

C04 CNC Lathe with Automatic Loading and Unloading

Compact CNC turning with automated workpiece handling



MACHINE OVERVIEW

The C04 combines a CNC lathe with a turret-and-spindle vertical layout. The supplied standard-accessory list includes a feeding robot and conveyor. The machine is also specified for optional bar feeding, chip conveying, in-process measurement and workpiece flipping for two-sided machining.

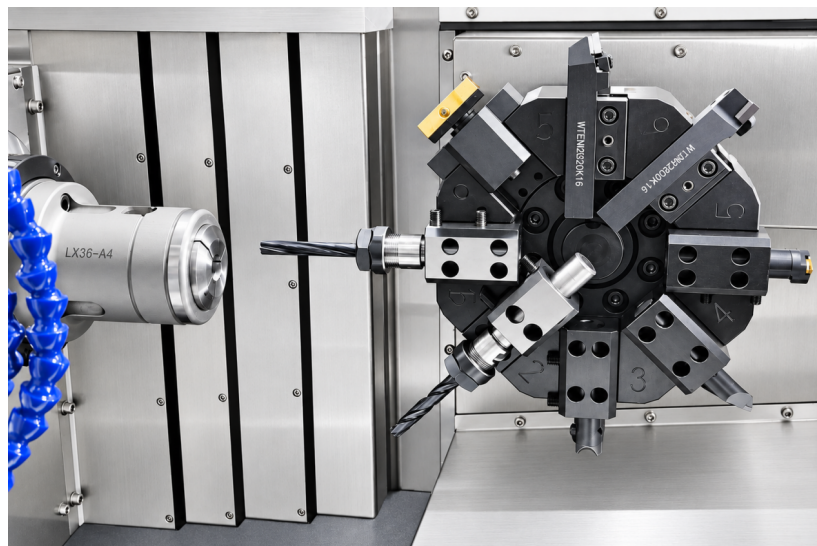
ROBOT UNLOADING CYCLE

8 s

The source states an 8-second robot unloading cycle. It does not define this as the complete machining cycle.

C04 machine exterior

TURRET AND SPINDLE AREA



Internal view of the spindle and 8-station turret

Technical Specifications

C04 CNC lathe - source specifications and listed configuration

Category	Parameter	Specification
Machining capacity	Maximum bar-stock diameter	34 mm
Machining capacity	Maximum machining diameter	200 mm; 85 mm with automatic loading/unloading
Machining capacity	Maximum machining length	120 mm; 50 mm with automatic loading/unloading
CNC system	Controller	Mitsubishi E80 / M80 (optional)
Spindle	Spindle nose	A2-4
Spindle	Spindle motor power	3.7 kW
Spindle	Spindle speed	60-4,000 rpm; 6,000 rpm optional
Turret	Toolholder height	20 mm
Turret	Number of stations	8
Axis travel	X-axis travel	145 mm
Axis travel	Z-axis travel	145 mm
Feed system	X-axis ball screw	3210
Feed system	Z-axis ball screw	3210
Structure	Bed layout	Turret and spindle in a vertical arrangement; one-piece cast bed
Guarding	Enclosure	Full internal guarding with sheet-metal outer enclosure
Machine size	Floor space	1,505 x 1,608 mm
Machine size	Overall height	2,145 mm
Machine size	Machine weight	2,200 kg

Standard Accessories and Optional Equipment

STANDARD ACCESSORIES • Standard circular support base* • Rotary cylinder x 1 • 8-station turret toolholder x 1 • Boring-bar holders x 2 • Tool clamping blocks x 8 • Coolant pump and coolant tank • Full sheet-metal enclosure • Automatic lubrication system • Feeding robot and conveyor	OPTIONAL EQUIPMENT • Automatic bar feeder • Automatic chip conveyor • In-process measurement • Automatic workpiece flipping mechanism for two-sided machining • Through-spindle coolant • Custom parts magazine and conveyor
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*The source term for the first standard accessory is unclear; verify its exact name. The ball-screw designation is reproduced as 3210 because no further dimensions are given. Optional items and operating limits should be confirmed for the ordered configuration.