



English

ADVANCED LABEL TECHNOLOGY

TNU 500

Ultrasonic slitting machines for woven labels and narrow fabrics



TNU 500

Configuration

- 1 unwinder for the bobbin at the input: pneumatic expansion shaft with adjustable web tension (standard diameter 75 mm - 3 in);
- Input web tension control by means of electronic regulator supplied with sensor and electro magnetic clutch;
- Input web centring device operated by 2 photocells that read on the two edges of the web;
- Ultrasonic cutting system supplied with an automatic calibration device that adjusts the ultrasonic power according to the material thickness and to the cutting speed in order to always obtain the highest quality of cutting;
- 2 rewinders for the ribbons at the output: pneumatic expansion shaft with adjustable web tension (standard diameter 75 mm - 3 in);
- Matrix expeller with web tension control;
- Control panel for the regulation of all the operational functions: from the display it is possible to supervise and adjust all the parameters and make the diagnostics;

CE regulations safety protections.

Available accessories

- **SU 35:** ultrasonic welding unit to splice the material.
- **L GUIDE SYSTEM:** special photocell that reads continuous or broken guide lines woven on the web and allows the maximum precision even when slitting uneven fabrics.
- **CALENDER** to iron the ribbons at the output.
- **MICRO SLIT 45:** special slitting device for ribbons of 4,5 mm (3/16 in) minimum width. It is possible to slit up to 21 ribbons of 4,5 mm (3/16 in).
- **SPOOLING** device to rewind on spools up to 12 ribbons of 4,5 mm (3/16 in) minimum width. Complete with 12 rewinding shafts operated by servo motor and equipped with independent clutch.
- **UNWINDER FOR TUBULAR LABELS:** supplementary pneumatic expansion shaft at the input for coupling a smooth fabric with the web. Thanks to the ultrasonic slitting the two tapes are welded together in order to obtain the "tubular" effect.

Available blade holders

- **COMPACT BLADE-HOLDER** for slitting ribbons of 9 mm (11/32 in) minimum width, supplied with 1 blade for the taffeta (0,5 mm) and 1 blade for the satin (0,3 mm).
- **FAST BLADE-HOLDER** for slitting ribbons of 9 mm (11/32 in) minimum width. Easily and quickly extractable from the rail thanks to a special hook system. Supplied with 1 blade for the taffeta (0,5 mm) and 1 blade for the satin (0,3 mm).
- **PRESSING BLADE-HOLDER** for slitting ribbons of 10 mm (3/8 in) minimum width, supplied with sharp-edged blade (V blade) and compacting system suitable for plain satin web without selvage. Easily and quickly extractable from the rail thanks to a special hook system.

Applications

- **Ultrasonic slitting and sealing**
Of ribbons up to a minimum width of 4,5 mm (3/16 in)
- **Rewinding and/or spooling**
- **Coupling for tubular labels**



Technical data	TNU 520	TNU 530	TNU 540	TNU 550
Ultrasonic groups	2	3	4	5
Max. Width of the ribbon to slit	210 mm - 8 17/64 in	310 mm - 12 13/64 in	410 mm - 16 9/64 in	510 mm - 20 5/64 in
Minimum slit ribbon width	9 mm (11/32 in)	9 mm (11/32 in)	9 mm (11/32 in)	9 mm (11/32 in)
Minimum slit ribbon width micro-slit45	4,5 mm (3/16 in)	4,5 mm (3/16 in)	4,5 mm (3/16 in)	4,5 mm (3/16 in)
Ultrasonic frequency	35 kHz	35 kHz	35 kHz	35 kHz
Productivity	up to 60 m/minute (65 yd/minute)	up to 60 m/minute (65 yd/minute)	up to 60 m/minute (65 yd/minute)	up to 60 m/minute (65 yd/minute)
Power supply	400 V three-phase 50 Hz	400 V three-phase 50 Hz	400 V three-phase 50 Hz	400 V three-phase 50 Hz
Consumption	3 kW	4 kW	5 kW	5,5 kW
Dimensions	(2170 x 1050 x 2020 h) mm (86 x 42 x 80 h) in	(2170 x 1050 x 2020 h) mm (86 x 42 x 80 h) in	(2170 x 1050 x 2020 h) mm (86 x 42 x 80 h) in	(2170 x 1050 x 2020 h) mm (86 x 42 x 80 h) in
Weight	from 650 Kg (1432 Lb) to 750 Kg (1652 Lb)	from 650 Kg (1432 Lb) to 750 Kg (1652 Lb)	from 650 Kg (1432 Lb) to 750 Kg (1652 Lb)	from 650 Kg (1432 Lb) to 750 Kg (1652 Lb)



TNU 540



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