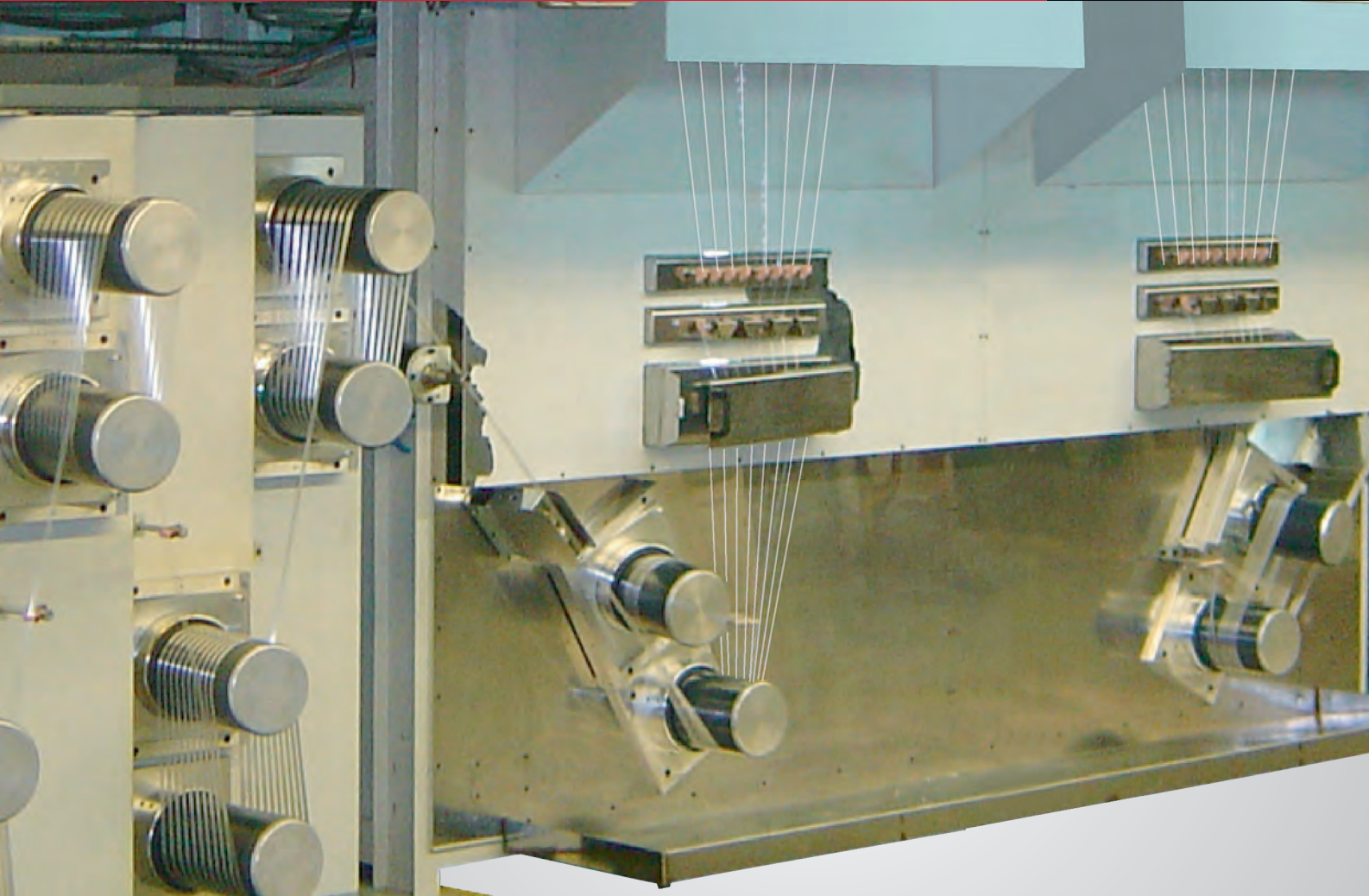




# Multifilament Spin-Draw-Wind Line *lofil*

spinning



**LOHIA**  
STARLINGER LIMITED

Innovation to leadership  
Since 1981



### Extruder

A specially designed extrusion screw serves the purpose of homogenizing and consistent delivery of polymer aggregate through the extruder. Due to compact size of spinning section, polymer color changing and the related wastage is reduced to minimum.

