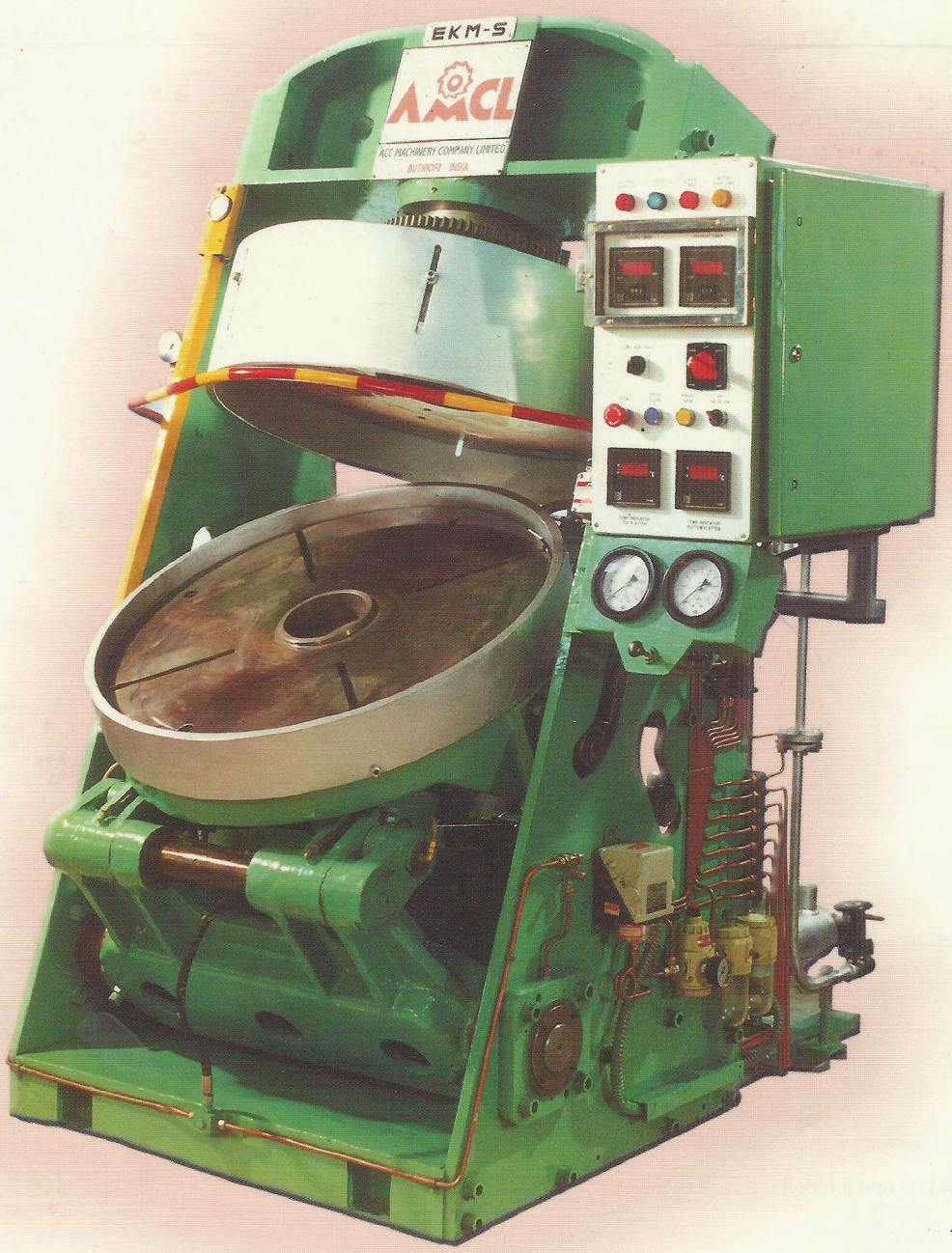
TUBE CURING PRESS



Technology by LEONH HERBERT MACHINENFABRIK, GERMANY

AMCL

AMCL Machinery Ltd.
(HNGIL Group of Companies)

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ACC Machinery Company Limited

AMCL is the pioneer, indigenously producing the widest range of machinery for the Rubber and Tyre Industry. Offering turnkey solutions in this field, its range of equipment are designed to meet stringent international standards with adaptability to exacting work conditions. AMCL strives hard to maximize productivity with assured quality.

Tube Curing Press

AMCL designs and manufactures a complete range of Tube Curing Presses for all vehicles from scooters to heavy trucks and OTR. Great flexibility is built in to these machines with each tube company's design preferences in mind with due emphasis on safety precautions and interlocks.

