



VERTICAL MACHINING CENTERS

Truning the world with Trust and Precision

Tool
Room



Drill
Tap &



Heavy
Duty



www.atcgroup.com



TOOLROOM



Carousel Type ATC.
Engraving applicable
Ease of Operation



STANDARD CONFIGURATION

3.7KW mechanical spindle
Max. 10000 rpm
BT30
Carousel type ATC.
10 tools
Max. Ø40mm tools
600*500mm work area
230mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMC T600

Specification

*The images and the specifications of the machine in this offer are indicative. The data is subject to change without prior notice.

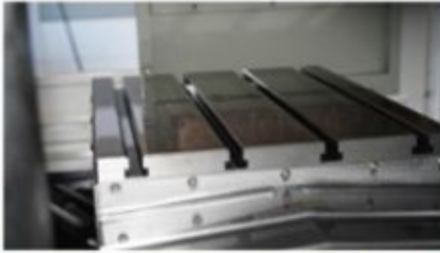
SPINDLE	
Spindle Nose Taper	BT30
Speed	10000 RPM
Spindle Motor Power	3.7 KW
Collet Type	Pneumatic Clamping
Drive System	Belt drive
Bearing Lubrication	Grease Packed
TOOLS CHANGER	
Type	Carousel
Capacity	10-station
Tool Shank	BT30 (10pcs tool shanks included)
Max Tool Diameter	40mm
CNC CONTROL	
Controller	SmartBrain
POWER SUPPLY	
Total Power	7.5KW
Voltage	AC 380V 50Hz
Air pressure	0.5~0.6Mpa

TRAVELS	
X-Axis	600mm
Y-Axis	550mm
Z-Axis	230mm
Guide Ways	Linear
Rapids Speed	Up to 30m/min
Spindle Nose to Table	100-330mm
Positional Accuracy	±0.01mm
Repeatability	±0.01mm
Surface Roughness	Ra 3.2

TABLE	
Work Area	600mm*500mm
T-Slot Width	10mm
T-Slot Center Distance	75mm
Number of Std T-Slots	6 sets
Max Weight on Table	200kg

DIMENSIONS	
Dimensions (L/W/H)	2500*1670*2200 mm
Weight	2900 kg

Feature



Size 600*500mm T-slot table for handling the workpiece up to 200kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical spindle 3.7 kW, 10000 RPM motor with BT30 shank, equipped with 10-station linear pneumatic tool changer, which can change tools more efficiently.



Equipped with 10-station carousel type tools changer, with metal clamping to offer high strength, heat resistance, wear resistance.



Smartlathe CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



4th-Axis



7.5kW Electric spindle



Tool Setter



Customized Fixture



SYNTEC controller



BT40 spindle



STANDARD CONFIGURATION

3.7KW mechanical spindle
Max. 10000 rpm
BT30
Carousel type ATC.
10 tools
Max. Ø50mm tools
700*600mm work area
350mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMC T700

Specification

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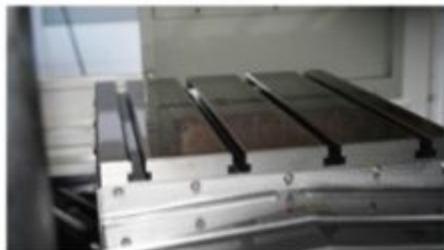
SPINDLE	
Spindle Nose Taper	BT30
Speed	10000 RPM
Spindle Motor Power	3.7 KW
Collet Type	Pneumatic Clamping
Drive System	Belt drive
Bearing Lubrication	Grease Packed
TOOLS CHANGER	
Type	Carousel
Capacity	10-station
Tool Shank	BT30 (10pcs tool shanks included)
Max Tool Diameter	50mm
CNC CONTROL	
Controller	SmartBrain
POWER SUPPLY	
Total Power	7.6KW
Voltage	AC 380V 50Hz
Air pressure	0.5~0.6Mpa

