

STR-series

For High Bulk Stretch Yarn Twisting, Heat-Setting & Stabilizing.

Weavetech's STR-series Filament TFOs with Heat-Set are designed for continuos Twisting / Heat-Setting (Stabilizing) of Polyamide & Polyester Stretch Yarns wound on very soft cheese packages for Direct-Dyeing.

The range of shrinkage inside the heater, depending on yarn properties is controlled by slippage-free positive overfeeding system with aprons.

Weavetech's STR-series eliminates need for separate twisting & Heat-Setting, saving operating costs & time.

STR-series TFO with Heat-Set is ideal for:

- Processing shrinkage ratio of 15% to 55%.
- Increasing Yarn Softness & Bulkiness (stretch effect).
- Twisting, Setting & Stabilizing Yarn Elasticity.
- Increasing Final Denier for further use.





Highlights

- Twisting, Shrinking, Setting & Stabilizing in single-process for high-efficiency production compared to traditional labour-intensive & capital-intensive methods.
- Energy-Efficiect technology with extremely low working & operating costs.
- High operating speeds of upto 250 m/min allows better operating profitability.
- Aluminum Cradle with low-center of gravity design provides optimum Dampening & Auto-Pressure adjustment system for precise package built at high speeds.
- Positive Overfeed at entry & exit of heater ensures slippage-free feeding of yarn into the heater, thus allowing consistent results from position-to-position.
- Energy-Efficient Electric Heater System with 2-Zone Sensing ensures temperature consistency while allowing easy on-site maintenance.
- High-Speed Individual CAM traverse gearbox allows higher CPMs for larger crossing angles to create soft-packages directly for dyeing.
- Abrasion free yarn path ensures optimum yarn handling while maintaining Yarn tenacity for consistent results from position to position.
- Advance PLC control allows RPM, TPM, Shrinkage & Heater control from one screen.
- PC-Link connectivity enables remote support for troubleshooting & maintenance.



Individual CAM Traverse

speeds of upto 250 m/min. Polished CAM paths allows smooth operation with minimum maintenance. CAM profile ensures package excellent built-quality.



Individual Foot Break

High Speed Traverse allows yarn Each spindle position is given an operator friendly Foot-Break to enable faster threading / doffing of large packages by allowing operator to keep both his hands free while maintaining safety.



Direct Soft-Package

Advance Cradle design with low Center-of-Gravity provides package stability at high speeds ensures even & consistent parameter sets. Internet access for pressure throughout the package.



Electronic Drive & PC interface

High-Advanced PLC allows setup of RPM, TPM, Heater Temperature & Shrinkage Ratio on touch-screen. while constant-pressure design Memory card allows you store remote support is standard.

2 x Spindle RPM

9000 x Feed Wgt in gms

Max. Production

0.32 x Spindle RPM x Denier

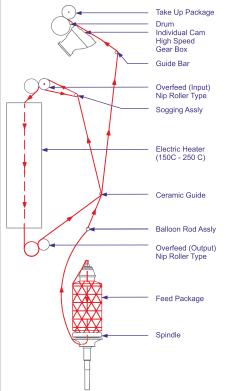
Denier x Yarn Speed in mtrs/min

weavetech[™]

STR-series

	STR-280	STR-340				
SPINDLES						
Guage	281	337	[mm]			
Yarn Type	High Bulk / High Crimp Yarns					
Spindle Type	150PT	200PT				
Yarn Range	50/2 - 400/2	110/2 - 400/2	[Denier]			
Twist Range	50-800	50-800	[TPM]			
Spindle Speed (Process / Max)	7000-8000 / 9000	6000-7000 / 8000	[rpm]			
Feed Package Type	Bobbin of Stretch Yarn	Bobbin of Stretch Yarn				
Feed Package Length /Dia	290 / 140 (max)	290 / 190 (max)	[mm]			
Feed Pacakage Weight (max.)	2500 gms	5000 gms	[gms]			
Feed Tensioner Type	Ball-Ceramic	Ball-Ceramic				
Spindle Break	Individual Foot-Break per Spindle					
HEATER & OVERFEED	Apron Pollor Typo with Hingo	for anny angage ? disangage	[mm]			
First & Second Overfeed Type	Apron-Roller Type with Hinge for easy engage & disengage					
Heater Length & Type	600mm , Electric Induction Type with Centralized Control					
Temperature Range	150°C to 250°C Centrally MicroProcessor Controlled					
Installed Power per Heater	0.75 hp					
TAKE-UP						
Take-Up Tube / Traverse Length	230mm Tube / 200mm Stroke					
Traverse GB System	Cheese, Individual CAM with Edge-Breaking & Anti-Patterning					
Cradle System	Sturdy Cradle with Damping & Auto-Pressure adjustment					
Max. Weight on Take-Up	2500 gms or upto 225mm diameter					
Max. Mechanical Speed	Traverse Speed: 250 CPM ; Yarn Speed: 250 mtrs/min					
CONTROL SYSTEM						
Spindle RPM	RPM - Electronically Settable Centralized with AC Motor					
Twists (TPM)	TPM - Electronically Settable Centralized with AC Motor					
Overfeed Ratios	Electronically Settable Centralized with AC Motor					
OPTIONS						
+ Overhead Creel	+ Anti-Balloon Rings	+ Yarn Sensor / Detector				
+ 2 or 6 Stroke Traverse Cam	+ Spindle Package Container	+ Online UPS Battery Backup				

Yarn Path



DIMENSIONS / POWER DATA (STR-230 / STR-340)								
Number of Sections	8	9	10	11	12	13	[nr]	
Number of Spindles	96 / 80	108 / 90	120 / 100	132 / 110	144 / 120	156 / 130	[nr]	
Connected Power* (Spindle)	12.5	12.5	15	15	20	20	[hp]	
Connected Power* (Take-Up)	2	2	4	4	4	4	[hp]	
Connected Power* (Overfeed)	2	2	2	2	2	2	[hp]	
Connected Power* (Heater)	6	6.75	7.5	8.25	9	9.75	[hp]	
Connected Power* (Total)	22.5	23.25	28.5	29.25	35	35.75	[hp]	
Machine Length	15.30	17.02	18.74	20.46	22.18	23.90	[mtrs]	
Machine Width / Height @ TU)	900mm / 1950mm at Take-Up						[mtrs]	

Contact

Manufactured by:

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* Note: Technical Specifications May Change Without Prior Notice. It is recommended to verify the important specs before placing order.

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