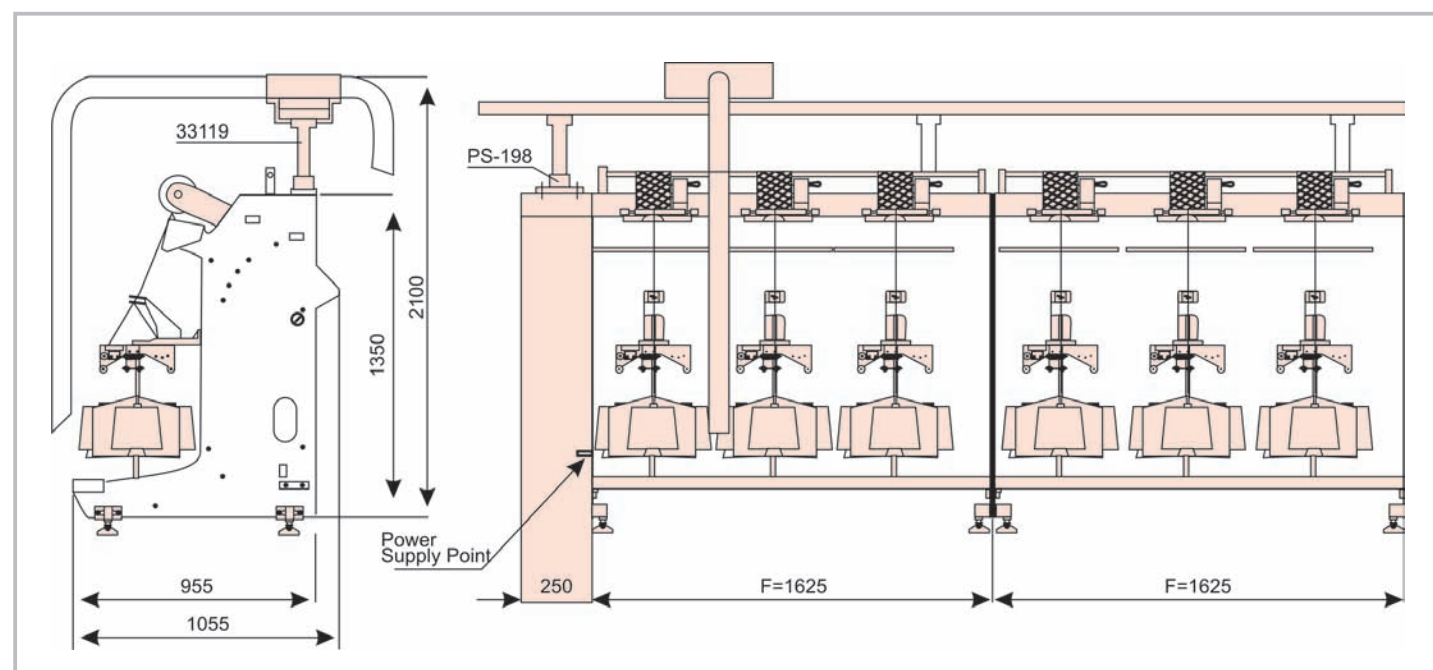


# PPWA V1

## Technical specifications



### Machine model

PPWA 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

Twisting

### Winding speed

1600 mpm (depending on  
process parameters)

### Supply package type

All types

### Produce package type

Cylindrical

### Produce package diameter

Min. ID Ø38 mm,  
max. OD Ø280 mm

### Produce package traverse

6" or 8"

### Supply package

OD Ø250 mm

### Power

Installed: 0.5 HP/spindle  
Consumed: 90-110 Watts  
per spindle (depending on  
process parameters)

### Spindle drive

Individual

### Special features

Propeller thread laying  
system for lowest yarn  
stressing while winding

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# PPWA V1

## Precision

# Assembly Winder

## Key to perfect twisting



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

# Precision Propeller Assembly Winder PPWA V1

Assembly winding is heart of twisting. The Hi-Tech PPWA V1 model provides a perfect feed package to twisting machines ensuring highest productivity and best quality.

With precision winding you have the following advantages:

## Quality

- Less hairiness increase
- Zero split ends
- Zero patterning and ribboning zones
- More knotless yarn lengths
- Perfect unwinding properties