TRAVELS	
X-Axis	700mm
Y-Axis	600mm
Z-Axis	350mm
Guide Ways	Linear
Rapids Speed	Up to 30m/min
Spindle Nose to Table	100-450mm
Positional Accuracy	±0.01mm
Repeatability	±0.01mm
Surface Roughness	Ra 3.2

TABLE	
Work Area	700mm*600mm
T-Slot Width	10mm
T-Slot Center Distance	88mm
Number of Std T-Slots	6 sets
Max Weight on Table	350kg

DIMENSIONS	
Dimensions (L/W/H)	2650*1900*2300 mm
Weight	3000 kg

Feature



Size 700*600mm T-slot table for handling the workpiece up to 350kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical spindle 3.7 kW, 10000 RPM motor with BT30 shank, equipped with 10-station linear pneumatic tool changer, which can change tools more efficiently.



Equipped with 10-station carousel type tools changer, with metal clamping to offer high strength, heat resistance, wear resistance.



Smartlathe CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



4th-Axis



7.5kW Electric spindle



Tool Setter



Customized Fixture



SYNTEC controller



BT40 spindle



DRILL & TAP

Synchronous-action type ATC.
High Efficiency and Precision
Improved Surface Finish

STANDARD CONFIGURATION

5.5KW mechanical spindle
Max. 20000 rpm
BT30
Synchronous-action type ATC.
21 tools
Max. $\Phi 100\text{mm}$ tools
700*420mm work area
330mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMCD600



Specification

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SPINDLE

Spindle Nose Taper	BT30
Speed	20000 RPM
Spindle Motor Power	5.5 KW
Collet Type	Pneumatic Clamping
Drive System	Direct-Drive
Bearing Lubrication	Grease Packed

TOOLS CHANGER

Type	Synchronous-action type
Capacity	21-station
Tool Shank	BT30 (21pcs tool shanks included)
Max Tool Diameter	100mm

CNC CONTROL

Controller	SYNTEC 22MA
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POWER SUPPLY

Total Power	15KW
Voltage	AC 380V 50Hz
Air pressure	0.5~0.6Mpa

TRAVELS

X-Axis	600mm
Y-Axis	400mm
Z-Axis	330mm
Guide Ways	Linear
Rapids Speed	Up to 48m/min
Spindle Nose to Table	160-490mm
Positional Accuracy	$\pm 0.005\text{mm}/300\text{mm}$
Repeatability	$\pm 0.01\text{mm}/300\text{mm}$
Surface Roughness	Ra 3.2

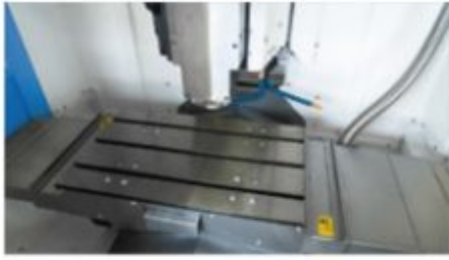
TABLE

Work Area	700mm*420mm
T-Slot Width	14mm
T-Slot Center Distance	120mm
Number of Std T-Slots	3 sets
Max Weight on Table	250kg

DIMENSIONS

Dimensions (L/W/H)	1900*2350*2500 mm
Weight	2800 kg

Feature



Size 700*420mm T-slot table for handling the workpiece up to 250kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical direct-drive spindle 5.5 kW, 20000 RPM motor with BT30 shank, equipped with 21-station tool changer, which can change tools more efficiently.



Equipped with 21-station synchronous-action type automatic tools changer, designed for high-speed machining centers with direct-drive spindles, allowing high-speed tool change.



