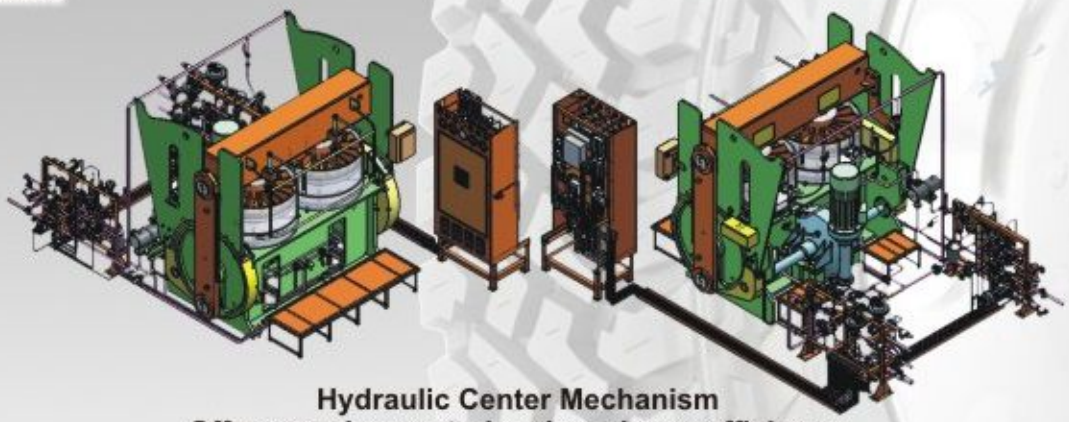
AMCL – A Solution Provider and Profit Optimizer

AMCL Machinery Limited

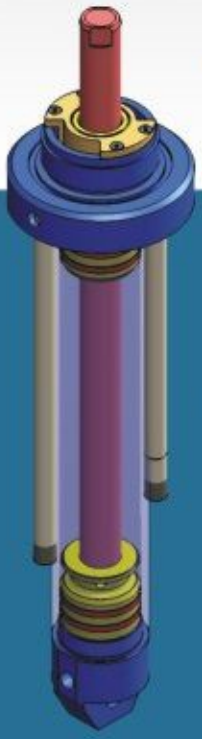
TYRE CURING PRESS

AMCL MACHINERY LIMITED
(HNGIL Group of Companies)

AMCL Machinery Limited

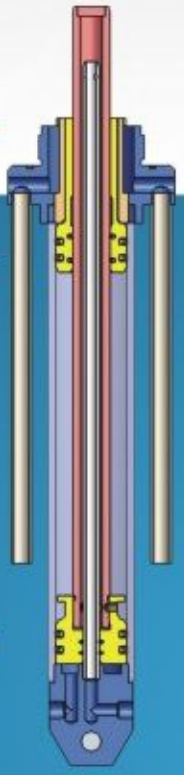


Hydraulic Center Mechanism
Offers precise control and maximum efficiency.



Center Rigid Post
Assures that the bladder is centered in the green tyre, tyre will remain centered during shaping and cure cycles.

Bronze-Filled Teflon Seals:
1. Eliminate sealing ring failure.
2. Reduce cylinder wall wear.
3. Eliminate leak-by in the cylinder.
4. Increase lubricity of inner cylinder wall by Teflon coating of the bore.
5. Reduce bladder reversion deposits in cylinder because of Teflon coating.



Lower Clamp Ring Hub
For attaching bladder assembly to center Mechanism

"O" Rings
Provide seal for internal curing media

Stainless Steel Cylinder Tube
Resists Corrosion.

Press Operating Mechanism

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

AMCL Machinery Limited

Plot No. A-1/1, MIDC Industrial Area, Butibori, Nagpur – 441122
Phone: 07104 – 265470, 265724, **Fax:** 91 – 7104 – 265725, 265893
Website: www.amcl.in **E-mail:** marketing@amcl.in

AMCL Machinery Limited

AMCL – A Profit Optimizer & Solution Provider

AMCL Tyre Curing Press

AMCL offers twin cavity mechanical design Bag-O-Matic type tyre curing presses. The presses are offered as per technology from Leonh Herbert Machinenfabrik, Germany. The Platen design presses are offered in various models to cover all sizes of tyres from scooter to LCV tyres.

