

Automatic Capacitor Winding Machine

Model - AWM4E



KOTI SYSTEM'S

(Manufacturers of SPM for the Capacitor Industry)

No.8, Basappa Reddy Compound, Y.V. Annaiah Road
Yelechenahalli, Bangalore - 560 078.

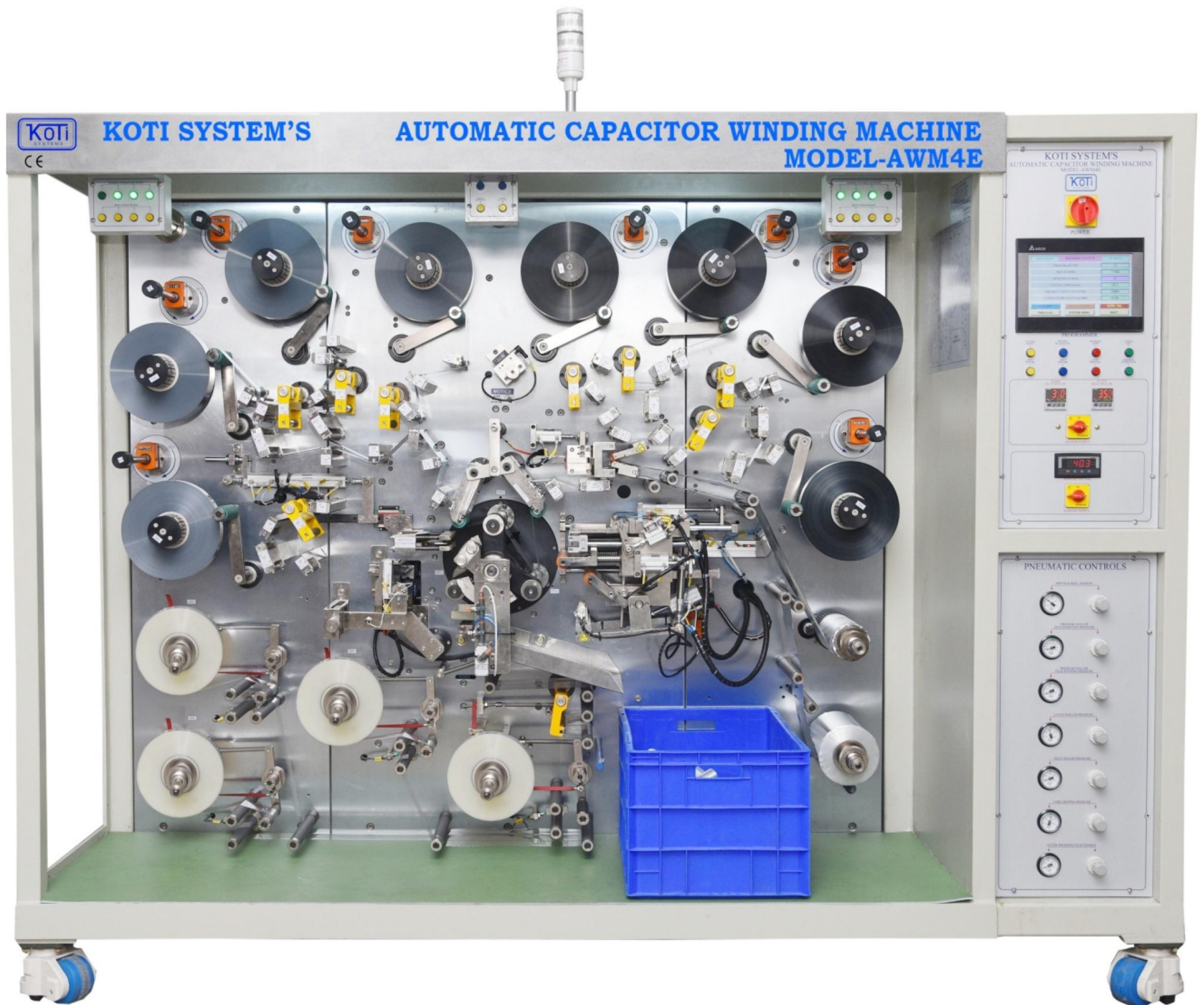
Ph: 080-26661859, Mob: +91 9448368704

E-mail: kotisystems_spm@yahoo.com

URL: www.kotisystems.com

Automatic Capacitor Winding Machine

Model - AWM4E



KOTI SYSTEM'S

(Manufacturers of SPM for the Capacitor Industry)

No.8, Basappa Reddy Compound, Y.V. Annaiah Road
Yelechenahalli, Bangalore - 560 078.

