

Since 1964



ISO 9001:2000 company



THE WORLD OF WEAVING PREPARATORY EQUIPMENTS

Warp Tying Machine (Beam Knotting)

www.jaytexindia.com



Introduction

Jayantilal S. Gandhi & Co. (Mach. Div.) is better known as JAYTEX in the textile world. Jaytex is the pioneer and one of the leading manufacturers of weaving preparatory equipment with 100% Indigenous material and technology in India since 1964.

The word JAYTEX is synonymous with reliable & world class machines made with 100% Indigenous material, and technology backed with prompt service and spares round the clock. We have more than 45 years experience in the development and manufacturing of warp tying machine and because of this our machines have an excellent reputation in India and all around the globe. Our products proves its reliability year after year around the globe. It is especially the simple operation and maintenance that makes our knotting machine the most preferred product for weaving mills all over the world.

Jaytex takes pride in presenting their experienced expertise. "JAYTEX" equipment, has conquered a large number of weaving mills in a very short period due to its simplicity of operation and high efficiency. Jaytex is known for its trouble free performance and service over the years. "JAYTEX" has sold thousands of machines in leading weaving mills including EXPORTS, and in many cases there are more than one machine in one individual mill. These achievements are the best proof of our unique development, deep study, quality control and prompt professional service. Add to this, the widest range for any need or any budget and so you know why Jaytex equipments are always the first choice. Jaytex comes with a host of features which will explain you, how "JAYTEX" knotting equipment will be the best deal for you.

100% Indigenous It is the guarantee for service, spares & economy. Jaytex guarantees you prompt expert service & spares supplies.

High productivity with low labour cost

One knotter can complete a cycle of dressing, knotting and taking the knots through in approx 20 to 45 minutes with normal widths.

Jaytex Universal High Performance Warp Tying Machine

Production of fabrics successively with the same pattern is easier utilizing a warp-tying machine to exchange the beams. Jaytex warp tying machine is the most effective, low budget, maintenance free machine which fulfills this requirement to a large extent. The profitability of high performance looms depends not least, on how consistently the preparation of the warps are. It can be enhanced by adapting standard methods of knotting. Tying installation which require a minimum of time for changing the warp should contribute to the high efficiency and low stoppage rates. The JAYTEX WARP TYING MACHINE fulfills this requirement to a large extent. The indigenous warp clamping and tensioning system of the high performance JAYTEX WARP TYING MACHINE and the practically faultless tying of the warp ends, shortens warp changing time.

Adaptability of the Modular Construction System

The JAYTEX warp tying machine can be altered to suit new conditions at any time.

For example, in the weaving department which wishes to extend its range from staple goods to include fashion fabrics. In this case, the warps are produced on the sectional warping and must be tied from a 1:1 lease. The basic model of JAYTEX WARP TYING MACHINE can be extended by the addition of an appropriate module. Both warps are tied with or without lease. Upper warp is tied with lower without a lease, or vice versa. Change over from one method to another method of knotting is possible in seconds, without further modifications or additions and requires no fitting or re setting. This modular system will result into no wear and tear on selector unit. This means reduced spares requirement and increased machine life.



MAINTENANCE FREE GEAR LESS TIMING PULLY BELT DRIVE.

Application

The working range of this machine is practically unlimited. It ties almost all counts, finer and all type of yarn, should they be wool, cotton, silk, filament, polyester, linen, synthetics or slub should they be worsted or woolen yarn, single or twisted broad or narrow fabric looms, with any method, right at the backrest of the loom, with healds reeds and droppers readily drawn through, or away from loom on a stationary stand.



HIGHLIGHTS

Automatic Construction For Easy Maintenance

The machine works automatically. It automatically advances further, according to the thickness and density of warps. The knotting mechanism and the handling of the yarn is so gentle, therefore even a delicate yarn cannot be damaged. While designing, separate group system is applied. The individual parts and components are built in compact separate unit as selector group, knotting group, driving unit. It hardly takes few minutes to separate all the three groups for necessary repairs or replacement of the parts and servicing, without touching the other parts which are not to be disturbed.

Automatic Thread Selection

The selector needles, in case of Sheet to Sheet selection, are designed very finely for each count range, they are adjustable, spring loaded for finest adjustments, this makes it impossible to select double ends. In case of leased warps, the selector brushes separate threads according to the provided lease, securely by the positive separating method which utilizes the twist and traverse movement of the lease pipes.

