

CG-6500

High Speed Rapier Weaving Machine
(manufactured under ITEMA-SULTEX License)



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The **CG6500** Rapier is based on world's best **SULTEX's (formerly SULZER)** technology - The pioneer legend in the field of weaving machines.

While many machines run at high speeds, only a few, like **CG6500** are designed to offer the torsional rigidity & sturdiness to sustain such high-speed loads for years of operations. It is no surprise to find 20 years old **SULTEX** machines still delivering same performance as new.

CG6500 offers **BEST VALUE** investment for those looking for **European Quality** at **Chinese Prices**.

WHAT IT DELIVERS :

- Machine Speeds upto 700 RPM & 1520 mts/min.
- Technology under license from ITEMA-SULTEX, Europe.
- All Performance components from ITEMA-SULTEX.
- Direct-Drive, RotoCut, Electronic Selvage, ITEMA Loom Management Controller & Many other features offered as STANDARD SCOPE.





Advance Weft Transmission with Low Acceleration

Energy-Saving design using the most advanced Spherical Linkage transmission gearbox ensures minimal load on weft insertion by reducing pick-up acceleration & reducing transfer-load, thus allowing delicate yarns to operate at higher speeds, than traditional CAM gearboxes offered by competitors.

- + Minimal Weft acceleration & minimal deflections ensures higher speeds for delicate yarns.
- + Shortest transmission chain in industry provides high speed rigidity & low vibrations.
- + Extremely quick-easy-precise reed width adjustment due to design.



Direct-Drive
**ENERGY
SAVER**





Free-Flight Guideless Rapier System (patented)

SULTEX was the inventor of Free-Flight Rapier System in 1991. Since then, it has been pioneering two different systems based on yarn applications.

SWORD-LESS SYSTEM: Suitable for filament based warp with zero interference in Warp. Most suitable for fine deniers.

HOOK-LESS SWORD SYSTEM: Suitable for spun based warp with minimal interference in Warp. Most suitable for coarse / sized cotton beams.

Versatility of Weft:

Special designed Grippers covers a wide range of yarns.

- 5 dtex to 1200 dtex & 1 Nm to 200 Nm
- Monofilaments upto 0.3mm
- Special Grippers for Rayon, Bemberg, Jari, MultiPly.

Benefits of Guideless:

- No fabric marks or stains
- Less wear-n-tear of tapes; less maintenance cost.
- No disturbance of warp sheets, thus less breakages.

Direct-Drive System with Forced-Cooling

Patented Direct-Drive System has spherical transfer system to reduce Torque-Jerks to the main drive shaft. This enables smooth transfer of energy without compromising on torsional rigidity or life of the Drive components.

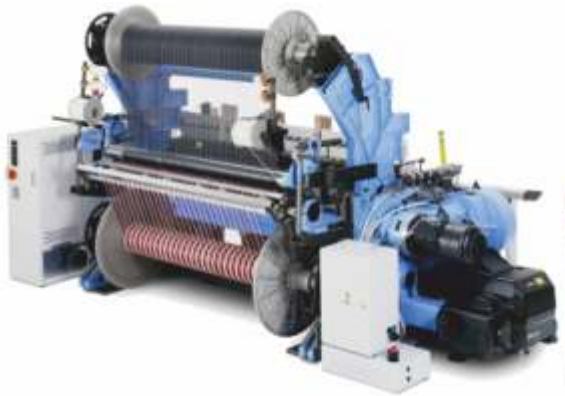
- + Complete system is cooled by a motorized lubrication system.
- + Speed can be set without changing any mechanical components
- + No Belt, No Clutch gives zero-slippage & maintenance free working.



Variable-Speed & Variable-Pick Drive

The operating speed normally depends on most delicate weft yarn. Not anymore - With Multi-Speed Drive, specific speeds can be programmed for specific weft yarns thus enabling maximum speeds & productivity.

- + Different yarns in same fabric can be programmed to run at different speeds as per design.
- + Different pick densities can also be achieved in the same fabric in sync with ELO/ETU to achieve different effects based on different weft yarns.



Smart Loom Management System

A 10" Touchscreen for a complete Loom Management Control with network capability allows complete view of Loom performance & Status along with historical data on productivity & efficiency.

