











TECHNOCRAFT INDUSTRIES was established in 1970. The unit started a modest beginning by manufacturing textile spare parts and accessories for weaving and processing sectors in Ahmedabad, India. Later the company started manufacturing small sizes beams in 1987 and then, decided to start "ZERO POLLUTION" gravity die-casting unit with a special quality graded aluminum castings of flanges for large sized beams in year 1992.

'TI' owing to its vast experience in this sector since more than four decades it has earned the reputation as one of the leading manufacturers and suppliers of Beams, Cloth Rolls as well as Beam Carrying Hydraulic Trolleys, which cater to the textile manufacturing units in our country. The company today is backed up by long experience and works in unison with textile machine manufacturers as well as end users which has adapted the company to analyze the most effective solutions for solving any type of problems.

Over the years, 'TI' have been able to maintain its dominant position to become one of the most trusted companies in textile business by offering world class quality products and services to customers and maintain highest level of customer satisfaction owing to it's customer friendly policy.



BEAMS

'TI' Produces beams that are compatible with worlds leading weaving machines and warping machines. 'TI' manufactures standard sizes of Weaver Beams in single section or twin section construction for Rapier, Airjet and Projectile weaving machines. 'TI' also manufactures them to suit individual customized sizes also. 'TI' manufactures Beams of four categories according to ISO standards - Q1 / Q2 / Q3 and Q4. The company rigidly follows the category of beam that suits different yarn quality and their stress on beam





Warper Beams with Gravity die-casted aluminum alloy flanges are suitable for KARL MAYER, JUPITER, PRASHANT WEST POINT, AMRITLAXMI SPINDLE driven direct warping machine & long chain beamer for rope dyeing machines, having flange diameters from 660mm to 1400mm. The flanges are solid ribbed as well as double walled hollow type. The barrel manufactured from steel tube-precisely machined dynamically balanced, zinc plated & covered with woolen flannel cloth on its outer surface. The Warper Beams are mostly fitted with special grade casted full teeth inner taper steep angled 50 teeth hubs or half teeth inner taper 72 teeth hubs. All Warper Beams are balanced dynamically according to G 6.3.







Drive Chucks







Drive Hubs







Weaver Beams are the combination of barrel, Gravity die-casted aluminum alloy flanges and lock nuts. The precisely machined mild steel tubes are used exclusively for all quality of yarns. The electrolytic zinc coating as well as spraypainting process is in practice, to get protection against corrosion and also to protect the yarn against damages. In order to get desired width between the flanges, light metal alloy or heavy metal alloy threaded lock rings / clamping rings are supplied with beams, as per the design of loom makers. The weaver beams can be supplied either with or without driving gear. The available beam flange diameters range from 600mm to 1270mm, having variety of designs for different yarn quality. Beam flanges in ribbed design are used for Natural Yarns and double walled hollow flanges for Synthetic Yarns, Polyester Yarns, Technical Yarns and Textile Glass Yarns. 'TI' manufactures Weaver Beams suitable for PICANOL, TOYOTA, TSUDAKOMA, ITEMA, SULZER, DORNIER, SOMET, SMIT and other high speed weaving machines in single or twin sections.

PICANOL, DORNIER, VAMATEX, ITEMA, SOMET, SMIT WEAVING M/c.







TOYOTA AIRJET WEAVING M/c.



TSUDAKOMA AIRJET WEAVING M/c.





Ribbed Single Walled Flanges



Ribbed Flanges are generally used as Q1 & Q2 quality, whereas, double walled (Hollow) flanges having loading capacity up to 3 times higher than conventional ribbed flanges are universally applicable as Q3 & Q4 quality.

Inside surface of flanges are precisely machined as well as mirror finished buffing polished exclusively, to suit working with yarns and can be surface treated / hard anodized on demand.

Flanges with light ribs are generally used as (Q1) for natural yarns.

Flanges with heavy polygonal ribs are used as (Q2) for Mixed Yarns and Synthetic Yarns (Spun yarns).

Flanges with heavy crossed ribs (Q3) for synthetic yarns like Polyester / Polyamide, are relaxed after spinning.







Double Walled Flanges

Double Walled Flanges are suited to work with heavy loads, high elasticity, low deflection and minimum deformation. It also does not create fan effect due to plain outer surface, resulting into zero air resistance while running at high speeds.

Double Walled Flanges (Q4) for Synthetic Yarns, Polyester Yarns, Technical Yarns and Textile Glass Yarns.



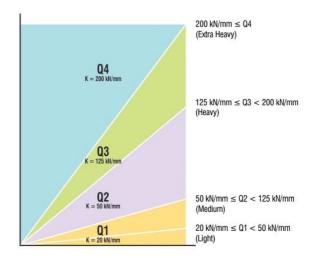




Quality Classes

Chart showing quality classes of flanges

To get an idea about the deflection of flanges in accordance with tensile strength, one should follow the chart and decide the quality class of flange as per the desired specification.





Weaver Beam Barrels are manufactured from seamless precision steel tubes, with uniform wall thickness. 'TI' manufactures standard Weaver Beam Barrels having diameters of 150, 175, 190, 216 and 270mm, provided with square pitch flat thread as per standard requirement. 'TI' offers different wall thickness of barrels (Ranging from 6mm to 12mm) to suit different yarn quality and is available with and without knot holes. 'TI' also manufactures barrels with customized dimensions on demand. All barrels are precisely machined, well polished outer surface, zinc plated and spray painted on plain surface to get protection against corrosion.



Double-Slotted Knot Hole







Cloth Rolls



'TI' manufactures Cloth Rolls for almost all looms, made from aluminum and steel tubes with lengthwise parallel knurling. The aluminum cloth rolls are surface treated with anodizing process whereas, steel cloth rolls are zinc plated.



Parallel Knurling







Other Products

- Lifting & Transporting Trolley
 Single / Twin Warp Beam Trolley
 Single / Twin Warp Beam Harness Mounting Trolley
 Double Beams with Harness Mounting Trolley

- Pile Beam Mounting Trolley Cradle type / Cloth Roll Doffing Trolley
- **Empty Beam Trolley**
- Pallet type Warp Beam Trolley

Reed Storage Rack

- **Cloth Making-up Machines** Cloth Inspection Machine with Batching / Plaiting
- Roll Making Machine
- Single / Double Folding and Plaiting Machine Batch Winding / Unwinding Machine

- Cloth Sample Cutting Machine (Manual / Motorized / PLC Controlled / Hydraulic)

Web Guiding Equipments

- Cloth Guiders for Dry & Wet Processing Machines
- Mounting Bar Adjustable type-for Cloth Guiders Single / Three Curved Bar Expander
- Selvedge Uncurler
- Alluminium / Wooden Slat Expander



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