

Machine Name : Multi-axis through-spindle machine

Brand : TORNOS

**Machine Model : MultiSwitzerland
6×16-13372**

Stock No. : 89356

Ex-factory Date : 2016



Main Technical Parameters:

"Technical Parameters" :

The machining diameter range of bar stock: 4-14 mm

The maximum machining length of the part on spindle side: 40mm

Maximum leftover material length: 70mm

Maximum spindle speed: 8,000 rpm

spindle motor power: 5.6kW

spindle torque: 7.5 Nm

The maximum speed of the secondary spindle is 8,000 rpm

The power of the Subspindle motor is 5 kW

Torque of the Subspindle motor: 6 Nm

The Z-axis travel of the 6 spindle is 50mm

The Z-axis travel of the sub-Spindle is 150 mm

The X-axis travel of the transverse tool holder slide on spindle side is 40 mm

Horizontal slide Y-axis travel (black model machine tool) : 30 mm

The number of sliding Worktables for the machining lateral tool holder at the back end of the secondary spindle side: 1

The X-axis travel of the machining lateral tool holder slide Worktable at the back end of the secondary spindle side is 75mm

**** Scheming Information ****

273-0002 Basic machine tool MultiSwitzerland 6x14

It features 6 electric spindle with a maximum power of 5.5 kilowatts and a maximum rotational speed of 8,000 resolutions per minute

spindle machining capacity is 14 millimeters, and the Z-axis travel is 50 millimeters (the maximum machining part length is 40 millimeters).

Six slides, with an X-axis travel of 40 millimeters

- 1 reverse operation slide Worktable with a travel of 75 millimeters

The secondary spindle with an integrated motor has a power of 6 kilowatts, a maximum speed of 8,000 resolutions per minute, and a travel of 150 millimeters

FANUC 30i CNC CNC System

An integrated computer with a 17-inch screen

-TB DECO Programming CNC System (DCS version) (needs to be paired with 3001)

1.00 units

273-0054 Integrated X-Y CNC axis, installation position 4, travel ± 15 mm, TB-DECO program provided (incompatible with xxxx)

1.00 units

273-0100 parts separator and pneumatic slide, suiWorktable for parts with a maximum length of 40 millimeters, with a maximum slide size of 70 millimeters

1.00 units

273-0200 fixed secondary clamping device, installed at position 1 (needs to be matched with 0830 and 1200)

1.00 units

273-0400 status indicator lighthouse

1.00 units

273-0503 English Operating Manual

1.00 copies

The language of the CNC CNC System from 273 to 0703 is English

1.00 sets

The voltage of the 273-0751 line is 380-420 volts, 50 Hertz, with an error of $\pm 5\%$

1.00 sets

Device

273-0830 One secondary clamping chuck, installed on the optional accessory 0200 (please specify the specification at the time of ordering)

2.00 pieces

273-0840 6 clamping sleeve sets, specification 15 (12-14)

Group 1.00

273-0849 6 reduced-diameter sleeve sets, specification 15 (12-14)

Group 1.00

273-1010 lathe tool holder, base specification 16×16

5.00

273-1011 Additional lathe tool holder (16×16) (Compatible with 1010) (Incompatible with 1200)

1.00

273-1120 cutting tools seat, installed at position 6

1.00

273-1200 Two 025 type end unit brackets (incompatible with 0300, 1011, 1012, and 1240)

5.00

273-1205 high-frequency spindle clamping flange, specification 25mm (to be used in conjunction with function 1200+2120)

1.00

273-1220 Fixed end machining drill chuck, specification 25, with ESX-16 chuck, machining capacity 10mm, installed at position 2-5 (requires 1200)

5.00

Reverse operation of the tool holder bracket 273-1300

1.00

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273-1310 reverse operation tool holder, suiWorktable for 16×16 cutting Tool (compatible with 1300)

1.00

273-1400 reverse operation double drill chuck, specification 6mm (compatible with 1310 or 1450) (incompatible with 1330)

1.00

273-1470 Reverse operation (COP) right-angle high-frequency spindle transverse bracket (requires 1300) (incompatible with 1310 and 1450)

1.00

273-2003 Drilling or polygon machining accessory electrical interface (DCS version), 2 accessory installation positions 3-5 (incompatible with 0001)

1.00

273-2020 horizontal drilling accessory, transmission ratio 2:1, maximum speed 8000 resolutions per minute, maximum torque 4.4 N · m, installed at position 2-5 Centerpass coolant (compatible with 2001, 2002, 2003 or 2004) (incompatible with 1010, 1020, 1050, 2010, 2030, 2040) (incompatible with 2300, 2500)

1.00

Four high-frequency drilling accessory adapter devices from 273 to 2100 (incompatible with 0752, 0753, and 0755)

1.00

273-2110 high-frequency spindle drive unit (compatible with 2100)

3.00 pieces

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273-2120 high-frequency spindle, with a rotational speed of 5000-60,000 resolutions per minute and a torque of 0.03 N · m (compatible with 1050, 1205 or 1450) (compatible with 2110)

2.00 pieces

273-2130 90° high-frequency spindle, rotational speed 3300-13300 resolutions per minute, torque 0.04 N · m (requires 1470) (requires 2110)

1.00

273-3001 container, electrical cabinet, coolant Water tank (1100 liters), coolant pump (100 liters per minute, 4 bar), 50-MIKRON paper filtration CNC System, 5-MIKRON static pressure circuit filtration CNC System, static pressure center, double-loop oil-water heat exchanger (water supply required), bar feeding machine (1.5 meters in length, machining diameter 4-14 millimeters) Pressure: 40-175 bar, adjusted according to diameter

1.00 sets

273-3200 Chip conveyor with conveyor belt and liquid collection Water tank pump (incompatible with 3100)

1.00 units

Additional filter paper rolls for the 273-3500 filtration device

Volume 2.00

Replacement of filter element (5 MIKRONs) for 273-3510 static pressure subassembly filter

2.00 pieces

Replacement of filter element (20 MIKRONs) for 273-3520 static pressure subassembly safety filter

2.00 pieces

273-4010 Middex WK2 electric Tool breakage Detector (up to 1 Tool can be detected at each position, with detection positions 1-5) (4010, 4020: up to 3 detectors per machine tool)

2.00 pieces

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273-4610 multi-station automatic lathe (MultiSwitzerland) Tool pre-adjustment and adaptation device, suiWorktable for Multi Tool pre-adjuster

1.00

273-5200 Tool Management CNC System

1.00 sets

273-7651 main operation C-axis function, 6 spindle, increment 0.001 degree

1.00 sets

273-7652 reverse operation C-axis function, 1 spindle, increment 0.001 degree

1.00 sets

Specialized development

273-9510 7 large-sized clamping chucks

1.00 sets

273-9511 Six enlarged size clamping sleeve groups

Group 1.00

273-9512 Six enlarged size and reduced diameter sleeve sets

Group 1.00

273-9513 Two large-sized picking chucks

2.00 pieces

273-9514 high pressure pump, pressure 80 bar, flow rate 34 liters per minute

1.00 units

273-9515 Extended coated parts removal slide

1.00

273-9516 Double transverse drilling/mill accessory

1.00

