



LABORATORY PLANT **LABLINE**

Textile and synthetic finishing systems



PILOT PLANT " LABLINE 750 "

TECHNICAL SPECIFICATIONS

Working width 750 mm.

Nominal rollers width 800 mm.

Working possibilities:

- Reverse cylinder coating
- Synchro cylinder coating
- Coating with knife by scraping
- Coating with knife by thickness
- Wet laminating
- Dry laminating "one coat system"

Plant complete with drying tunnel, gas burner (GPL o Methane) and heating system by air blades.

Electric system controlled by PLC with the following functions: engraved cylinder speed, rubber roller speed, pulling rollers speed, tension of the support to be coated, alarm diagnostic and working parameters memorization.

Plant complete with thermal regulator of the drying tunnel and thermal regulator for the "one coat" cylinder.

The machine is supplied complete of: two doctor coating blades profiles P 20 and R 30, one coating roller, pneumatic expansible shafts.

The machine is supplied with adjustable feet for the fixing on the ground.

The machine is CE marked, according to the "machines directive 98/37 CEE".

AVAILABLE OPTIONS

- Cylinder heating system
- Lower scraping blade for "on-air" coating (suggested for fabric)

Multifunctional pilot plant for laboratory with working possibility by coating knife and cylinder complete with oven and wet bonding or "one coat".

APPLICATIONS:

Applications	PILOT PLANT " LABLINE "
On fabric by knife	<ul style="list-style-type: none"> - Precise coatings by thickness - Foaming products coatings by thickness - Direct coating by scraping on air for resining, impregnation and finishing for technical articles
On fabric by cylinder	<ul style="list-style-type: none"> - Resining with reverse working system - Precise coatings with reverse working system - Design printing with synchro system
On synthetic leather by knife	<ul style="list-style-type: none"> - Finishing and adhesive coatings by thickness
On synthetic leather by cylinder	<ul style="list-style-type: none"> - Coating with reverse working system of every products - Design printing and "millepunti" effects with synchro working system
On release paper whether by knife or cylinder	<ul style="list-style-type: none"> - Coatings with knife by thickness or cylinder with reverse system to create PU and PVC films - Double tone effects and design printing with synchro working system
Bonding	<ul style="list-style-type: none"> - Of films created with the same plant with: leather, synthetic leather, fabric with wet system or "one coat " - Of films already prepared with, leather, synthetic leather, fabric, with wet system or "one coat". - Of general fabric and synthetic supports with wet system or "one coat"

Reasons for choosing

MAXIMUM USE FLEXIBILITY:

The coating head is equipped for the following operations:

- Coating with doctor blade for "thickness" coating;
- Coating with doctor blade for "on-air" coating;
- Reverse finishing with engraved roller for coatings on films or product. An important aspect:
- the reverse roller system enables the use of water based products. Excellent for foamed products too;
- Synchro applications with "mille point" roller for special effect finishing on embossed synthetic leather, two tones effects, lacquering. Using a design roller, it's ideal for print finishes and special effects.

RECOMMENDED FOR LEADING LAMINATING SYSTEM:

Thanks to laminating calenders, composed by two nip rollers, it offers:

- Wet lamination system (with application of adhesive, fabric lamination and reticulation in the dryer)
- One-coat processing system (with application of adhesive, drying coupling at the dryer exit, melting of thermal adhesive by a heated cylinder).

EASY TO USE:

Rapid changes of the coating head: changeovers from doctor blades to roller finishing system (and vice-versa) take very little time.