Single End Knotting Preventer & Short Tail Knots

The feeler assembly makes it possible, by its automatic locking device. If by chance one end is selected, the other feeler will prevent the selected thread going to the knitter, till the second thread is selected in parallel.

A further characteristic of Jaytex is the short tail knots, with adjustable facility, by which you can adjust the length of knot tails according to the yarn up to 6-mm. This is of a particular advantage with high twist yarns, no entangling or snarling while pulling the row of knots through the droppers, weaving harness and reed. This is also an advantage to continue weaving up to the healds, which can increase the production of woven cloth and minimise the waste.

Selection of Tying Speed

The speed of all Jaytex machines is electronically regulated. It can be infinitely adjusted from 60 to 600 knots per minute, depending on your yarn count, the condition of warps and operator's confidence.

Protective Measures

The machine is completely protected from fluff and dust by its entirely enclosed housing, it also stops any unauthorised interference. All parts are manufactured from the best raw material, and finished with the highest precision, and then suitably heat-treated for low wear and tear. All parts are oxidised to keep the machine free from humid effects.

Training, Service & Guarantee

Jaytex will also help you by giving full training to your operators & dressers, for performance, production and maintenance of the machine at your mills. The reliable service provided by our company has contributed to a large extent to the success of JAYTEX warp tying machines. Expert service and spares are readily available all over the country at any time.

We are so sure of the quality of our products that we guarantee Jaytex equipment for a period of 12 months on 3 shift working basis.

MODELS



JS Model Machine

Standard machine for Sheet to Sheet Knotting. Tying from both sheet to sheet for sized warps, selection by selector needles, count range 6's to 80's single and 110's cotton.



JL Model Machine

Standard machine for Lease to Lease warp knotting. Tying from both lease to lease, selection by selector brush for the warps wound on sectional warping or leased by machine after sizing with double lease. Count/Din, range 100's cotton / 30 Din. filament up to 6's cotton 2000 Din. Any type of mixed blends, worsted, spun, P.V. Etc.



JSL Model Machine

The Bestseller Universal Standard machine provided with both lease to lease & sheet to sheet selection systems. Yarn range as stated above.

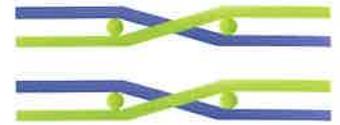
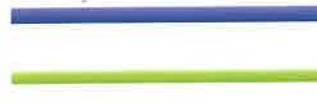
KNOT TYING MACHINE CAN DO:



SINGLE KNOT



STANDARD KNOT ENDS



TYING METHOD FLEXIBILITY



PUAC Model Machine

PUAC Jaytex Warp tying machine with auto clip. Specially developed for suiting, shirting, slub & furnishing. With tech. Provision any counts and any type of yarn in un-even condition provided in a single width, can be knotted with or without lease. Selection system for the machine available as per need. Addition with either type module can make the machine universal.

Improved Lease Bearing

Modified selection system provided in lease to lease tying model, ensures perfect separation from provided lease by twisting methods, thus the particular thread meant for tying is separated distinctively and picked up very gently by the selector, ensuring selection as per lease. The system can virtually handle any material, very delicately without any damage, be it multi filament, pure silk, double or single thread with multi colour pattern, and variation in yarn count, with or without lease, ranging from finest 20-Din. to coarsest 4000 Din. or 4 x 6's cotton.

New Thread Clip

As per the thickness/count of warp it ensures appropriate tension to the threads of both the layers, no matter how coarse or fine they are. Ideally suitable for suiting, shirting, and furnishing qualities where the threads are of different yarn counts and materials, within the same warp sheet, say one thread of 2/30's and one thread of 50- Din. Filament. The clip unit ensures the same tension with reliable gentleness throughout the tying process.

Electronic Control Panel

With various features to work with automatically.

- Variable speed control system.
- Inching motion is also provided for checking the progress of pattern knotting.
- Brighter tube light illuminator for clear vision while knotting on multi-colour patterned warps.



