

**PERFECT**  
*for Affordable Technology*



**Product Range:** Spinning Blowroom & Card  
Recycling  
Opening / Blending  
Nonwovens  
Sanitary

## Company Profile

A Company created by technocrats four decades ago, PERFECT continues to be driven by a clear vision for excellence in technology and engineering. This single minded pursuit of uncompromising quality standards and continuous innovation has catapulted PERFECT into the international market, making it the choice source of leading multinationals in the Global Textile Arena. PERFECT'S ability to integrate technology, processes and customer requirements into ingenious solutions has resulted in delivering the machines with highest efficiency at a very economical price.

PERFECT is manufacturing and delivering machines which meets the International Standards of Accuracy and Efficiency. Perfect Machines are well accepted in Europeans Markets which requires CE Certification.

Perfect Engineering Corporation is an ISO 9001 : 2015 company. The products are designed to meet the technical standards of CE. Perfect Engineering Corporation will continue to strive to be a stronger leader in the global market of blowroom, carding, textile waste recycling & surgical cotton processing machinery.

## CONTENT

PRODUCTS	Page
<b>Spinning Blowroom &amp; Carding</b>	
Blowroom Line for Cotton	02
Blowroom Line for Man Made Fibres	03
Card 1000	04
Card 1275 BSD	05
Bale Openers	06
Heavy Particle Separator with Bend Magnet (PHPS)	07
Bend Magnet (PVM)	07
Opti Cleaner (PO-10)	08
Opti Mixer (PM-60 / PM-80)	09
Fine Openers (PF)	10
Dust Separator (PDS)	11
Cage Condensor (PCC-50)	12
Conveyor Inspection Table (PCT-71)	13
Fan (PFN)	14
2-Way Flap Valve (PFLV)	14
<b>Recycling</b>	
Hard Waste & Fabric Opening Line (PRT 1000)	15
Hard Waste Opening Line (PRT 1300)	16
Cutter (ECO-300 / ECO-500)	17
Cutter Blade Grinder (PBG)	18
Magnetic Conveyor Roll Table (MCR-800)	18
Evener Feeder with 2 Condensor, PCC-50 (PB-800-400)	19
Cotton Waste Recycling Line	20
Six Chamber Cleaner with Feed Lattice (PS-40)	21
Feed Trunk (PFT / PFTB / PFE)	24
Micro Fibre / Trim Opener (PMO-300)	25
Double Roll Trim Opener (PDRTO 1500)	26

PRODUCTS	Page
<b>Nonwoven</b>	
Automatic Blending Line for Cotton, Synthetic blends.....	27
Card 1275 BDD	28
<b>Sanitary</b>	
Post Bleaching Line with Automated Link	29
Bleached Cotton Rolling & Cutting Machine	30
<b>Material Handling System</b>	
Automatic Online Hydraulic Baling Press with Silo	31
Manual Hydraulic Baling Press	31
Automatic Waste Collection System	32

## Blowroom Line for Cotton



- Compact line for production output up to 800 kg/h
- High cleaning efficiency with low nep generation
- Synchronised feeding with cards by advanced PLC control

Application :  
Cotton, ring spinning and open-end spinning

## Blowroom Line for Man Made Fibres

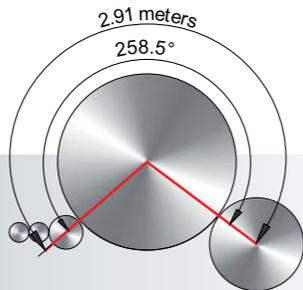
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- Better opening of bales
- Synchronised feeding with cards by advanced PLC control
- Option with flat magnet over inclined lattice