SYNTEC CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



4th-Axis



Tool Setter



Customized Fixture



STANDARD CONFIGURATION

5.5KW mechanical spindle
Max. 20000 rpm
BT30
Synchronous-action type ATC.
21 tools
Max. $\Phi 100$ mm tools
800*420mm work area
330mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMCD700

Specification

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SPINDLE	
Spindle Nose Taper	BT30
Speed	20000 RPM
Spindle Motor Power	5.5 KW
Collet Type	Pneumatic Clamping
Drive System	Direct-Drive
Bearing Lubrication	Grease Packed

TOOLS CHANGER	
Type	Synchronous-action type
Capacity	21-station
Tool Shank	BT30 (21pcs tool shanks included)
Max Tool Diameter	100mm

CNC CONTROL	
Controller	SYNTEC 22MA

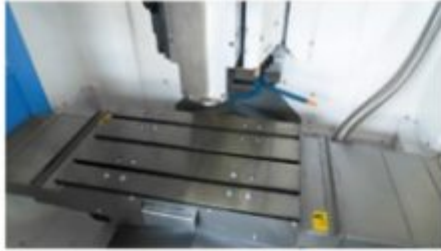
POWER SUPPLY	
Total Power	15KW
Voltage	AC 380V 50Hz
Air pressure	0.6Mpa

TRAVELS	
X-Axis	700mm
Y-Axis	400mm
Z-Axis	330mm
Guide Ways	Linear
Rapids Speed	Up to 48m/min
Spindle Nose to Table	160-490mm
Positional Accuracy	± 0.005 mm/300mm
Repeatability	± 0.004 mm/300mm
Surface Roughness	Ra 3.2

TABLE	
Work Area	800mm*420mm
T-Slot Width	14mm
T-Slot Center Distance	120mm
Number of Std T-Slots	3 sets
Max Weight on Table	300kg

DIMENSIONS	
Dimensions (L/W/H)	2100*2500*2500 mm
Weight	2800 kg

Feature



Size 700*420mm T-slot table for handling the workpiece up to 250kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical direct-drive spindle 5.5 kW, 20000 RPM motor with BT30 shank, equipped with 21-station tool changer, which can change tools more efficiently.



Equipped with 21-station synchronous-action type automatic tools changer, designed for high-speed machining centers with direct-drive spindles, allowing high-speed tool change.



