

MODERN

*designed for tomorrow's **technology...***

BROCHURE



Manufacturers & Exporters

MODERN INDUSTRIES



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RUBBER MIXING MILL

MIXING MILL

We offer complete range of extremely reliable mixing mills with various options and configurations. Our heavy-duty mixing mills have long been popular among tire and rubber manufacturers. They are noted for their high productivity and low energy consumption and demonstrate excellent performance.

Features / Options

High efficiency, energy saving Mixing Mills with Space Saving design options available.

Rollers – Abrasion proof and corrosion resistant chilled cast iron centrally cored rollers or **peripherally drilled**.

Drive – Bull gear drive, single shaft output or double shaft output or independent drive for each roll can be provided with VFD for variable speed & friction ratios.

Nip Adjustment – Manual, Motorised or Hydraulic.

Moveable, fixed or hydraulic stock guides can be provided with replaceable Nylon or Phosphor Bronze Liners.

Optional Stock Blender – for better batch homogeneity, less operator fatigue, effective cooling of the compound.

RUBBER MIXING MILL

Anti-Friction Bearing – Uni Drive Mixing Mills (AFB):

Latest design, fitted with Anti – Friction Roller Bearings for main roller journals resulting in reduced friction energy losses and wear, minimized maintenance expense & maintenance down time.

Item Description	AFB		
Rear Roll Drive	Direct Drive / Uni Drive		
Size / Model No.	Roll Size	Motor (HP/RPM)	Batch Capacity
M1 - AFB	10" x 24"	15/1000	8 - 10 Kgs
M2 - AFB	12" x 30"	25/1000	18 - 20 Kgs
M3 - AFB	14" x 36"	40/1000	28 - 30 Kgs
M4 - AFB	16" x 42"	60/1000	38 - 40 Kgs
M5 - AFB	18" x 48"	75/1000	45 - 50 Kgs
M6 - AFB	22" x 60"	120/1000	65 - 80 Kgs



Base	Mono - Base Steel bed construction
Real Roll Speed	19 RPM (Appx.)
Stand, Caps, Apron & Housing	Cast Steel
Rolls	Chilled Cast Iron Rollers with chilled depth of Appx. 18 to 20mm & Surface Hardness 500 (± 20) BHN. Hollow Cored for circulation of cooling medium.
Roller Heating & Cooling	Through Universal Rotary Joints with internal spray pipes for effective rate of cooling.
Roll Bearing	Anti - Friction Roller Bearings
Gear Box	3 Stage Helical Gearbox
Lubrication	Automatic Force Feed Lubrication with Safety Interlock
Nip Adjustment	Motorized & Manual options available.
Motor	TEFC Sq. cage motor - 400/440 Volts, 3 phase, 50 cycles AC supply.
Emergency Break	Hydraulic Thruster Breaks / Electro Magnetic Break options
Auto Reversible	Yes

HYDRAULIC PRESSES

Compression Moulding Hydraulic Press

We offer wide range of Compression Moulding Presses, Vacuum Moulding Presses and Tailor made optimized Hydraulic Presses for special purposes based on our client's requirement.

Our presses are Precise, highly efficient, High-speed hydraulic presses which provide Improved cycle time, higher production rates. Our presses are available in various platen sizes and tonnage capacities, we can also supply multi daylight or multi station presses with various heating options to suit clients requirement.

We offer Fully Automatic Presses with mould IN – OUT feature or with 2, 3, 4 piece mould handling system.