Application :  
Ring & open end spinning of man made fibres

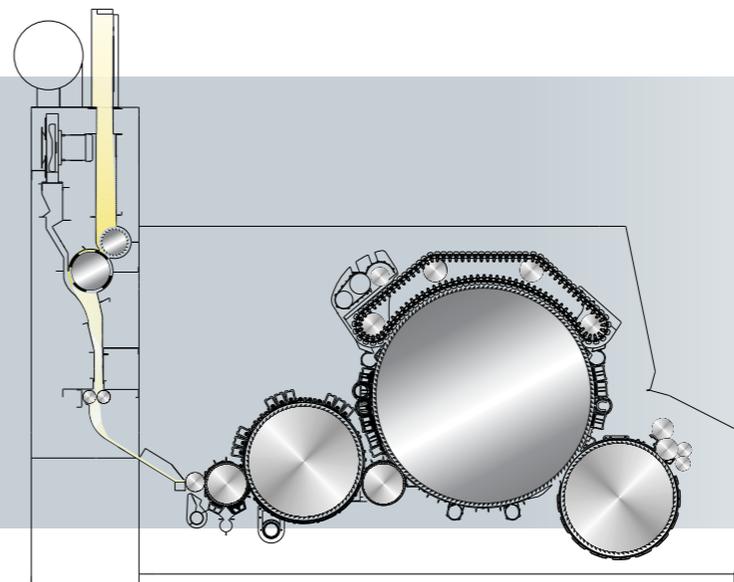
## Card 1000



- Largest Carding area of 2.91 sq.mt. (for any 1000 mm width Card)
- 37 Flats in working position
- Licker in options : Single or Triple to suit any type of material to be processed

Application :  
Ring & open end spinning of cotton & man made fibres

## Card 1275 BSD



- For Regenerated fibres & high denier synthetic fibres
- Card with coiler for can dia up to 1000 mm
- Opens most of yarn remnants in feed material
- Negligible under card waste

Application : Cotton & synthetic spinning, recycling

## Bale Opener



- Available in working width 1000 mm, 1200 mm & 1600 mm
- Selection as per material output & type of material
- Feeding Conveyor with 2.5 mtr & 5 mtr length
- With Flat magnet above inclined lattice

### Technical Specification

Description		PB-1000**	PB-1200	PB-1600	PGB-1000	PGB-1200
Length with 2 mtr Feed Table *	(mm)	5290	5899	9585	6510	6510
Width	(mm)	1464	1664	2064	1464	1664
Height	(mm)	2287	2236	3040	2540	2540
Installed Power **	(kW)	3.75	3.75	6.65	5.95	5.95
Weight (approx.)	(kg)	2200	2500	4000	3100	3500
Production	(kg/h)	Up to 300	Up to 400	Up to 700	Up to 600	Up to 600
Operating Voltage	(v)	415	415	415	415	415
Exhaust Requirement	Volume (m <sup>3</sup> /h)	-	-	3500	2500	3000
	Pressure (pa)	-800	-800	-800	-800	-800

\* length with 2 mtr standard  
Also available 2.5 & 4 mtr Feed Lattice  
\*\* Can vary depending on application  
Application : Recycling, spinning cotton & man made fibres, surgical Cotton

## Heavy Particle Separator with Bend Magnet **PHPS**



- Heavy parts & impurities in raw cotton are separated
- Adjustable Waste quantity dropping

### Technical Specification

Description		PHPS	PVM
Length	(mm)	1693	512
Width	(mm)	657	480
Height	(mm)	2098	765
Weight (approx.)	(kg)	225	42
Production	(kg/h)	Up to 800	Up to 800
Waste Removal	-	Manual	Manual

Application : Recycling, spinning cotton

## Bend Magnet **PVM**



- Used for detecting & removing ferrous metal particles

### Technical Specification

Description		PVMS	PVML
Length *	(mm)	512	562
Width *	(mm)	480	480
Height *	(mm)	765	765
Weight (approx.) *	(kg)	42	55

\* Available in different sizes

**Opti Cleaner  
PO-10**



**Technical Specification**

Description			PO-10
Length	(mm)		2230
Width	(mm)		1064
Height	(mm)		2036
Installed Power *	(kW)		15.37
Weight (approx.)	(kg)		2000
Production	(kg/h)		Up to 800
Operating Voltage	(v)		415
Exhaust Requirement	Waste :	Volume (m <sup>3</sup> /h)	5000
		Pressure (pa)	-700
	Dust Air :	Volume (m <sup>3</sup> /h)	2000
		Pressure (pa)	-250

\* Can vary depending on application  
Application : Recycling, spinning cotton

- Effective cleaning with less lint loss in dropping
- Adjustable grid bars
- Dust collection arrangement
- Waste collection box connected to centralised waste collection system

**Opti Mixer**



- Available 6 or 8 chambers, working width 1200 mm & 1600 mm
- Homogeneous mixing of Cotton, synthetic blend material
- Material feeding by transport fan
- Positive Conveyor arrangement for material delivery, at bottom
- Photocell & pressure regulated control for filling of mixer chambers
- Designed with PLC Control System

**Technical Specification**

Description			PM-60	PM-80
Length	(mm)		4777	5670
Width	(mm)		2486	1770
Height	(mm)		3991	4000
Installed Power *	(kW)		4.62	4.62
Weight (approx.)	(kg)		4890	6000
Production	(kg/h)		Up to 500	Up to 800
Operating Voltage	(v)		415	415
Air Requirement	Volume (l/h)		110	130
	Pressure (bar)		8	8

\* Can vary depending on application  
Application : Recycling, spinning cotton & man made fibres

**Fine Opener  
PF**



- Fine opening of cotton & synthetic blend material
- Three models as per type of material
- Selection of underneath beater arrangement as per material like comb segments, grid bars, mote, knives, etc...

