

Clientele

We respect our clients for their support that has encouraged us throughout our journey for offering an excellent range of Tyre & Tube Moulds and Machinery. Since the inception of our organization, we have focused on sound business practices, customization facility and timely deliveries of consignments that have attracted a large number of clients all over the world.



Citizen Tyres



Emtico
Tyre & Rubber Pvt. Ltd.



MONOTONA
TYRES LIMITED



We are backed by qualified team of technicians and other professional who assist us serving our clients in best possible manner. In the last 30 years, we have served various prominent clients who have appreciated our work.

Luxmi Techno

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MEMBERSHIP & CERTIFICATIONS

- Haryana Chamber of Commerce & Industries, Haryana
- Haryana State Industrial Infrastructure Development Corporation, Karnal
- Satisfactory Certificate of ISO - 9001 : 2008
- Small Scale District Industries Centre
- Entrepreneurs Memorandum Number : 060061100111-Part-11



Pacific Communications, Delhi : 09873688569

PIONEERS IN
TYRE MANUFACTURING
MACHINES



Profile

Integrating the technology with innovation, we at Luxmi Techno take pride to introduce ourselves as one of the largest manufacturer and exporter of world-class Tyre & Tube Moulds and Machinery, which includes Bias-Cutter Machine, Bladder Mould, Tyre Moulds, TBM Machine, Hydraulic Type BOM Press etc. We mainly produce Whole Plant Equipments for making Tyres and Tubes. Our well-equipped manufacturing plant is capable of carrying out customized as well as bulk orders in accordance with the client specifications. We have a state-of-the-art R&D Laboratory and are known around the globe for making continuous adaptations to provide our clients with innovative products from time to time. Founded by Mr. Harbhajan Singh Deol, a thespian in tyre industry with an experience of more than 50 years. Our able team of supervisors ensure that the client specifications and quality standards are met.

We are committed to provide our esteemed clients with the most comprehensive range of high-quality, long-lasting products. We have supplied our Moulds to all the well-known tyre companies in India. We ensure that our Bladder Moulds can efficiently produce high quality tyres.

Our Advantages

Following are some of the major elements that have helped us in establishing our company as a front-runner in the industry:

- Sophisticated manufacturing facility
- Latest manufacturing technology
- Experienced workforce
- Timely delivery of consignments
- Capability to customize the entire range of Tyre & Tube and Machinery
- Wide distribution network
- Ethical business practice

Range of Product

Tyres & Tubes Moulds

- | | |
|------------------------------------|-----------------------------|
| ◦ Agricultural Tyre Moulds | ◦ Truck Tyre Moulds |
| ◦ Industrial Vehicle Tyre Moulds | ◦ Light Vehicle Tyre Moulds |
| ◦ Construction Vehicle Tyre Moulds | ◦ Solid Tyre Moulds |
| ◦ ATV Tyre Moulds | ◦ Redial Tube Moulds |
| ◦ Forklift Tyre Moulds | ◦ Bias Tube Moulds |
| ◦ Lawn and Garden Tyre Moulds | ◦ Tube Shappers |
| ◦ Earth Moving Tyre Moulds | ◦ Tube Envelops |

