

Taikan
DRILLING & TAPPING
CENTER
SERIES

**HIGH-END INTELLIGENT
EQUIPMENT INTEGRATED
SOLUTIONS SERVICE PROVIDER**

HIGH SPEED DRILLING

AND TAPPING CENTER 40000SETS MARKET APPLICATION

HIGH EFFICIENT MACHINING/TOOL CHANGE ONLY 1S

Taikan

T-500B



GOOD STABILITY

Extra big span with six support feet, excellent mechanical property, ensure good stability during machining.

QUICK RESPONSE

Three axes adopt topological optimization design, improve modular structure and drive system rigidity, decrease movement parts inertia, realize each axis high dynamic response.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	620x400mm
Spindle taper	BT-30
Spindle speed	50-20000rpm (24000rpm)
Spindle power	5.5/3.7KW
X/Y/Z travel	500/400/320(21T)/310(26T)
X/Y/Z rapid traverse	48/48/48
Precision	0.01
Repeat precision	0.006
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-500B
Working table size	620x400mm
Travel X axis	500mm
Travel Y axis	400mm
Travel Z axis	320(21T)/310(26T)mm
T slot Dimensions	3-14x120mm
Distance from spindle nose to working table	160-480(21T)mm, 160-470(26T)mm
Spindle center to body surface distance	445mm
Spindle speed	50-20000rpm (24000rpm)
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid traverse rate	48m/min
Y axis rapid traverse rate	48m/min
Z axis rapid traverse rate	48m/min
Cutting speed	1-30000mm/min
Three axes motor power	1.5/1.5/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	145L
Air pressure demand	0.5-0.8Mpa
Total power consumption	12Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	250kg
Machine weight (estimated)	3100kg
Outline dimensions	1600x2600x2300mm
Tool magazine capacity	21 (26)

Agent

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T-500C



EQUIP WITH NEW TECHNOLOGY ELETRIC SPINDLE

Electric spindle break the combination of traditional mechanical spindle and motor. Electric spindle has the advantage of quick response, acceleration and deceleration within 0.3s.

LOWER WEIGHT STRUCTURE

Electric spindle makes the spindle box compact, lower weight, reduce inertia and inprove response speed.

PERFECT MACHINING SURFACE

High precision eletric spindle with high speed and quick response, make T-500C better machining surface comparing to other brand.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	620x400mm
Spindle taper	BT-30
Spindle speed	50-24000rp
Spindle power	9.0*7.5KW
X/Y/Z travel	500/400/320(21T)/310(26T)
X/Y/Z rapid traverse	48/48/48
Precision	0.01
Repeat precision	0.006
Tool magazine	21ea (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-500C
Working table size	620x400mm
Travel X axis	500mm
Travel Y axis	400mm
Travel Z axis	320(21T)/310(26T)mm
T slot Dimensions	3-14x120mm
Distance from spindle nose to working table	160-480(21T)mm, 160-470(26T)mm
Spindle center to body surface distance	445mm
Spindle speed	50-24000rpm
Spindle taper	BT-30#
Spindle power	7.5KW
X axis rapid tranerse rate	48m/min
Y axis rapid tranerse rate	48m/min
Z axis rapid tranerse rate	48m/min
Cutting speed	1-30000mm/min
Three axes motor power	1.5/1.5/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	145L
Air pressure demand	0.5-0.8Mpa
Total power consumption	12Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	250kg
Machine weight (estimated)	3050kg
Outline dimensions	1600x2600x2300mm
Tool magazine capacity	21 (26)

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T-530



DEVELOP BASED ON MARKET REQUIREMENT

Deeply study stainless steel material and machining process, integrate with several year technology, to develop the new drilling and tapping machine specially for stainless steel machining.

NEW SERVO TOOL MAGAZINE

Self-developed Taikan 21T new servo tool magazine, adopt high performance servo motor, realize tool changing fast and accurately. Innovate heavy and light tool double mode switch, improve tool change and reliability, T to T only is 1s.

OIL MIST COLLECTION DESIGN

New inner/outer cover protection and electric box design, prevent the cutting oil mist damage to functional parts and electric parts.

