

peass schlafhorst

PPWS V1 **Precision Soft** **Package Winder**

Key to perfect dyeing



Precision Propeller Soft Package Winder PPWS V1

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

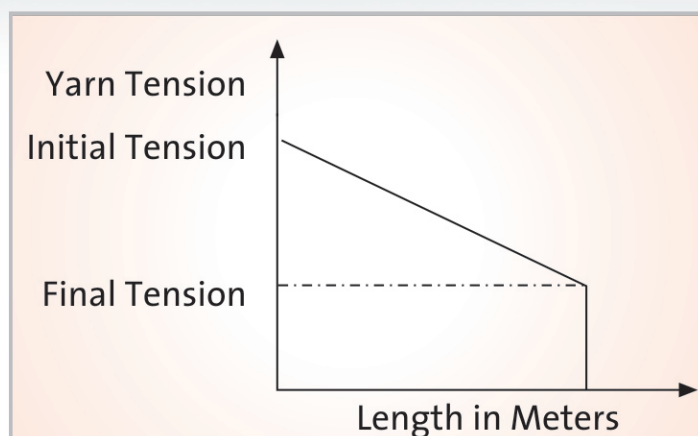
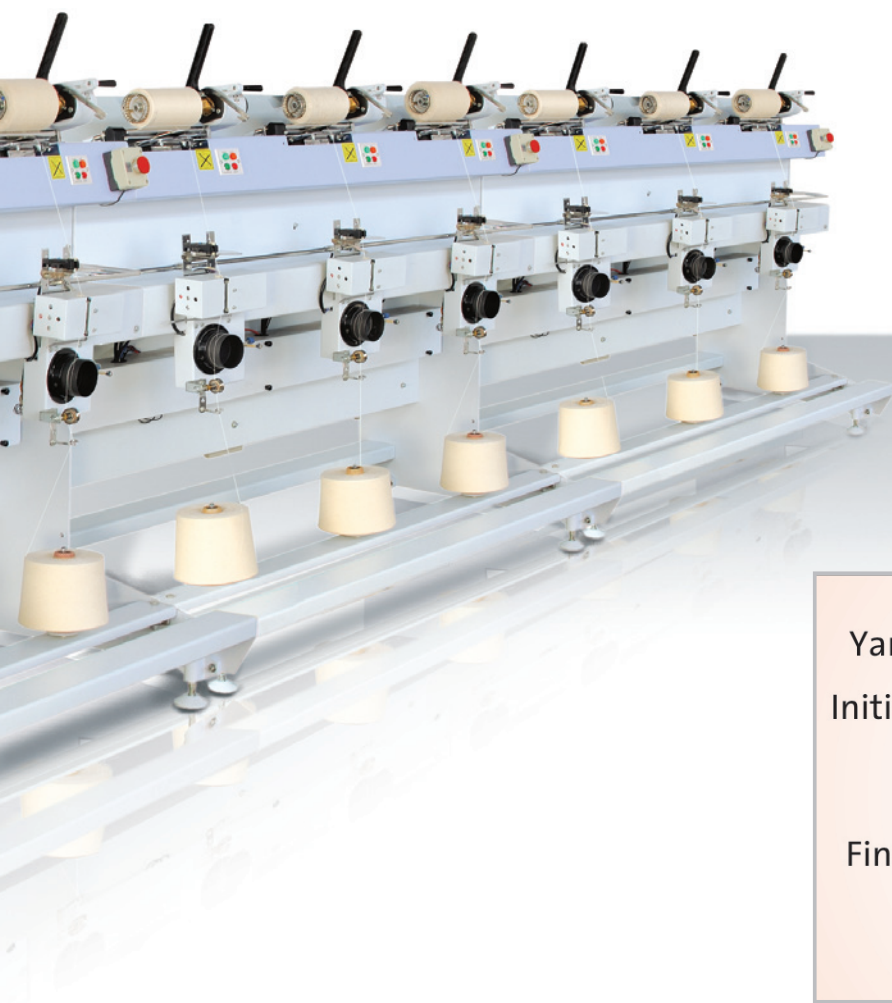
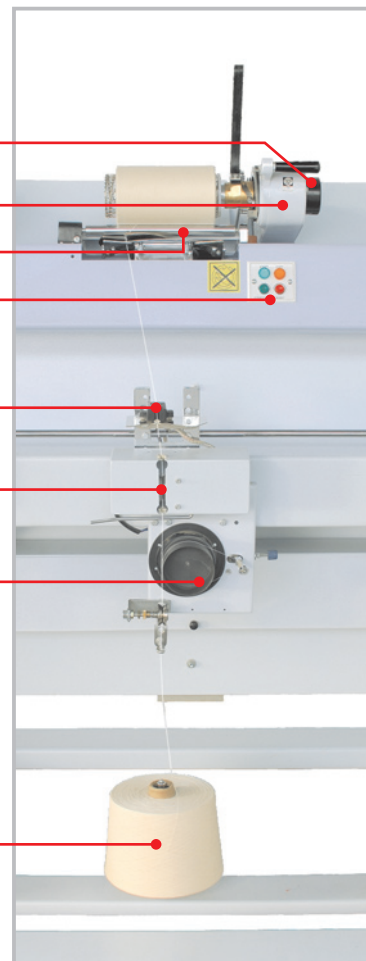
Visual display of yarn break and full doff

