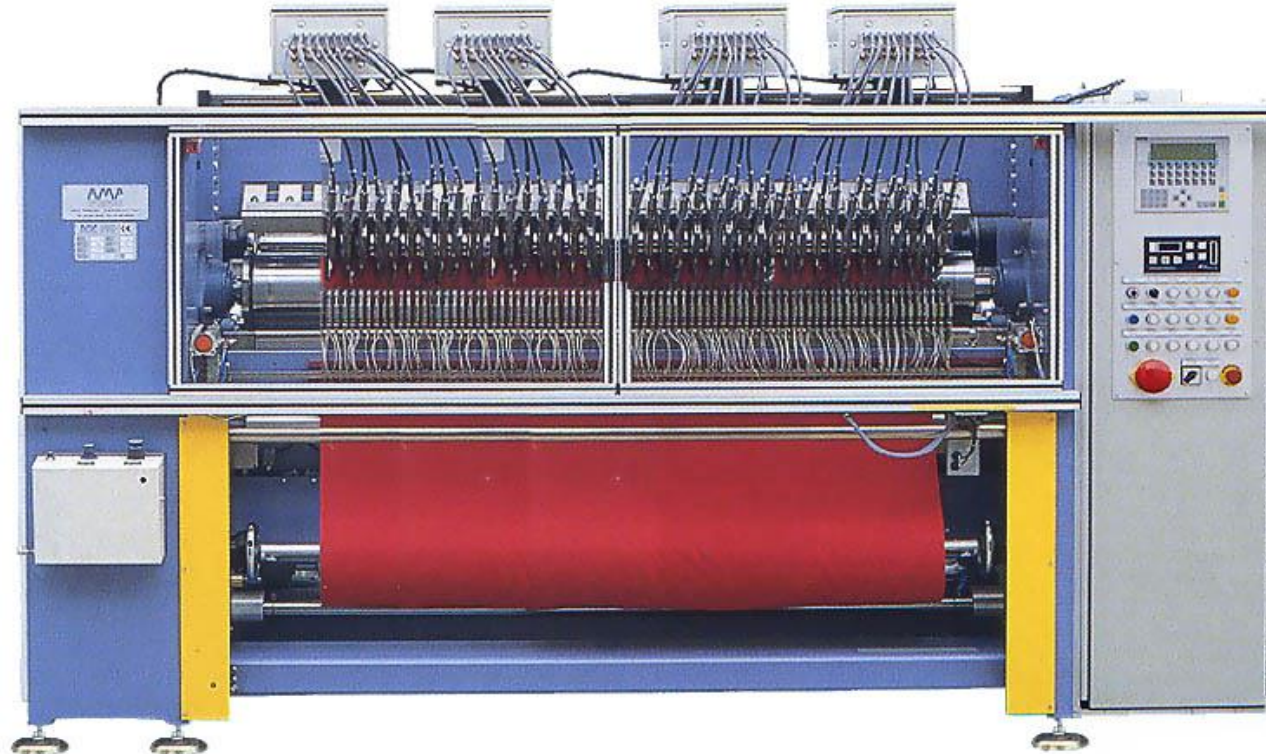




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**TX/1800**

**HOT AND COLD SLITTING/REWINDING MACHINE**

## HOT AND COLD SLITTING/REWINDING MACHINE CLASS TX/1800

The high productivity slitting/rewinding unit for hot and cold cut class TX/1800 can slit most of materials in roll (polyester, nylon, plastic, paper, films, laminated, non woven, PVC and so on) including tension sensitive material.

The versatility of the unit enables easy slitting of virtually all materials with:

- a) Crush-cut rotary blades or razor knives for hot cut
- b) Cold cut rotary blades

The machine is modular and it is possible to equip it with different combinations of knives depending on the customer's use and it is also available for roll widths larger than the standard.

