

## Space-Efficient Machining Centers for the Large Volume Production of Automotive Components

### “UN-600/30V” and “UN-600/30H”

Yamazaki Mazak Corporation has announced the start of sales of two models, the vertical machining center “UN-600/30V” and the horizontal machining center “UN-600/30H”, which are designed for the mass-production of automotive components. Both of these machining centers feature extremely small floor space requirements as indicated by the “UN” (Ultra Narrow) and #30 taper spindles. These machines will be displayed during the “MAZAK MASS-PRODUCTION MACHINE FAIR” event held at the Minokamo World Technology Center on July 14<sup>th</sup> and 15<sup>th</sup>.

Production equipment used for the high-volume machining of automotive components require high productivity, high reliability, extremely convenient maintenance, and the ability to be integrated with space-efficient high performance automation.

The new vertical machining center UN-600/30V and the new horizontal machining center UN-600/30H are designed to provide unsurpassed performance in meeting the above important requirements. Additionally, the width of both machines is extremely small. The width of the UN-600/30V is just 695mm and can load a maximum workpiece diameter of 600 mm. This is made possible by interpolating the machine C- and Y- axes for the X-axis, which is programmed the same as a conventional machine X-axis. The UN-600/30H has the same maximum workpiece diameter of 600 mm, but has a substantially smaller machine width when compared to other horizontal machining centers with the same machining area. This is realized by the machine having a compound X-axis, half of the axis stroke is on the machine table and the other half is on the machine column. As a result, the UN-600/30V and the UN-600/30H can comprise production lines with extremely small floor space requirements.

New integral spindle/motors are used for faster acceleration/deceleration to provide unsurpassed high productivity. The linear guides and ball screws are isolated from the machining area to prevent any problems caused by the accumulation of machined chips. Items requiring frequent access, such as the lubrication and air inlets, are in one central location for convenient maintenance to ensure high machine reliability.

The new space-efficient UN-600/30V and UN-600/30H are designed to meet today’s requirements of manufacturers performing the mass-production of automotive components.



**Vertical machining center UN-600/30V    Horizontal machining center UN-600/30H**

Contact: Public Relations, Corporate Planning & Strategy Office, YAMAZAKI MAZAK CORPORATION.

TEL : : 0587-95-6849    <http://english.mazak.jp/>

Information in this press release is current at the time of publication.

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