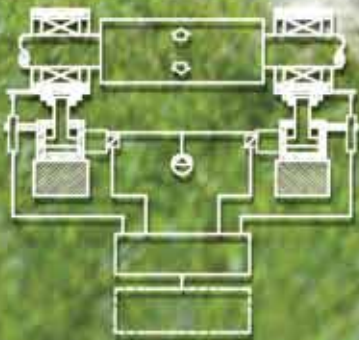


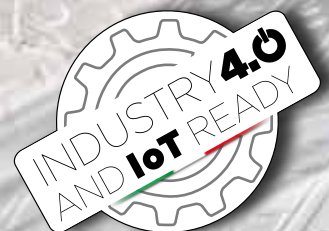
HYDROFIT®

FULLY HYDRAULIC GAP POSITION CONTROL
FOR TWO ROLL MIXING MILL

PATENTED



SPEED & PRECISION

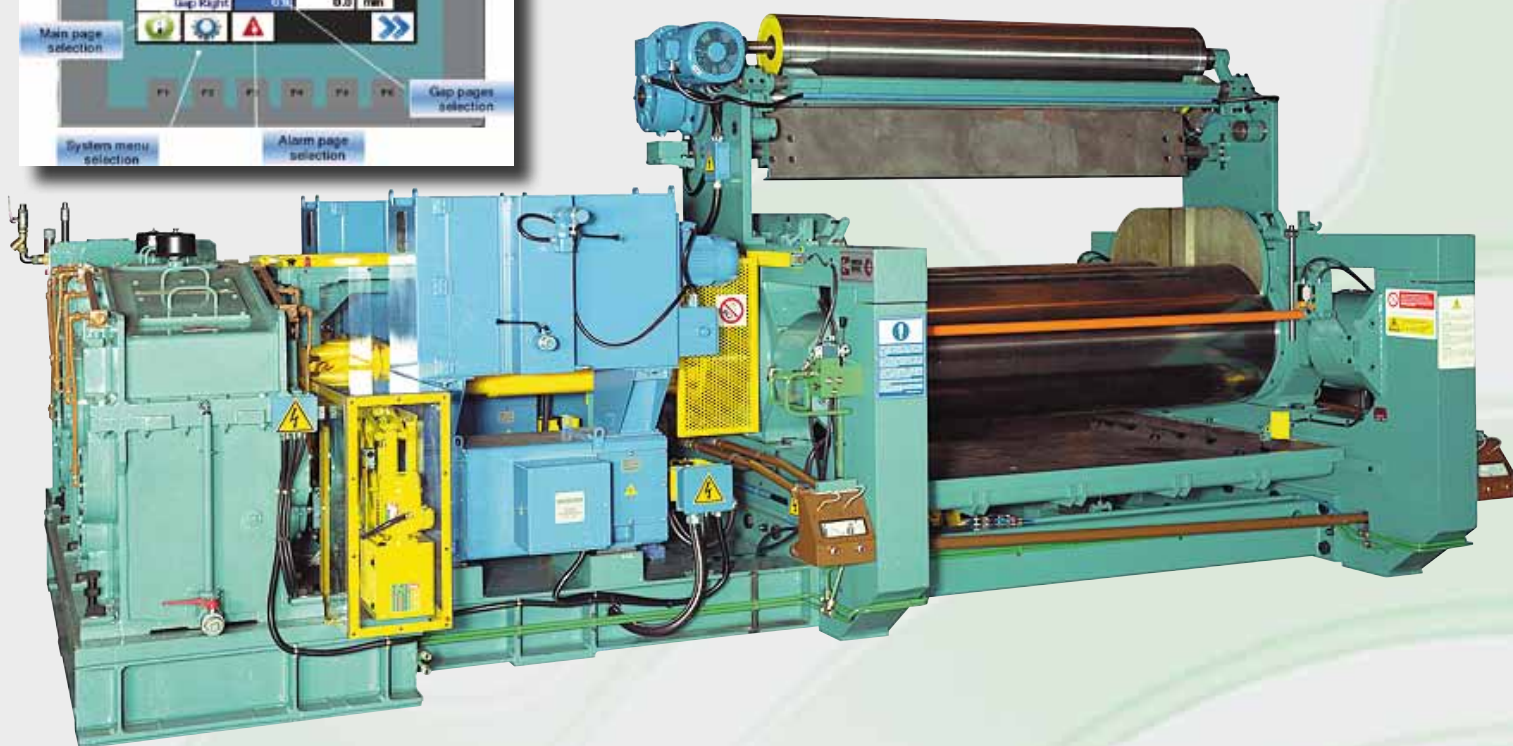
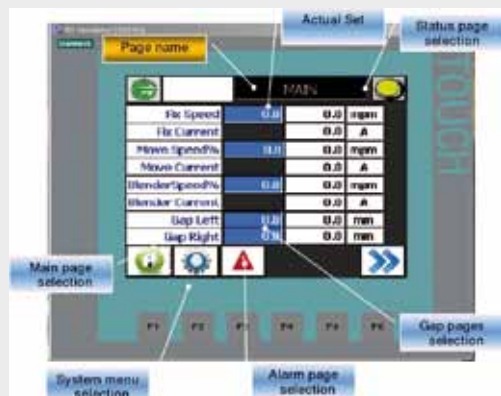


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MECHANICAL CONSTRUCTIONS SINCE 1885 - ITALY



HYDROFIT® means “fully hydraulic gap POSITION control” i.e the PATENTED version engineered for two roll mixing mill process is a system where the PLC controls directly the electrovalves of the hydraulic actuators