**Technical Specification**

Description			PF-31	PF-33	PF-40
Length		(mm)	1254	1254	1254
Width **		(mm)	1664	1664	1664
Height		(mm)	1263	1263	1263
Installed Power *		(kW)	6.25	6.25	6.25
Weight (approx.)		(kg)	1200	1200	1200
Production		(kg/h)	Up to 600	Up to 600	Up to 600
Operating Voltage		(v)	415	415	415
Exhaust Requirement	Volume	(m <sup>3</sup> /h)	4500	4500	4500
	Pressure	(pa)	-700	-700	-700
Air Requirement		(l/h)	-	-	-

\* Can vary depending on application  
 \*\* All above are also available in 1600 mm width  
 Application : Recycling, spinning cotton & man made fibres, surgical cotton

**Dust Separator  
PDS**



- Removes micro dust & kitties from cotton
- Helps in improving colour appearance of yarn

**Technical Specification**

Description			PDS
Length		(mm)	2217
Width		(mm)	1864
Height		(mm)	3485
Installed Power *		(kW)	18.87
Weight (approx.)		(kg)	1541
Production		(kg/h)	Up to 800
Operating Voltage		(v)	415
Exhaust Requirement	Volume	(m <sup>3</sup> /h)	4500
	Pressure	(pa)	-700

\* Can vary depending on application  
 Application : Recycling, spinning cotton

**Cage Condensor**  
**PCC-50**

- Suitable for cotton, synthetic staple fibres
- Gentle transfer of material with micro dust removal



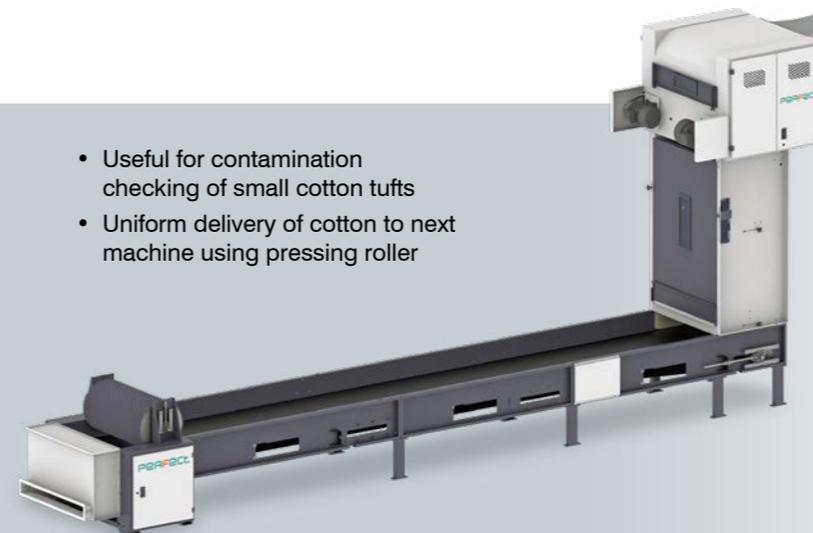
**Technical Specification**

Description		PCC-50
Length	(mm)	1475
Width	(mm)	1465
Height	(mm)	1008
Installed Power *	(kW)	7.7
Weight (approx.)	(kg)	632
Production	(kg/h)	Up to 800
Operating Voltage	(v)	415
Exhaust Requirement	Volume (m <sup>3</sup> /h)	4500
	Pressure (pa)	-150

\* Can vary depending on application  
Application : Recycling, spinning cotton & man made fibres, surgical cotton

**Conveyor Inspection Table**  
**PCT-71**

- Useful for contamination checking of small cotton tufts
- Uniform delivery of cotton to next machine using pressing roller

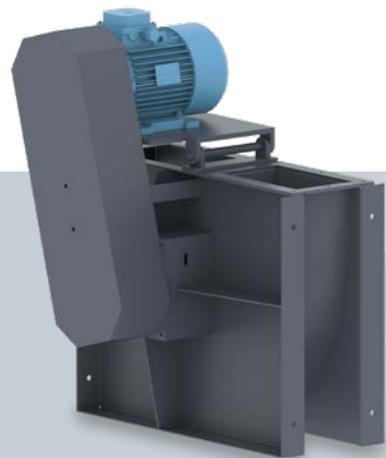


**Technical Specification**

Description		PCT-71
Length	(mm)	8414
Width	(mm)	1465
Height	(mm)	3573
Installed Power *	(kW)	0.55
Weight (approx.)	(kg)	1900
Production	(kg/h)	Up to 500
Operating Voltage	(v)	415
Exhaust Requirement	Volume (m <sup>3</sup> /h)	4500
	Pressure (pa)	-150
Air Requirement	(l/h)	-

