

U630-5X

Gantry-type Machining Center

- One-piece high-quality casting bed
- Gantry-type structure design
- A/C axes support a maximum load
800kg(U630) / 500kg(U630T)
- The A/C axes adopts DD motor direct drive technology
A axis is driven by dual DD motors
- Germany high-torque pneumatic brakes
- Maximum travel up to 850mm



	U630-5X	U630T-5X
Table		
Max. workpiece diameter	Φ850 x 550 mm	Φ850 x 550 mm
Table Size	Φ630 x 500 mm	Φ630 mm
T slot [width x distance x number]	14 mm × 100 mm × 5	14 mm × 8
Max. load	800 kg	500 kg
Travel		
X/Y/Z travel	850 / 875 / 550 mm	850 / 875 / 550 mm
A/C Travel	+30° ~ -110° / ±360°	+30° ~ -110° / ±360°
Spindle		
Spindle taper	HSK A63	HSK T63
Spindle motor power	30 / 36 kW	30 / 36 kW
Spindle motor torque	100 / 120 Nm	100 / 120 Nm
Spindle speed	16,000 rpm	15,000 rpm
Spindle nose to table	160 ~ 710 mm	213 ~ 763 mm
Feed		
Rapid feed X/Y/Z	48/48/24 m/min [opt 24/24/24 m/min]	48/48/24 m/min [opt 24/24/24 m/min]
Rotation speed A/C	100 / 100 rpm	100 / 1000 rpm
Control System		
CNC control	Siemens / Heidenhain	Siemens / Heidenhain

Standard Configuration

- Built-in spindle HSK A63 16000rpm_30/36kW_100/120Nm (SIEMENS / HEIDENHAIN)
- Built-in spindle HSK T63 15000rpm_30/36kW_100/120Nm (SIEMENS / HEIDENHAIN) [U630T]
- Direct drive rotary table
- A axis with dual direct drive
- Y axis with dual direct drive
- Sealed linear scales on X/Y/Z axes
- Rotary encoder on A/C axes
- Full enclosed splash guard
- 60 pockets chain type tool changer, HSK A63
- Chain type chip conveyor
- High precision spindle water cooler
- Air-condition electrical cabinet
- Rigid tapping
- Automatic lubrication system
- Centralized automatic grease lubrication system
- Coolant system
- Air blast during cutting
- LED working lamp
- End of program light
- Electrical handwheel (MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- User manual (mechanical+electrical parts)
- Ethernet, CF card and USB interface

Optional Configuration

- Built-in spindle HSK A63 12,000rpm_37/44kW_130/156Nm (SIEMENS / HEIDENHAIN)
- Built-in spindle HSK A63 20000rpm_25/40kW_87/135Nm (SIEMENS / HEIDENHAIN)
- Built-in spindle HSK A63 20000rpm_30/36kW_72/86Nm (SIEMENS / HEIDENHAIN)
- 90 pockets tool changer, HSK A63 / HSK T63 (U630T)
- CTS coolant through spindle + ATS
- Oil cooling through ballscrew
- Workpiece probe
- Tool probe
- Oil mist collector
- Dynamic collision Mmonitoring (DCM)
- Kinematics
- Extra 200GB SSD program memory (only available on SIEMENS)