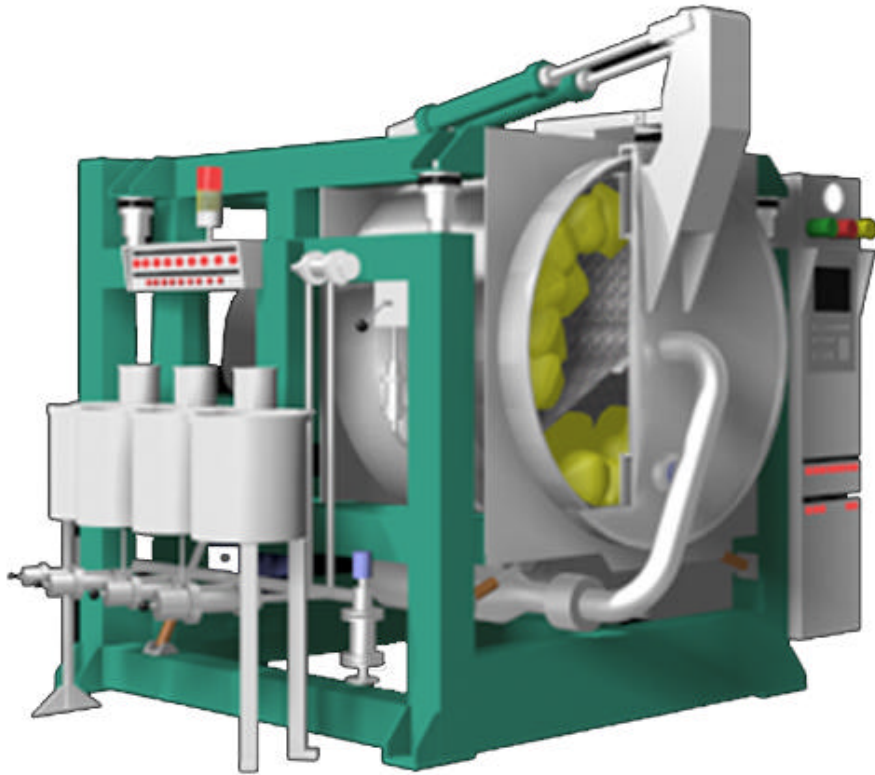


ROTOBEL



**THE STATE OF THE ART IN
HOSIERY AND GARMENT DYEING**



Dyeing machines

THE STATE OF THE ART IN HOSIERY AND GARMENT DYEING

ROTOBEL is born from the close collaboration between manufacturer and users, and it embodies a wide range of really innovative developments:

COLOR JUST-IN-TIME

- ROTOBEL operates at variable loading (from 35 up to 80/100 kg) and at constant liquor ratio.

- Rapid dyeing and high-speed extraction in the same machine.
- Dyeing of small batches for JIT processes, to eliminate inventories.
- Fantastic flexibility for quality dyeing of a wide range of articles.

RADIAL LIQUOR FLOW AT CONTROLLED INTENSITY PLUS CENTRIFUGAL ACTION.

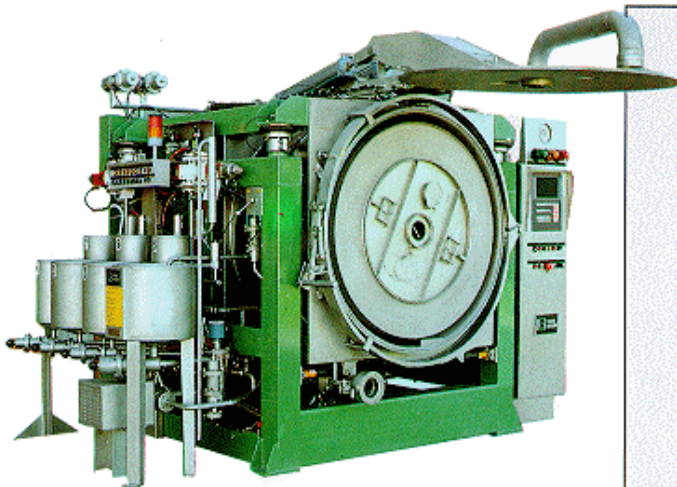
ROTOBEL integrates two systems:

- the soft processing of static dyeing machines by liquor circulation
- the centrifugal force.