\* Can vary depending on application  
Application : Recycling, spinning cotton

**Fan  
PFN**



**Technical Specification**

Description		PFN-425	PFN-500	PFN-650
Length	(mm)	810	912	1125
Width	(mm)	517	650	1370
Height	(mm)	952	1156	936
Installed Power *	(kW)	5.5	9.3	17.5
Weight (approx.)	(kg)	165	290	395
Operating Voltage	(v)	415	415	415

\* Can vary depending on application

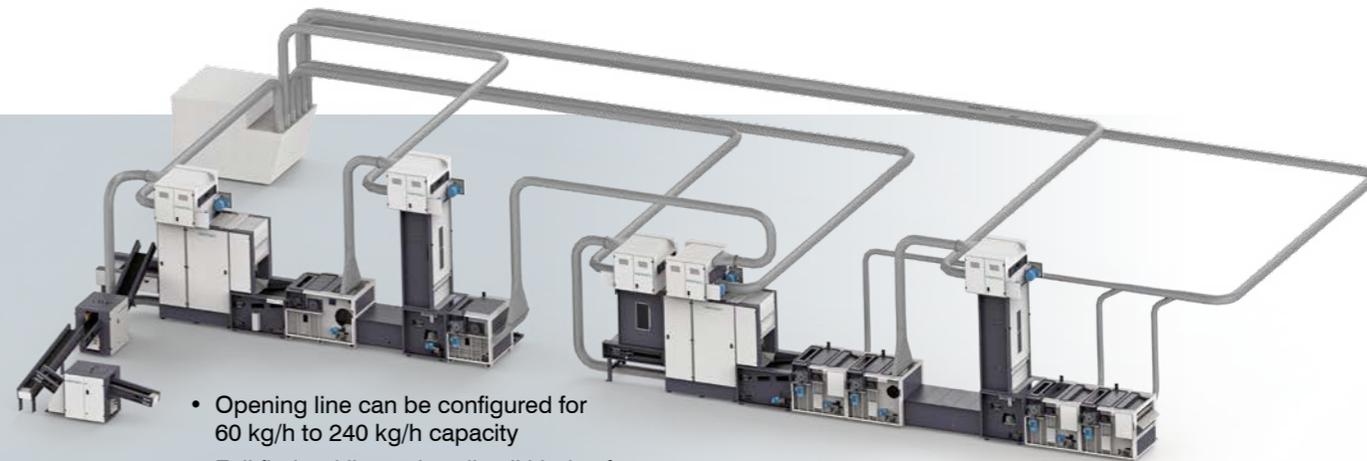
**2-Way Flap Valve  
PFLV**



**Technical Specification**

Description		PFLV-A	PFLV-M
Length	(mm)	485	485
Width	(mm)	337	337
Height	(mm)	458	458
Weight (approx.)	(kg)	19	19

**Hard Waste & Fabric Opening Line  
PRT 1000**



- Opening line can be configured for 60 kg/h to 240 kg/h capacity
- Full fledged line to handle all kinds of hard waste made of spun yarns
- Flexible placement of line as per space available \*

Application : Opening of spun yarn waste, knitting hosiery cloths



Hard Waste Opening line  
**PRT 1300**



Cutter  
**ECO-300 & ECO-500**



Technical Specification

Description		ECO-300	ECO-500
Length	(mm)	3267	3266
Width	(mm)	970	1259
Height	(mm)	1215	1271
Installed Power *	(kW)	7	11.87
Weight (approx.)	(kg)	1361	2100
Production	(kg/h)	Up to 550	Up to 750
Operating Voltage	(v)	415	415
Air Requirement	Volume (l/h)	-	-
	Pressure (bar)	6	6

- Rotary cutter with three blades
- Robust & sturdy structure
- Bigger diameter feed roller with pneumatic loading

\* Can vary depending on application  
Application : Recycling

## Cutter Blade Grinder PBG



- Adjustable angle of grinding
- Automatic traversing of grinding stone

### Technical Specification

Description		PBG
Length	(mm)	1615
Width	(mm)	588
Height	(mm)	1070
Installed Power	(kW)	0.62
Weight (approx.)	(kg)	250
Operating Voltage	(v)	415