SYNTEC CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



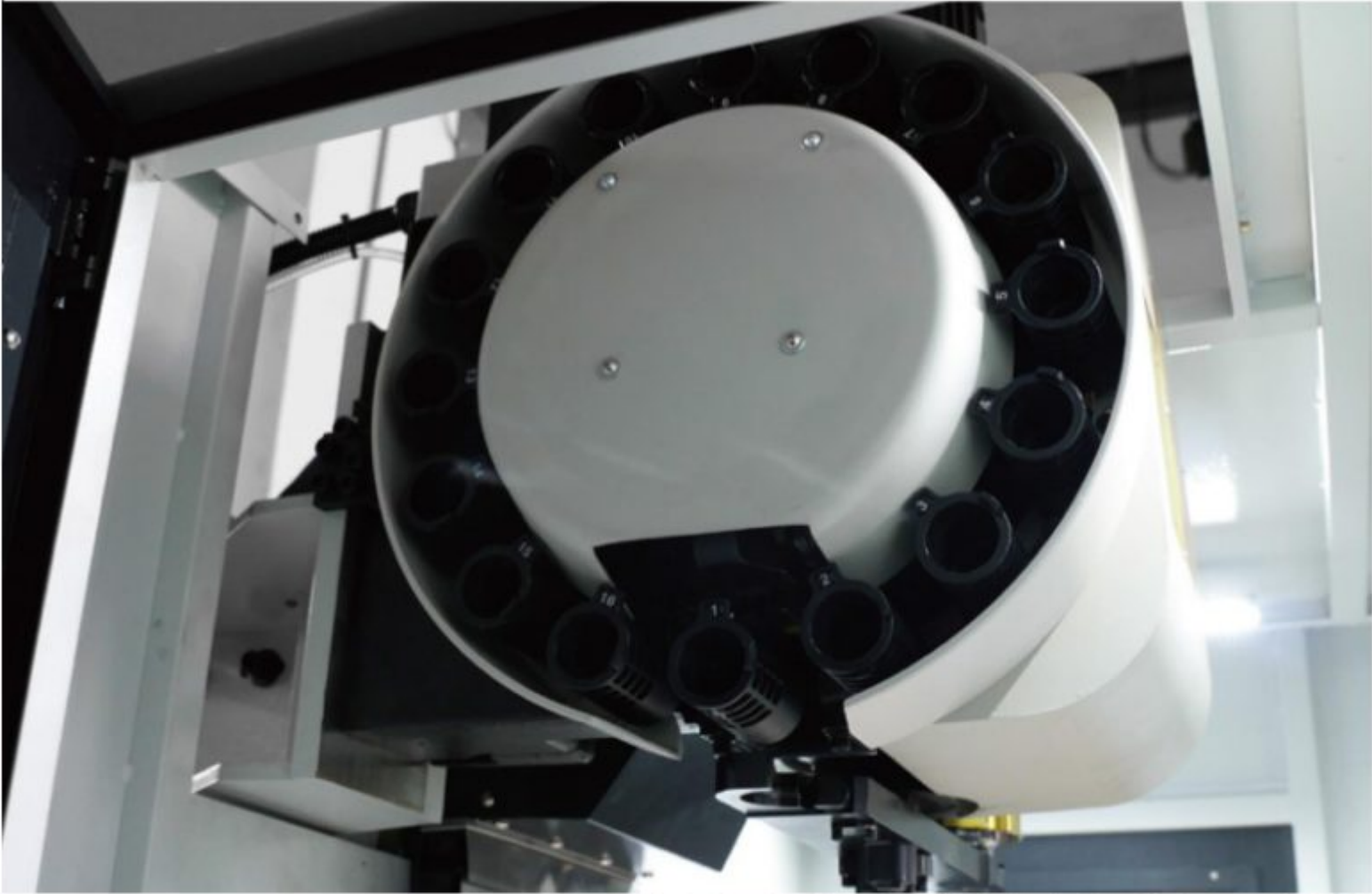
4th-Axis



Tool Setter



Customized Fixture



HEAVY DUTY

Side-Mount ATC.
High Rigidity and Precision
Versatility Machining

STANDARD CONFIGURATION

5.5KW Direct connection spindle
Max. 8000 rpm
BT40
Side-mount ATC.
16 tools
Max. Ø78mm tools
800*400mm work area
490mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMC H700



Specification

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SPINDLE

Spindle Nose Taper	BT40
Speed	8000 RPM
Spindle Motor Power	5.5 KW
Collet Type	Pneumatic Clamping
Drive System	Belt Drive
Bearing Lubrication	Grease Packed

TOOLS CHANGER

Type	Side-Mount
Capacity	16-station
Tool Shank	BT40
Max Tool Diameter	78mm

CNC CONTROL

Controller	SYNTEC 22MA
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POWER SUPPLY

Total Power	10KW
Voltage	AC 380V 50Hz
Air pressure	0.5~0.6Mpa

TRAVELS

X-Axis	700mm
Y-Axis	400mm
Z-Axis	490mm
Guide Ways	Linear
Rapids Speed	Up to 10m/min
Spindle Nose to Table	100-600mm
Positional Accuracy	±0.006mm/300mm
Repeatability	±0.006mm/300mm
Surface Roughness	Ra 3.2

TABLE

Work Area	800mm*400mm
T-Slot Width	16mm
Number of Std T-Slots	4 sets
Max Weight on Table	300kg

DIMENSIONS

Dimensions (L/W/H)	2200*2150*2350 mm
Weight	3100 kg

Feature



Size 800*400mm T-slot table for handling the workpiece up to 300kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical spindle 5.5 kW, 8000 RPM motor with BT40 shank, equipped with 16-station linear pneumatic tool changer, which can change tools more efficiently.