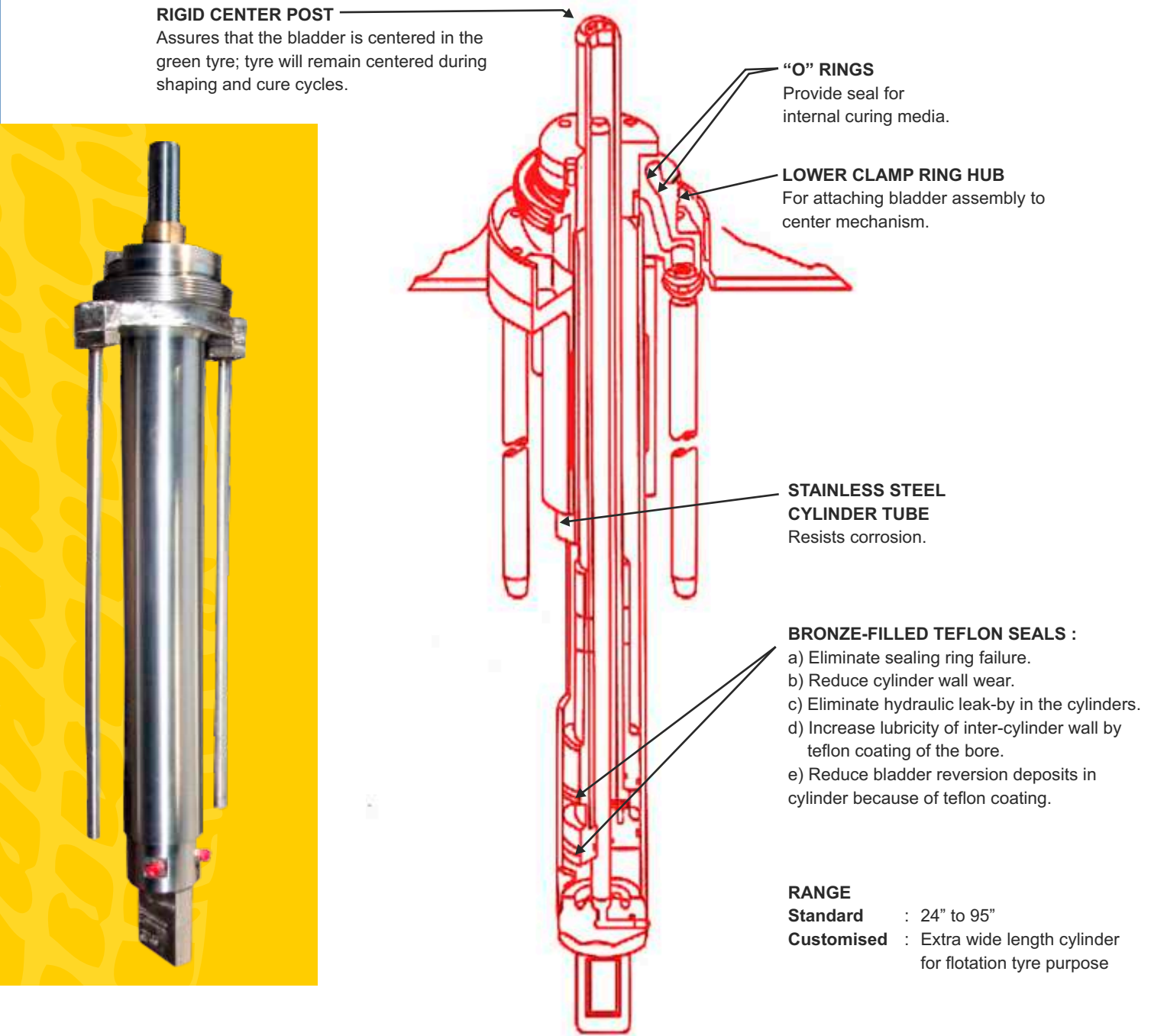
Whole Plant Equipments for making Tyres & Tubes

- Hydraulic Type B-O-M Curing Presses (Range 24” to 150”) Single, Two, Three and Four Moulds Capacity
- Bladder Press
- Flap Press
- TBM Machines RB-1, RB-3, RB-5, TR-7 with ply servicer
- Extruder Die Head 6”,8” & 10” (2 PCS) with Pneumatic Controller Operated and Folding Die Slide
- Tread Cooling Conveyor Line with Angel Protector Tread Cutter Machine
- Endura Testing Machine
- Green Tyre Splicing Machine
- Plunger Testing Machine
- Tube Extruding Line
- Tube Curing Press
- Band Building Machine

Center Mechanism

Single or double acting center mechanism offers precise control and maximum efficiency, advantage of quicker bladder change, reduce mould damage, increased bladder life, ease of maintenance and increased productivity. The rigid center post assures that the bladder is centered with green tyre and will remain centered during shaping and curing cycle. It locates top clamp ring with upper tyre bead to assure tyre uniformity and positive bladder centering.

DOUBLE ACTING CENTER MECHANISM



Salient Features :

SHAPING : Since bladder is effectively retained at the bottom and top, the tyre is shaped in a concentric motion and ensures high bladder life.

CURING : Steam or hot water are exposed only to internal surfaces of bladder minimising total area.

STRIPPING : Tyre is stripped by lower bead ring from mould, thereby minimising bead marking or bead.

BRONZE FILLED : Usedin center mechanism offer distinct advantage as long life.

TEFLON SEAL : (a) Eliminate seal ring failure. (B) Reduce cylinder wall wear.