- Liquor speed through scroll-type section of chamber prevents pump cavitation at low liquor ratio.
- Intensity of liquor circulation can be programmed in accordance with type of material and dyestuffs classes, for accurate dyeing of delicate and crease-sensitive hosiery:
- Panties in Acrylic/Nylon and Cotton/Nylon.
- Pantyhose and tights in Microfibre and Microfibre/Cotton
- Hosiery and support hosiery in Lycra (TM DuPont)/Nylon and Lycra/Cotton.
- Man's socks in cotton, mercerized cotton, wool, acrylic
- Sweaters and ready-made knitted or woven garments.



ROTOBEL is completely wired to control panel and LEONARDO microprocessor.



*ROTOBEL has a double lid with sampling ports.
Standard supply of 7-tank color kitchen to minimize the interventions of the operator and suited for linking with computer dyes/chemicals dispensing.*

**SIMPLE INSTALLATION,
OPERATION AND
MAINTENANCE.**

ROTOBEL has been designed jointly with the user.

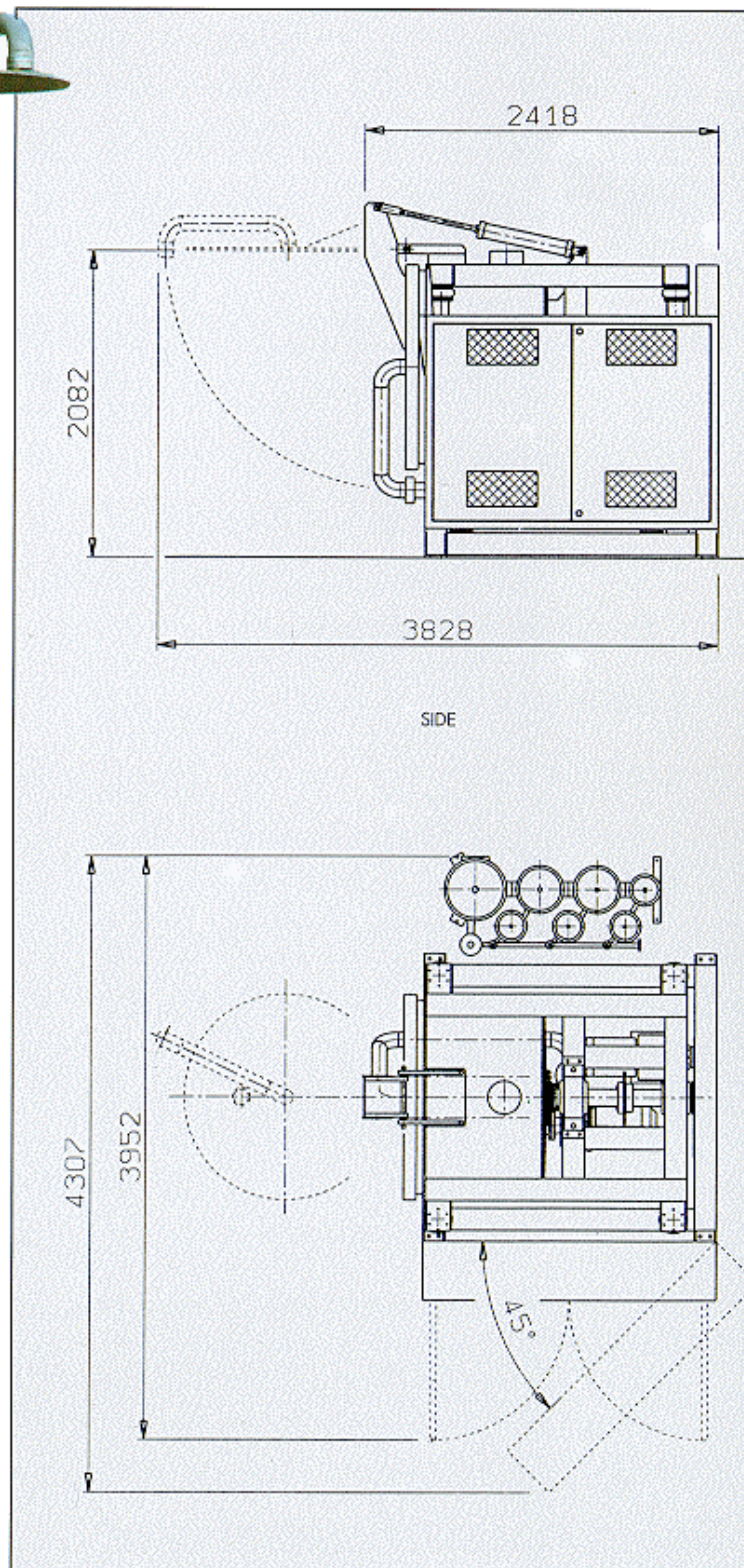
- Installation at floor level without foundations and civil works.
- Hydropneumatic system for vibration dumping.
- Rugged construction in AISI 316 stainless steel.