Equipped with 16-station carousel type tools changer, with metal clamping to offer high strength, heat resistance, wear resistance.



Syntec22MA CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



4th-Axis



Mitsubishi controller



Tool Setter



Customized Fixture



Chain Chip Conveyor



STANDARD CONFIGURATION

7.5KW Direct connection spindle
Max. 12000 rpm
BT40
Side-mount ATC.
24 tools
Max. $\Phi 78$ mm tools
800*500mm work area
500mm Z-axis travels
Fully enclosed splash guard
Automatic lubrication system

VMCH800

Specification

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SPINDLE	
Spindle Nose Taper	BT40
Speed	12000 RPM
Spindle Motor Power	7.5 KW
Collet Type	Pneumatic Clamping
Drive System	Direct connection
Bearing Lubrication	Grease Packed

TOOLS CHANGER	
Type	Side-Mount
Capacity	24-station
Tool Shank	BT40
Max Tool Diameter	78mm

CNC CONTROL	
Controller	SYNTEC 22MA

POWER SUPPLY	
Total Power	20KW
Voltage	AC 380V 50Hz
Air pressure	0.5~0.6Mpa

TRAVELS	
X-Axis	800mm
Y-Axis	500mm
Z-Axis	500mm
Guide Ways	Linear
Rapids Speed	Up to 30m/min
Spindle Nose to Table	100-600mm
Positional Accuracy	± 0.005 mm/300mm
Repeatability	± 0.005 mm/300mm
Surface Roughness	Ra 3.2

TABLE	
Work Area	900mm*500mm
T-Slot Width	16mm
Number of Std T-Slots	5 sets
Max Weight on Table	400kg

DIMENSIONS	
Dimensions (L/W/H)	2400*2750*2550 mm
Weight	4500 kg

Feature



Size 900*500mm T-slot table for handling the workpiece up to 400kg. Offering high precision, a compact design, and versatility, making it ideal for stable processing of workpieces with different sizes.



Mechanical spindle 7.5 kW, 12000 RPM motor with BT40 shank, equipped with 24-station linear pneumatic tool changer, which can change tools more efficiently.



Equipped with 24-station Mechanical-arm type tools changer, with metal clamping to offer high strength, heat resistance, wear resistance.



SYNTEC 22MA CNC system co-works with quality electrical parts provide a rapid-operation and durable use.