Application : Recycling

## Magnetic Conveyor Roll Table MCR-800

- Used before cutter
- Table for checking hard waste for metal & ferrous material
- Powerful magnet roller at the end of conveyor



### Technical Specification

Description		MCR-800
Length with 2 mtr Feed Table	(mm)	2605
Width	(mm)	1280
Height	(mm)	1088
Installed Power *	(kW)	0.75
Weight (approx.)	(kg)	410
Operating Voltage	(v)	415

\* Can vary depending on application  
Application : Recycling

## Evener Feeder with 2 Condensor, PCC-50 PB-800-400



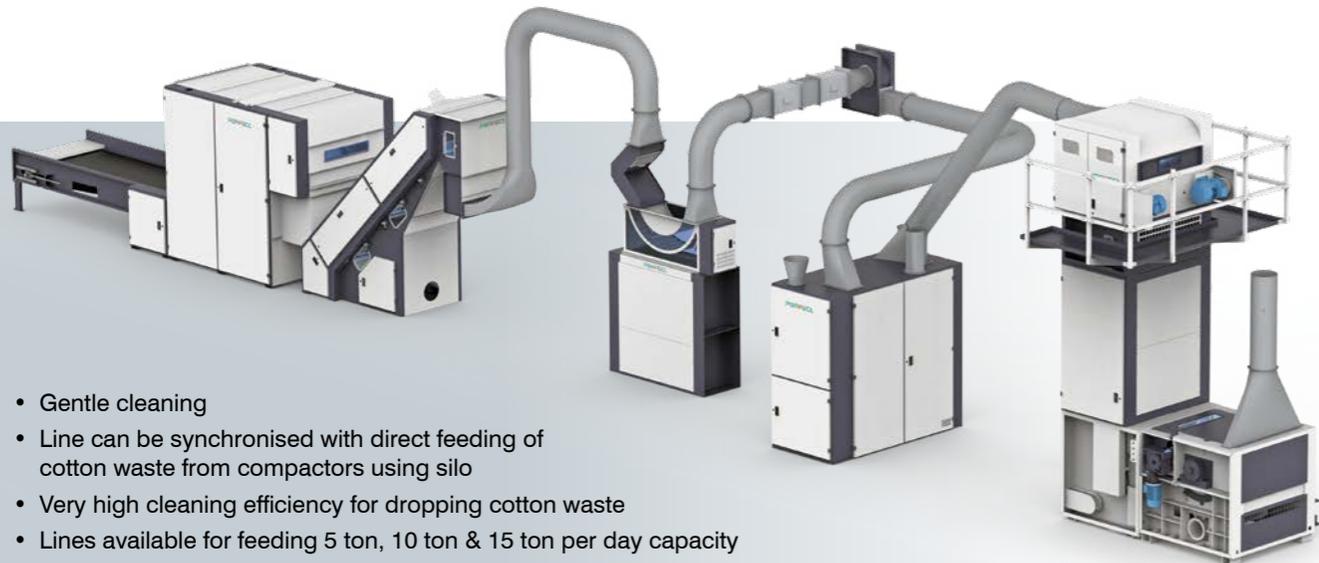
- Effective tumbling of feed & return waste material from openers
- Uniform feeding to openers
- With flat magnet above inclined lattice

### Technical Specification

Description		PB-800-400	PCC-50 1 & 2
Length	(mm)	4263	1475
Width	(mm)	1265	1465
Height	(mm)	2650	1008
Installed Power *	(kW)	2.02	7.7
Weight (approx.)	(kg)	2200	632
Production	(kg/h)	Up to 600	Up to 800
Operating Voltage	(v)	415	415
Exhaust Requirement **	Volume	(m <sup>3</sup> /h)	-
	Pressure	(pa)	-
			4500
			-150

\* Can vary depending on application  
\*\* Data of PCC-50 is for one machine  
Application : Recycling

## Cotton Waste Recycling Line

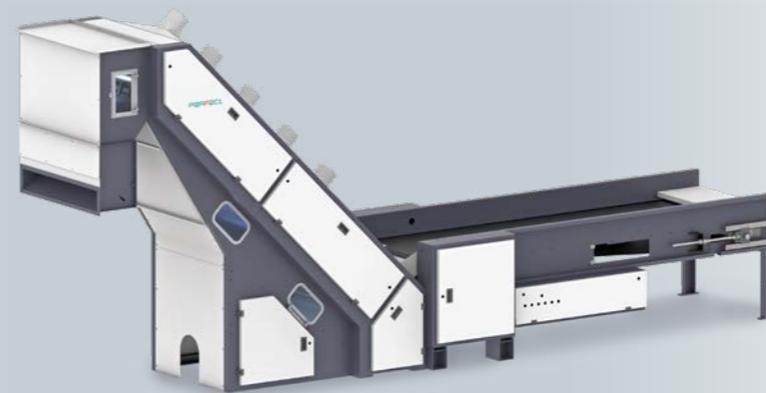


- Gentle cleaning
- Line can be synchronised with direct feeding of cotton waste from compactors using silo
- Very high cleaning efficiency for dropping cotton waste
- Lines available for feeding 5 ton, 10 ton & 15 ton per day capacity