Quality

Since the very first day, we entered into this business; our company has been very particular about the quality of the entire range of Tyre & Tube Moulds and Machinery. We adhere to all the industrial parameters of quality and ensure that these are practiced at every stage of production process. We have established a modern quality testing facility that is equipped with advanced equipment helping us to check our Tyre & Tube Moulds and Machinery on different quality parameters. Further, we are backed by experienced quality controllers who monitor the entire manufacturing process, right from procuring the raw material to final dispatch of the consignments.

We test our Tyre & Tube Moulds and Machinery on following parameters:

Safety

Power consumption

Strength

Design compliance

Noise levels

Corrosion resistance



Research and Development

Our company has also established an ultra modern Research and Development Department that is managed by qualified team of technocrats and researchers. They are constantly involved in research activities that allow us to come up with new and effective manufacturing technologies. It enables us to offer distinguished quality of Tyre & Tube Moulds and Machinery to our valued clients. Further, the team of technocrats and researchers work in close proximity with production engineers to ensure that new technologies are executed in exact manner.

Infrastructure Facility

We have established a modern infrastructure facility that allows us to manufacture distinguished quality of Tyre & Tube Moulds and Machinery. Our infrastructure own a state-of-the-art manufacturing unit that is equipped with sophisticated machinery enabling us to fulfill the bulk requirements of the clients within stipulated time frame. Further, we also possess an in-house design unit that is supported with latest CAD/ CAM facility allowing us to design our Tyre & Tube Moulds and Machinery with innovative approach.

We have installed following machines at our unit that provide us an advantage over other business competitors:

- Lathe machine
- Drilling machine
- Shaping machine
- Cutting machine
- Polishing machine
- Molding machine



Endura Tyre Testing Machine



We offer a wide range of Tyre Testing Machines that are manufactured using latest technology at our modern manufacturing unit. These tyre testing machines are provided with running speed indicator & recorder and tyre broken automatic detector that help us to test variety of tyres on different parameters such as dimension, friction resistance and durability.

The entire range is available in various specifications that can be customized as per the requirements of the clients within stipulated time frame.

Advantages:

- Running speed indicator & recorder
- Tyre load indicator & recorder
- Tyre running distance indicator & recorder
- tyre running time indicator & recorder
- Tyre broken automatic detector

Features:

- Robust construction
- Easy to install and operate
- Corrosion and abrasion resistant





Tyre Plunger Testing

Machine to have range up to 1500 mm OD tyre plunger travel 50mm/ per min.

- Load Cell 10 ton with display
- Plunger dia to be 8, 19, 32, 38 mm
- Plunger Stroke 12"
- Hydraulic Servo Cylinder 5" X 12" Stroke.
- RIM Holding Cylinder 5" X 20" Stroke.
- Hubs for RIM size 10, 14, 15, 16 & 20 inches.
- Electric Motor 3 HP with electronic controller panel

It includes Monitor, CPU, Printer, Encoder Meter and PLC unit.

TBM Machine

RB-1/RB-3/RB-5/TR-7

We manufacture and supply well designed and extremely good quality TBM Machine. These TBM machine are available in RB-1/RB-3 Series. They are best suited for their usage in tyre industry. These machines are available in various model, size, diameter, height, weight and motor ratings. They are offered at a very competitive rate and are also customized as per the client's specifications.



Model Tyre Size (Bead)		RB-1 Scooter & Passenger tyres from 8" to 13"	RB - 3 Motor cycle, Moped, passenger LCV, ADV from 12" to 19"
Maximum drum diameter	mm	400	600
Maximum drum width	mm	400	600
Maximum ply overhang	mm	100	140
Drum centre height	mm	900	850
Drum shaft speeds	rpm	240/60	180/45
Main Motor Rating	kw	1.0/0.33	1.0/0.33
Stitcher Motor Rating	kw	0.37	0.37
Compressed Air	atm	6 to 10	6 to 10
Overall size	mm	1150 X 2100 X 1200H	1150 X 2450 X 1200H
Approx. Machine Weight	kgs.	1300	1700

Bias Cutter Machine

We offers Bias Cutter Machine for various industrial usage. Our bias cutting machines are perfect for tyre industry. These are available with following specifications.



