

DTC500XLL: Machine Overview

High Speed CNC Drill Tap Machining Center

24 Pocket Disc Type Magazine

12,000RPM High Speed Spindle

Optional 20,000RPM High Speed Spindle

Big Plus Dual Contact BBT-30

FANUC OiMF with Fine Mould Package

AICCI with 400 Block Look Ahead

Linear Roller Guide Way System

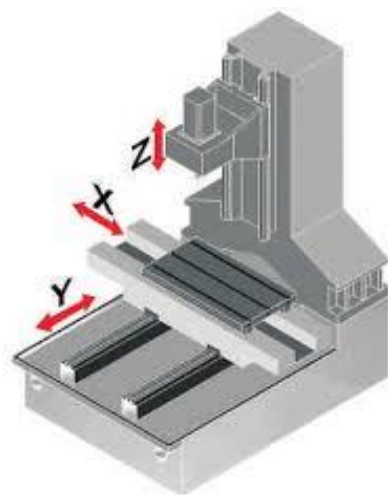
Large Capacity Rear Access Chip Tray

Automatic Pallet Changers Available

Factory Integrated Rotary Table Options

AMS[®]

a **JTEKT** Strategic Alliance Company



DTC500XLL: Machine Design

The DTCXL and XLL Machines are designed for drill tap applications as well as full milling capabilities. These compact machines are designed from the ground up to shave cycle times through both high speed and accurate machining. The added capability of the large capacity (24) pocket tool changer allows for the DTC line to handle applications traditionally pushed off to a larger style machine.



The DTC Line of Drill Tap Machining Centers features the FANUC OiMF CNC Control. AICCI with 400 block look ahead is built into the base control package. This standardly equipped control package helps to unlock the full potential of the high speed machine design.

Equip your machine with a Factory Linear Pallet Change or Rotary Pallet Changer feature to further enhance the productivity gains.



Available with factory integrated rotary table and hydraulic clamping solutions. Fully tooled up solutions are also available upon review for a complete automated package.



Machine Envelope and Travels

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|-----------------------------------|--------------------|
| X Axis Travel | 39.4" (1000 mm) |
| Y Axis Travel | 19.7" (500 mm) |
| Z Axis Travel | 12.6" (320 mm) |
| Spindle Nose to Top of Pallet | 3.94" (100mm) |
| Rapid Traverses (X, Y and Z Axes) | 1890ipm (48 m/min) |

Machine Table

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|---------------------------------|-------------------------------|
| Table Size | 47.2" x 19.7" (1200 x 500 mm) |
| Maximum Work Load on the Pallet | 660 lbs. (300 kg) |
| Pallet Height from Floor | 38.7" (985 mm) |

Spindle Specifications

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| Spindle Speed | 250 ~ 20,000 RPM |
| Spindle Ceramic Bearing Inside Diameter | 50mm |
| Spindle Drive Motor | 10HP |

Tooling and Magazine

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| Spindle Nose Taper | BBT30 |
| Standard Tool Storage Capacity | Twenty Four (24) |
| Maximum Tool Size (Diameter x Length) | (Diameter x Length) ϕ 3.14" x 7.87" (ϕ 80 x 200 mm) |
| Maximum Tool Weight | 5.5 lbs. (2.5 kg) |
| Chip to Chip Change Cycle Time | 1.8 sec |
| Tool Selection | Bi-Directional Random |

Machine Dimensions and Requirements

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| Power Capacity (208V) | 20 kVA |
| Standard Floor Space | Refer to Layout |
| Standard Net Weight | 7940 lbs. (3,600 kg) |

Machine Base Package

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| 20,000 RPM – 10HP Direct Drive Spindle | STD |
| Big Plus Spindle Modification | STD |
| FANUC OiMF Control w/ 10.4" Screen | STD |
| 24 Tool Magazine Servo Driven Disc Magazine | STD |
| Hand Held Coolant Gun | STD |
| AICCI with 400 Block Look Ahead | STD |
| CE Specification | STD |
| Chip Flushing on the Base | STD |
| Coolant Tank with Large Capacity Chip Tray | STD |
| Heavy Duty Linear Roller Guide Design | STD |
| Front Auto Door w/ Omron Safety Light Curtain | STD |
| Machine Work Light | STD |



Machine Options Guide**Machine APC Options**

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| Linear Type Automatic Pallet Changer | \$ | 14,200 |
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Coolant and Conveyor Options

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| 725PSI High Pressure CTS with Cyclonic Filtration and Mist Collector | \$ | 19,800 |
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| Heavy Duty Scraper Conveyor with Drum Filter | \$ | 12,200 |
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| Heavy Duty Dual Belt Conveyor with Drum Filter | \$ | 14,800 |
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Control Options

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| FANUC Fine Mould Package | | STD |
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| AICCI with 400 Block Look Ahead | | STD |
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| Tool Life Management | | STD |
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| 2MB Program Memory | | STD |
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Machine Accessibility Options

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| 125mm Riser (225mm – 545mm Travel) | \$ | STD |
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Additional Options

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| 4 th Axis Machine Prep Kit | \$ | STD |
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| 2 Sets Additional M Codes | \$ | STD |
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| Nikken 180LFA Rotary Table, TAT Support and Factory Integration | \$ | 18,600 |
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