Electronic non contact yarn detector

Digital tension device

Overfeed device

Universal package holder



Digital tension control.

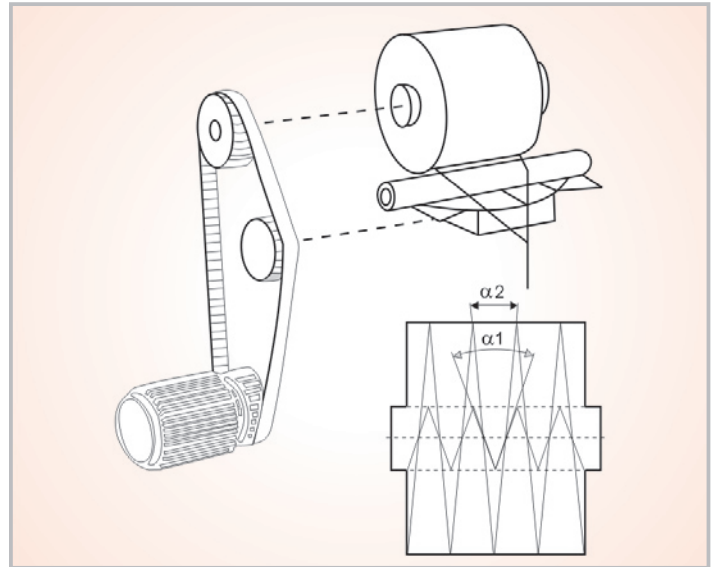
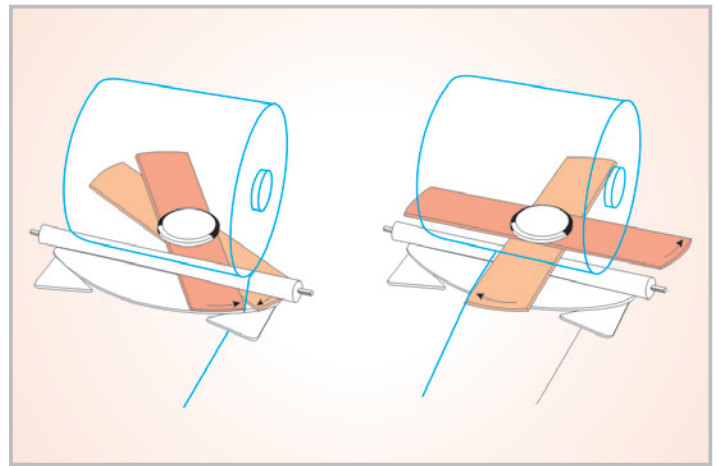
Yarn traversing system

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.