### Melt Pump

Planetary gear type polymer melt pump ensures uniform pressure and flow through each of the spin-packs.

### Spin Pack

There are 4/8 spin-packs for each extruder, arranged for optimum utilization of space while allowing sufficient gap between filaments down the quench zone.

### Air Quench

A specially designed quench zone ensures an even and turbulence free cooled cross-air flow which quenches the extruded filaments uniformly. Compact water pumping system keeps the quench air temperature constant.

### Spin Finish

Spin finish oil is applied to the extruded filaments through dual type nozzle application system using special low friction ceramic nozzles. The quantity of oil is metered by precision gear pumps ensuring uniform distribution of oil.

### Oil - dispersion Jets

High quality oil-dispersion jets distribute the spin-finish evenly around and within the yarn cross section. Optimum application of spin-finish results in better filaments cohesion, static charge elimination and stable yarn path, for faultless quality yarn production.

### Godets

A collecting godet pair is provided below the spin-finish application zone.

Upto four hot godet pairs form the stretching zone for drawing the filaments in stages. Each godet is individually driven with independent motor and frequency inverter. Speeds and temperature of all godet pairs can be set and monitored from the Human Machine Interface (HMI) console.

The final relaxation godet with its adjustable height is a distinctive design concept brought in with this machine for optimum winding tension.

### Intermingling

Intermingling Unit (IM) jets are provided after the stretching zone. The IM unit can be easily bypassed if flat yarn is desired for subsequent twisting.

### Winder

*Iofil* is supplied with Automatic winders for 4 or 8 package winding on each side. Automatic doffing cycle without any human intervention results in higher efficiency/output & helps minimize waste of FDY.

A conversion kit can be provided for shifting from 4 packages winding to 8 package winding or vice-versa.

### Electronic Control Panel

The process is controlled by a PLC based system. The HMI (Human Machine Interface) is an industrial PC system which allows centralized monitoring, setting and storing of process parameters of both sides of the machine through user friendly schematic diagrams.



WINDER

The **lofil** range of Spin – Draw – Wind (SDW) machines from Lohia Starlinger Limited are based on the concept of central extrusion modules, which are combined with different roller (godets) modules, to allow the production of different Polypropylene Yarns such as HT (High Tenacity), FDY (Fully Drawn Yarn) and MT (Medium Tenacity). The yarns produced on these machines can be used for variety of end uses, such as sportswear, upholstery, automotive interiors, industrial/technical applications etc.



## POLYPROPYLENE FILAMENT YARN APPLICATIONS

### INDUSTRIAL USE

- Geogrids and Geotextiles
- Protective wear for medical use
- Fishing nets

### LEISURE AND SPORTS

- Fancy Belts in casual wear
- Sportswear
- Swimwear
- Haversacks
- Straps in casual footwear
- Harness for horses
- Saddlery fabric
- Leads for pets
- Harness and ropes in water and wind sports

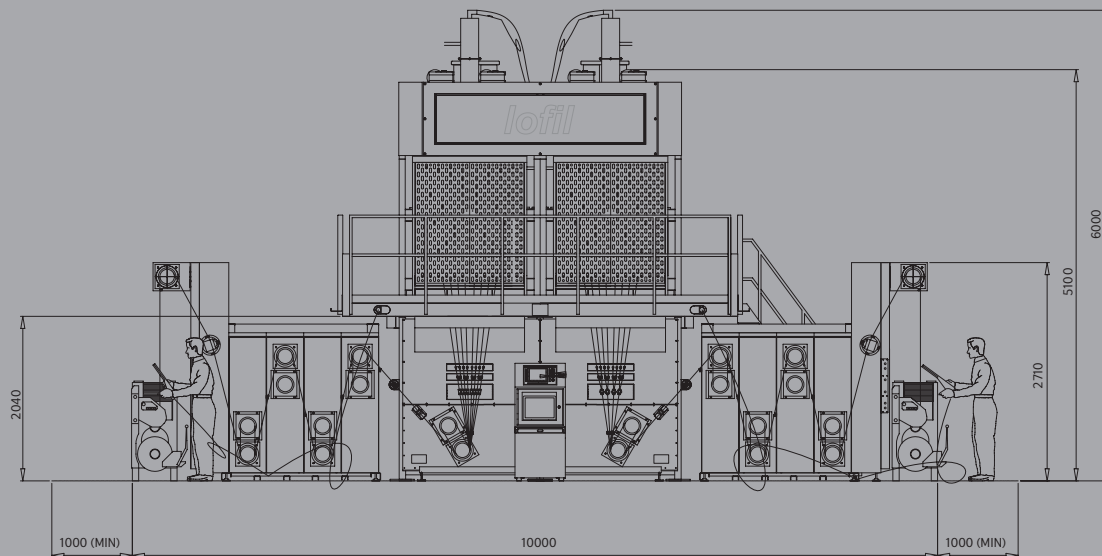
### PACKAGING TEXTILES

- Fabric for soft baggage
- Straps for fastening
- Webbing for lifting loops
- Sewing thread
- Towing belts

