PPWS V1
Precision Soft Package Winder
Key to perfect dyeing
The high performance soft package winder with uniform density, is equipped with individual microprocessor controlled inverter drives that ensure constant yarn speed throughout the package.

A major advantage of precision wound cylindrical package form is better utilised filling capacity of the dyeing vessel for the same level of shore hardness. Greater weight in the range of 30 % – 35 % as compared to the weight of random wound conical package and 15 % – 20 % as compared to the weight of the random wound cylindrical package. This allows an increase by 15 % in the loading of the dyeing vessel, resulting in huge savings in dyeing cost.
Straight yarn path

- Gentle handling of yarn
- Ceramic contacts
- Self threading

- Diameter control
- Swing arm
- Yarn laying by counter rotating propeller
- Visual display of yarn break and full doff
- Electronic non contact yarn detector
- Digital tension device
- Overfeed device
- Universal package holder

Yarn Tension
Initial Tension
Final Tension

Length in Meters

Digital tension control.
Yarn traversing system

The winding system is outlined by a unique yarn laying principle. Two counter rotating propellers impart gentle handling of the yarn and a highly precise yarn laying pattern.

As the blades are directly synchronised with the positively driven yarn package, precision winding is achieved.

Because of a constant winding ratio from start to the final package diameter, absolutely no ribbon or pattern zone is observed on the produce package. This guarantees excellent unwinding characteristics of the package during the subsequent process.

Smart controller

All spindle functions are monitored and controlled by the microprocessor based system which has features like:
- High definition colour LCD, TFT display
- Individual/ group wise speed & length setting
- Key-pad with 16 keys
- Storage of last 50 shift’s data
- Extendable up to 96 spindles
- Individual spindle maintenance mode

**Standard features**
- Individual frequency inverter drive
- Constant yarn speed by electronic control
- Auto yarn length controlling device
- Auto stop motion for full doff with visual display
- Motorized tension device
- Diameter control

**Optional features**
- Overhead travelling blower
- Splicer unit
- Digital tensioner
- Online tension monitoring and control
Machine model
PPWS V1

No. of winding heads
3 to 96

Machine arrangement
Single sided

Spindle gauge
500 mm

Type of winding
Precision winding

Count range
Nm 1 to 200; Ne 0.60 to 120; tex 1000 to 5

Package destination
Dyeing, knitting, warping, weaving

Winding speed
1600 m/min. max. (depending on process parameters)

Supply package type
All types

Produce package type
Cylindrical – bi-co tubes

Produce package diameter
Min. ID Ø38 mm, max. OD Ø280 mm

Produce package traverse
152 mm traverse

Supply package
Ø300 mm diameter

Power
Installed: 0.5 HP/spindle

Spindle drive
Individual

Special features
Propeller thread laying system for lowest yarn stressing while winding

Machine dimensions

| No. of spindles | 3  | 6  | 9  | 12 | 15 | 18 | 21 | 24 | 27 | 30 | 33 | 36 | 39 | 42 | 45 | 48 |
|-----------------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Length (F=1625 mm) | 1875 | 3500 | 5125 | 6750 | 8375 | 10000 | 11625 | 13250 | 14875 | 16500 | 18125 | 19750 | 21375 | 23000 | 24625 | 26250 |
| Width (mm) | 1055 |
| Height (mm) | 1350 |
| Connected Load (H.P.) | 1.5 | 3 | 4.5 | 6 | 7.5 | 9 | 10.5 | 12 | 13.5 | 15 | 16.5 | 18 | 19.5 | 21 | 22.5 | 24 |
| Net weight kg. | 400 | 800 | 1200 | 1600 | 2000 | 2400 | 2800 | 3200 | 3600 | 4000 | 4400 | 4800 | 5200 | 5600 | 6000 | 6400 |
Regd. Office
Post Box No. 128, Maneklal Road,
Navsari – 396 445 (W.R.) Gujarat, INDIA
Phone: 240843 / 250811 / 325101 / 329419
Fax: 91-2637-257321
E-mail: navsari@peass.com

Mumbai Office
Merchant Chambers,
2nd Floor, 41, New Marine Lines,
Mumbai – 400 020 India
Phone: 6631 0561 (3 Lines)
3254 5106 / 3253 5107 / 3253 5108
Fax: 91-22-6631 0570
E-mail: mumbai@peass.com

Delhi Office
729, Pocket ‘E’,
Mayur Vihar Phase II,
Delhi – 110 091 India
Phone: 2277 3701 / 3244 5102 / 03
Fax: 91-11-2277 4741
E-mail: delhi@peass.com

Coimbatore Office
P-1, 3rd Floor, Red Rose Plaza,
509, D.B. Road, R.S. Puram,
Coimbatore – 641 002 India
Phone: 2544097 / 3245115
Fax: 91-422-254 4097
E-mail: cbe@peass.com

Ahmedabad Office
Samudra, B-201, 2nd Floor,
Sardar Patel Nagar Road,
Navrangpura,
Ahmedabad – 380 006 India
Phone: 26427665 / 32935112
Fax: 91-79-2642 7665
E-mail: ahd@peass.com

Website: www.peass.com