

DOUBLE COLUMN

Machining Center

- Robust motor
- Wide distance between columns

TDC DOUBLE COLUMN	TDC 2112	TDC 3116	TDC 4120
X Axis	2100 mm	3100 mm	4100 mm
Y Axis	1220 mm	1600 mm	2020 mm
Z Axis	600 mm (Opt. 800 mm)	1020 mm	1020 mm
Distance Between Two Columns	1400 mm	1700 mm	2100 mm
Table Size	2000x1200 mm	3000x1500 mm	4000x1800 mm
T Slot (No x Slot Width x Dist.)	7x22x150 mm	9x22x150 mm	9x22x150 mm
Max. Table Load (kg)	4000 kg	10000 kg	12000 kg
Spindle Taper	BBT50	BBT50	BBT50
Spindle Speed	10000 RPM	10000 RPM	10000 RPM
Spindle Motor	22 / 26 kW	22 / 26 kW	22 / 26 kW
Rapid Feed Rate	12 / 12 / 12 m/min	12 / 12 / 12 m/min	12 / 12 / 12 m/min
Cutting Feed Rate	1-10 m/min	1-10 m/min	1-10 m/min
Axis Motor (X, Y, Z)	9 kW / 4,5 kW / 4,5 kW	9 kW / 7 kW / 7 kW	9 kW / 7 kW / 7 kW
Tool Storage Capacity	Arm Type 24 Tools	Chain Type 40 Tools	Chain Type 40 Tools
Coolant Tank Capacity	300 L	800 L	800 L
Slide Ways	X, Y, Z Linear Roller Guideway	X, Y, Z Linear Roller Guideway	X, Y, Z Linear Roller Guideway
Controller	Mitsubishi (Ops. Fanuc)	Mitsubishi (Ops. Fanuc)	Mitsubishi (Ops. Fanuc)
Positioning Accuracy	±0,008/300 mm	±0,008/300 mm	±0,008/300 mm
Repeatability Accuracy	±0,004/300 mm	±0,004/300 mm	±0,004/300 mm
Body	Half Covered	Half Covered	Half Covered
Width	3640 mm	4340 mm	4740 mm
Length	5965 mm	8315 mm	10315 mm
Height	3372 mm	4390 mm	4390 mm
Weight (Approximate Value)	21000 kg	32000 kg	40000 kg



Double Column Machining Center

Dener, a pioneer in the machine tool industry, presents the Double Column CNC Machining Centre, the culmination of years of expertise and innovative approach that will take your production processes to the next level. This high performance machining centre not only increases efficiency, but also offers impeccable workpiece accuracy to meet the demands of modern manufacturing.



Control Unit

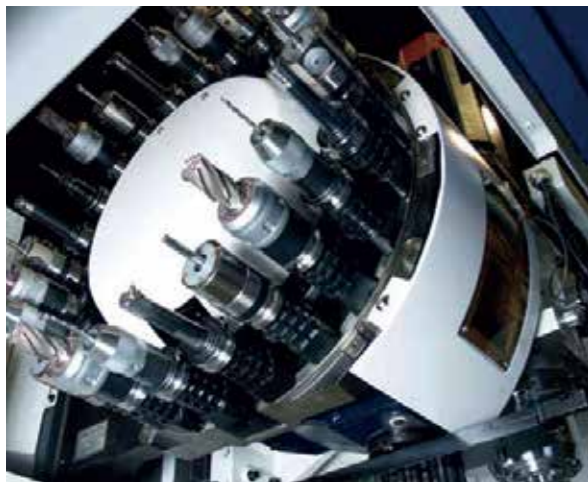
Mitsubishi control unit with simple and easy design module, user-friendly interface and ergonomic design.

- Advanced Control Capabilities
- Rapid Response Time
- Comprehensive Connectivity Options
- Reliability and Durability



Conveyor

Improve the productivity and cleanliness of your machining processes with the specially designed chip conveyor for the Dener double column CNC machining centre. This integrated solution ensures seamless chip evacuation, extends tool life and maintains a tidy work area, all of which contribute to an optimised machining experience.



Magazine

Experience fast and efficient tool changing with the advanced tool changing system of the Dener double column CNC machining centre. Designed to minimise downtime, maximise productivity and increase machining versatility, this system will streamline your operations and enable you to tackle multiple tasks with ease.



Linear Equipment

Experience unparalleled precision and accuracy in your machining operations with the integration of precision linear components in the Dener double column CNC machining centre. Designed to provide exceptional reliability, smooth motion and superior surface finish, these components are the foundation for achieving the highest quality results.



Coolant Tank

Increase the efficiency and precision of your machining processes with the dedicated coolant tank designed for the Dener double column CNC machining centre. This integrated cooling solution ensures consistent thermal management, extends tool life and maintains stable machining conditions, ultimately resulting in improved machining performance.



Direct Spindle

Bring unparalleled precision and efficiency to your machining operations with the state-of-the-art Direct Drive Spindle integrated into the Dener Double Column CNC Machining Centre. Designed to deliver exceptional torque, rapid acceleration and enhanced reliability, this advanced spindle technology will enable you to achieve remarkable machining results.

RPM	BBT-50	CTS
6.000 rpm	○	○
8.000 rpm	○	○
10.000 rpm	●	●

std. ●
opt. ○



Internal Tool Cooling

Designed to deliver precise and efficient cooling directly to the cutting edge, this advanced system extends tool life, minimizes thermal stress, and ensures consistently high machining performance.

Tool Cooling System



Enhance machining accuracy and extend tool life with the advanced spindle cooling system integrated into Dener double column CNC machining centers.