### TECHNICAL FEATURES

- Unwinding section for rolls up to diam. 40cm or 16" / max width 180 cm or 71" (machines with widths up to 300cm and larger roll diameters are possible on requests) and a rewinding section on two shafts for the cut material.
- The unwinding system of the fabric roll to be slit is equipped with an electromagnetic brake to adjust the unwinding tension.
- The cut rolls are rewound on two expanding shafts equipped with electromagnetic clutch to adjust the rewinding tension with a special automatic rewinding tension control system that guarantees a constant rewinding tension while the rewound rolls increase their diameter during the cutting operation.
- A vacuum system can remove the selvage on the two sides of the roll.
- The shaft support for the slit rolls is equipped with a pneumatic device to lock quickly all the cardboard cores and it is possible to remove from the machine to avoid stopping production downtimes during the loading/unloading operations.
- The cutting width is obtained by positioning the knives on a rack using special gauges that can make this operation quicker.
- A photocell stops the machine before the fabric is finished (for an easy threading of the machine with new fabric that can be joined to the end of the previous fabric).
- The cut is achieved by the knives on an HSS hardened steel bush of large diameter that supports the cutting blades.
- The pressure of the knives on the fabric, the temperature, the cutting speed and the rewinding tension are adjustable.

The heated knives are available in 2 models:

**TC/HRT** Hot cut circular rotary blades "crush-cut" with single temperature control, built-in thermocouple on each resistance and single up/down movement with pneumatic cylinder for each blade

**TC/HFX** Razor-cut knife for hot cut with one thermocouple to control the heating of all knives.

- The heated knives are grouped on two different supports, one for the razor cut knives TC/HFX and one upper beam with two opposite rows either for the heated crush-cut rotary blades TC/HRT or for the cold crush cut rotary knives TC/CLD
- Single positioning of the rotary blades TC/HRT on the fabrics with a pneumatic cylinder for each device and possibility to store and retrieve in the memory of the computer which controls the cutting configuration.
- The fixed knives TC/HFX are mounted on a support that moves towards the fabric with pneumatic displacement.
- The machine can be equipped with a maximum of 80 rotary knives class TC/HRT and 90 knives class TC/HFX and TC/CLD.
- PLC controlled machine equipped with an operator panel for online troubleshooting and data settings ( meter counter and temperature). It is also possible to display the actual temperature values on each crush cut rotary knife TC/HRT.

### DEVICES ON REQUEST

- TX/AAL Automatic alignment system with photocell for the unwinding section of the roll with possibility to disable it.
- TX/BMR Beam for support of the crush cut heated rotary knives
- TX/CRS Electronic system with single temperature control for heated crush-cut knives TX/HRT
- TX/SHA Extra roll shaft support with diameter on requests

### TECHNICAL DATAS

MACHINE	Cutting speed .....adjustable up to 80 mt/min. Max roll diameter to cut .....40 cm / 16" (larger diameter on requests) Max diameter of the cut roll .....40 cm / 16" (larger diameter on requests) Voltage .....400V 50Hz 3-phases+N+PE (other on request) Max roll width .....180 cm / 71" (larger width up to 300cm/118" on request) Max roll weight .....Kg. 200
TC/HRT	HEAT CUT ROTARY KNIFE Maximum temperature on the knife ...:330°C Maximum cutting pressure .....up to 4bar Minimum cutting width .....:10mm-6/16"(knives on two rows) .....:20mm-12/16"(knives on one rows) Maximum cutting speed .....:30 mt/min - 33 yards/min Digital temperature control on each knife
TC/HFX	RAZOR CUT HEAT CUT KNIFE Maximum temperature on the knife ..:600°C Minimum cutting width .....:10 mm - 6/16". Maximum cutting speed .....:80 mt/min - 88 yards/min
TC/CLD	COLD CUT CIRCULAR ROTARY KNIFE Max cutting pressure .....up to 8 bar Minimum cutting width .....:16mm-10/16" (knives on two rows) .....:8mm-5/16" (knives on one row) Maximum cutting speed .....:80 mt/min - 88 yards/min