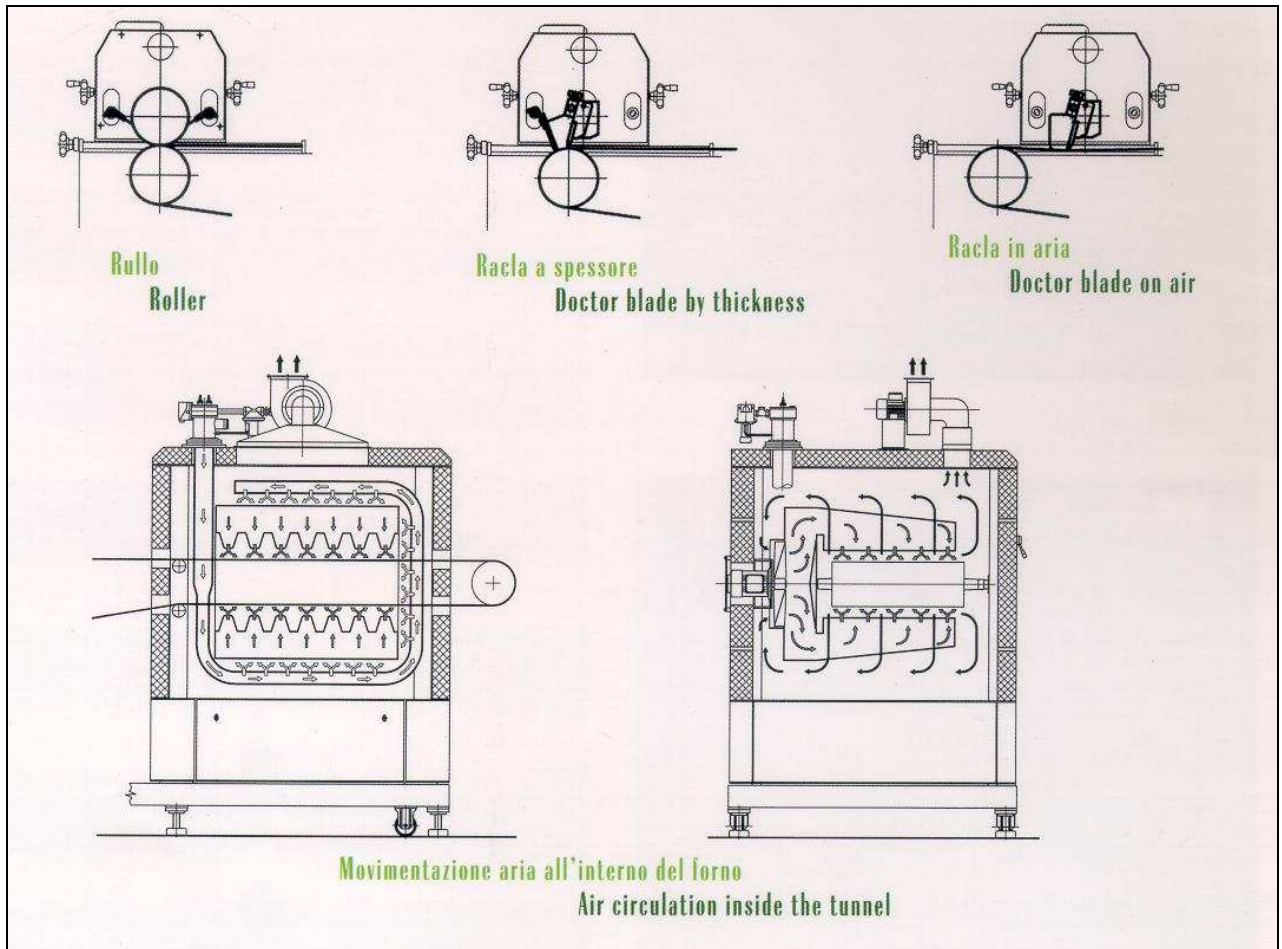
All thickness adjustments and pressure adjustments are easy to set and controlled by high precision instruments (centesimal comparators).

Machine controls are easily accessible.

LOW RUNNING COSTS:

The system is highly economical in every respect:

- it cuts down on chemical products, electrical power, release and support paper;
- only one operator is required;
- very easy to install thanks to its compact size.



