

# REDEFINING WINDING TECHNOLOGY

[www.smew-india.com](http://www.smew-india.com)



**SMEW**  
WINDING  
TECHNOLOGIES



SMEW has innovated constantly to create better and innovative products. With the production of grooved winding drums which was started in 2011 and with the induction of state of the art CAD/Cam software and Japanese and German CNC machines, SMEW has been constantly innovating.

The BLDC motor manufacturing project was started in early 2021 with a view to providing the Textile industry with highly efficient machines. Due to the high import costs and uncertainty in supply of finished motors, it was decided to produce inhouse. After one and a half years of effort, the BLDC motor production has been successfully started inhouse.



An innovative feature of the new motor is the direct drive design. While BLDC motors have been used recently by many manufacturers, none are using with the direct drive design. The direct drive design is more efficient and lower maintenance as no belts and timing pulleys are required.

SMEW has in the past 5 years invested heavily into automation by installing 3 robots from Yaskawa, Kawasaki and Universal Robots for unmanned operations of CNC machines. A set of 4 CNC machines is now operated fully without any human intervention for 24 hours. This has resulted in increased production by upto 2-3 times from the same equipment.

A new fully automated 24ft vertical storage system from Modula – Italy has been installed to reduce space requirement for storage.

At SMEW, being environment-friendly is not just a catch-phrase but an article of faith. We are strenuously at work to reduce our carbon footprint. More than 30% of daytime power consumed is produced in-house through solar energy. Our target is to produce 100% power on solar panels for captive consumption.

It is our constant endeavour to provide superior quality, innovative & affordable products to our customers.



# SMEW

MODEL NO. BMS DTC  
SOFT WINDING MACHINE



## MAIN FEATURES

- Brushless DC Motor on every spindle with direct drive to drum for lowest power consumption and maintainence
- Precision drums made inhouse on hi-end CNC machines using advanced CAD/CAM
- Individual speed control on every spindle
- Package length & diameter control
- Lateral displacement of cone holder by brushless geared motor for soft edges
- Digital yarn tension control system from BTR - Italy

## TECHNICAL SPECIFICATIONS

- Machine arrangement - double sided
- Brushless motor made in India
- Input power - 380V/415V AC three phase + N + E
- Width - 1250mm
- Individual BLDC motor for every spindle
- Stepless speed variation from 0 to 1200 MPM by converter on individual spindle
- Specialised anti patterning software optimised for bldc motor for hi-quality anti-patterning
- Anti-patterning programme is of far superior quality compared with AC induction motors
- Max fed package - 280mm
- Yarn sensing by electronic non contact type yarn detector
- Auto stop on yarn breakage
- Hard aluminium anodized drums with 125mm OD / 1.5 Turns
- **Precision drum - 6" traverse (148mm) made in-house on the highest quality CNC machines with variation between drums less than 0.1mm**
- Digital tension control system from BTR - Italy.
- Tension control system with tension sensor and over feed system for closed loop control
- Double sided package holders
- Main panel with 10" touch screen for setting length and speed
- **Package control by both lenght & diameter control**
- **Machine configuration in multiples of 10 spindles upto max 160**

## OPTIONS

- Over head cleaner
- Splicer
- Simple over feed system



# SMEW

MODEL NO. BMS  
SOFT WINDING MACHINE



## MAIN FEATURES

- Brushless DC Motor on every spindle with direct drive to drum for lowest power consumption and maintainence
- Precision drums made inhouse on hi-end CNC machines using advanced CAD/CAM
- Individual speed control on every spindle
- Package length & diameter control
- Lateral displacement of cone holder by brushless geared motor for soft edges

## TECHNICAL SPECIFICATIONS

- Machine arrangement – double sided
- Brushless motor made in India
- Input power - 380V/415V ac three phase + N + E
- Width - 1250mm
- Individual BLDC motor for every spindle
- Stepless speed variation from 0 to 1200 MPM by converter on individual spindle
- Specialised anti-patterning software optimised for BLDC motor for hi-quality anti-patterning
- Anti-patterning programme is of far superior quality compared with ac induction motors
- Max fed package - 280mm
- Yarn sensing by electronic non contact type yarn detector
- Auto stop on yarn breakage
- Hard aluminium anodized drums with 125mm OD / 1.5 Turns
- **Precision drum - 6" traverse (148mm) made in-house on the highest quality CNC machines with variation between drums less than 0.1mm**
- Double disc tension system
- Double sided package holders
- Main panel with 10" touch screen for setting length and speed
- **Package control by both lenght & diameter control**
- **Machine configuration in multiples of 10 spindles upto max 1600**

## OPTIONS

- Over head cleaner
- Splicer
- Simple over feed system



# SMEW

MODEL NO. BMR022  
FINAL PACKAGE WINDING  
MACHINE



## MAIN FEATURES

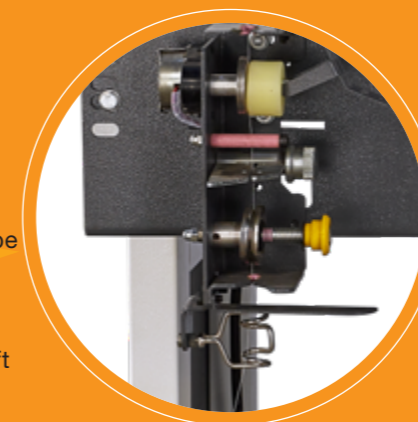
- Brushless DC Motor on every spindle with direct drive to drum for lowest power consumption and maintainence
- Precision drums made inhouse on hi-end CNC machines using advanced CAD/CAM
- Individual speed control on every spindle
- Package length & diameter control
- Speed from 300 MPM to 1200 MPM

