

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 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 a difference to your business. The potential source of higher profitability, improved quality & dependable reliability will become just that - **if the correct machinery is selected.**

Development of **Weavetech's** Machineries have 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 forward 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 WEAVENTECH 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

UniWind UW-1

Universal Precision Winder
(for Technical / Industrial Multi-Ply Yarns)



UniWind UW1

Universal Precision Winder for Technical / Multi-Ply Yarns

Weavetech's **UniWind UW1** Precision Winder sets a new benchmark in versatile production setup of Precision Wound High-Tenacity Yarns Technical / Industrial yarns. The highly flexible design allows user to programme wide range of parameters on individual spindles. The modular frame structure allows users to install capacities to meet exact needs. The flexibility provides users to respond to varied demand of different yarns simultaneously as each spindle is an independent winder in itself.

Capability to produce fixed length Large Precision TakeUp packages of upto 12 Kgs ensures optimum efficiencies in downstream processes where consistent unwinding tensions greatly affect the efficiency & productivity.

UniWind UW1 has individual spindle control which allows **each & every spindle to run with different yarns at different speeds with different parameters.** This allows quick response to market demands without compromising on plant efficiency or productivity.

Weavetech's **UniWind UT1** Universal Precision Winder makes an attractive investment offering a long term value with its high versatile setup over the lifetime of the machine.

Smart & Flexible Control System

With **UniWind UW1**, a new smart control system has been introduced with many active capabilities to improve productivity & efficiency of the user.

- + Quick & Efficient change of Winding Parameters including Winding Speed & Ratio.
- + Multiple Sensing systems for Yarn Break, Length, package diameter, ply-missing etc are provided.
- + Recipe Management to save & recall specific settings customized for specific application.

Independent Motorized Positions

With **UniWind UW1**, it's Individual position control per spindle for all parameters makes it possible to run different yarns at the same time. This extracts maximum utilization of available machine hours thus bringing productivity to maximum.

- + Each position is independent of others with it's own control.
- + Each position can run at different Winding Speeds & Ratios.
- + Any position under maintenance will not affect other positions..

WHAT IT DELIVERS?

- Extremely small lot production upto 1 spindle.
- Packages that unwind at constant tension & high speed.
- Metered Length or Measured Diameter packages.
- Rewind Larger packages into smaller metered packages.
- Up to 800 mtrs/min take-up delivery speeds.
- Quick turnaround times for wide range of Technical yarns.



PosiFEED System (Optional)

With **UniWind UW1**, a new front-loading PosiFEED system makes it more user friendly to use. PosiFEED ensures minimal winding tension variations by eliminating any tension spikes due to unwinding of feed packages. It also reduces winding tension to maintain strict yarn tenacity requirements. The system is important for producing a quality takeup package of multi-ply yarns.

ActiTens System (Optional)

With **UniWind UW1**, a fully electronic closed-loop tensioning system can be provided for applications where winding tensions need to be highly precise. The system has an independent tension sensor with builtin overfeeding system which acts independently from the machine winding system.

Multi-Ply Assembly Package (Optional)

UniWind UW1, provides a device & software to allow producing Multi-Ply yarn packages for further twisting on the same machine.

- + Upto 4-ply can be Assembled with individual tensioners.
- + In case of any ply brake/missing, spindles will stop automatically.
- + Programmed length can ensure production of equal length packages to ensure low wastage & high yield.

Pneumatic Pressurized TakeUp (Optional)

Active pressure system ensures dense TakeUp packages providing maximum weight in minimum volume. Mechanical spring based systems cannot assure constant pressure on the packages. **UniWind UW1** provides pneumatic pressure systems on each TakeUp.

- + Constant Pressure can be applied throughout the package with automated pressure regulator.
- + Continuous Vibration Damping by the pneumatic system ensures higher operating speeds.

Basic Configurations

Traverse Stroke Width

- + 250mm / 200mm Double-Stroke CAM Traverse

Winding Parameters

- + Winding Type: Precision, Step Precision, Random
 - + Winding Speed: Electronically adjustable (Max. 800 mpm)
 - + Winding Ratio: Electronically adjustable (Max. 400 cpm)
 - + Anti-Patterning: Electronically adjustable
 - + Cradle Pressure: Pneumatic Electronically adjustable
- (*Combination of all value limits is not possible.)

Yarn Range

- + 150 denier to 16000 denier Filament Yarn
- + 1-Ply, 2-Ply, 3-Ply

Package Dimensions

- + Max OD: 320mm, Min OD: 94mm
- + Weight: Max. 12 Kgs
- + Top Beam: 800 / 1000 / 1200 mm

Frame / Structure

- + Single Sided with Individual Spindle
- + Modules can be placed next to each other
- + Centralized Panel common with multiple spindles

Drive System

- + PLC Controller with Closed-Loop System
- + Individual Drives for Spindle & Traverse

Dimensions

- + **Length:** 990mm; **Width:** 1020mm; **Height:** 1380mm



$$\text{Doff Time (minutes)} = \frac{9000 \times \text{Feed Wgt in gms}}{\text{Denier} \times \text{Yarn Speed in mtrs/min}}$$

$$\text{Max. Production (gms/hr)} = \frac{60 \times \text{Yarn Speed in mtrs/min} \times \text{Denier}}{9000}$$