Tube Curing Press - Construction Features

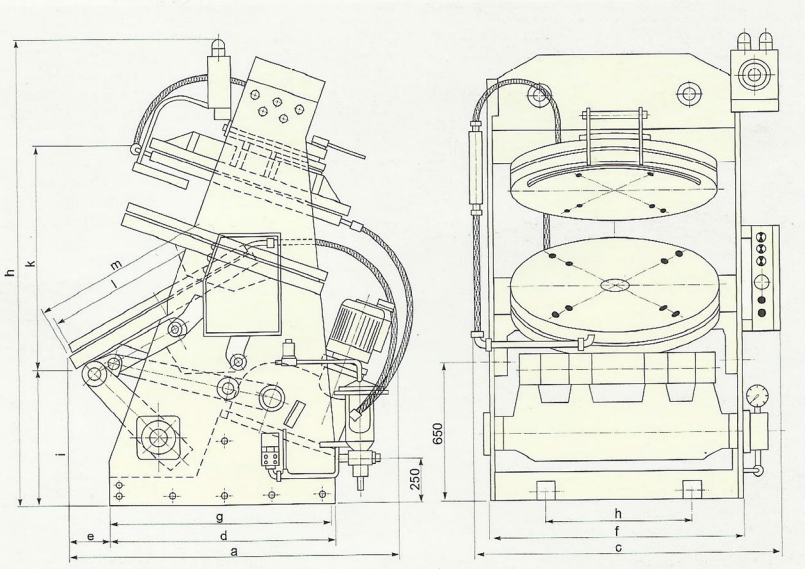
- Press frame with side shields
- toggle lever mechanism
- press table with insulating plates
- mould height adjustment assembly with mould support plate
- main drive motor with brake
- gearbox
- safety bar assembly
- centralised lubrication system
- instrumentation and piping includes diaphragm valves
- solenoid valves
- FRL unit
- strainer
- pressure switch
- flexible hoses
- timer/PLC for auto cycle control
- control panel with lamps and push buttons etc.

GENERAL DESCRIPTION

Design and Operation Features

- Tube curing presses require a drive enabling the mould halves to close within the shortest possible time in order to avoid premature curing of non-vulcanised and relatively thin material in the hot mould and to launch the curing process under internal pressure as quickly as possible. Great importance, therefore, is given to the construction of the drive on tube curing presses. Even with the largest press of this model, the drive does not take more than 5.5 seconds to close the mould halves.

- Another important feature is revealed by opening and closing movement of this press. In opening, the lower part of the press goes down by simultaneously tilting forward while the upper part remains fixed, thus providing a desk like loading and unloading position which is particularly advantageous in view of the flabby tubes having a relatively large diameter.



- The presses are delivered with or without curing platen. However, in the case of larger tubes, mould with a steam jacket is generally used to obtain uniform curing. As the curing platen serves as mould fixation also, the upper curing platen is replaced by a special mould retaining plate in mould with a steam jacket, while the lower mould half is fixed to the table. A central adjustment installation on the upper part of the press enables quick and uniform adjustment to the various mould heights.

Basic Specifications

Technical Data	Model No.				
	EKK-S	EKM-S	EKO-S	EK1-S	EK2-S
For moulds to be inserted in	Scooter tyre & industrial tyre sizes	Motorcycle & passenger car tyre sizes	Passenger car & light truck tyre sizes	Truck tyre sizes	Truck tyre & Tractor tyre sizes
Maximum mould height without curing platens	270	310	390	400	500
Minimum mould height without curing platens	170	170	240	250	290
Maximum mould height with curing platens	160	200	250	-	-
Minimum mould height with curing platens	60	60	100	-	-
Weight in Kgs without curing platens	1250	2200	2500	4200	9100
Closing Pressure in tons	20	35	50	65	80
Closing time in seconds	3	3.3	3.7	4.3	5.5
Main drive motor KW	1.5	1.5	2.2	3.7	7.5
a	1200	1370	1600	1700	2200
b	1900	2000	2300	2300	2950
c	1120	1370	1560	1800	2200
d	900	1080	1010	1080	1580
e	100	100	180	200	270
f	820	1020	1170	1400	1710
g	920	1030	960	1020	1505
h	500	680	730	920	1250
i	630	550	700	560	750
k	650	700	1000	1250	1650
l	650	810	980		
m	650	850	990	1200	1630

Required Media					
Internal curing	Compressed Air or Steam				
External curing	Steam up to 16 atm				
Control Air (Oil free)	1.5 atm				
Electric power	220 / 415 Volts, 50 cycles				
Shipping space in m^3	3	3.6	5.5	7	13
Packing weight in kgs	300	350	400	450	600

☞ In view of continuous product development, the information given herein is likely to change without prior notice.

Optional items - Tube mould

Making its range complete, AMCL also manufactures the inner tube making machinery to customer's requirements which include :

- Mixing mills 16" x 42" , 22" x 60" size
- Extruder with AC/DC drive in size 4.5", 6",8" etc.
- Tube splicer as per design from MIDLAND TYRE MACHINERY CO., UK.
- Tube cooling line as per design from MIDLAND TYRE MACHINERY CO., UK.

AMCL

Yesterday's Pioneer ... Today's Leader.

For over two decades, AMCL has been turning the wheels of the Indian Tyre Industry, sourcing advance solutions from World leaders like Leonh Herbert Maschinenfabrik, Germany; Midland Tyre Machinery Co. Ltd., U.K.; Kobe Machinery Co. Ltd., Japan and KOBE STEEL, Ltd., Japan. Recognised as the pioneer in Rubber and Tyre machinery in India, AMCL shall remain the expert one stop source for all requirements of the industry. It stands committed to provide innovative technology advances to the emerging needs of its valued customers.

AMCL Works, Butibori.

Tyre Manufacturing Machinery from AMCL :

- Mixing Mills
- Mixtron BB series Mixers
- Hot Feed Extruders
- Tube Splicers
- Bladder Curing Presses
- Tyre Building Machines - (Scooter - Rear Tractor Tyre)
- Tube Curing Presses
- CUREX B & AUBO Range Tyre Curing Presses
- 2/3 Roll Rubber Calenders
- Cooling Lines for Extruder & Calender

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