

TECHNICAL SPECIFICATIONS

CT500	
TAKE-UP	
Package	290mm Cheese
Knotless Weight Capacity	upto 8 Kgs
Overfeed Type	PosiFEED Type Dual-Pulley System with Dead Weight arm
Cradle Type	High Pressure Cradle with Dual CT-Housings & Vibration Dampening Plates
FEED	
Spindle Type	200mm / 230mm / 270mm / 310mm
Feed Type	DF Bobbins (Multi-Pilly) / Cheese
Tensioner Type	Ball-Ceramic Type
Guards	Belt Guard , Brake Guard , Large Seperator , Split Guard
DRIVE	
Spindle Drive	Tangential Belt with Pressure Pulley at Each Spindle
Spindle Brake	Individual Position with mechanical De-Tachble Spindle Housing
TakeUp Drive	Heavy-Duty Closed Oil-Circulation Gearbox with Motorized Pump
Control System	Programmable RPM (std) ; Programmable TPM (Optional)
OPERATING PARAMETERS	
Yarn Range (max.)	300 - 9000 denier
Twist Range (recommended)	60 - 800 TPM
Spindle Speed (Max)	7000 / 6000 / 5000 RPM
Yarn Speed (Max)	Upto 140 mtrs/min & 70 CPM
FRAME STRUCTURE	
StructureFrame	Single-Deck, Both Sides
No. of	Laser Cut, Steel Frame Structure
Spindles	40 / 48 / 64 / 72 / 80 spindles
Connected Motor Load	40-64 Sp: 15 kW / 20 Hp ; 64-80 sp: 18.75 kW / 25 Hp

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

NOTES

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Yarn speed
(mtrs/min)

=

$$\frac{2 \times \text{Spindle RPM}}{\text{TPM}}$$

Doff time
(minutes)

=

$$\frac{9000 \times \text{Feed Wgt in gms}}{\text{Denier} \times \text{Yarn Speed in mtrs/min}}$$

Max. Production
(gsm/day/spinder)

=

$$\frac{0.32 \times \text{Spindle RPM} \times \text{Denier}}{\text{TPM}}$$

WHY WEAVETECH ? ...



Whatever your **Twisting** or **Weaving** needs be, **Weavetech has a solution.**

Since 1985, **Weavetech** (formerly **Alidhra**) has been at the forefront of bringing world-class technologies within the reach of Indian Textile Industry, by encouraging an indigenous development with best-in-industry human resources & engineering infrastructure. It is the same passion that continues today ensuring Weavetech’s position within the top of the textile engineering industry having top-of-the-industry Clientele.

Regardless if your company is big or small, **Weavetech** understands that a new machine investment can make a world of difference to your business. The potential source of higher profitability, improved quality & dependable reliability will become just - **if the correct machinery is selected.** Development of **Weavetech**’s Machineries has been guided by the needs of customers to extract optimum value from their limited investments in Land, Manpower & Capital, ensuring easiest and fastest absorption of technology without straining their available resources and time.

Weavetech’s Machineries are the right step towards **getting more & getting better** value.

PRODUCT RANGE

Rapier Looms | WaterJet Looms | AirJet Looms | TFO Twisters | Thread / Doubler TFO Carpet Cablers | Industrial TFO | Dye Package Winders | Assembly Winders

CONTACT

For Sales & Service:
ALIDHRA WEAVETECH GROUP
eM: Sales@Weavetech.com
Wb: www.Weavetech.com
Ph: +91-261-3070707, 2278374

Manufactured By:
WEAVETECH ENGINEERS LTD.
Plot A5/4, Road # 10, Gate # 2,
Sachin Hojiwala Industrial Estate,
Surat, GJ - 394230

Ahmedabad:
1/2 Shree Krishna Center (Tower),
Nr. Mithakali Six Roads,
Navarangpura, Ahmedabad,
GJ - 380009
M: 098335 12703

Mumbai:
8 Vibgyor Towers,
G-Block C62,
Bandra Kurla Complex,
Mumbai, MH - 400098
L: 022 40907282

Coimbatore:
1045, 3rd Floor, Regus Center
Srivari Srimath, Avinashi Road,
Coimbatore, TN - 641018
M: 095975 84555

Surat:
Plot 195, Rd 3-F,
New Estate,
Udyognagar Udhna,
Surat, GJ - 394210
L: 0261 3070700

R&D Center:
Plot 606, Main Rd # 6,
Sachin GIDC Gate # 1,
Surat, GJ - 394230
E: info@weavetech.com

For Sales Inquiries:
Sales@Weavetech.com
www.weavetech.com
M: 098798 48091



CT-500

TFO Twisters for Heavy Denier Yarns.
(Single / Multi-Ply Filament yarns)



CT-500

TFO Twisters for Heavy Denier Single / Multi-Ply Yarns

Weavetech's **CT-500** Filament TFO Twister with large spindles allows the economic Twisting of High Tenacity Filament Yarns providing longer doff times & higher yarn speeds for higher efficiency over traditional UpTwisting.

The large spindles allow direct feeding of DTY/FDY packages thus eliminating the whole process of re-winding & reducing the labour cost involved. This makes Weavetech's **CT-500** TFO Twisters an attractive option for investors offering a long term value investment.

