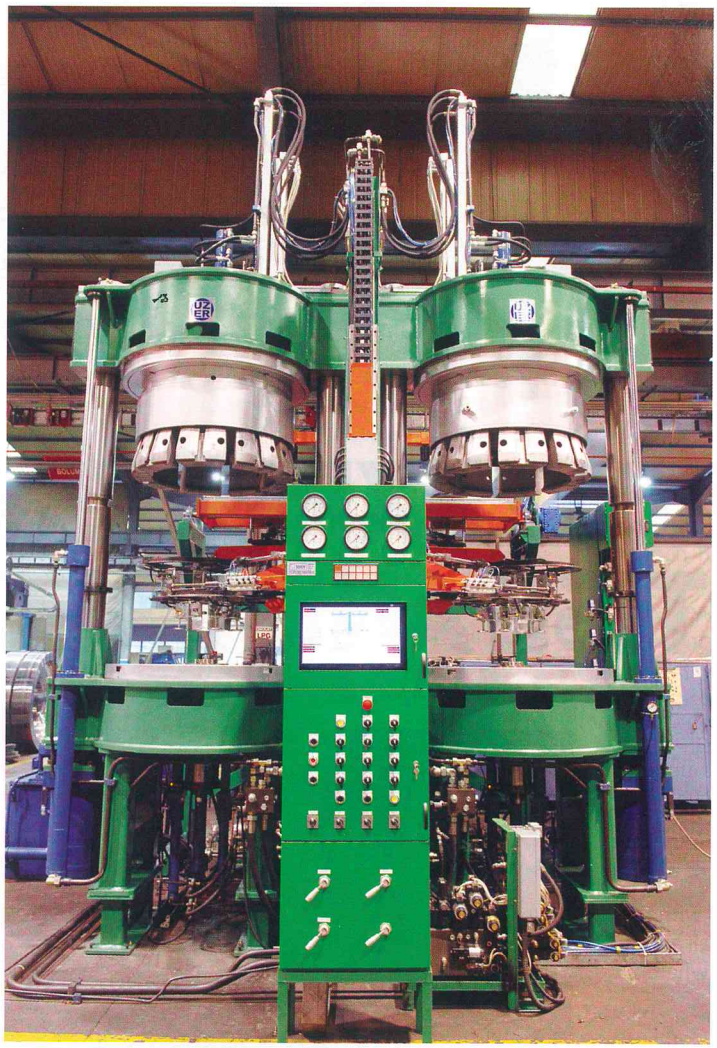
# UZER MAKINA EYES BIGGER EXPANSION

Uzer Makina, Turkey's premier tyre curing press and curing mould manufacturer, has focused on tyre curing processes, including tyre curing presses, container mechanisms, and tyre curing molds and bladder molds, for the past 35 years. It has continually invested millions of dollars upgrading both its operating systems and the skills of its engineers and workers. Therefore, it can deliver world-class products in accordance with the requirements of tyre companies.



Uzer Makina almost has doubled working area especially for curing press during 2012, 2013 and 2014. As a result of these expansions, number of presses produced has increased 30 per cent and number of molds increased 30 per cent in the last three years. In addition for last three year developments, in this year 2015, Uzer Makina opens new building which will increase 30 per cent total production area. After the introduction of the new building, Uzer Makina will plan to invest new machines in order to increase manufacturing capacity for presses and molds business.

Uzer Makina has worked with top tyre manufacturers such as Bridgestone, Goodyear, and Pirelli. Its precision equipment meets the exacting requirements of its customers, and it has an impressive client list, serving top tyre manufacturers in Turkey, Europe, the USA, the Middle East, the Far East, and Russia.

One of Uzer Makina's main products is tyre curing presses. Production of these had started almost 20 years ago with the 60in twin BOM dome-type mechanical presses. Since that time, Uzer Makina has delivered more than 250 sets of curing presses worldwide from mechanical to state-of-art hydraulic systems. The mechanical presses range from 40in twin cavity tilt back, to 104in single cavity slide back.

Uzer Makina has recently developed a new concept of hydraulic press for the production of passenger cars and light vehicle radial tyres. The press is called the 'Floating Column' due to its floating main columns which has been internationally patented, and it has no additional mold height adjustment system. All presses comply with CE regulations and all pressure vessels are certified and tested by notified bodies such as TUV Germany.

Uzer Makina has adopted is direct engraving as the main mold manufacturing method which is able to accomplish by deploying state-of-the-art software and modern 5-axisCNC machines. That is the most convenient method to manufacture tyre molds where direct engraving is used.

By employing modern manufacturing technologies, the company is able to reduce the time for producing moulds. Thanks to these, the manufacturing time for the first molds is almost reduced 4-6 weeks, especially if the pattern does not require any blades, then it is even reduced to four weeks.

For a high-quality tyre, total indicated run-out (TIR) value is significant, one of the major effects on TIR is the mold RR (radial run-out) value. Help of the direct engraving method, the lowest RR values are reached. Another advantage of direct engraving method is the possibility of selection of a greater range of materials. Both aluminium and/or steel materials are used for manufacturing of segmental type of molds.

The molds product ranges of Uzer Makina covers PCR, LVR, LTR, TBR sizes in segmental type of mold construction with either aluminium or steel tread segments and sidewall plates are made of steel. In addition to these, full circular type AG, AGR, OTR and bladder molds are also made. AG, AGR, and OTR tyre molds are manufactured using the technology of direct engraving. Use of forged or cast steel materials and direct engraving, which are the standard methods for manufacturing AG, AGR and OTR full-circular type molds, gives extra precision and durability for this group of molds.

At every stage of production, Uzer Makina applies quality management processes and has had ISO 9001 for all its manufacturing operations since 2002.

Uzer Makina continues to deliver state-of-the-art designs based on customer specifications or new designs that are developed based on customer requirements.