HYDROFIT® performances for **ROLL MIXING MILL** process:

- Stroke 50 mm (for maintenance and in case of emergency)
- Resolution 50 μ m
- Position repeatability: \pm 50 μ m
- Emergency opening speed: **10 mm/sec**
- Fast opening in case of overload
- Position accuracy for each bearing block: \pm 300 μ m
- Adjustment speed: **1 mm/sec** (manual set - available design up to 5 mm/sec as option)
- Control of roll simultaneous displacement
- Simplified connection hardware / Easy data communication

Technical performances comparison between electromechanical and fully hydraulic nip:

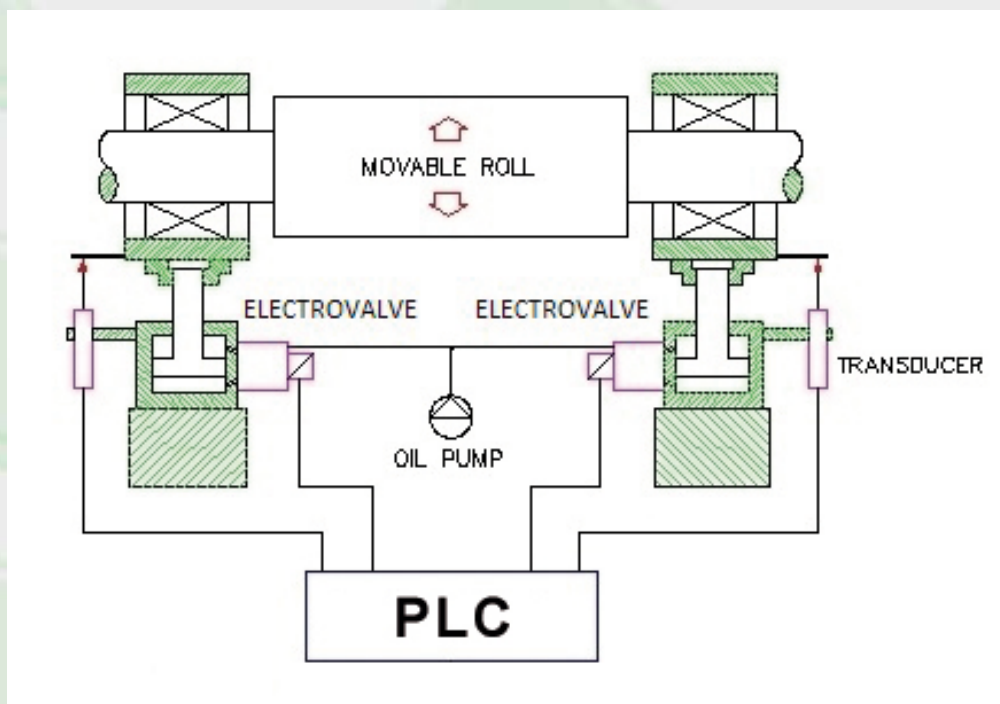
Notes	Electromechanical	Fully Hydraulic / HYDROFIT®
Stroke	50 mm	50 mm
Emergency opening speed	2 mm/min	10 mm/sec
Operative adjustment speed	0.5 mm/min	1 mm/sec
	NO fast opening in case of overload	FAST opening in case of overload



HYDROFIT® in addition to all specific technical features and performances grants the full compliance of new revision **EN 1417:2015** i.e the European Safety Standard for two roll mixing mills. In detail two roll mixing mills having roll diameter over 400 mm are required to have an **“automatic separation of the mill rolls achieving a gap of at least 50 mm within 5 seconds”** therefore an emergency opening speed of 10 mm/sec must be granted.

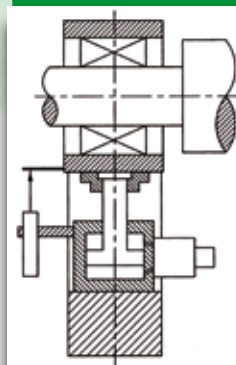
HYDROFIT® MAIN TECHNICAL FEATURES:

- “POSITION CONTROL” of the roll to a preset value;
- Maintaining of the set value, whatever is the separating force up to max preset value;
- Change of the set-point by the operator;
- Connection to PLC for control;
- Connection to a network for line supervision through PLC;
- Operator and Machine safety increased and safety disk elimination



HYDROFIT® MAIN ADVANTAGES:

- | | |
|--|--|
| <ul style="list-style-type: none"> - NO wearing of mechanical parts - NO mechanical clearances of moving parts - Reduction of start-up times - Cutting handling costs - Easier maintenance - High speed roll positioning | <ul style="list-style-type: none"> - Fast opening in case of emergency - Protection of roll integrity – hard material - Roll Emergency opening in case of power failure - Operator safety - Cost saving |
|--|--|



Upon request, other hydraulic nip adjustment configuration based on digital axis controller with servo valves is available depending on specific end user needs.

HYDROGAP®
SPEED & PRECISION SMART





HYDROFIT® performances for **ROLL MIXING MILL** process:

- Resolution 50 µm
- Position repeatability: $\pm 50 \mu\text{m}$
- Emergency opening speed: 10 mm/sec
- Fast opening in case of overload
- Position accuracy for each bearing block: $\pm 300 \mu\text{m}$
- Adjustment speed: 1 mm/sec (manual set - available design up to 5 mm/sec as option)
- Simplified connection hardware / Easy data communication

Upon request other hydraulic nip adjustment configuration is available depending on specific end user needs.



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MECHANICAL CONSTRUCTIONS



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