Constant number of coils from start to final package.



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

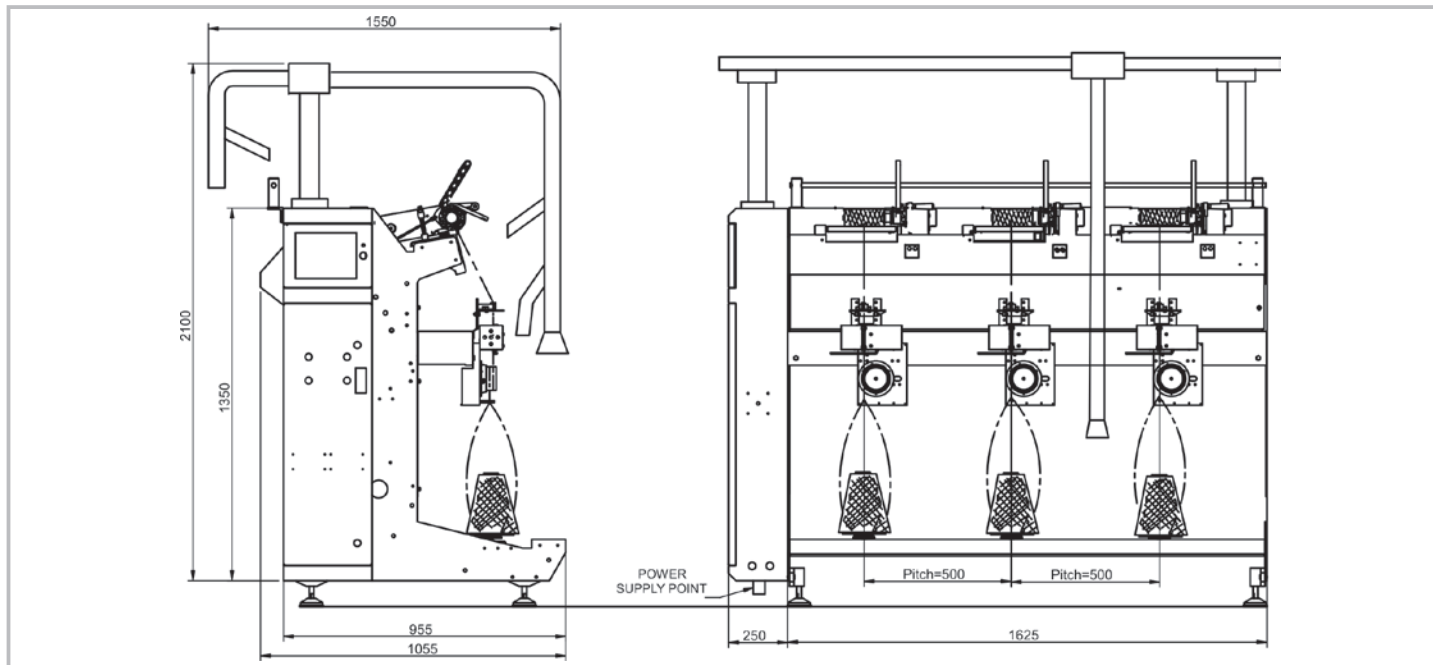
Optional features

- Overhead travelling blower
- Splicer unit
- Digital tensioner
- Online tension monitoring and control



PPWS V1

Technical specifications



Machine model

PPWS V1

Count range

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

Produce package type

Cylindrical – bi-co tubes

Power

Installed: 0.5 HP/spindle

No. of winding heads

3 to 96

Package destination

Dyeing, knitting, warping,
weaving

Produce package diameter

Min. ID Ø38 mm,
max. OD Ø280 mm

Spindle drive

Individual

Machine arrangement

Single sided

Winding speed

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

Produce package traverse

152 mm traverse

Special features

Propeller thread laying
system for lowest yarn
stressing while winding

Spindle gauge

500 mm

Type of winding

Precision winding

Supply package type

All types

Supply package

Ø300 mm diameter

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

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