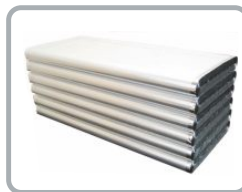


Smart Winder[®]
Automatic HT Capacitor Winding Machines



Synthesis

Description

Automatic High Tension Capacitor Winding Machine is designed to wind **Extended foil type elements** used in high voltage capacitors.

The optimum combination of mechanical, pneumatic and electronic systems incorporated in the machine provides high performance coupled with reliable operation and simplicity in maintenance.

By utilising the latest technology, materials and manufacturing techniques, the machine offers several features such as high productivity, repeat accuracy, reliability, etc.

Features

- Closed loop servo tension control for film and foil spools give uniform tension, resulting in high quality winding & higher productivity.
- Automatic threading and unloading using collapsible-type mandrel eliminates manual operation and gives good repeatability and higher productivity.
- Dual Mandrel (Indexing Type), results in shorter winding cycle time and thus leading to higher productivity.
- Automatic foil cut & fold unit for both foils eliminates manual intervention during winding, resulting in higher productivity & consistency.
- Web Drive using servo motor ensures synchronised feeding of foil with the line speed and precise control of head and tail length, reducing wastage of material.
- Material exhaust sensing and *Smart-Detect* System to judge adequacy of material available on the spool at the beginning of each cycle reduces material wastage.
- Integrated Dry-element tester with automatic transfer and sorting of wound elements, eliminates manual handling of delicate elements ensuring better quality

Technical Specifications


Particulars	Model : HT 350 i	Model : HT 450 i	Model : HT 650 i
Number of Feeders	Film 6; Foil 2	Film 6; Foil 2	Film 6; Foil 2
Width of Film/Foil	200 mm to 350 mm	300 mm to 450 mm	400 mm to 650 mm
Thickness	6 -18 μ for film & 4 -10 μ for foil	6 -18 μ for film & 4 -10 μ for foil	6 -18 μ for film & 4 -10 μ for foil
Winding diameter	50 mm to 140 mm	50 mm to 140 mm	50 mm to 140 mm
Tension Control	Closed loop servo tensioner	Closed loop servo tensioner	Closed loop servo tensioner

Dry Element Testing & Sorting

Testing Voltage	0 to 10 kV (Programmable)	0 to 10 kV (Programmable)	0 to 10 kV (Programmable)
Element Thickness	8 mm to 25 mm	8 mm to 25 mm	8 mm to 25 mm
Element Length	210 mm to 360 mm	310 mm to 460 mm	410 mm to 660 mm
Controller	PLC	PLC	PLC

Machine specifications are Configurable to suit customer needs

Options

- Motorised element stacker unit
- Bar Code insertion and Bar Code reader
- Capacitance measuring unit and data logging
- Automatic Edge Alignment
- Full Machine Guarding with  and  Certification

Synthesis Winding Technologies Pvt. Ltd.



H.O. & Works :

#14/A, Shanthipura Road, Electronic City, Phase II
BANGALORE-560 100. INDIA.
Phone: +91-80-30282020/35/36
E-mail : marketing@synthesis-winding.com
www.synthesis-winding.com

Regional Office (West) :

#12, Symphony C, Range Hills Road
(Off Ganesh Kind Road),
PUNE - 411 020. Maharashtra.
Phone: +91-20-25560661
E-mail : marketing@synthesis-winding.com

Regional Office (North) :

UG-11, Ansal Imperial Tower, C-Block,
Naraina Vihar, Community Centre
NEW DELHI - 110 028.
Phone: +91-11-41530848
E-mail : marketing@synthesis-winding.com