

HORIZONTAL COIL WINDING · LV AND HV

Power Transformer Winding Machine

A complete horizontal winding line for distribution and power transformer coils, from 1 to 15 tonnes. **Supplied, commissioned and supported by Mahabir**, specified to your coil and installed on your floor.

6

models, TPT-1T to TPT-15T

15 t

max. coil weight, incl. mandrel

3.7 m

max. axial coil length

PLCservo traverse, pneumatic
tension

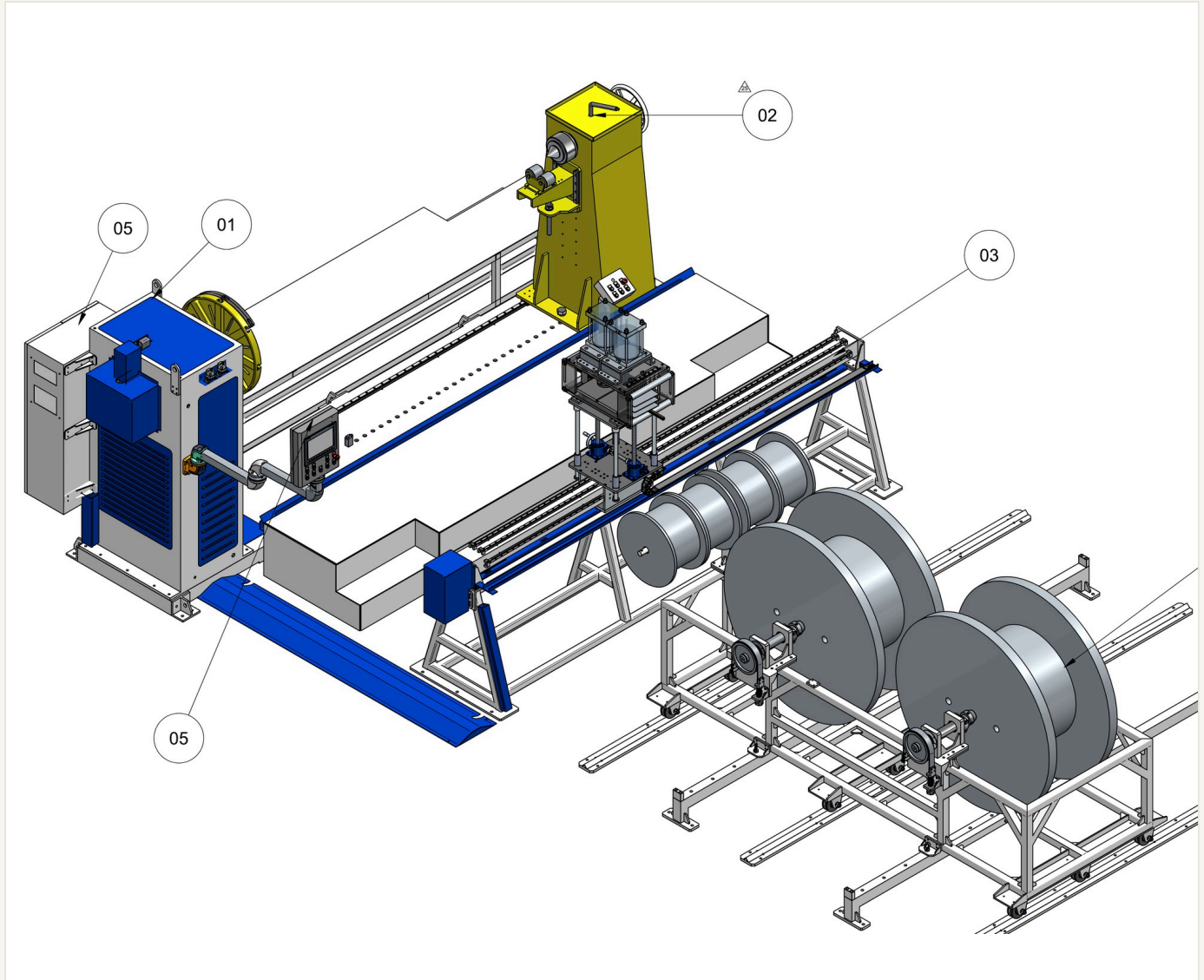
One line, end to end.

Conductor comes off the bobbin rack, through the servo traverse and pneumatic tensioner, and onto the mandrel between a motor-driven headstock and a heavy tailstock. The operator runs the wind from one touch-screen panel.



Engineered to the drawing.

The 10 tonne model, as drawn. Every machine is built to its own general arrangement, agreed with you before manufacture starts.