Ph: 080-26661859, Mob: +91 9448368704

E-mail: kotisystems_spm@yahoo.com

URL: www.kotisystems.com

Model **AWM 4E** is Koti System's latest offering in the capacitors Winding Machine range, catering to the needs of metallized Polypropylene Capacitor manufactures. The product is a result of extensive research and besides being fully automatic incorporates a host of standard as well as customizes features, most of which is being seen for the first time in an indigenously manufactured Capacitor Winding Machines. The machine's Four Element Winding capacity is an unique feature and gives it a phenomenal speed in operation. Besides the cost advantage, there is the added assurance of increased productivity, easy operable and trouble - free performance.

Technical Specification

Metalized films:	Double	Triple	Quadruple
Number of reels	4	6	8
Film width mm	62.5 - 75	37.5 - 50	30 / 37.5

Windings:	Double	Triple	Quadruple
Number per cycle	2	3	4
Minimum Φ mm	12	12	12
Maximum Φ mm	60	60	30-45

Metalized film reel specification

Mpp film thickness μm	4-10 μ
Inside reel Φ mm	75 to 76.5
Maximum outside reel Φ	350
Note: - Max weight of reel: - 3.5Kgs	
Core size	5Hex(OD 9mm standard)

Burn off facility: Provided for single side.

Foil for burn off: -

Reel ID:	40-75mm
Reel OD:	200mm
Foil thickness:	18 μ
Foil width:	180mm

Note:- Now both differential cutting and burn off can be set simultaneously without changing any setting

General Data:

Power supply: 1 Φ , 230 \pm 5V, 50 Hz 4KVA
Regulated Power Recommended: 1 Φ , 230 \pm 5V, 50 Hz 5KVA

Note: - UPS recommended for regulated power supply (Voltage regulator will not be supplied along with machine).

Compressed Air consumption: 6 bars, 10cfm
Compressed Air supply required: 7 bars, 6cfm

Note: - filtered and dry air is recommended to enhance pneumatics life.

Net weight: 2250 Kg approx

Dimensions: -
Width- 2500mm
Height- 1700mm
Deapth- 1400mm

Working space required: 10ft width, 12ft length, and 10ft ht

Working room conditions: Must be air conditioned, dust prevented.

Temp: 22 $^{\circ}$ to 24 $^{\circ}$ C

Relative Humidity: 50% to 55%

Machine features: -

Tension controls: AC servo motors & Drive (Panasonic) is used for fast correction of film tension and it helps to wind at high speed.

Tension setting: auto programming tension will takes place through electro pneumatic regulator depending on thickness and width of MPP. And also manual editing of tension possible by overriding auto setting.

Spool construction: -

Spool lock system: Automatic locking with Pneumatic operated unloading

Spool and tension motor: coupled by timer belt

Operator controls.

Touch screen monitor for setting winding parameters and 200 pre stored programs for fast change over of settings. & Push buttons for frequent operation

Auto Core feeding: Pneumatic & motorized feeding with low noise.

Logic Controls & AC Drives DELTA Make

Servo drive for tension controller Panasonic Make

Pneumatics SMC make

Productivity and economics of operation:

Production: -

Winding speed: 3000-6000mm/sec programmable.

Film surface speed 6000 RPM maximum

Quadruple winding (approximate quantity.) / hrs.

Number of turns	Film Thickness	Film width	Value	Qnt / hr.
300	6 μ	37.5 mm	2.5 Mfd	1700-1800
830	6 μ	37.5 mm	10 Mfd	900-950

Triple winding (approximate quantity) / hrs.

Number of turns	Qty / 8 hrs.	Film width	Value	Qnt / hr.
630	6 μ	50 mm	10 Mfd	950-1000
1200	6 μ	50 mm	25 Mfd	400-425

Dual winding (approximate quantity) / hrs.

Number of turns	Qty / 8 hrs.	Film width	Value	Qnt / hr.
1000	6 μ	75 mm	30 Mfd	275-300
1200	6 μ	75 mm	36 Mfd	250-275
1350	6 μ	75 mm	50 Mfd	225-250

Core Specified for different width of film

Film width	Core length
30	34 mm
37.5 mm	42 mm
50 mm	54 mm
75 mm	80 mm
100 mm	104 mm

Outer diameter of the core : 9mm