Construction Features

- Press Bed
- Side Shields & Side Links
- Press Bridge-Welded design
- Heat Insulation Shields
- Top & Bottom Platens
- Manual Mould Height Adjustment Assembly
- Crank Gear & Pinion
- Stainless Steel Single / Double Acting Center Mechanism
- Double Acting Ejector cylinders
- Instrumentation & Control Panel
- Double Acting Bladder Cylinders
- Centralized Lubrication System with Injectors
- Main Drive Motor with Brake
- Heavy Duty Gear Box
- Indian / Imported Piston type valves with piping, solenoid valves, pressure switch, pressure sensor etc
- Temperature & pressure recorder & controller
- PLC

Technical Data

Model	Bead Dia.	Applicable Tyre	Maximum Closing Force /Cavity (Tons)	Platen Diameter (mm)	Mould Accommodation Height		Max Tyre Internal Pressure kg/cm2
					Max(mm)	Min(mm)	
TCP 24	8" – 12"	Scooter	50	630	240	120	21
TCP 30	8" – 19"	Scooter/ Motorcycle	70	805	250	120	21
TCP 36	8" – 19"	Scooter& Motorcycle	75	915	260	120	21
TCP 42	16" – 19"	LCV	140	1010	330	120	28
TCP 45	17" – 16"	LCV	160	1070	460	200	28
Dome Presses (Truck)							
Model	Bead Dia.	Applicable Tyre	Maximum Closing Force/Cavity (Tons)	Shield of Dome ID (mm)	Mould Thickness (mm)		Max Steam Pressure for Dome
					Max(mm)	Min(mm)	
TCP 55"	15" – 22.5"	Bus & Truck	295	1310	445	241	7 kg/cm^2
TCP 65.5"	17" – 24.5"	Bus, Truck & Tractor Rear	453	1575	635	254	7 kg/cm^2

AMCL Machinery Limited

Plot No. A-1/1, MIDC Industrial Area, Butibori, Nagpur – 441122
Phone: 07104 – 265470, 265724, **Fax:** 91 – 7104 – 265725, 265893
Website: www.amcl.in **E-mail:** marketing@amcl.in

AMCL Machinery Limited

AMCL – A Solution Provider and Profit Optimizer

1.Semi auto PCI unit stabilize the shape of the tyre
2.PCI will help eliminate the influence of hot shrinkage on the tyre
3.Tyre dimensions will not increase under actual operating condition

RANGE OF AUTO PCI UNITS

Tyre type			Passenger	Truck / Bus	
• Model			A45P18K	A55P2K	A651/2 PKI
• Bead Diameter	Minimum	Inches	12	16	16
	Minimum	Inches	16	22.5	24
• Tyre Outer Diameter	Minimum	Inches	17.50	30.50	35.80
	Minimum	Inches	38.60	45.50	54.50
• Maximum Tyre Width		Inches	16	13	17.50
• Set Bead Width	Minimum	Inches	4	3	-
	Minimum	Inches	8	9.9	11.20
• Inflator Air Pressure		Kg/cm2 PSI	7 100	10.5 150	14 200
• Number of Position			4	4	4

AMCL's Range of Tyre, Tube and Rubber Machinery Include

- Mixtron BB Series Mixers
- Mixing Mills
- Hot Feed Extruders
- Calender with line equipment
- Bias Tyre Building Machines
- Bladder Curing Presses
- Tyre Curing Presses
- Aubo Type/Curex B Type
- Tube Curing Presses
- Tube Splicing Machines
- Semi Auto/Auto PCI Units
- Servicers forTyre Building Machines

For over four decades, AMCL has been turning the wheels of the Indian Tyre Industry, sourcing advance solutions from World leaders like Leonh Herbert Machinenfabrik, Germany; Midland Tyre Machinery Co. Ltd., U.K.; Kobe Machinery Co. Ltd., Japan, and KOBE STEEL LTD., Japan. Recognized as the Pioneer in Rubber and Tyre machinery in India.

TM 08

Works at Nagpur

AMCL MACHINERY LIMITED

Corporate Office: 2, Red Cross place (HNGIL), Kolkata – 700001, WB
Head. Office: 202, Ackruti Centre point, MIDC, Andheri (E), Mumbai-400093
Works: A-1/1, MIDC, Butibori - 441 122, Dist. Nagpur, Maharashtra, INDIA.
Phone : 91 - 7104 - 265470, 265724 Fax: 91-7104 -265725,265893
Website: www.amcl.in **E-mail:** marketing@amcl.in