

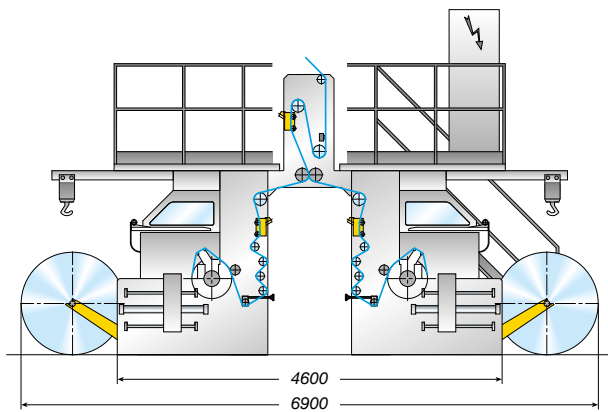


BO Plus

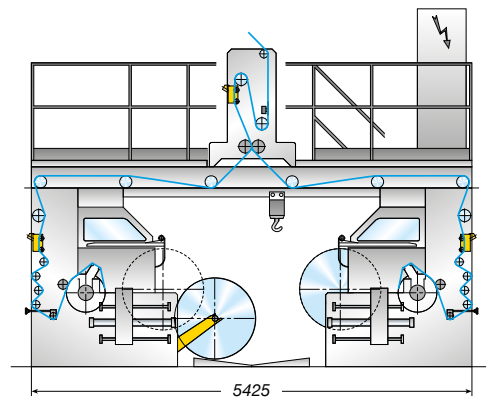
Technical Data Sheet



Macchi S.p.A



LAYOUT standard configuration



LAYOUT face-to-face configuration

The BO Plus is a multifunctional winding machine, with contact, axial with gap and centre-peripheral axial (mixed) winding capabilities.

The winding starts in peripheral mode on a large diameter. During the winding, the reel slides on horizontal guides, it weights down on the vertical axis, and not up against the winding drum. The result is a simpler and more precise control of the contact pressure, thus avoiding excessive compaction of the reel, which can create problems during unwinding.

The use of centre-peripheral winding (with gap/mixed) is recommended to optimize the winding quality of gusseted stiff or thick films (with **EVOH** or **PA**), by removing the wrinkles that may occur at the beginning of the reel, or to solve the problems of air pockets while producing adhesive or low-slip films.

Each BOPLUS unit is equipped with Easy Load, a pneumatic system that allows the positioning of the shafts directly on the waiting hub, after being lifted by the hoists.

On request: C Module, an automatic system for rolls and shafts handling and removal is available.

The double station standard configuration includes

- Set of hydraulic cylinders for reel unloading.
- Siemens Torque motors controlled by digital inverter for a perfect speed control.
- Tension control by load cells.
- Low inertia and dynamically balanced rollers.
- Winder nip equipped with one chrome plated cylinder and adjustable pneumatic rubber roll.
- Peripheral winding on a large diameter rubber grooved cylinder.
- Axial winding system with the possibility to choose among contact, gap or mix.
- Automatic reel-change cycle starting at pre-set metrage.
- Reel contact pressure controlled and adjusted by a Siemens PLC acting on a linear actuator device.
- Banana roller (one for each winding station).
- Automatic shaft Loading system "Easy-Load".
- Laser pointer for carbon cores centering.
- Set of shaft lifting hoists.
- nr. 2 Scrap-less "L" shaped side cutters and Nr. 3 longitudinal slitting knives placed before the winder nip.
- nr. 3 longitudinal slitting knives installed on each winding station.
- Mezzanine top with relevant access stair reach the web edge-guide and/or the corona treater.
- Electrical panel with air-conditioned cooling system.
- Man-machine interface obtained via a Siemens touch screen panel.

BO PLUS TECHNICAL FEATURES

Roll - Face	1000 - 4000 mm
Film thickness	6-250 microns
Winding speed	4 to 200 m/min
Max. reel diameter	1200 mm or 1500 mm jumbo reels FFS
Shaft diameter	76/152 mm - 3"/6"

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