Application : Cotton recycling, surgical

## Six Chamber Cleaner with Feed Lattice# PS-40

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- Gentle cleaning using six chambers
- High cleaning efficiency for highly trashy cotton
- Adjustable grid bars
- Centralised waste collection arrangement
- Gravity trap box at the delivery for heavy particles removal
- Suction hood above cleaning chamber for dust removal #

### Technical Specification

Description		PS-40
Length *	(mm)	2885
Width	(mm)	1308
Height	(mm)	2740
Installed Power **	(kW)	5.5
Weight (approx.)	(kg)	1450
Production	(kg/h)	Up to 600
Operating Voltage	(v)	415
Exhaust Requirement	Volume	(m <sup>3</sup> /h) 4500
	Pressure	(pa) -700

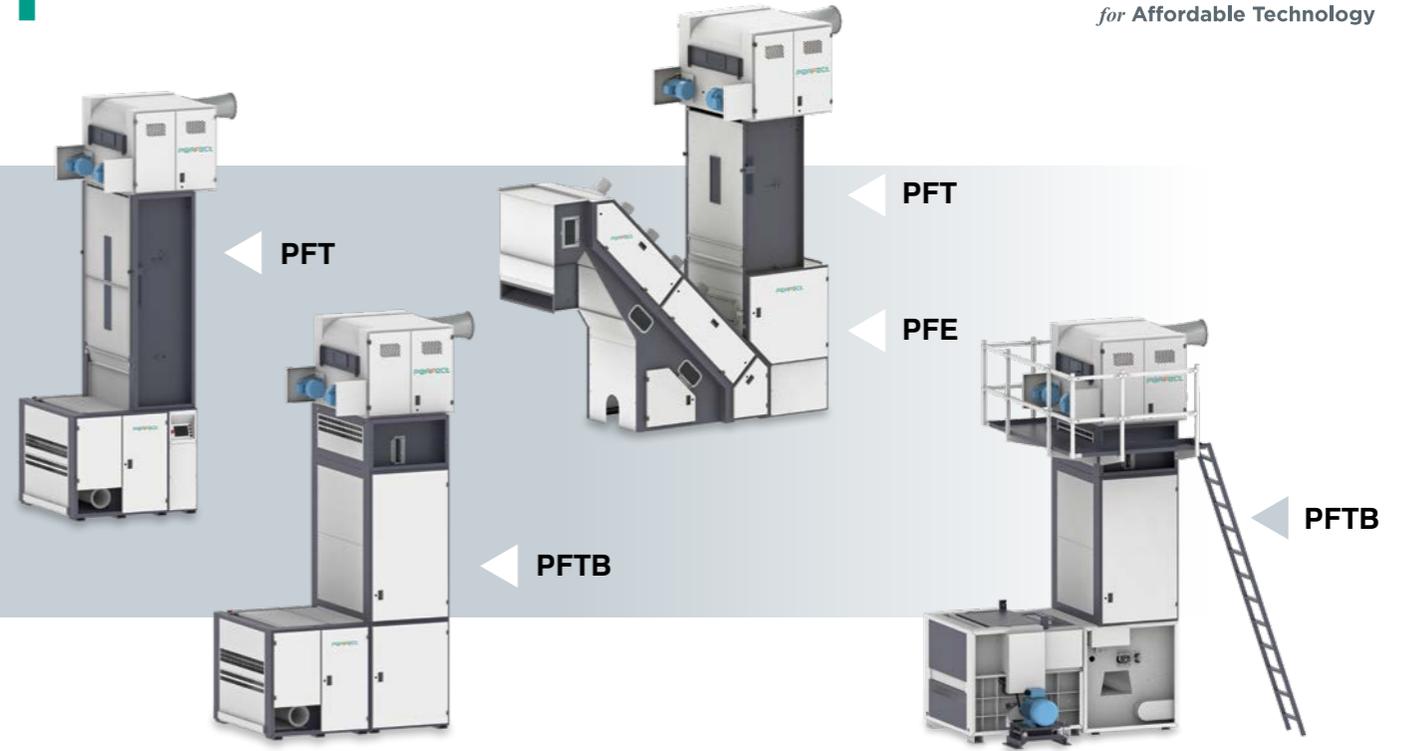
\* Length with 2.5 mtr  
Also available 5 mtr Feed Lattice  
\*\* Can vary depending on application  
# Optional  
Application : Recycling, spinning cotton

