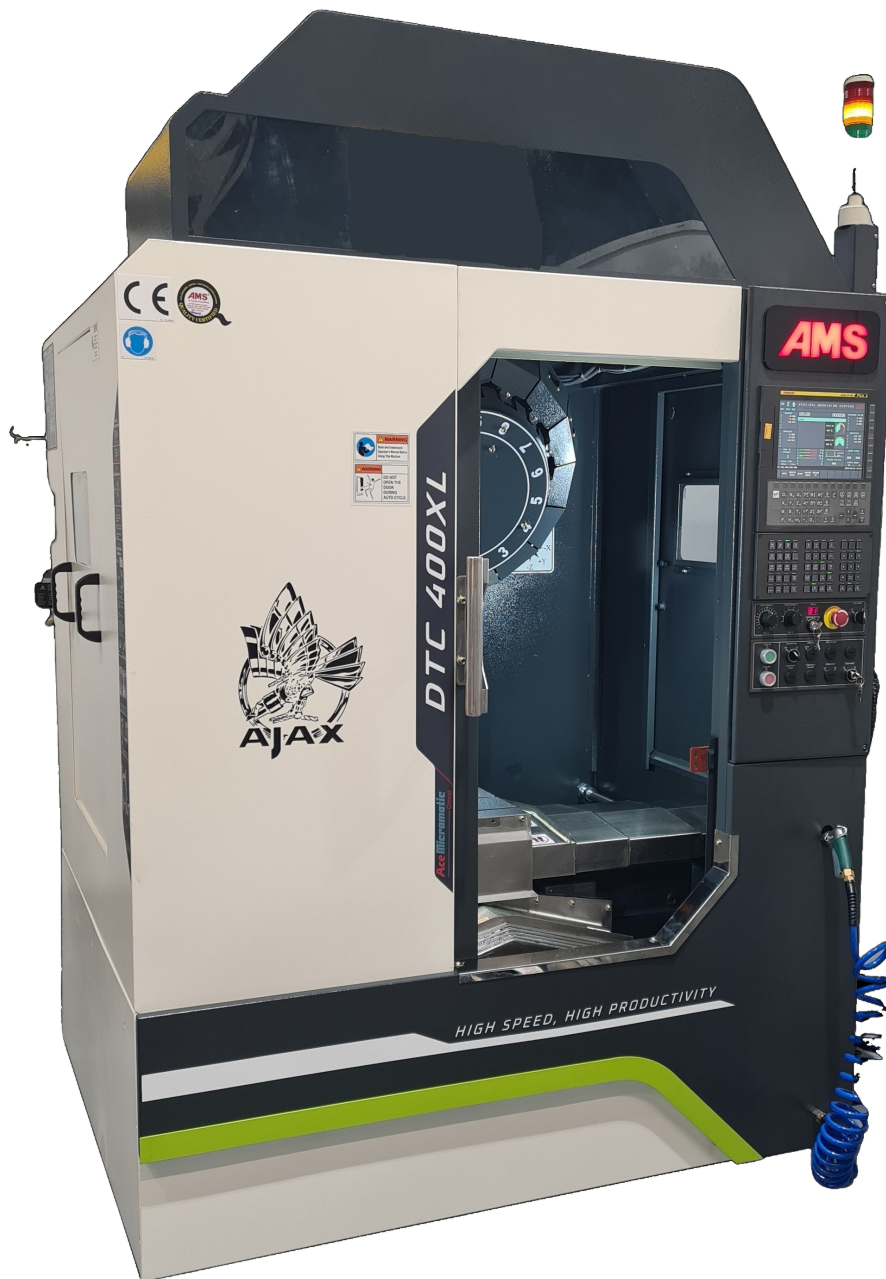




AJAX DRILL TAP MACHINING CENTRES

AJDTC 350XL/400/400LXL/500LXL



Machine Tool Exporters to the World since 1940

AJAX DRILL TAP MACHINING CENTRE

**AJDTC 350XL/400
/400LXL/500LXL**

The AJDTC machines are especially designed for high speed drill tap applications along with milling capabilities. Drill Tap Centers offer rigid structure & compact footprint, well suited to meet the customer requirements. DTC machines designed to accommodate a wide range of work envelopes & complex geometries without losing out on cycle time DTC machines, specifically are put through a machining test which ensures the best accuracy while axis change over and surface finish on the component.