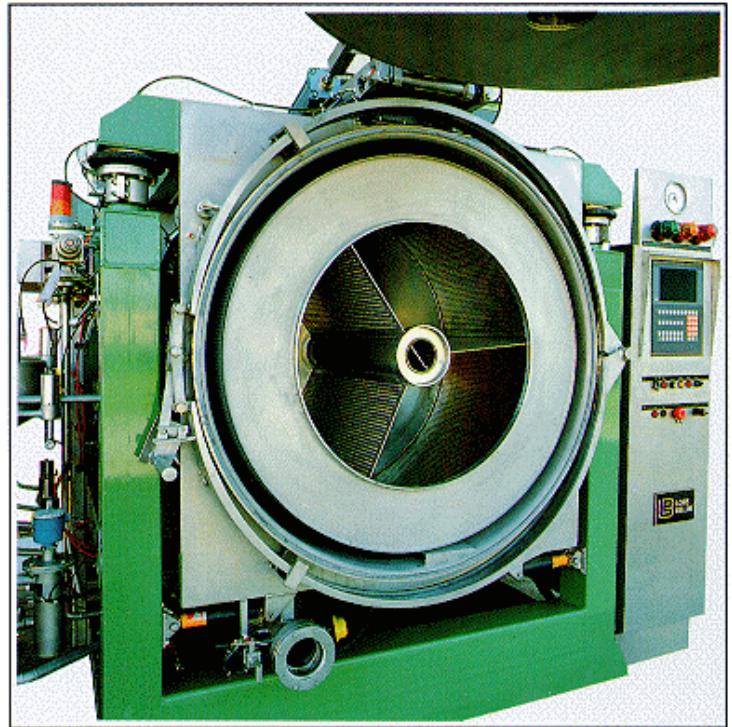
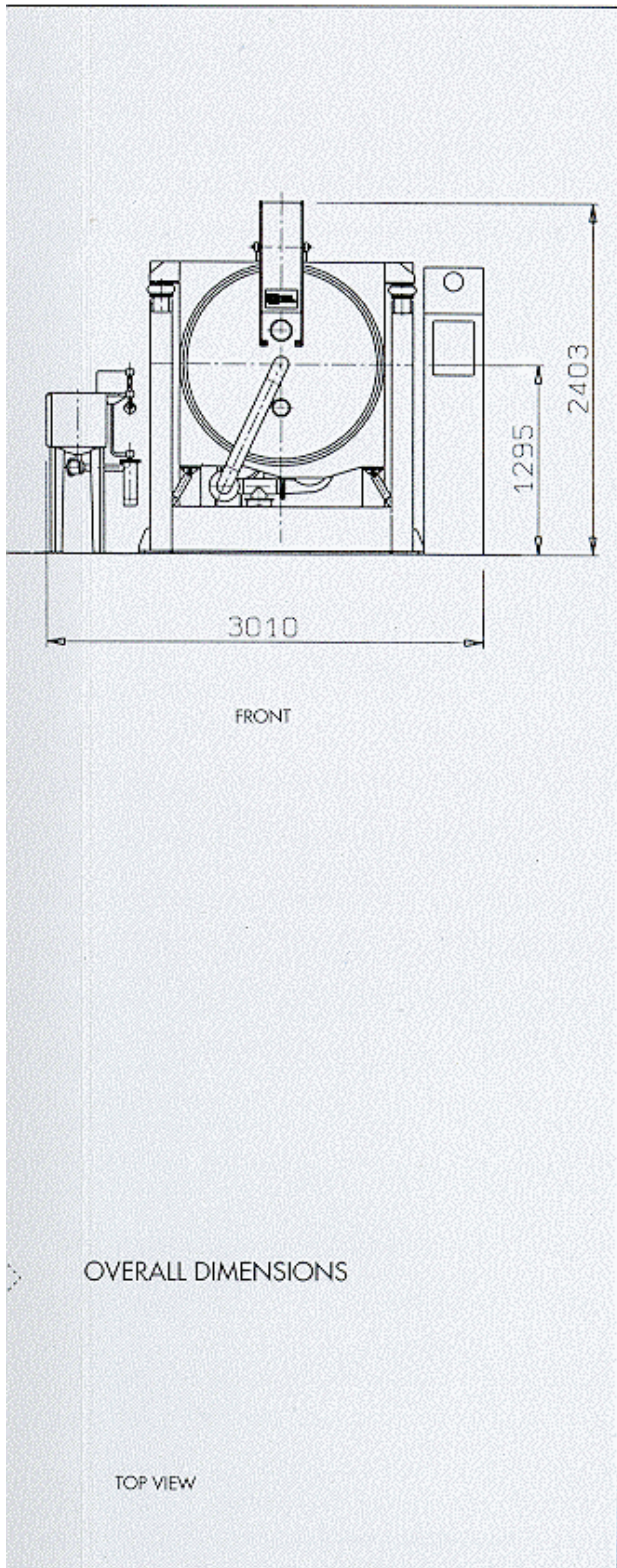
Operation up to 104° C temperature.
High-efficiency centrifugal circulation pump with central liquor distributor inside the rotating basket
Indirect heat exchanger external to the machine.