\* Various options for feeding



- Feed Trunk with feeder unit for controlled feeding to six chamber cleaner
- Suitable for feeding the material from Automatic bale plucker / Silo
- Suitable for feeding cotton material in form of tufts

\* Various options for feeding



## Feed Trunk



PFT



PFTB



PFE

### Technical Specification

Description		PFT*	PFTB*	PFE	
Length	(mm)	830	1000	1130	
Width ***	(mm)	1160	1466	1440	
Height **	(mm)	1750	2350	1700	
Installed Power *	(kW)	-	3.3	2.6	
Weight (approx.)	(kg)	Up to 240	Up to 700	Up to 580	
Opening Roller dia	(mm)	-	400	400	
Production	(kg/h)	500	400	650	
Operating Voltage	(v)	415	415	415	
Exhaust Requirement	Volume	(m <sup>3</sup> /h)	-	4000	4000
	Pressure	(pa)	-	-600	-600

\* Can vary depending on application

\*\* Also available in 2600 mm height

\*\*\* Wider width & different height available for higher production

Application : Recycling, spinning cotton & man made fibres, surgical

## Micro Fibre / Trim Opener PMO-300

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- Adjustable worker rollers with opening roller
- Suitable for Opening side cut nonwoven trim waste fabric
- Suitable for Opening dyed natural & man made fibres

### Technical Specification

Description		PMO-300	
Installed Power *	(kW)	5.57	
Weight (approx.)	(kg)	300	
Working Width	(mm)	300	
Operating Voltage	(v)	415	
Exhaust Requirement	Volume	(m <sup>3</sup> /h)	3000
	Pressure	(pa)	-400
Air Requirement	(l/h)	-	

\* Can vary depending on application

Application : Opening of dyed cotton, man made fibres & nonwovens

## Double Roll Trim Opener **PDRTO 1500**

- Automatic Synchronisation of waste trim from nonwoven line
- Automatic baling of opened material
- For spunlace & Geo textile nonwoven fabric



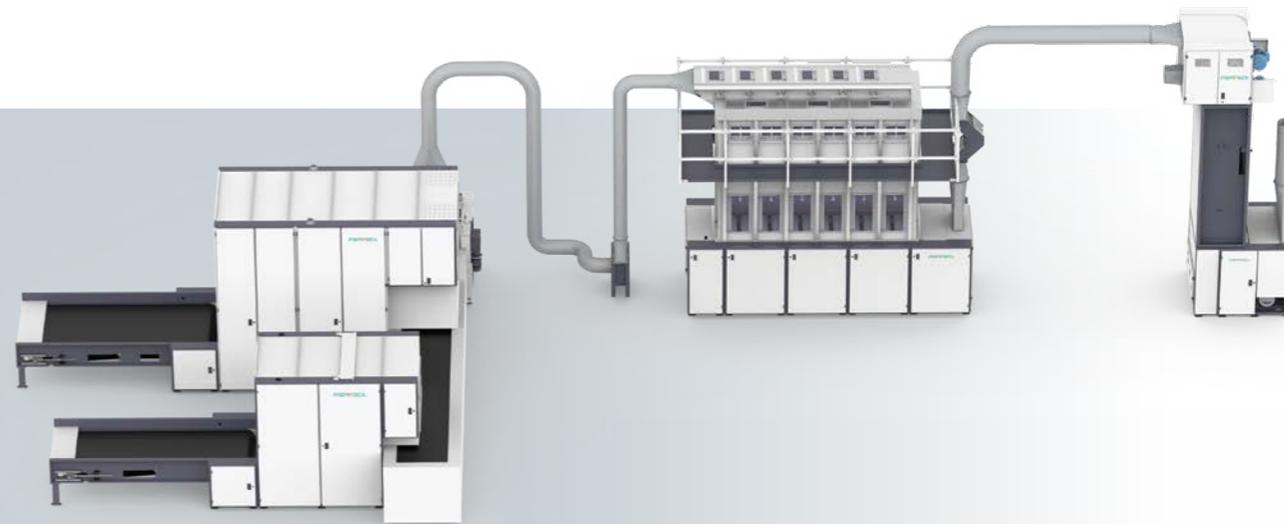
### Technical Specification

Description		PDRTO 1500	PFTN 1500	PCC-50	
Length	(mm)	4800	800	1475	
Width	(mm)	2000	1900	1465	
Height	(mm)	1660	2500	1008	
Installed Power	(kW)	24.7	1.5	7.7	
Weight (approx.)	(kg)	5000	800	632	
Production	(kg/h)	Up to 150	Up to 600	Up to 800	
Operating Voltage	(v)	415	415	415	
Exhaust Requirement	Volume	(m <sup>3</sup> /h)	9000	-	4500
	Pressure	(pa)	-600	-	-150