HYDRAULIC PRESSES

The table indicates specifications for standard and frequently sold MODERN Hydraulic Presses (electrically or steam heated) :

Series	Hot Platen Size in cm	Capacity in Tonnes	RAM Dia in mm
MMH-1	30X30	40	150
MMH-2	40X40	65	200
MMH-3	50X50	100	250
MMH-4	60X60	150	300
MMH-5	70X70	200	350
MMH-6	80X80	260	400
MMH-7	90X90	330	450
MMH-8	100X100	410	500
MMH-9	120X120	590	600

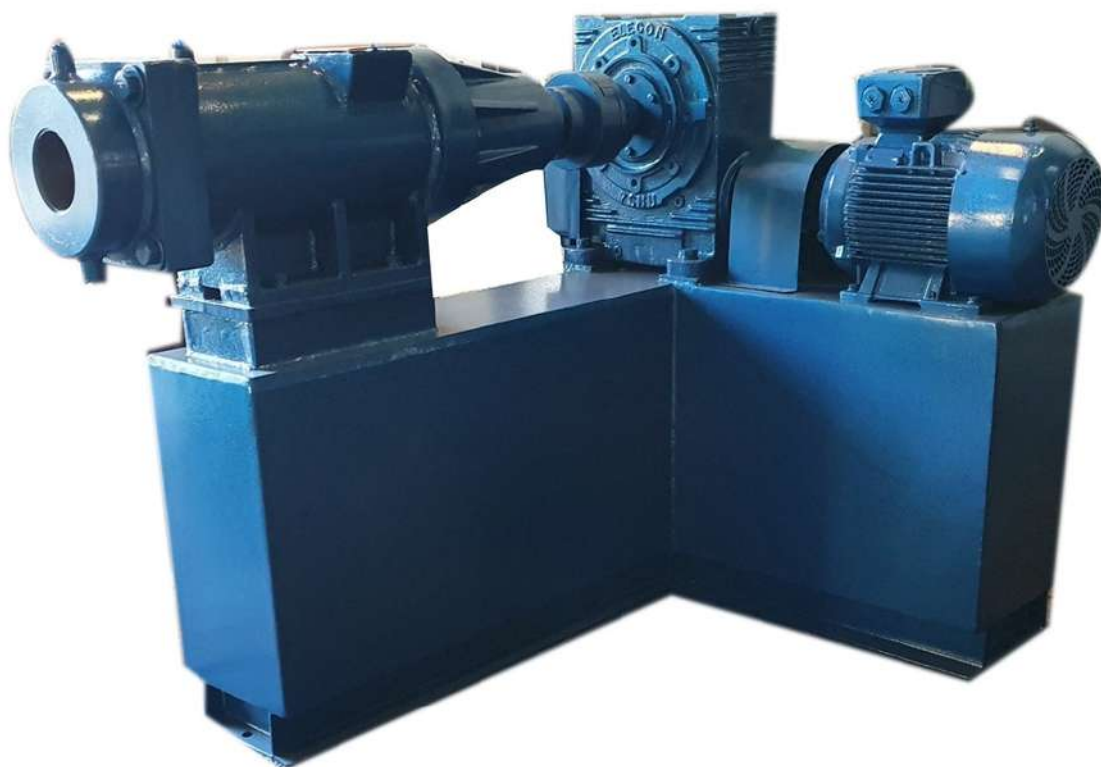
In all the series : Working Pressure - 210 kgs/cm
: Stroke - 400mm
: Daylight Nos. - 3-4

Presses for Precured Thread Rubber, Vee Belts, Conveyor Belt Making, Flap Moulding and such other special purpose Hydraulic Presses are within the range of manufacture for which 'MODERN' are well-known.

Details available against enquiry.

RUBBER EXTRUDING MACHINE

The Screw Extruding Machines are designed and marketed for extruding warm rubber or rubber components of appropriate consistency in various sections, shapes or profiles and are thus suitable for manufacturing rubber tubes, strip-sheets, press-moulding blanks, tyre-treads, channel and angle section etc.



