TUBE CURING PRESS

Technology by LEONH HERBERT MACHINENFABRIK, GERMANY

AMCL Machinery Ltd.
(HNGIL Group of Companies)
AMCL

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

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>EKK-S</th>
<th>EKM-S</th>
<th>EKO-S</th>
<th>EK1-S</th>
<th>EK2-S</th>
</tr>
</thead>
<tbody>
<tr>
<td>For moulds to be inserted in</td>
<td>Scooter tyre &amp; industrial tyre sizes</td>
<td>Motorcycle &amp; passenger car tyre sizes</td>
<td>Passenger car &amp; light truck tyre sizes</td>
<td>Truck tyre sizes</td>
<td>Truck tyre &amp; Tractor tyre sizes</td>
</tr>
<tr>
<td>Maximum mould height without curing platens</td>
<td>270</td>
<td>310</td>
<td>390</td>
<td>400</td>
<td>500</td>
</tr>
<tr>
<td>Minimum mould height without curing platens</td>
<td>170</td>
<td>170</td>
<td>240</td>
<td>250</td>
<td>290</td>
</tr>
<tr>
<td>Maximum mould height with curing platens</td>
<td>160</td>
<td>200</td>
<td>250</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Minimum mould height with curing platens</td>
<td>60</td>
<td>60</td>
<td>100</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Weight in Kgs without curing platens</td>
<td>1250</td>
<td>2200</td>
<td>2500</td>
<td>4200</td>
<td>9100</td>
</tr>
<tr>
<td>Closing Pressure in tons</td>
<td>20</td>
<td>35</td>
<td>50</td>
<td>65</td>
<td>80</td>
</tr>
<tr>
<td>Closing time in seconds</td>
<td>3</td>
<td>3.3</td>
<td>3.7</td>
<td>4.3</td>
<td>5.5</td>
</tr>
<tr>
<td>Main drive motor KW</td>
<td>1.5</td>
<td>1.5</td>
<td>2.2</td>
<td>3.7</td>
<td>7.5</td>
</tr>
</tbody>
</table>

### Required Media

<table>
<thead>
<tr>
<th></th>
<th>Compressed Air or Steam</th>
<th>Steam up to 16 atm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Internal curing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>External curing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Control Air (Oil free)</td>
<td></td>
<td>1.5 atm</td>
</tr>
<tr>
<td>Electric power</td>
<td></td>
<td>220 / 415 Volts, 50 cycles</td>
</tr>
<tr>
<td>Shipping space in m³</td>
<td></td>
<td>3</td>
</tr>
<tr>
<td>Packing weight in kgs</td>
<td></td>
<td>300</td>
</tr>
</tbody>
</table>

*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.
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 Leohn 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.

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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