Application : Recycling

## Automatic Blending Line for Cotton, Synthetic, Blends, Nonwoven, Recycling & Surgical cotton material

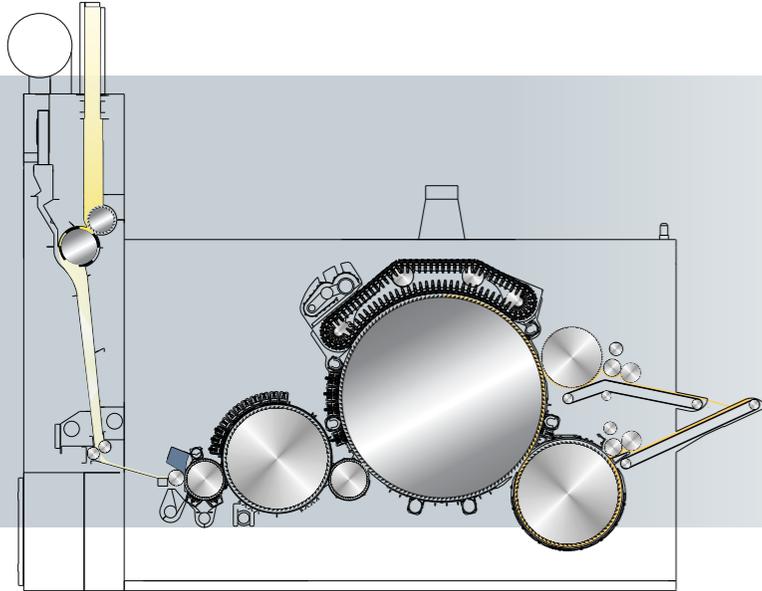
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- Automatic weighing & mixing of 2 or more different components
- High accuracy of blend percentage
- Production output depends on blend proportion up to 750 kg/h

Application :  
Recycling, nonwoven & surgical

## Card 1275 BDD



- Card for cotton/synthetic Spunlace lines
- Web output up to 40 GSM
- High productivity output, more suitable for Spunlace line

Application : Nonwoven, surgical

## Post Bleaching Line with Automated Link

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- For Absorbent cotton web output up to 40 GSM
- Card synchronised with automatic conveyor for zig-zag / roll conversion
- Good quality web appearance

Application : Surgical

Bleached Cotton Roll Making Machine



Bleached Cotton Roll Cutting Machine



Automatic Online Hydraulic Baling Press with Silo



Manual Hydraulic Baling Press

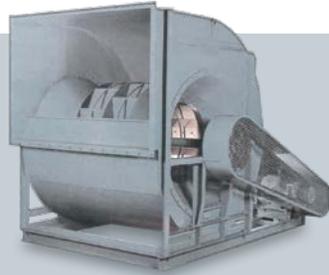


Application : Cleaned cotton,  
recycling cotton, surgical cotton.

- Available for different bale size & bale weight
- Hydraulic pressure range 25 T, 40 T, 60 T, 100 T, 125 T with single & double cylinder

## Automatic Waste Collection System

- Centralised waste removal & filtration system for transporting & compacting cotton / synthetic waste
- Also available in metal sheet enclosure housing



### Centrifugal Fan

- SISW / DIDW Design as per system requirement
- Available for high static pressure up to 300 mm WG & capacity air volume up to 150000 CMH



### Rotary Drum Filter

- Selection of filter media as per waste material to maintain constant pressure
- Traverse cleaning nozzles connected to high pressure material fan for continuous cleaning & waste collection



### Primary Disc Filter

- Selection of filter media as per waste material to maintain constant pressure
- Removal of waste deposited on the disc by vertical nozzle through fan into fibre compactor



### Fibre Compactor

- Delivery of waste in compact form
- Available for handling cotton material up to 90 kg/h & 125 kg/h
- Vertical, octagonal in shape and have conical screw driven by geared motor

## Manufacturing Facilities



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