The machine bed is made with best quality cast iron and is stress relieved for better thermal stability. The machine bed is optimized using FEM methodology to ensure best structural rigidity & minimal footprint to save shop floor space. High rigidity of column is achieved through heavy ribbing of the casting and creating A-shape column base of extra stiffness. Table is specially designed for superior cutting performance with minimum inertia & maximum rigidity. The internal ribbing makes it suitable for large fixtures Finite element analysis of the base ensures optimised structural rigidity and torsional stiffness for ultimate performance characteristic and consistent results.

Key Features

- Compact Footprint
- Faster Tool Change
- Higher Rapids
- Higher Cutting Capabilities
- Ability to Machine Aluminum & Cast Iron



Automatic Tool Changer

16 tool pocket tilting type ATC is standard for DTC 400XL and DTC 400L-XL

Chip Conveyor

Removing chips is very important in terms of productivity and environmental protection. AMS provides various chip handling systems for better work environment. Coil conveyor is also offered for cast iron & steel applications.

Coolant System

Through coolant increases tool life, allows higher cutting speeds, and clears chips during deep hole drilling. Two systems are available.

1. CTS with Grundfos Pump (21 bar pressure).
 2. CTS with Wanner Pump (50 bar pressure).
- Coolant tanks are provided with large capacity chip tray which are trouble free, convenient and easy to maintain.

High Speed Rigid Spindles

Wide variety of high speed & high power spindle excellent ability in drilling and tapping

- The spindle is supported on precise angular contact ball bearings, Grease lubricated for life
- Cartridge type spindle design ensures high rigidity & accuracy, easy to maintain
- Designed for drill and tap machining as well as for demanding metal removal by milling. Designed to take both axial and radial forces
- Taper as well as face contacting simultaneously in BBT-30.

MODEL	AJDC 350XL	AJDC 400	AJDC 400L XL	AJDC 500L XL
TRAVEL				
X axis (mm)	350	500	700	1000
Y axis (mm)	400	400	400	500
Z axis (mm)	320	320	320	320
Dist. from Spindle face to table top (mm)	150 - 470	120 - 440	140 - 460	100 - 420
TABLE				
Table size (mm)	600 x 400	750 x 400	850 x 400	1200 x 500
Max. load on Table (kg)	250	300	300	300
Table Height from floor (mm)	885	885	850	970
SPINDLE				
Tool shank type Std./Opt.	BT - 30 / BBT - 30	BT - 30 / BBT - 30	BT - 30 / BBT - 30	BT - 30 / BBT - 30
Spindle speed Std. (rpm)	10000 (DD)	10000 (DD)	10000 (DD)	10000 (DD) Spindle
Spindle speed Opt. (rpm)	Upto 24000	Upto 24000	Upto 24000	Upto 24000
Spindle power Std. (kW)	9 / 7.5	9 / 7.5	9 / 7.5	9 / 7.5
FEED				
Cutting feed (mm/min)	1 - 10000	1 - 10000	1 - 10000	1 - 10000
Rapid traverse (m/min)	60 / 60 / 48	60 / 60 / 48	50 / 50 / 48	50 / 50 / 48
AUTOMATIC TOOL CHANGER				
No. of tools Std./Opt.	16	16 / 24	16 / 24	16 / 24
Tool diameter (mm)	80	80	80	80
Tool weight Max. (kg)	2.5	2.5	2.5	2.5
Tool length Max. (mm)	200	200	200	200
Tool change system	Disc Armless	Disc Armless	Disc Armless	Disc Armless
Pull stud type	MAS - 403	MAS - 403	MAS - 403	MAS - 403
Accuracy (As per ISO 230-2)				
Positioning accuracy (mm)	0.010	0.010	0.010	0.010
Repeatability (mm)	±0.003	±0.003	±0.003	±0.003
CNC System	Fanuc / Siemens / Mitsubishi			
Machine weight with coolant tank (kg)	2700	3270	3520	3400
Machine Width w x d x h (mm)	1100x2600x2500	1600x2400x2400	2000x2800x2400	2550x3100x2450
SMART FEATURES				
• Smart probing solution				• Machine maintenance pro (MMP)
• Real time OEE monitoring				• Smart adoptive feed control
• Tool load monitoring system (TLMS)				• Smart acceleration / Deceleration
• Sister tool programming				• Collision monitoring solutions
• Program access control				• Renishaw wireless spindle probe and wireless 3D tool setter
• Production tracking & machine monitoring software				