### HOME FURNISHING

- Furniture upholstery nets
- Ticking Fabric
- Tapes for hooks on curtains
- Awnings





Depth of Machine  
9.8 m approx

## TECHNICAL SPECIFICATIONS

<b>Product range</b>		<b>Quench unit</b>	
Yarn Type	HT (High Tenacity)	Quench Medium	Cross Air Flow Cooling
	FDY - MT (Medium Tenacity)	<b>Spin finish unit</b>	
Denier Range	100 to 4000	Type of Applicator	Dual Nozzle
No. of Filaments	72/98/120/144	Pump	Precision Gear Pump
Yarn Cross-sections	Round/Trilobal/Delta/Hollow	<b>Drawing unit</b>	
<b>Extruder unit</b>		No. of Godets (In Duo)	4 pairs for HT/2-3 pairs for MT
Screw Diameter	50 mm	Temperature Range	Upto 160 Degrees Celcius
Max. Melt Output/Extruder	75 kg/hr	Maximum Godet Speed	3800 m/min
No. of Extruder/Machine	1 or 2	<b>Relaxation unit</b>	
Screw L/D Ratio	30:1	No. of Godet	1 per Winding Position
Melt Filtration	Auto Screen Changer	Max. Speed	3800 m/min
<b>Spinning unit</b>		<b>Winding unit</b>	
No. of Spin Pumps	2 per Extruder	Winder Type	Automatic
No. of Spinnerets	8 per Extruder	No. of Ends	4 and/or 8
Spin Pump Capacity	4 X 6 cc/rev (Standard)	Max. Winding Speed	Upto 3600 m/min

Specifications are subject to change without prior notice due to continuous developments. These details are indicative and not binding.

Extreme values indicated are not achievable simultaneously.

The pictures may show optional equipment that are not a part of the standard supply. For details, refer to quotation.

# LOHIA

## STARLINGER LIMITED

### H.O & WORKS

D-3/A, Panki Industrial Estate,  
Kanpur - 208022, India  
T: +91 512 3045100  
F: +91 512 3045299  
E: [isl@lohiagroup.com](mailto:isl@lohiagroup.com)

### EXPORT MARKETING

218, Ansal Chambers II,  
Bhikaji Cama Place,  
New Delhi - 110066, India  
T: +91 11 3064 1770  
F: +91 11 3064 1771  
E: [sales@lohiagroup.com](mailto:sales@lohiagroup.com)

### BRANCH OFFICES

**AHMEDABAD**  
60, Triveni Park Bungalow,  
Auda Staff Society, Drive-in,  
Ahmedabad - 380054  
T: +91 79 4005 2951-55  
+91 79 2684 1961-62  
F: +91 79 2685 1704  
E: [ahmedabad.isl@lohiagroup.com](mailto:ahmedabad.isl@lohiagroup.com)

### BANGALORE

544, 9th Cross,  
7th Main, Sadashiv Nagar,  
Bangalore - 560080  
T: +91 80 2361 0020/22  
+91 80 4113 7799  
F: +91 80 2361 0024  
E: [bangalore.isl@lohiagroup.com](mailto:bangalore.isl@lohiagroup.com)

### DELHI

218, Ansal Chambers II,  
Bhikaji Cama Place,  
New Delhi - 110066  
T: +91 11 3064 1770  
F: +91 11 3064 1771  
E: [delhi.isl@lohiagroup.com](mailto:delhi.isl@lohiagroup.com)

### KOLKATA

H M Plaza Business Centre,  
8, A J Bose Road, Ground Flr,  
Kolkata - 700017  
T: +91 33 2280 4640/41  
F: +91 33 2290 5136  
E: [sales.kolkata@lohiagroup.com](mailto:sales.kolkata@lohiagroup.com)