- + The setting of all parameters at a single location with saving function.
- + Ability to recall all the settings / recipe for specific fabrics.
- + Smart data analyses for specific yarn breakage patterns for improvement.
- + Central collection of all data of all looms can be arranged for analysis.
- + Protection for settings is provided through KeyCard in addition to password.
- + Solution to different error codes is displayed right on-screen to save time.

Electronic Leno Selvedge Device

Fully electronic selvedge & leno binding system allows maximum versatility & easy setups.

- + Independent setting of selvedge crossing
- + Setting of basic shedding patterns
- + All settings can be done while the machine is running from the main machine terminal.
- + Eliminates high wear-n-tear parts & thus reducing maintenance time & cost.



RotoCut: Electronic Weft Cutter (patented)

Patented RotoCut is the most advanced Weft cutters in the market today. The benefits are such that it is made as a standard feature on all CG6500 machines.

- + Suitable for ALL kinds of weft. Single system for all yarns.
- + Auto adjustment of filling time irrespective of yarn. No human intervention.
- + Optimized straight weft path ensures smooth & sharp cutting of all yarns.

Electronic Selvedge Cutter (patented)

Fully electronic selvedge cutters ensure optimum finishing & timely cutting of weft yarns.

- + Electronic Scissors ensure sharp, timely & error-free cutting of selvedge.
- + Suitable for ALL kinds of weft. A single system for all yarns.
- + Self-Aligning Carbide blades remove any Human error in the fine tuning.
- + Manual setup is completely eliminated.



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Basic Configurations

Nominal Machine Width (cms)

- + 170, 190, 220, 240, 260,cms
- + 280, 300, 320, 340, 360 cms

Shedding

- + Dobby upto 20 frames (Staubli)
- + Jacquard (Staubli, Grosse, Bonas, China)

Gripper System

- + Guideless “MonoRail” Type
- + Guideless “Free Flying” on Felt

Warp Beam

- + Single / Twin / Double
- + Diameter: 800 / 1000 / 1200 mm
- + Top Beam: 800 / 1000 / 1200 mm

Weft Insertion

- + 4, 8, 12 colors (IRO StarG2)
- + “ROTOCUT” Weft Cutter
- + Gripper Cleaning suction pump

Pick Density

- + Standard: 8-300 picks/cm
- + Variable Pick: upto 16 block programmes
- + Cramming synchronised with Jacquard

Selvedge

- + Electronic Selvedge & Leno
- + Pneumatic or Mechanical Tuckers
- + Electronic ThermoCut Selvedge

Warp Stop Motion

- + Electric Drop-Pin system with 6 or 8 rows

Warp Let-Off & Take-Up

- + Electronic Let-off & Take-Up
- + Takeup dia max. 600mm
- + External Batching Motion



Fabric Production
(mtrs/day)

=

$\frac{\text{RPM} \times 36.575}{\text{Weft (picks/inch)}}$

=

$\frac{\text{RPM} \times 14.4}{\text{Weft (picks/cm)}}$

Fabric GSM
(gms/sq.mte)

=

$\frac{(\text{ends/inch})}{(\text{Ne} \times 0.043)}$

+

$\frac{(\text{picks/inch})}{(\text{Ne} \times 0.043)}$

=

$\frac{(\text{ends/cm}) \times \text{Denier}}{9000}$

+

$\frac{(\text{picks/cm}) \times \text{Denier}}{9000}$

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.

China Textile Machinery Co. Ltd. (**CTM**) is part of the a USD 1.2 billion **Pacific Mechatronic (Group)** co Ltd. making it one of the largest publicly listed Textile Machinery entity in the world. The group has always brought the latest & best technologies from across the world to the Chinese Industry. The group has had technical collaborations with Barmag, Nuova Pignone, ITEMA, Toyota for machineries covering POY Winders, Rapier Looms, AirJet Looms & many other machineries.

CTM has a technology transfer agreement with **ITEMA /SULTEX (Switzerland)** for designing & manufacturing of Rapier Weaving Machines series G6500, G6500F & G6500T and provide global sales, accessories & after-sales services for the above mentioned products.

Weavetech & CTM, to gather, is bringing the world's leading Rapier Weaving Machine Technology to India along with a nationwide service & support for the **ITEMA / SULTEX** licenced Rapier Weaving Machines.

PRODUCT RANGE

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

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