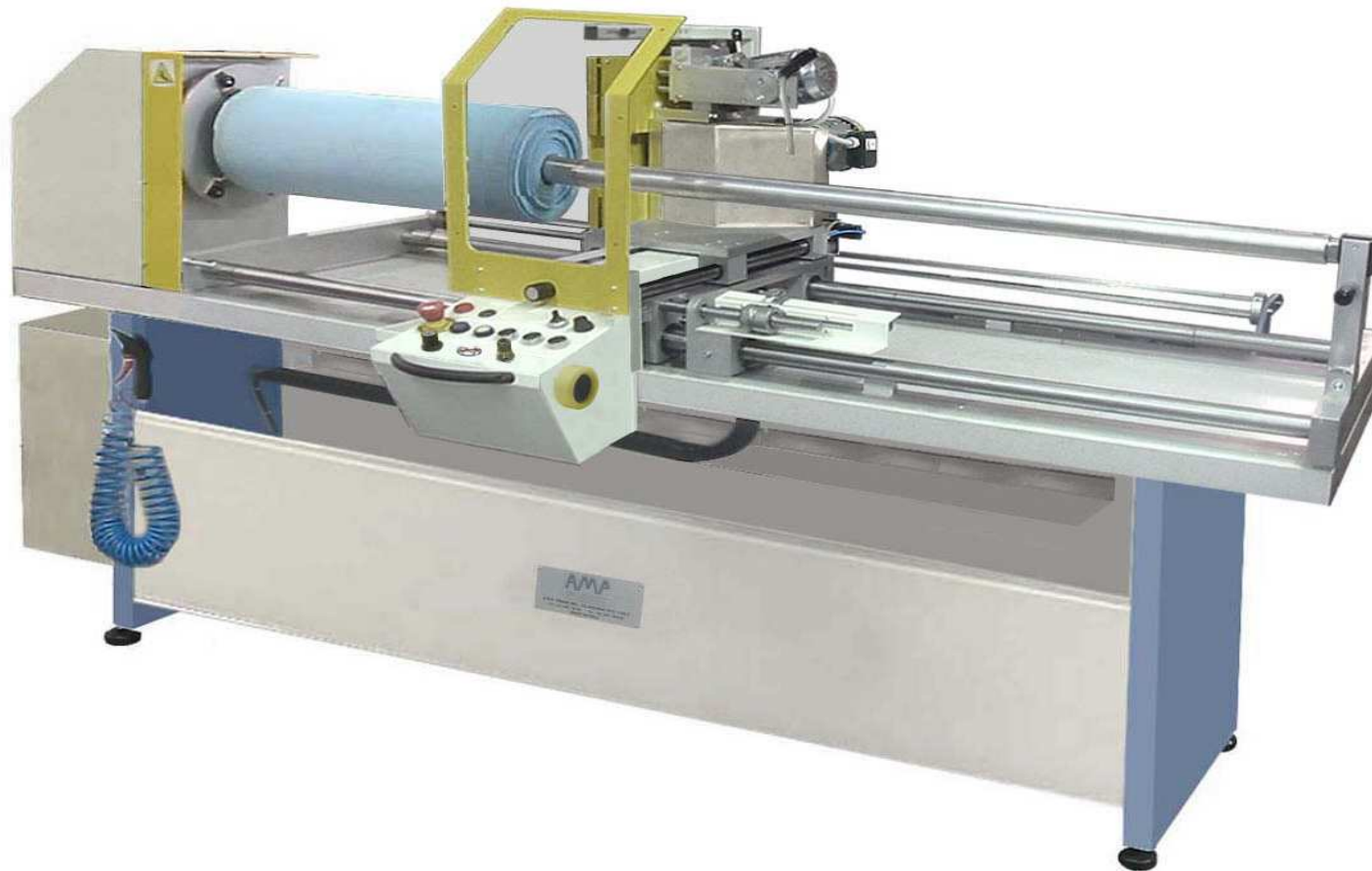
- Roll dimensions: diameter 250 mm x 2000 mm ⁽¹⁾ Kg.20 max
- Accuracy of blade positioning: ± 0.3 mm
- Blade diameter: 400 mm
- Roll shaft diameter: 49 mm (from 33 to 49 mm on request)
- Electric datas: 2,2 kW 400V 50Hz 3-phases (other voltages on request)
- Compressed air: 6 bar
- Space requirements: 2500 x 1000 mm approx.
- Net weight: 400 kg

(1) Rolls up to 2000 mm can be loaded but the first cut can be done at a maximum distance of 1600 mm from the chuck





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T/50HD

MANUAL ROLL SLITTING MACHINE FOR PLASTIC FILMS

MANUAL SLITTING MACHINE FOR PLASTIC FILMS CLASS T/50HD

The T/50HD manual slitting machine is specifically projected to cut plastic films such as polyethylene or polyurethane but it can cut also most of materials in rolls.

TECHNICAL FEATURES

- Highly safe for the operator. The blade is totally enclosed and the operator can do the cutting operations only when both hands are engaged on two pushbuttons
- Fast pneumatic positioning of the blade carriage. The operator presses a button and the blade carriage indexes to the preset measure on a screw.
- Fixed blade rotation speed (70 RPM) and fixed roll rotation speed (140 RPM)
- On requests, adjustable roll rotation speed with inverter (T50/INVVP)
- Automatic movement of the blade towards the roll at the maximum speed and photocell to slow down the speed to the preset cutting speed just before the blade reaches the roll to cut
- Adjustable cutting force and cutting speed to obtain an absolutely uniform cut along the roll.
- Manual blade sharpening of the blade on both sides with motor driven main grindstone in Borazon and an auxiliary stone for removing the sharpening burrs and diamond to dress the main grindstone.
- Blade cooling system available on requests
- Mechanic chuck with double locking of the roll on the external of the roll (3 pliers) and one extra plier to lock the cardboard core
- Cutting width easily presettable on a graduated knob with magnifying glass for a clear view of the ruler

DEVICES ON REQUEST

- T50/SIL Manual blade lubrication system
- T50/BAR Extra roll shaft support with different diameter
- T50/INVVP Adjustable roll speed with inverter

TECHNICAL DATAS

- Roll dimensions:diameter 200 mm x 2000 mm ⁽¹⁾ Kg.20 max
- Accuracy of blade positioning:±0.3 mm
- Blade diameter:360 mm
- Roll shaft diameter:50 mm (on request 75mm)
- Electric datas:2,2 kW - 400V 50Hz 3-phases (other voltages on request)
- Compressed air:6 bar
- Space requirements:2500 x 1000 mm approx
- Net weight:400 kg

⁽¹⁾ Rolls up to 2000 mm can be loaded but the first cut can be done at a maximum distance of 1600 mm from the chuck.