Air blades of drying oven

- ❶ Production capability exactly accordingly to industrial production parameters
- ❷ Continuous operation processing
- ❸ Multi-purpose coating head, accurate and sturdy
- ❹ Multi-purpose (choice of traditional coating by doctor blade and innovative by roller)
- ❺ Drying at constant temperature
- ❻ Mimised running costs
- ❼ High operational speed
- ❽ One operator only
- ❾ Compact size
- ❿ Innovative design



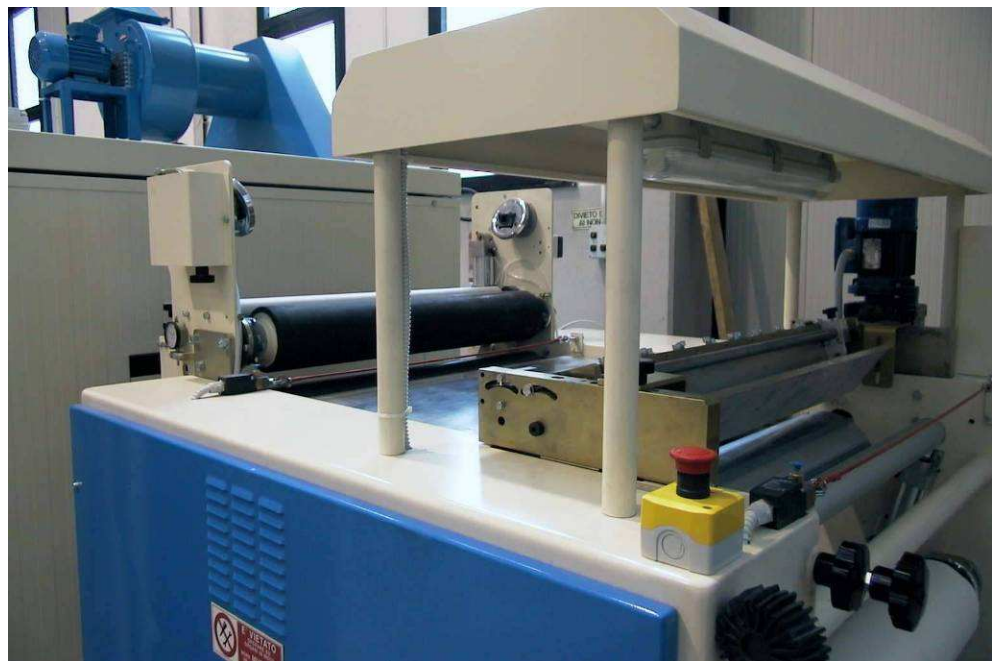
"Wet lamination" detail



"One Coat" system detail



Vista Frontale / Front View



Testa Di Spalmatura e Accoppiamento / Coating Station and Laminating

LABLINE



Vista frontale



Pannello Comandi / Control Panel

POSITIVE ROLLERS FOR REVERSE ROTATION:

ROLLER TYPE	capacity per square foot (g x sq/ft.)	capacity per square meter (g x mq)
8B	33 - 40	355 - 430
10B	24 - 33	258 - 355
10C	18 - 27	194 - 290
20B	15 - 25	162 - 269
20C	12 - 18	129 - 194
30-	10 - 16	108 - 172
30X	8 - 12	86 - 129
30C	5 - 10	54 - 108
30F	3 - 6	32 - 65
50C	3 - 6	32 - 65
55C	2 - 5	21 - 53
55F	1 - 4	10 - 43
60A	1 - 3	10 - 32

HELICOYDAL ROLLERS FOR REVERSE ROTATION:

ROLLER TYPE	capacity per square foot (g x sq/ft.)	capacity per square meter (g x mq)
40G	2 - 5	11 - 54
30G	3 - 7	32 - 75
25G	5 - 10	54 - 107
21G	7 - 14	75 - 150
17G	10 - 16	107 - 172
14G	12 - 18	129 - 193

