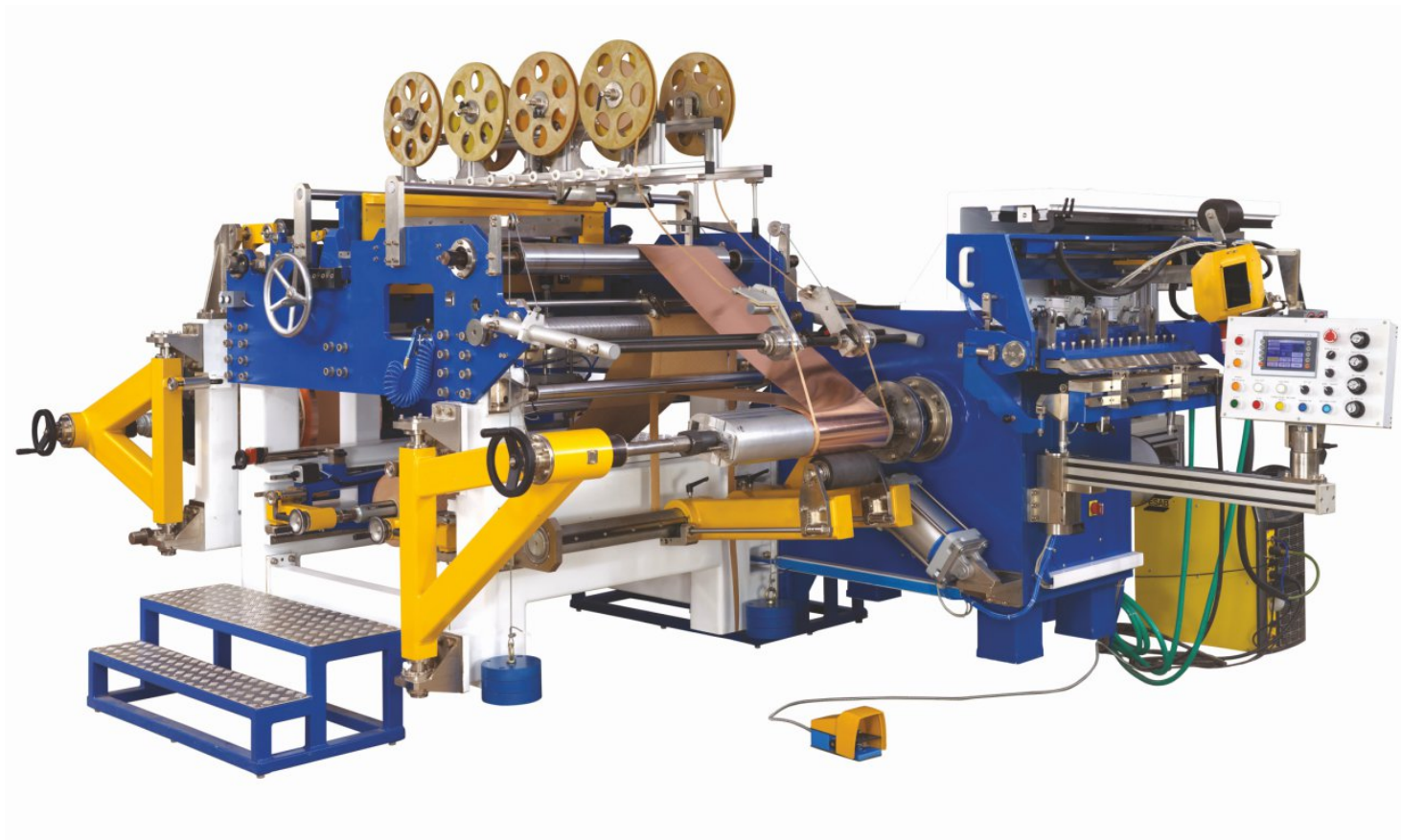


Smart Winder[®] FLV
Foil (LV Coil) Winding Machine



Synthesis



Description

The Foil winding machine is designed to wind a wide variety of LV Coils for Transformers using copper or aluminium foils. This machine is capable of winding large foil cross sections with high winding tensions and is designed to wind round & oval shaped coils. Insulation paper with precise tension control enables to wind insulation paper along with foil. Closed-loop tension control system for conductor foil allows very good dynamic response and wide control range. It also results in seam-less transition between winding and unwinding modes. The machine has an advanced, high efficiency, TIG welding unit which welds the bus bar / lead -out to the foil. A high performance multi-axes motion controller governs the motion of the spindle & traverse units driven by AC Induction & Servo motors respectively.

Features

- Robust steel structure, capable of supporting other functional units and to withstand the large forces generated during the winding of the coils.
- Swing-out tailstock for easy load & unload of coil.
- Pneumatically actuated coil pressing roller.
- Foil cutting position can be controlled through PLC and also through manual jog.
- Collapsible foil de-reeler with closed-loop tension control for dynamic response.
- Automatic foil edge de-burring & foil edge alignment.
- Air-shaft mounted Insulation Paper de-reelers and Insulation Edge Trimming mechanism.
- Flexible welding-gun on precision slide (servo motor driven) ensures excellent welding.

Technical Specifications

Particulars	Model : FLV 600	Model : FLV 800	Model :FLV 1200	Model :FLV 1600
Unwinder [Foil]				
Number of Foil	1	1 or 2	1 or 2	1 or 2
Width	200 - 600 mm	200 - 800 mm	300 - 1200 mm	200 - 800 mm
Foil Thickness (Cu)	0.3 - 2.0 mm	0.3 - 2.5 mm	0.3 - 2.5 mm	0.3 - 2.5
Foil Thickness (Al)	0.3 - 2.5 mm	0.3 - 2.5 mm	0.3 - 3.0 mm	0.3 - 3.0 mm
Coil				
Winding Diameter	150 - 400 mm	150 - 500 mm	150 - 800 mm	300 - 800 mm
Swing Diameter	600 mm (max.)	800 mm (max.)	900 mm (max.)	1100 mm (max.)
Weight	250 Kgs.	800 Kgs.	2,000 Kgs.	2,500 Kgs.
Welding				
Type of Welding	TIG / Coldpress	TIG / Coldpress	TIG / Coldpress	TIG / Coldpress

Also available in customised Specifications

Options

- Automatic edge alignment for foil
- TIG Welding (Front / Middle)
- Chiller Unit
- Customised configurations

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