

Curing press advances

A recently introduced curing press technology system can form part of a more compact and efficient tire production area, and offers fully automatic mold height adjustment

At Tire Technology Expo 2019, Uzer Makina launched its new Cross-Placed Floating Column Hydraulic Press. The new design is applicable to PCR and TBR tires, and offers a brand-new option (over frame type) for TBR hydraulic presses.

The cross-placed curing press is more compact than the previous iteration and has all the advantages of floating column technology, including simple design, low energy consumption and easy maintenance.

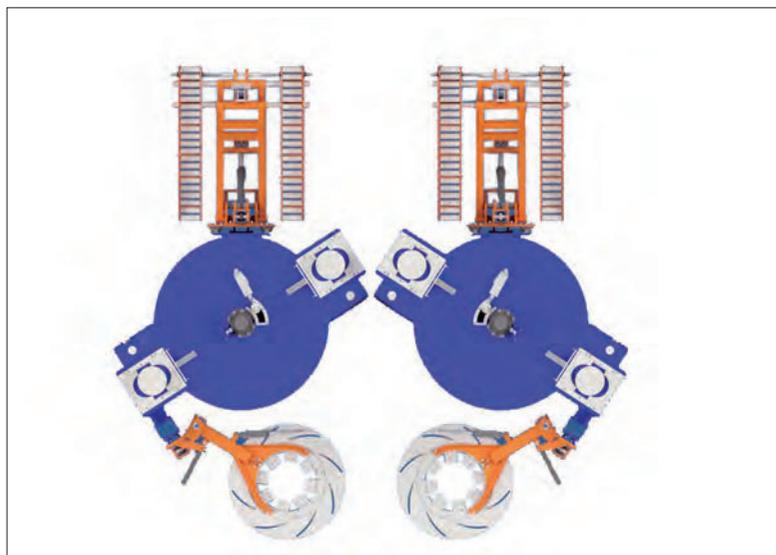
This concept was developed by Uzer Makina engineers in response to the recent market demand for upgrading existing machines in tire production plants. The cross-placed curing press design enables tire manufacturers to use the curing press area at least 12% more efficiently – tire producers would be able to place 112 curing presses in an area that was previously large enough for 100 machines.

Floating column technology provides fully automatic mold height adjustment and therefore eliminates the need for conventional mold height adjustment systems. The technology features two squeezing cylinders under the column on both sides of each cavity. The piston rods of these cylinders are directly connected to the columns. Besides applying squeezing force, these cylinders also change the position of the locking point, which is located on the columns for adjustment of mold height.



Therefore, the press does not need multiple locking points and can work perfectly well with just one. Columns rise at the end of each cycle and release the locking plates from grooves, meaning the locking mechanism can work without jamming.

Above: The cross-placed floating column hydraulic press is suitable for PCR and TBR tire applications
Below left: The design is more compact than previous iterations and makes tire production areas more efficient



Another advantage of this system is a reduction of energy requirements. The location of the squeezing cylinders offers further benefits – they are located away from the heat generation area, as well as being easily accessible for maintenance purposes.

Floating column technology also provides a cost reduction due to the elimination of unnecessary components.

Uzer Makina is not solely a tire curing press and mold producer – the company also strives to improve the efficiency of the entire curing process. Uzer Makina places great emphasis on digitization and designs its presses to be fully compatible with Industry 4.0 requirements such as SCADA, MES and ERP systems. In addition, the company conducts its own research and also works with leading industry companies to offer solutions such as mold preheating presses, mold-changing pickup cranes and RFID mold management systems – to help tire manufacturers achieve the most efficient curing processes. **tire**

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