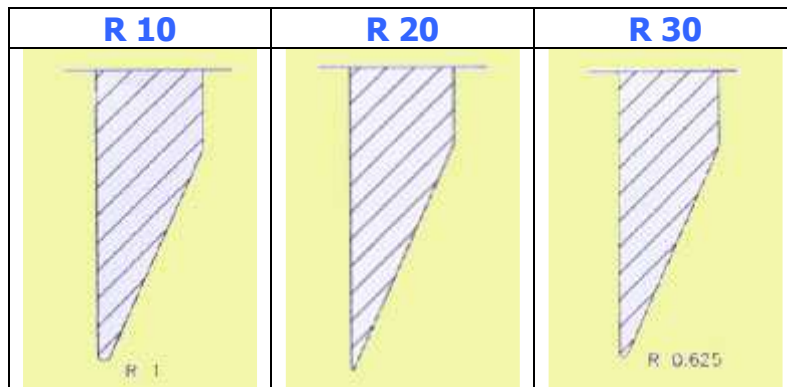
NEGATIVE ROLLERS FOR SYNCHRO ROTATION:

<i>Type of roller "Synchro"</i> Tipo cilindri "Sincro"	<i>Capacity Gr./sq.ft.</i> Portata Gr./p.q.	<i>Capacity Gr./sq.mt.</i> Portata Gr./mt.q.
6 L	14-18	150-192,6
8 L	12 – 16	129 – 172
10 L	10 – 14	108 – 151
12 L	9 – 13	98 – 140
16 L	6 – 9	65 – 98
20 L	5 – 8	54 - 86
24 L	4 – 7	43 – 76
32 L	2 – 4	21 – 43
40 L	1 – 3	10 – 32
48 L	1 – 2	10 – 21
60 L	1	10

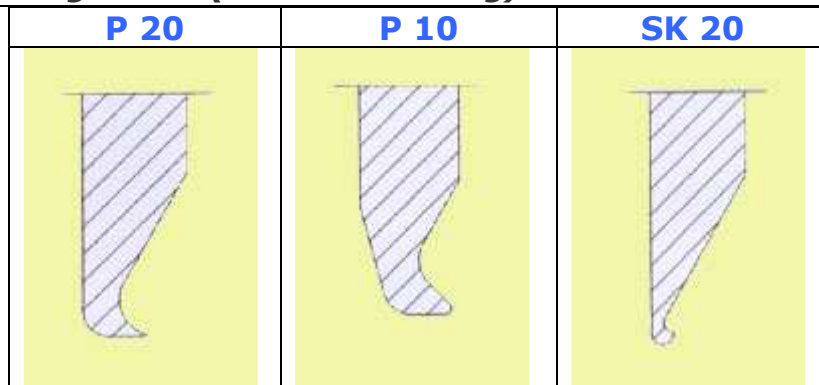
THE CAPACITIES ARE PURELY INDICATIVE. THEY VARY IN FUNCTION OF :

- ⇒ ROTATION SPEED OF ENGRAVED CYLINDER
- ⇒ RELATION BETWEEN THE SPEED OF MOVEMENT AND ENGRAVED CYLINDER
- ⇒ LEATHERS PREPARATION
- ⇒ DENSITY OF PRODUCT
- ⇒

Profiles of coating knives (scraping, "on air", floating knife)



Profiles of coating knives (thickness coating)



Alimentazione elettrica potenza installata Kw26,5 (impianto con scambiatore elettrico Kw20)

Alimentazione acqua raffreddamento e lavaggio portata 0,6 mc/h

Alimentazione aria compressa 7 Bar

Dati tecnici:
 barra portabobine espansibile con attacco quadro .25x25
 bobina svolgitori: diametro massimo 250mm
 bobina infermedia: diametro massimo bobina 250mm
 bobina inferiore: diametro massimo bobina 350mm
 bobine su calendare: diametro massimo 300mm

02	01	00	10/12/03	CREAZIONE	BARTOZZO G.	BARTOZZO G.
REV.	DATA	DESCRIZIONE	DESCRIZIONE		DESCRIZIONE	DESCRIZIONE
MATERIALE - MATERIAL		REGIONALIZZAZIONE - DENOMINATION	IMPIANTO PILOTA			
		MODELLO "LABLINE 750"	SCALA - SCALE			
			1:30			
			SOSTITUIRE L. - REPLACE THE			
			SOSTITUIRE DA. - REPLACE BY:			
			CODICE FINITO - FINISHED CODE			
			ROJ26556			
			REV. 00			

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