Type	High Table Horizontal
Purpose	To automatically cut rubberized Nylon Fabric. from a let off station at adjustable cutting width and angle.
Maximum width of fabric that can be put	1200 mm
Stock roll diameter	1000 mm
Shell bar	32 mm sq.
Liner width / Diameter	As per requirements
Length of shell	- do -
Cutting width	Max 800 mm min 150 mm
Cutting angle	30° to 75° degree
Accuracy : Angle	+/- 0.5 deg.
Accuracy : Width	+/-1.5 mm
Conveyor table Length (from center of cutter carriage to the end of the table).	4500 mm Approx
Max Conveyor surface speed	80 mts. per min.
Conveyor table width	48"
Out put of the machine	18 cuts per min. at 600 mm width of cut.
Thickness of the calendered fabric	0.8mm to 2.5mm
Cutter speed	5600 RPM



Multiple Storey



Front View of Table



Back View of Table

Automatic Tube Press

We manufacture fully automatic Tube Press with advance technology, which are known for saving cost and increase in production.



Features of the Tube Press

- Our Tube Press is fully automatic, which will yield big savings in manpower costs.
- Our Tube Press Saves energy, lowers environmental impact and makes your process productive.



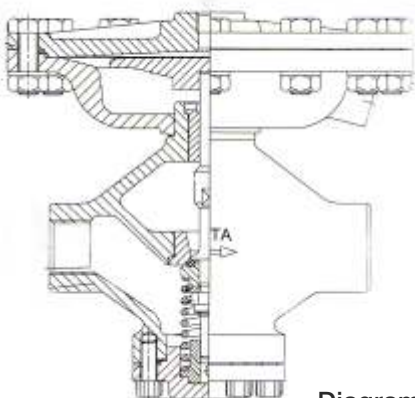
Cooling Line with Trade Skiver

TREAD COOLING LINE water Nosal spray type Single, Double and Three step Stories .depend on variable length with the Tread skewer auto length cutting & variable speed maintain the tread stretch through the sensor to maintain the loop of tread, tread length cutting through Encoder Meter with high speed 4"steel cutter, belt conveyor length 4 meter fully automatic through PLC and A.C Drive motor with fixed Weighing scale on end of the Machine.



Pressure Regulating Valves

MAX. INLET PRESSURE: 32bar(460psi)
MAX. TEMPERATURE: 205°C



Diagram



Diaphragm Valve



Three Mould Hydraulic Type BOM Press

Range from size 24" to 120" (Single/ Double/ Triple/ Four Cavity)

Our company is also offering a wide range of Three/ Four Mould Hydraulic Type BOM Press that is available in various clamping force and tire height. These are also provided with durable oil cylinders that are available in various sizes. Available in various specifications, these BOM Presses can be customized to suit the varied requirements of the clients within committed time frame.

Features:

- Easy to install
- Low maintenance
- Highly efficient
- Sturdiness



PCI - Unit



Tyre Vents Trimming Machine

Bladder Press

Our company has also specialized in the sphere of manufacturing and exporting a wide range of Bladder Press that is used for various applications in a number of industries. These presses are appreciated for their robust construction and super fast clean time. These are enabled with cylinders that can be rotated in both direction and central loading through manual stainless steel valve. Further, we also offer choices for perforated and non-perforated cylinders.

Features:

- Robust construction
- Durability
- Reliability
- Easy to operate
- High functionality



Specification \ Model	LT-H1	LT-H2	LT-H5
Mold O.D. Max.	910Ømm	1300Ømm	1400Ømm
Mold Height	160-695mm	500-850mm	Min.550mm Max.
Bladder Size Max.	660Øx565H(mm)	1067Øx710H(mm)	1150Øx1100h(mm)
Closing Force	450tons	900tons	1200tons
Platen Open Space	1527mm	1900mm	2400mm
Steam	10Kg/cm2		
Working Clamping Force	AC. V. Hz. Ø		



**OTR Green Tyre
Splicing Machine**



**Green Tyre
Splicing Machine**



Band Building Machine

Moulds

Tyre Mould

Tyre molds for molding pneumatic tyres are typically constructed of steel or aluminum, and heated by steam platens or by placing the molds in pot heaters. Thermal conduction is usually relied upon to transfer the heat from the heat source to the tread and sidewall forming surfaces. It is desirable to maximize the heat conduction to the tread and sidewall forming surfaces. If the thermal conduction is less than optimum, it will require additional cure time and energy costs resulting in reduced production capacity for the mold and higher operating costs. Inefficient thermal conduction can also result in temperature non-uniformity in the mold. The time to cure a tyre is limited by the point of least cure on the tyre, which is typically located on the under tread or in the bead area. Thus if this area could be cured quicker, the entire time of the process may be reduced. Thus an improved mold is desired which can heat the tyre more quickly, uniformly and efficiently.