## Productivity

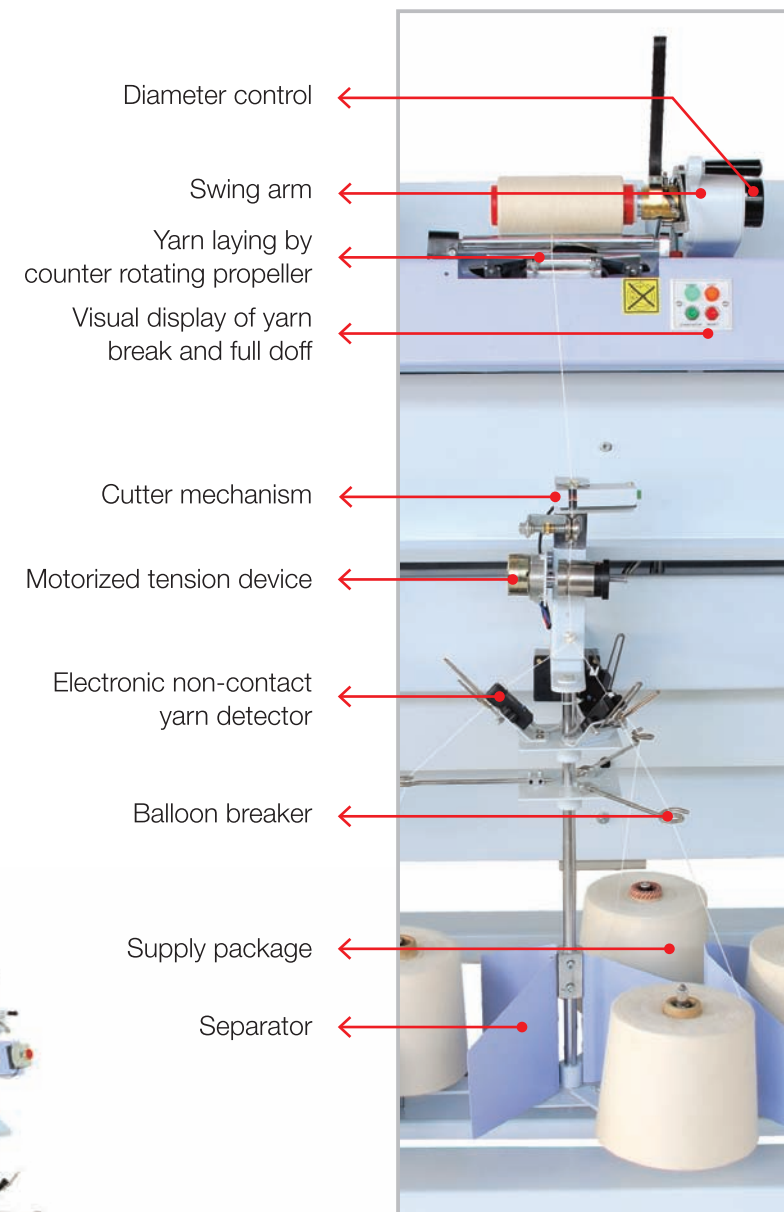
- Higher speeds of up to 1600 m/min
- Less breakages on TFO
- Longer running time of TFO
- Improved efficiency of TFO

## Straight yarn path

- Gentle handling of yarn
- Ceramic contacts
- Self threading

## Salient features

- Individual spindle drive
- Individual inverter control
- Individual length measuring
- Individual diameter control
- Motorized tension device
- Electronic non-contact yarn sensors
- Cutter mechanism for single end prevention



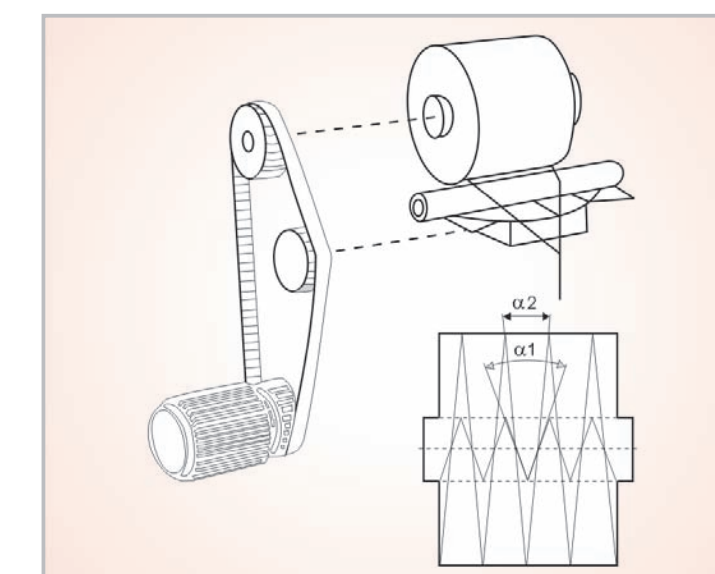
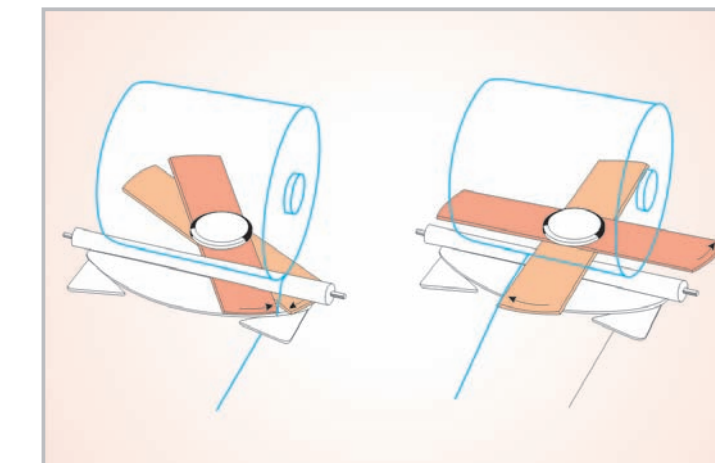
## Yarn traversing system

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
- Cutter mechanism for single end prevention

### Optional features

- Overhead travelling blower
- Splicer unit