PERFECT CUSTOMER SUPPORTING SERVICE

Establish special team to study and analyze the cutting fluid, tool, parameter, process and other machining factors, to establish entire stainless steel machining data.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	620x320mm
Spindle taper	BT-30
Spindle speed	50-20000rpm
Spindle power	5.5/3.7KW
X/Y/Z travel	500/300+100(loading and unloading travel) 300(21T) 290(26T)
X/Y/Z rapid traverse	48/48/48
Precision	0.01
Repeat precision	0.006
Tool magazine	21ea (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-530
Working table size	620x320mm
Travel X axis	500mm
Travel Y axis	300+100mm (loading and unloading travel)
Travel Z axis	320(21T)/290(26T)mm
T slot Dimensions	3-14x120mm
Distance from spindle nose to working table	185-485(21T)mm, 185-475(26T)mm
Spindle center to body surface distance	350mm
Spindle speed	50-20000rpm
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid traverse rate	48m/min
Y axis rapid traverse rate	48m/min
Z axis rapid traverse rate	48m/min
Cutting speed	1-30000mm/min
Three axes motor power	1.5/1.5/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	160L
Air pressure demand	0.5-0.8Mpa
Total power consumption	12Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	250kg
Machine weight (estimated)	2860kg
Outline dimensions	1600x2300x2410mm
Tool magazine capacity	21 (26)

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T-600



X TRAVEL 600mm

Extend machining range to meet large components machining.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	700x400mm
Spindle taper	BT-30
Spindle speed	50-20000rpm
Spindle power	5.5/3.7KW
X/Y/Z travel	600/390/340(21T)/330(26T)
X/Y/Z rapid traverse	60/60/60
Precision	0.01
Repeat precision	0.006
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-600
Working table size	700x400mm
Travel X axis	600mm
Travel Y axis	390mm
Travel Z axis	340(21T)/330(26T)mm
T slot Dimensions	3-18x125mm
Distance from spindle nose to working table	180-520(21T)mm, 180-510(26T)mm
Spindle center to body surface distance	445mm
Spindle speed	50-20000rpm
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid traverse rate	60m/min
Y axis rapid traverse rate	60m/min
Z axis rapid traverse rate	0m/min
Cutting speed	1-20000mm/min
Three axes motor power	1.5/1.5/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	125L
Air pressure demand	0.5-0.8Mpa
Total power consumption	12Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	250kg
Machine weight (estimated)	3100kg
Outline dimensions	1890x2600x2500mm
Tool magazine capacity	21 (26)

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T-520-S



CAM MECHANISM +THREE-PIECE

Clutch teeth located double station exchange worktable, time of exchange is 4.5s. New servo tool magazine, 26T is optional.

21T time of tool changing is 1s, and it is 1.5s for 26T

X/Y axis is simultaneous with locating of additional axis and tool changing.

eliminating invalid actions and reducing non-processing time to realize continuous machining.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	620x1000mm(double side)
Spindle taper	BT-30
Spindle speed	50-20000rpm
Spindle power	5.5/3.7KW
X/Y/Z travel	520/340/350(21T)/340(26T)
X/Y/Z rapid traverse	36/36/48
Precision	0.01
Repeat precision	0.006
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-520-S
Working table size	650x1000mm(double side)
Travel X axis	520mm
Travel Y axis	340mm
Travel Z axis	350(21T)/340(26T)mm
T slot Dimensions	3-14x120mm (Two sides)
Distance from spindle nose to working table	205-555(21T)mm, 205-546(26T)mm
Spindle center to body surface distance	445mm
Spindle speed	50-20000rpm
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid tranerse rate	36m/min
Y axis rapid tranerse rate	36m/min
Z axis rapid tranerse rate	48m/min
Cutting speed	1-30000mm/min
Three axes motor power	2/2/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	145L
Air pressure demand	0.5-0.8Mpa
Total power consumption	15Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	200kg (Single side)
Machine weight (estimated)	5200kg
Outline dimensions	3200x2085x2615mm
Tool magazine capacity	21 (26)

