RRN300 – Roll to Roll Notching Machine

APPLICATION
RRN300 is designed for roll to roll notching of lithium-ion electrodes.

FUNCTION
This equipment is fully automated, operator is only changing rolls of incoming material (coated electrode) and finished product (notched electrode).
Thanks to a special roll system, notching die is static so that all related problems to notching die movement are eliminated.
Electrode placement is maintained with high precision by a continuous closed-loop edge positioning control.
Large graphic HMI provides all information and setting adjustments.

RAW MATERIAL SPECS
Electrode Rolls:
ID= 76 mm (152 mm upon request)
OD= max 500 mm
Electrode Thickness: from 0,100 to 0,150 mm
Max Weight: 100 kg
Electrode Width (W): from 100 to 300 mm

Interleaf Rolls:
(for Notched Electrode rewinding)
ID= 76 mm (152 mm upon request)
OD= max 400 mm
Material Thickness: from 0,050 mm
Max Weight: 100 kg
Interleaf Width (W): from 50 to 300 mm
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**TECHNICAL DATA**

- Dimension (indicative dim. of basic version)
  - Length (L): 4000 mm
  - Width (W): 1600 mm
  - Height (H): 2000 mm
- Power Supply: 400V-3ph-50Hz (Others on req.)
- Compressed Air: 6 bar
- PLC: Allen Bradley (others on req.)
- HMI: Touchscreen graphic panel
- Electrode Tensioning: from 800 to 3000 gr

**FINISHED PRODUCT SPECS**

- **Notched Electrode Rolls**
  - ID= 76 mm (152 mm upon request)
  - OD= max 500 mm
  - Electrode Thickness: from 0,100 to 0,150 mm
  - Max Weight: 100 kg
  - Electrode Pitch (P): up to 180 mm
  - Electrode Height (H): up to 250 mm
  - (Other dimension on request)