Pattern Control Model Machine

Jaytex warp tying machine with four selection system in one unit. Specially developed with multiple selection system, to be used as per your knotting needs. It can take care of any type of pattern with multiple selection system, with double end knock-off arrangement. It can also take care of different variety of material with uneven count and Din. wound in one single width. With electronic stop motion in case of any kind of fault in selection. Displays pattern counts and repeats in progressive counting. The system can handle virtually any material very delicately without any damage, be it multi filament, pure silk, double or single thread with multi colour pattern, and variation in yarn count, with or without lease, ranging from finest to coarsest. Ideally suitable for suiting, shirting and furnishing.

Improved Lease Bearing

Modified selection system provided in lease to lease tying model, ensures perfect separation from provided lease by twisting methods, thus the particular thread meant for tying is separated distinctively and picked up very gently by the selector, ensuring one single thread and knocking off the rest in case of double threads in one lease. The system can virtually handle any material, very delicately without any damage, be it multi filament, pure silk, double or single thread multi colour pattern, and variation in yarn count, with or without lease, ranging from finest 20- Din. to coarsest 4000 Din. or 4 X 6'scotton.

New Thread Clip

As per the thickness/count of warp it ensures appropriate tension to the threads of both the layers, no matter how coarse or fine they are. Ideally suitable for suiting, shirting and furnishing qualities where the threads are of different yarn counts and materials, within the same warp sheet, say one thread of 2/30's and one thread of 50- Din. filament. The clip unit ensures the same tension with reliable gentleness throughout the tying process.

Electronic Control Panel

With various features to work with automatically.

- Automatic electronic stop motion in case of single or double thread selection with fault indicator.
- Variable speed control system.
- Electronic counter meter with digital display, - displaying knotting progress for individual pattern and progressive total for the entire beam.
- Inching motion is also provided for checking the progress of pattern knotting.
- Brighter tube light illuminator for clear vision while knotting on multi-colour patterned warps.

Jaytex Heavy Duty Model

Warp tying machine : HD for very heavy counts and Din. sheet to sheet or lease to lease ranging from single 6's up to 4 X 6's and 4000 Din. higher range than single 6's or 800 Din. "PUAC" model machine is recommended.

PUAC HD XL model

Yarn quality's like Jute, 2 X 2 (-4) count ranges and series of thick warps.



VALUE ADDITION

"WARP CONTROL" : Mechano-Electronic stop-motion, controls double end selection or breakage & malfunction. Digital counter for counting each knotted thread. Optional can be added to any model machine.

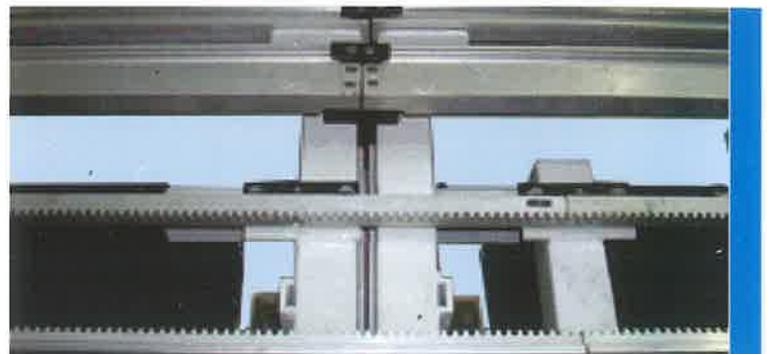
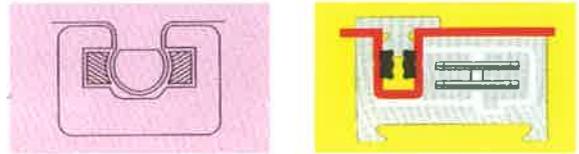
THE DRESSING FRAMES FOR PREPARATION OF WARPS

Tying Frames: "Jayex" frames are manufactured as per your requirement in height & width ranging between 120-cms. (48") up to 458-cms. (180"). Within this range every requested width can be accommodated in stages of 25-cms. (10") while selecting the width, a margin of 3" should be kept extra then the actual weaver's beam width. While selecting the dressing frame weavers beam width (flange to flange) should be taken into consideration as R. S. Width for single beam looms. For twin beams, your choices are either one frame covering both the warp beam width, or one single frame with double side clamping system or two single frames with coupling device. Two individual frames of any width can be coupled together and used as double width frames for knotting on double beam looms or other wise they can be used as single frames individually (Height & width of the loom back rest should be informed, while ordering) Our expert technical help can be availed on request.