- Standard supply of 7-tanks fully automatic color kitchen for running the complete program without operator's intervention.

Multiple-products dosing system (exponential/linear type) for dyestuffs, alkali and chemicals.

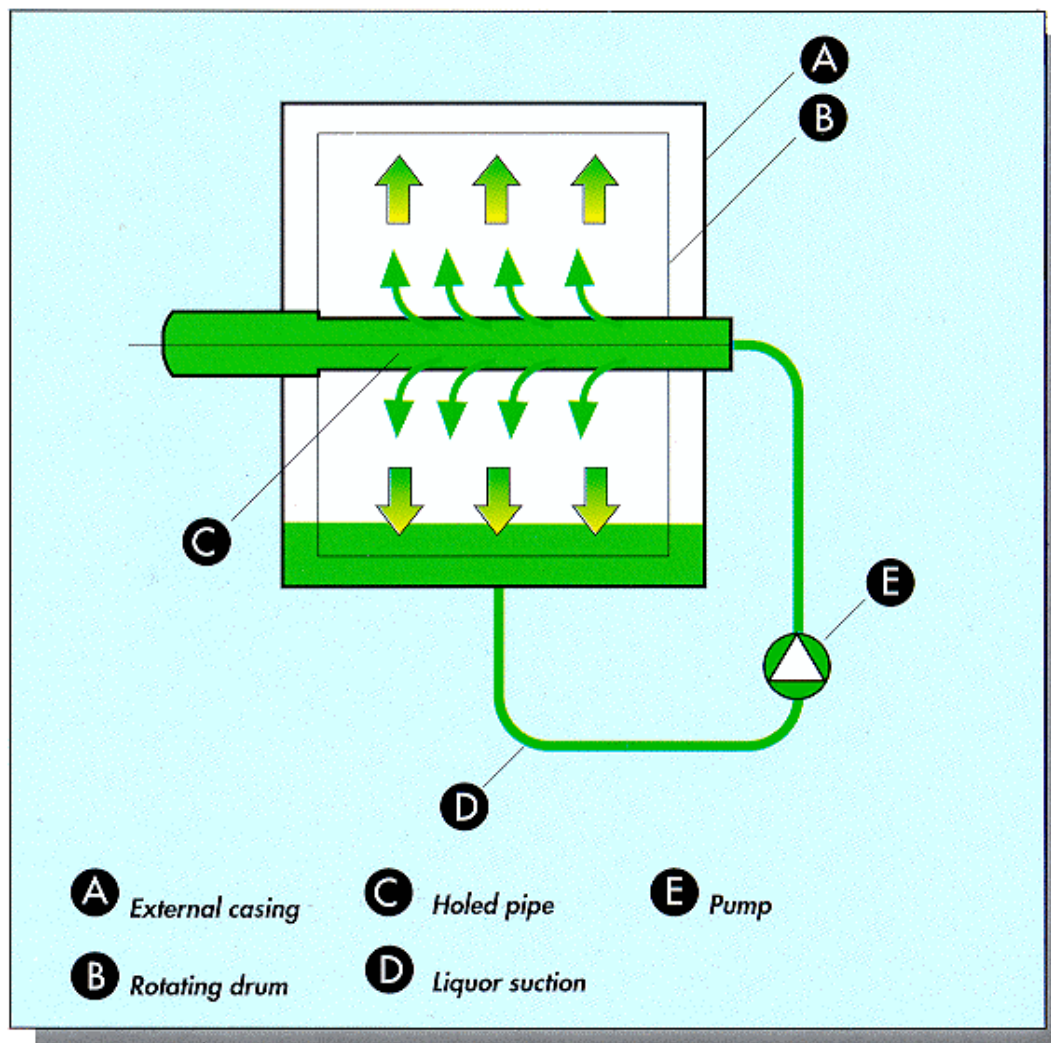
Presetting for linking each machine with a centralized computer dispensing system for powder dyes and liquid chemicals





Internal view of basket with separations

ROTOBEL is backed by the professional structure of LORIS BELLINI and by over 40 years of experience in the hosiery dyeing industry. LORIS BELLINI professional people and Hi-Tech solutions to supply today the dyehouse of tomorrow.



Operating principle:

A=External machine casing
 B=Internal rotating drum
 C=Perforated liquor distribution pipe
 D=Liquor suction
 E=Liquor circulation pump

INTEGRATION CENTRIFUGE/CIRCULATION PUMP.

- Low-speed basket rotation to increase liquor penetration during dyeing.
 - Water extraction after cotton dyeing with fiber reactive dyes to reduce water consumption and time during wash-off.
 - Automatically adjustable liquor ratio from 3:1 (dyeing) upto 15:1(wash-off): the lowest energy and water usage.
 - Direct hydroextraction of material after dyeing.
- Programmable extraction speed upto 600 RPM.

PROCESS AUTOMATION.

- ROTOBEL runs automatically by a standard PC controller with "Leonardo" software written in C language.

Perfect batch-to-batch color reproduction through the precise control and reproduction of over 200 dyeing parameters.

- Fully automatic operation.

- Presetting for linking each ROTOBEL to "Galileo" host computer for dyehouse management.



20021 Bollate (MI) Italy - Via XI Febbraio, 26
 Phone + 39 023505901 Fax + 39 023501665
 www.lorisbellini.com E-mail info@lorisbellini.com