Optional Accessories



4th-Axis



Mitsubishi controller



Tool Setter



Customized Fixture



Chain Chip Conveyor

Comparison



VMC T600



VMC T700



VMC D600

SPINDLE			
Spindle Nose Taper	BT30	BT30	BT30
Speed	10000 RPM	10000 RPM	20000 RPM
Spindle Motor Power	3.7 kW	3.7 kW	5.5 kW
Collet Type	Pneumatic Clamping	Pneumatic Clamping	/
Spindle Motor Torque	/	/	17.5 N.m
Spindle Diameter	/	/	Φ100mm
Drive System	Belt Drive	Belt Drive	Direct-Drive
Bearing Lubrication	Grease Packed	Grease Packed	Grease Packed
TRAVELS			
X-Axis	600mm	700mm	600mm
Y-Axis	550mm	600mm	400mm
Z-Axis	230mm	350mm	330mm
Guide Ways	Linear	Linear	Linear
Rapids Speed	Up to 30m/min	Up to 30m/min	Up to 48m/min
Spindle Nose to Table	100-330mm	100-450mm	160-490mm
Repeatability	±0.01	±0.01	±0.004/300
Surface Roughness	Ra 3.2 μm	Ra 3.2 μm	Ra 3.2 μm
TOOLS CHANGER			
Type	Carousel	Carousel	Synchronous-action type (ATC)
Capacity	10	10	21
Tool Shank	BT30 (10pcs tool shanks included)	BT30 (10pcs tool shanks included)	BT30 (21pcs tool shanks included)
Max Tool Diameter	40 mm	50 mm	100 mm
TABLE			
Work Area	600*500mm	700*600mm	700*420mm
T-Slot Width	10mm	10mm	14mm
Number of Std T-Slots	6	6	3
Max Weight on Table	200kg	350kg	250kg
CNC CONTROL			
Controller	SmartBrain	SmartBrain	SYNTEC 22MA
POWER SUPPLY			
Total Power	7.5kW	7.6kW	15kW
Voltage	380VAC 50Hz	380VAC 50Hz	380VAC 50Hz
Air pressure	0.5~0.6Mpa	0.5~0.6Mpa	0.6Mpa
DIMENSIONS			
Dimensions (L/W/H)	2500*1670*2200 mm	2650*1900*2300 mm	1900*2350*2500 mm
Weight	2900 kg	3000 kg	2800 kg
OPTIONAL			
4th-Axis	○	○	○
7.5kW Electric spindle	○	○	--
Follow rest	--	--	--
Tool Setter	○	○	○
Customized Fixture	○	○	○
SYNTEC controller	○	○	--
BT40 spindle	○	○	--
Mitsubishi controller	--	--	--
Chain Chip Conveyor	--	--	--

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Optional: ○
N/A: --

Comparison



VMC D700



VMC H700



VMC H800

SPINDLE			
Spindle Nose Taper	BT30	BT40/120	BT40/140
Speed	20000 RPM	8000 RPM	12000 RPM
Spindle Motor Power	5.5 kW	5.5 kW	7.5 kW
Collet Type	/	/	/
Spindle Motor Torque	17.5 N.m	/	/
Spindle Diameter	Φ100mm	/	/
Drive System	Direct-Drive	Belt Drive	Direct connection
Bearing Lubrication	Grease Packed	Grease Packed	Grease Packed
TRAVELS			
X-Axis	700mm	700mm	800mm
Y-Axis	400mm	400mm	500mm
Z-Axis	330mm	490mm	500mm
Guide Ways	Linear	Linear	Linear
Rapids Speed	Up to 48m/min	Up to 10m/min	Up to 30m/min
Spindle Nose to Table	160-490mm	100-600mm	100-600mm
Repeatability	±0.004/300	±0.004/300	±0.003/300
Surface Roughness	Ra 3.2 μm	/	/
TOOLS CHANGER			
Type	Carousel	ATC	ATC
Capacity	10	16	24
Tool Shank	BT30 (10pcs tool shanks included)	BT40	BT40
Max Tool Diameter	40 mm	78 mm	78 mm
TABLE			
Work Area	800*420mm	800*400mm	900*500mm
T-Slot Width	14mm	16mm	16mm
Number of Std T-Slots	3	4	5
Max Weight on Table	300kg	300kg	400kg
CNC CONTROL			
Controller	SYNTEC 22MA	SYNTEC 22MA	SYNTEC 22MA
POWER SUPPLY			
Total Power	15KW	10KW	20kW
Voltage	380VAC 50Hz	380VAC 50Hz	380VAC 50Hz
Air pressure	0.6Mpa	0.6Mpa	0.6Mpa
DIMENSIONS			
Dimensions (L/W/H)	2100*2500*2500 mm	2200*2150*2350 mm	2400*2750*2550 mm
Weight	2800 kg	3100 kg	4500 kg
OPTIONAL			
4th-Axis	○	○	○
7.5kW Electric spindle	--	--	--
Follow rest	--	--	--
Tool Setter	○	○	○
Customized Fixture	○	○	○
SYNTEC controller	--	--	--
BT40 spindle	--	--	--
Mitsubishi controller	--	○	○
Chain Chip Conveyor	--	○	○

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Optional: ○
N/A: --