TECHNICAL SPECIFICATIONS



Work & Tool Offset



Touch Probe

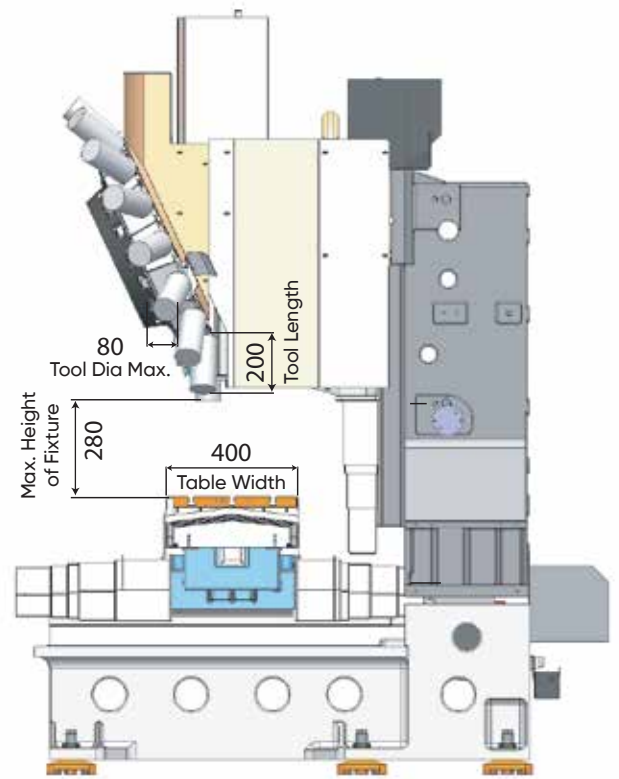
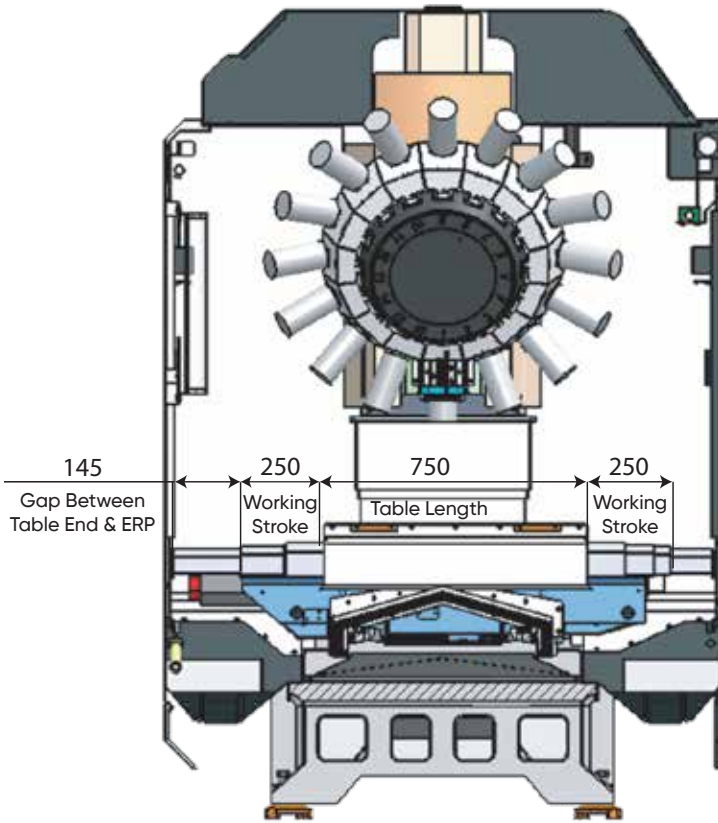


Tool Setter



Wireless Tool Breakage Detection

MACHINE RANGE DIAGRAM



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