

lofilDuo HS

multifilament
spin-draw- wind lines

Wider Denier Range Applications

Quicker Response to Market Dynamics

Automatic Winders

Ergonomic Design



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multifilament spin-draw-wind lines

Designed for high & medium tenacity yarns for variety of applications



OPTIONAL EQUIPMENTS

- Colour/Additive Dosing Unit
- Spinneret Cleaning Equipment
- Spinneret for Different Filament
- Profiles

Working Speed Mechanical (max.)
1500 to 2500 m/min

Melt Capacity (max.)
upto 160 kg/hr

Denier Range
400 to 4000*

Denier per Filament
upto 10

EXTRUDER

Hassle Free Operation: Specially designed extrusion screw with new generation homogenisation and mixing sections for optimized melt quality for wide range of PP polymers, ensuring long-term and hassle free operation.

MELT PUMP

Uniform Melt: Melt spinning pump ensures uniform melt delivery at steady pressure. The electrically heated die head is designed to optimize heat transfer and reduce energy losses.

SPIN-PACK

Spun-dyed Yarn: The spin-packs assure high-value spun-dyed yarn production and ease of operation. The filaments coming out of spinnerets are cooled by specially designed quench zone with variable air flow rate.

QUENCH SYSTEM

Even Airflow: The proven cross-flow quenching system supplies an even, turbulence-free air flow. The quenching system is easy to clean and airflow can be regulated by variable inverter drives

SPIN-FINISH

Dual Nozzle Type Spin-finish Application System ensures uniform spin-finish distribution over the filaments with the help of precision gear pump

GODETS

Inductively heated and temperature controlled: The draw zone consists of seven heated godets includes duos & three sets of godet-separator roll combination, protected with five guards. The speed and temperature of each godet set can be individually controlled. Inductively heated and temperature controlled draw zone provides a sophisticated stretching system to achieve high yarn tenacity.

WINDER

High speed winder with Automatic changeover: Fully automated high speed winders with separate user interface deliver quality yarn packages with customized winding mechanisms that ensures snag-free usage in the subsequent process. Automatic changeover at pre-set package size saves energy and reduces human effort.

Process speed ramp-up & ramp down feature is available: Enabling operator to thread-up machine at low melt output after completion of threading operation. Similarly, rampdown can be done in event of any yarn breakage.

CENTRALIZED PLC SYSTEM

Ease of Management: Advance PLC based process control system with easy to navigate touch screen offers display & management of process parameters; integrated trends, error and help messages; password governed access levels for protecting vital parameters; product recipe management; and provision for connection to external printer.

lofilDuo HS range of Spin-Draw-Wind Lines provides spinning solutions for producing high & medium tenacity polypropylene continuous filament yarn. It is capable to cater a wide range of denier needs and is ideal for lower deniers with higher productivity. Ergonomically designed with an effective control system enables flexible & efficient machine operation. Yarn applications include sewing thread (for woven sacks/FIBC's) webbings and slings, braids and ropes, technical applications like geotextiles and filters fabric, furnishing textile and many more.



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	<i>lofilDuo HS 40/4 HT</i>	<i>lofilDuo HS 80/8 HT</i>	<i>lofilDuo HS 160/8x2 HT</i>
Denier Range	400 to 4000*	400 to 4000*	400 to 4000*
Denier per Filament (dpf)	Upto 10	Upto 10	Upto 10
No. of Filaments	48 / 72 / 98 / 120 / 144	48 / 72 / 98 / 120 / 144	48 x 2 / 72 x 2
Screw Diameter	40 mm	50 mm	75 mm
Screw L / D Ratio	28	30	30
Melt Capacity (max.)	upto 40 kg/hr	upto 80 kg/hr	upto 160 kg/hr
Number of Spinning Positions	4	8	2 x 8
Quench Medium	Cross - Flow Air Cooling	Cross - Flow Air Cooling	Cross - Flow Air Cooling
Spin Finish Unit - Type of Applicator	Dual Nozzle	Dual Nozzle	Dual Nozzle
No. of Godets - Drawing	7 (including 2 duos)	2 x 7 (including 2 x 2 duos)	2 x 12 (including 2 x 5 duos)
Godet - Temperature Range	60°C to 160°C	60°C to 160°C	60°C to 160°C
No. of Intermingling Jets	2 x 2	2 sets of 2 x 2	2 sets of 2 x 4
No. of Winding Systems	1 (Automatic)	2 (Automatic)	4 (Automatic)
Winding Speed Mechanical (max.)	1500 to 2500 m/min	1500 to 2500 m/min	1500 to 2500 m/min
Installed Power	86 kW	200 kW	390 kW
Power Consumption (avg.)	26 kW#	52 kW#	102 kW#
Machine Dimensions (L x W x H)	4.5 x 3.2 x 5.6 m	4.8 x 5.1 x 5.6 m	7.6 x 9.5 x 5.6 m

* For above 1000 Denier multiple ends have to be combined.

Depends on yarn denier and process parameters.

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

Extreme values indicated are not achievable simultaneously.

The pictures may show optional equipments that are not a part of the standard supply.

For details, refer to the quotation.

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