## TECHNICAL SPECIFICATIONS

- Machine arrangement - double sided
- Brushless motor made in India
- Input power - 380V/415V ac three phase + N + E
- Width - 1250mm
- Individual BLDC motor for every spindle
- Stepless speed variation from 0 to 1200 MPM by converter on individual spindle
- Specialised anti-patterning software optimised for BLDC motor for hi-quality anti-patterning
- Anti-patterning programme is of far superior quality compared with ac induction motors
- Motorised tensioner with double disc tension
- Max fed package - 280mm
- Yarn sensing by electronic non contact type yarn detector
- Auto stop on yarn breakage
- Hard aluminium anodized drums with 95mm OD / 2 turns
- Precision drum - 6" traverse (148mm) made inhouse on the highest quality CNC machines with variation between drums less than 0.1mm
- Double sided package holders
- Main panel with 10" touch screen for setting length and speed
- Package control by both lenght & diameter control
- Dual option available for yarn tension - tray type & straight yarn path
- Machine configuration in multiples of 10 spindles upto max 160

## OPTIONS

- Over head cleaner
- Splicer
- Simple over feed system
- Double waxing (only available with tray type tensioner design)
- Lateral displacement of cone holder for soft edges
- 8" & 10" traverse for jumbo packages



# SMEW

MODEL NO. BMR022  
FINAL PACKAGE WINDING  
MACHINE



## MAIN FEATURES

- Brushless DC Motor on every spindle with direct drive to drum for lowest power consumption and maintainence
- Precision drums made inhouse on hi-end CNC machines using advanced CAD/CAM
- Individual speed control on every spindle
- Package length & diameter control
- Speed from 300 MPM to 1200 MPM

## TECHNICAL SPECIFICATIONS

- Machine arrangement - double sided
- Brushless motor made in India
- Input power - 380V/415V ac three phase + N + E
- Width - 1250mm
- Individual BLDC motor for every spindle
- Stepless speed variation from 0 to 1200 MPM by converter on individual spindle
- Specialised anti-patterning software optimised for BLDC motor for hi-quality anti-patterning
- Anti-patterning programme is of far superior quality compared with ac induction motors
- Motorised tensioner with double disc tension
- Max fed package - 280mm
- Yarn sensing by electronic non contact type yarn detector
- Auto stop on yarn breakage
- Hard aluminium anodized drums with 95mm OD / 2 turns
- Precision drum - 6" traverse (148mm) made inhouse on the highest quality CNC machines with variation between drums less than 0.1mm
- Double sided package holders
- Main panel with 10" touch screen for setting length and speed
- Package control by both lenght & diameter control
- Dual option available for yarn tension - tray type & straight yarn path
- Machine configuration in multiples of 10 spindles upto max 160

## OPTIONS

- Over head cleaner
- Splicer
- Simple over feed system
- Double waxing (only available with tray type tensioner design)
- Lateral displacement of cone holder for soft edges
- 8" & 10" traverse for jumbo packages



# SMEW

MODEL NO. BMT AW  
ASSEMBLY WINDING MACHINE



## MAIN FEATURES

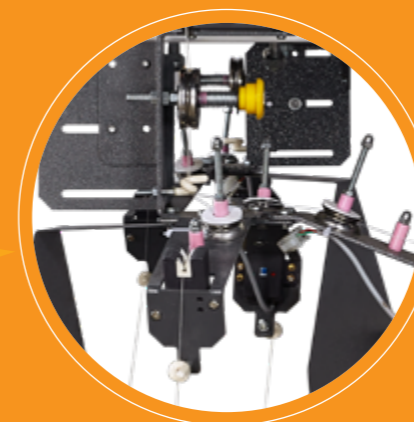
- Brushless DC Motor on every spindle with direct drive to drum for lowest power consumption and maintainence
- Precision drums made inhouse on hi-end CNC machines using advanced CAD/CAM
- Individual speed control on every spindle
- Package length & diameter control
- Speed from 300 MPM to 1200 MPM

## TECHNICAL SPECIFICATIONS

- Machine arrangement - double sided
- Brushless motor - made in India
- Input power - 380V/415V AC three phase + N + E
- Width - 1250mm
- Individual BLDC motor for every spindle
- Stepless speed variation from 0 to 1200 MPM by converter on individual spindle
- Specialised anti-patterning software optimised for BLDC motor for hi-quality anti-patterning
- Anti-patterning programme is of far superior quality compared with AC induction motors
- Double disc tension with slotted discs as common tensioner
- Individual dead weight tensioner on every ply
- 2 Ply - 4 ply with integrated creel
- Full size seperators between spindles upto 3 ply
- 5 Ply to 8 ply with external creel
- Yarn sensing by electronic non contact type yarn detector on every ply
- Auto stop on yarn breakage with yarn cutter
- Hard aluminium anodized drums
- Double sided package holders
- Main panel with 10" touch screen for setting length and speed
- Package control by both lenght & diameter control
- Machine configuration in multiples of 8 heads upto max of 120 heads

## OPTIONS

- Over head cleaner
- Splicer
- 8" & 10" traverse for jumbo packages



# SMEW

**MODEL NO. ISS 12**

Precision cam soft package winding machine with individual drum/ spindle driven



# SMEW

**MODEL NO : FRT CH**

Precision cam soft package winding machine with individual drum/ spindle driven



# SMEW

**MODEL NO. ISS 12 DTC**

Precision cam soft package winding machine with individual drum/ spindle driven



# SMEW

**MODEL NO : IMD AW G**

Assembly Winding Machine with Separate Creel





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