"Jaytex" Dressing frames are made out of specially extruded alloy sections which are very sturdy and light weight, and at the same time durable for years of service. The yarn clamp holding and tensioning devices are simplified for faster dressing. It is designed for easy adjustments vertically and horizontally, to adjust the height according to your loom. They come in very wide range of working widths, according to your looms and choice. DOUBLE WIDTH, SEPARABLE WARP TYING FRAME permit rationalized working on looms with twin warps.

The separate tying frame can also be used for looms of normal widths. For faster dressing and easy clamping of coarser warps below 12's only, we recommend you our HD/UB-type

frames, provided with very sturdy U-type, rubberized alloy clamps with oval shaped EN-9 Steel bars. Clamping system of Jaytex Dressing frame is designed to press the entire warp sheet in parallel and firm condition. Rubbers on both the sides of tension rails guarantees firm grip to the most slippery and fine warp.



Coupling Arrangement



Separable Coupled Type For Twin Beam Looms



Wide Single Width Frame

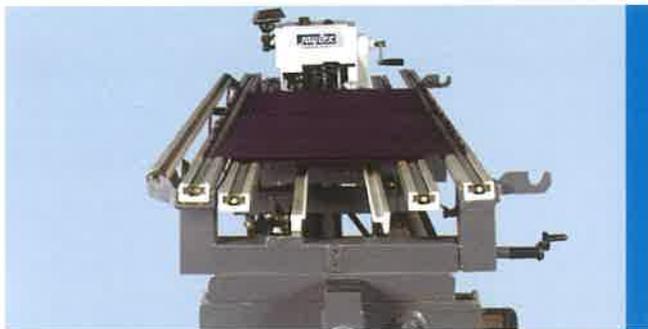




Portable Frame For Narrow Alley



Open Type Single Frame



HD/UB For Very Coarse Warps



Equipment Trolley

THE DECISIVE MERITS OF THE JAYTEX MACHINE

- A Unique blend of technology and experience of 5000 Installations.
- 100% Indigenous.
- Easy adaptability, to different tying method at any time.
- Suitable for all type of yarn with or without lease.

- Detachable coupled type frames for double beam looms.
 - Frames suitable for all type looms and - departmental layouts.
 - Special Frames for all imported make & model of machine can be made as per order.
- SPARES AND SERVICE READILY AVAILABLE ROUND THE CLOCK.

ADVANTAGES

- Reduce the stopping time of weaving machines (looms) up to 85%
- Increases production at low labour cost.
- Less labour, less wages, less labour problems. (One knotter can attend, to an average 5/8 knotting per shift.)
- Operator user friendly & accessible service of parts with easy maintenance.
- Maximum weight 15-kgs machine only.
- Simple design.
- Components easily removable & changeable within few minutes.
- Digital counter with yarn breakage signal available optionally for all machines.
- Sturdy constructed frames specially designed for heavy yarn tension and easy knotting access.
- Optional selection of working tools & machine spares.
- Brush roll with optional quality (Soft, Medium & Hard) animal hair or nylon replaceable bristol strips & selection of rows, ranging from 4, 5, 6 slots.
- Less risk of yarn breakage while dressing delicate natured yarn.
- Optional foot board.

TECHNICAL DATA

Tying Speed: Minimum 60-knots to maximum 600-knots per minute. Depending on your yarn count, the condition of warps and operator's confidence.

Mains Connections: Lighting plug 220 V. 15 Amp.

Voltage: 24. V Dc (Very safe for the operator)

Drive: Timing Pully Belt Drive (SERVICE FREE)

Type of yarn: Cotton and mixed yarns, nylon, filament and silk yarns, slub yarn, high twist yarns, worsted, carded, spun and blends.

Range: 30 Din. 4000 din. 120's to 4 x 6's count cotton.

Advancing Movement: Adjustable with a push of one lever only, as per the count and density of warps. Thus the finest warps with very high density can be knotted faultlessly.

WE ARE MEMBERS OF

1. Engineering Export Promotion Council (EEPC)
2. The Textile Association India (TAI)
3. Textile Machinery Manufacturing Association(TMMA)
4. Indian Textile Accessories & Machinery Manufacturing Association. (ITAMMA)
5. Gujarat Chamber of Commerce & Industry (GCCI)
6. Dun & Bratstreet. (International Credit Rating)
7. ISO 9001 : 2000 Company

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