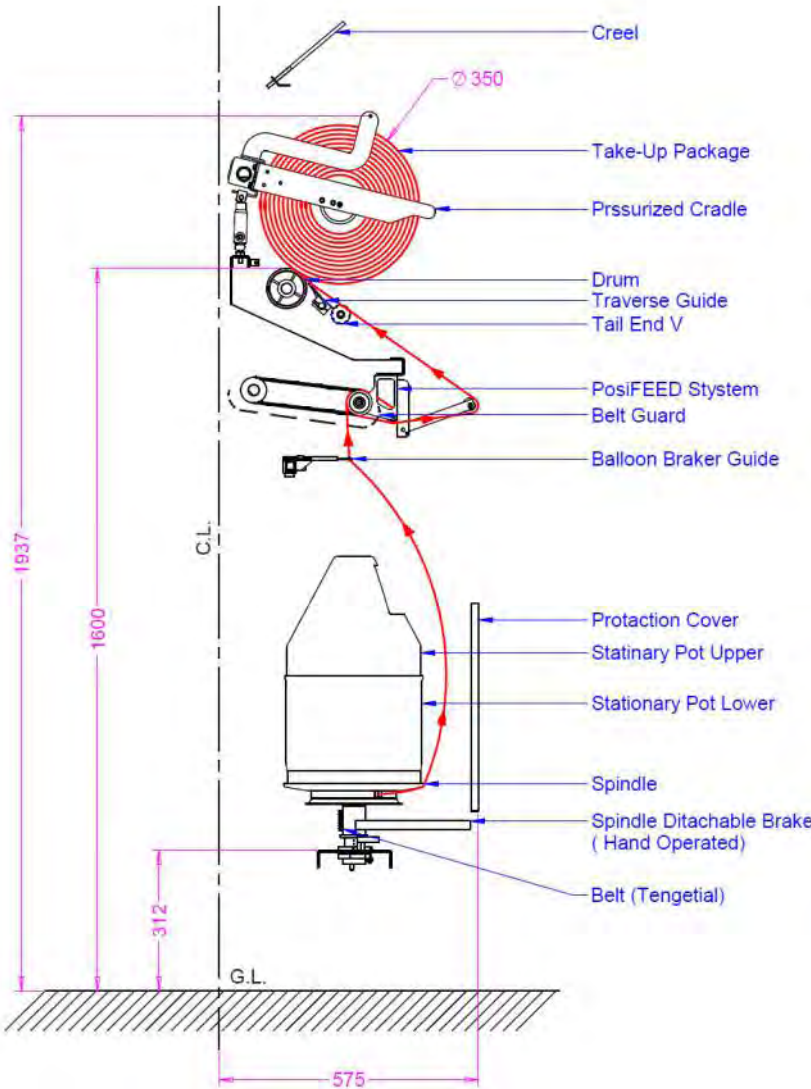
APPLICATION (ideal):

- TFO twisting of Heavy Coarse Deniers.
- Direct feeding of large DTY/FDY packages.
- Processing upto 8 kg Knotless packages.
- Continuous production of same yarn over long term.
- Ideal for Twisting Polypropylene packages.

Highlights

- Direct feeding of Large DTY / FDY packages of upto 330mm dia for larger knotless packages with longer yarn lengths.
- PosiFEED overfeed system ensures optimum process tension to maintain tenacity of yarn for industrial & technical applications.
- Tangential Belt Drive System offers excellent power saving & ensures consistent twists over longer machine lengths while reducing annual maintenance costs.
- Sturdy Cradle with Dampening & Auto-Pressure adjustment system for precise package built & high package density.
- Anti-Patterning & Edge-Breaking built-in to the Traverse Gearbox provides stable winding & enables high-speed unwinding at further processes.
- Tail-end or Bunching Device enables continuous Doffing in further processes of Warping & Weaving, thus improving overall efficiency.
- Overfeed ratio centrally adjustable offers precise control of required density.
- Complete SS & ceramic yarn path ensures delicate handling of yarn.
- 'Cell' like structure covers yarn balloon from 3 side reducing air turbulence & energy.
- Individual Spindle-Brake ensures fast doffing & reduces operator fatigue thus extracting maximum labor productivity & higher efficiency.
- Electronic Drive end offers easy fast RPM & TPM setups (Optional).

Yarn Path



Features



Programmable RPM & TPM (optional)

2-Axis Drive End controlled by a PLC provides programming of RPM & TPM for quick changeovers. This reduces downtime between doffs to maximize productivity & run-time. A closed loop system ensures synchronisation between two drives.

High-Speed Gearbox

Heavy-Duty closed continuous oil-circulation with sturdy design sustains high traverse CPM. Strokes for high speed operations or for ready-to-dye soft packages. Twists / TPM can be easily adjusted on the same gearbox with minimal effort within a few minutes. Proven Metallurgy ensures consistent long-term performance.



High Pressure Cradle System

Sturdy & Heavy Cradles are pressurized by Dual CT-Springs to ensure maximum pressure on the package. Further, a balancing arm is provided to ensure cradles do not get bent over a long period of use due to frequent doffing of heavy packages.

PosiFEED System (optional)

PosiFEED ensures slippage free overfeeding of Multi-Ply yarns with flexibility to have multiple loops to adjust & maintain the required take-up winding tension, thus resulting in a uniform package built quality.



Overfeed with De-Tensioner

A standard teeth-Type overfeed is provided for medium deniers for operating speeds of less than 80 mtrs/min. A bearing De-Tensioner installed before overfeed allows adjustment of yarn winding tension based on specific requirements of package densities. It regulates the contact area of yarn with overfeed thus allowing better control of yarn tensions to ensure proper yarn tenacity & quality.

Large Knotless Package

High Pressure Cradle design allows high density package buildup of upto 10 Kgs. Thus allowing heavy denier yarns to be twisted by directly feeding the FDY packages for large knotless packages which provide longer run-time & better productivity in downstream processes.

