



- ☆ Shortening the lead time by 5-plane machining (to reduce setup time)
 - ☆ Large diameter perfect circular cutting by using an end mill cutter
- Deviation from circular form: 0.024μm

Technical elements
Machine
NC control
CAD/CAM
New tool
Coolant
Machining method



Applicable field
Automobiles
Aircraft
Die/molds
Pneumatic and hydraulic devices
Construction equipment
Semiconducto

Machine and workpiece

Machine	MCR-B II (25 × 50) Double-column machining center
Main optional specifications	4,000 min ⁻¹ , AAC; 4st, ATC 100 tools
Workpiece	Frame (bulldozer gear box)
Material	Cast steel
Size	1,100 × 1,100 × 1,100mm