RUBBER EXTRUDING MACHINE

'MODERN' Extruders are manufactured in the following range :

Model	Diameter or Screw mm	Driving Motor HP	Production Capacity Kgs. per. HR
MEX-55	55	5	35
MEX-75	75	10	90
MEX-100	100	15	150
MEX-115	115	20	200
MEX-150	150	60	500
MEX-200	200	100	750

In all the cases : Screw RPM : 35/40 for Fixed Speed Extruder

*Design subject to alteration and/or modification. For higher capacity or special extruders as with variable speed drives etc.
Kindly refer with specifications.*



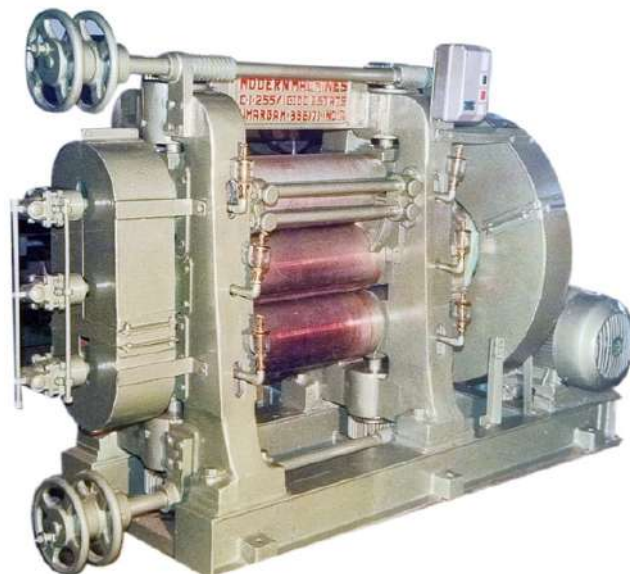
CALENDER MACHINE

This machine is a commonly constructed contrivance for Rubber Sheeting, fractionating, Skim Coating (Rubberising Fabrics), Topping and Tread Designing.

Table showing standard range of 'MODERN' three roll Calender Machines

Type	Roll Size				HR
	Dia		Length		
	Inch	cm	Inch	cm	
MCL-8	8	20	24	60	10
MCL-10	10	25	30	75	20
MCL-12	12	30	36	90	30
MCL-14	14	35	42	105	40
MCL-16	16	40	48	120	60
MCL-18	18	45	54	135	75

Metric measures rounded off. Details available against enquiry. For four rolls and or special calenders (including variable speed drives) Kindly refer with specifications.



RUBBER BALE CUTTER

Primary need in Rubber Industry is to cut natural / synthetic rubber bales to design sizes/pieces. Our Bale Cutting Machine, serving this need, is hydraulically operated down stroking cutting machine with sharp alloy-steel blade. The table to rest bulky bales, consists of idler rollers on which the bale could be moved easily. The appropriate cutting pressure at optimum speed is the essence of '**MODERN**' Rubber Bale Cutter design

Following are the specifications for machine :

Capacity Tonnes	Tables Size Inches	Cutting Stroke Inches
20	30x30	20



STEAM VALCANISERS

It is a Horizontal-Direct Steam Heating Types and is Primarily built and usually sold for usage in Rubber Processing Units. The Vulcanizers are pressure-tight cylindrical vessels, Single shell direct steam-heating type, fabricated from tested m.s. plates of appropriate thickness to withstand 50 to 100 p.s.i. working pressure.

Manufacturing Range:

DIA	:	0.5 Mt.	to	3 Mts.
LENGHT	:	1 Mt.	to	12 Mts.

Vertical or Specially built Vulcanisers like quick opening door type, jacketed type, could be made against specific

DISPERSION KNEADER

Unique Internal Mixing Machine for Intensive Kneading of Rubber with other ingredients.

Following are the specifications for the machine :

Model	Capacity Ltrs.	HP
MDK-1	25	30
MDK-2	35	50
MDK-3	55	75
MDK-4	75	100

“ We also provide complete plants for trend Rubber, Precured Trend Rubber, Micro-cellular sheets, cycle Tyres & Tubes, Automotive Tubes, Conveyor Belts & Vee Belts, Hawai Chappals, Foot-Wears, Injection Bottle Caps and such other allied Rubber Plants, we also take full responsibility for erection, start-up and servicing.”

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