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T-700B



X TRAVEL 700mm

Extend machining range to meet large components machining.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	800x450mm
Spindle taper	BT-30
Spindle speed	50-20000rpm (24000rpm)
Spindle power	5.5/3.7KW
X/Y/Z travel	700/450/300(21T)/290(26T)
X/Y/Z rapid traverse	60/60/60
Precision	0.01
Repeat precision	0.006
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-700B
Working table size	800x450mm
Travel X axis	700mm
Travel Y axis	450mm
Travel Z axis	300(21T)/290(26T)mm
T slot Dimensions	3-18x125mm
Distance from spindle nose to working table	150-450(21T)mm, 150-440(26T)mm
Spindle center to body surface distance	505mm
Spindle speed	50-20000rpm (24000rpm)
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid traverse rate	60m/min
Y axis rapid traverse rate	60m/min
Z axis rapid traverse rate	60m/min
Cutting speed	1-20000mm/min
Three axes motor power	1.5/2.2/2.2KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	145L
Air pressure demand	0.5-0.8Mpa
Total power consumption	15Kva
Positioning accuracy	0.01mm
Repeat accuracy	0.006mm
Max. load	250kg
Machine weight (estimated)	3300kg
Outline dimensions	2050x2570x2340mm
Tool magazine capacity	21 (26)

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T-1000



X AXIS TRAVEL 1050mm

Extire machine use HT250 gray cast iron, high intensity and good anti abrasion.

Wider and longer heavy base, lower center of gravity, anti toque and reduce vibration, and move vibration to non cutting area.

Big span to disperse gravity and machining load, good for rough machining.

Large travel to meet big components machining requirement.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	1100x510mm
Spindle taper	BT-30
Spindle speed	50-20000rpm (24000rpm)
Spindle power	5.5/3.7KW
X/Y/Z travel	1050/500/340(21T)/330(26T)
X/Y/Z rapid traverse	48/48/36
Precision	0.012
Repeat precision	0.008
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-1000
Working table size	1100x510mm
Travel X axis	1050mm
Travel Y axis	500mm
Travel Z axis	340(21T)/330(26T)mm
T slot Dimensions	3-14x125mm
Dsistance from spindle nose to working table	150-490(21T)mm, 150-480(26T)mm
Spindle center to body surface distance	572mm
Spindle speed	50-20000rpm (24000rpm)
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid tranerse rate	48m/min
Y axis rapid tranerse rate	48m/min
Z axis rapid tranerse rate	36m/min
Cutting speed	1-20000mm/min
Three axes motor power	2.2/2.2/3.0KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	170L
Air pressure demand	0.5-0.8Mpa
Total power consumption	15Kva
Positioning accuracy	0.012mm
Repeat accuracy	0.008mm
Max. load	300kg
Machine weight (estimated)	4510kg
Outline dimensions	2480x2850x2550mm
Tool magazine capacity	21 (26)

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T-1200



MEDIUM AND SMALL BASE

Station communication box in 5G industries, radiator, filter device, vehicle terminal, intelligent locks, cell phone manufacturing, tablet computer and cavity, board, disk, shells processing with high efficient. Broadening processing fields of the traditional drilling and tapping machine.

PARAMETER TABLE

DESCRIPTION	SPECIFICATION
Working table size	1300x600mm
Spindle taper	BT-30
Spindle speed	50-12000rpm
Spindle power	5.5/3.7KW
X/Y/Z travel	1200/650/400mm
X/Y/Z rapid traverse	40/48/36
Precision	0.015
Repeat precision	0.01
Tool magazine	21 (26)
Control	Mitsubishi

PARAMETER TABLE

ITEMS	T-1200
Working table size	1300x600mm
Travel X axis	1200mm
Travel Y axis	650mm
Travel Z axis	400mm
T slot Dimensions	5-18x125mm
Distance from spindle nose to working table	150-550mm
Spindle center to body surface distance	727mm
Spindle speed	50-12000rpm
Spindle taper	BT-30#
Spindle power	5.5/3.7KW
X axis rapid traverse rate	40m/min
Y axis rapid traverse rate	48m/min
Z axis rapid traverse rate	36m/min
Cutting speed	1-20000mm/min
Three axes motor power	2.2/2.2/3.0KW
Max. tool weight	3kg
Tool length	200mm
The max diameter	60/80mm
Tank capacity	330L
Air pressure demand	0.5-0.8Mpa
Total power consumption	15Kva
Positioning accuracy	0.015mm
Repeat accuracy	0.01mm
Max. load	800kg
Machine weight (estimated)	6000kg
Outline dimensions	2960x3430x2680mm
Tool magazine capacity	26

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