**01****Headstock**

Motor and gearbox drive for the mandrel

02**Tailstock**

Supports the mandrel, handwheel adjustment

03**Strip tensioner unit**

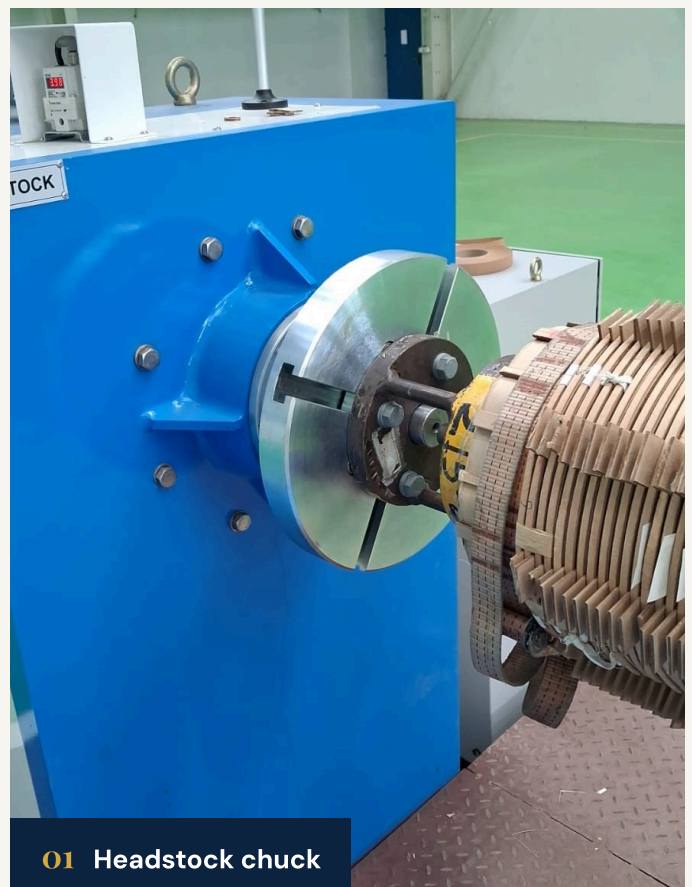
Pneumatic tension on a servo traverse

04**Bobbin unit**

Rail-mounted conductor loader

05**HMI and control panel**

PLC with touch-screen operation



Six models, 1 to 15 tonnes.

MAHABIR

Specification		TPT-1T	TPT-2T	TPT-3T	TPT-5T	TPT-10T	TPT-15T
Coil	Min. and max. width (mm)	400 – 1000	500 – 1300	600 – 1500	800 – 2000	1000 – 2500	1200 – 3200
	Axial length (mm)	1300	1600	2000	2500	3000	3700
	Max. outer diameter (mm)	1000	1000	1000	1500	2500	3000
	Min. inner diameter (mm)	200	200	200	200	300	300
	Coil shape	Round					
	Capacity, incl. mandrel (kg)	1000	2000	3000	5000	10000	15000
Conductor	Max. size, copper or aluminium	15 × 5 mm					
Bobbin loader	Number of bobbins	8					
	Bobbin inner / outer diameter	40 / 600 mm					
	Arm length	350 mm					
	Bobbin capacity	150 kg					
	Loader traverse length (mm)	1000	1300	1500	2000	2500	3200
	Loader traverse	Manual					
Wire guide	Tension	Pneumatic					
	Traverse drive	Servo					
	Traverse length (mm)	1200	1500	1700	2200	2700	3400
Winding	Speed (rpm)	1 – 60	1 – 60	1 – 60	1 – 48	1 – 30	1 – 20
	Speed regulation	Automatic					
Control	Control system	PLC					
	Turn counting precision	0.01 turn					
	Alignment correction	Position					
Options	Conductor pressing device	–	–	–	–	Yes	Yes
	Height-adjustment platform	–	–	–	–	Yes	Yes

One company, enquiry to first coil.

**1****Specified to your coil**

We start from your coil and your floor, then match the machine to both.

2**Inspected before it ships**

Factory acceptance before dispatch, with third-party inspection available.

3**Commissioned on your floor**

Our engineer installs, winds the first coil with your team and trains your operators.

4**On the ground in South Africa**

A Johannesburg address, your time zone, and a person who answers on WhatsApp.

Price	Quoted per enquiry
Delivery	CIF Durban, or as agreed
Payment	Milestones agreed per order
Lead time	Confirmed with the quotation
Installation	By Mahabir engineer, with operator training

Send us one coil. We will send back the machine.

A coil drawing or a photo of your current winder is enough to start.

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