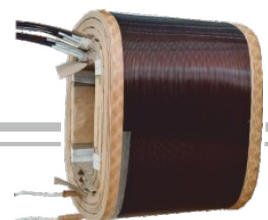


Smart Winder® GLI Series
Graded Layer Winding Machine for HV Coil



Synthesis



Features

- Automatic winding of distribution transformer HV coils with interlayer Insulation.
- Winding of conductors along with feeding of interlayer insulation & edge strips without any manual intervention.
- Insulation layers built in a graded profile with thickness varying in proportion to the voltage differential.
- Pneumatically operated collapsible mandrel & retractable tail-stock for easy component handling.
- High precision closed-loop servo tension controller for conductor and insulation strips.
- User-friendly programming and touch-screen based operations.
- Regenerative type drive system with common DC rail for winder & un-winder drives for lower power consumption.
- Provision for Wire Flattening Unit as an optional attachment.

Benefits:

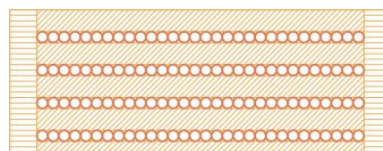
- ⊙ Reduces winding cycle time, manual intervention & operator skill, improves consistency & quality.
- ⊙ Reduces insulation material significantly, since only minimum necessary thickness is provided at every position of each layer.
- ⊙ Reduces overall material consumption by 5 to 7% due to smaller coil dimensions.
- ⊙ Reduces stock materials by allowing fewer standard strip dimensions even for different coil widths.

Technical Specifications

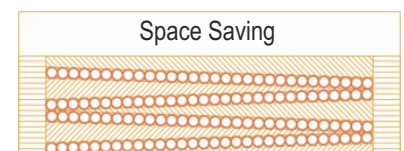
Particulars	Model : GLI-600	Model : GLI-800	Model :GLI-1200
Coil			
Length	700 mm (max.)	900 mm (max.)	1300 mm (max.)
Winding Diameter	500 mm (max.)	700 mm (max.)	800 mm (max.)
Swing Diameter	600 mm (max.)	800 mm (max.)	1000 mm (max.)
Weight (LV + HV)	250 Kgs. (max.)	500 Kgs. (max.)	800 Kgs. (max.)
Conductor			
No. of Round Conductors	1	1 or 2	1 or 2
Round Wire Diameter (Cu)	0.5 to 2.5 mm	0.8 to 3.5 mm	1.2 to 4.0 mm
Round Wire Diameter (Al)	0.8 to 3.0 mm	1.0 to 4.0 mm	1.5 to 4.5 mm
Dual Round Wire Size (Cu / Al)	N/A	2.0 x 3.0 mm (max.)	2.0 x 3.5 mm (max.)
No. of Strip Conductors	1	1 or 2	1 or 2
Strip Wire Sizes (Cu / Al)	4 x 2 to 12 x 3 mm	4 x 2 to 15 x 4 mm	4 x 2 to 15 x 5 mm
Double Strip Sizes (Cu / Al)	N/A	75 Sq. mm (max.)	100 Sq. mm (max.)

Options

- Dual Round Wire Winding
- Unload assist
- Wire flattening unit
- Strip De Reeler
- Full width paper De Reeler
- Customised Configurations



Conventional Winding



Winding with Graded Insulation

Synthesis Winding Technologies Pvt. Ltd.



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