

TAIKAN COMPREHENSIVE PRODUCT BROCHURE

HIGH-END INTELLIGENT EQUIPMENT
INTEGRATED SOLUTION SERVICE PROVIDER

Taikan

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COMPANY PROFILE

Create Century is a national high-tech enterprise specializing in intelligent equipment, integrating R&D, manufacturing, sales, and after-sales service. With 20 years of industry experience, the company is committed to providing customers with high-quality equipment and intelligent solution services. Among its domestic peers, Create Century stands out as one of the enterprises with the most comprehensive technologies and the widest product range.

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R&D Centers

Shenzhen R&D center
Suzhou R&D center
Shanghai R&D center
Xi'an R&D center

4

Strategic Partnership Agencies

ONE STATION, ONE LAB, AND TWO CENTERS
Academician <Expert> Workstation of Shenzhen
Engineering Technology Research Center of Guangdong Province
Engineering Laboratory for Key Technologies in Smart Precision Machining
Enterprise Technology Center of Shenzhen

500+

R&D Team

The Company boasts a technical advisory board consisting of industry-leading technical experts from Mainland China, Taiwan, South Korea, Malaysia, Germany, and other regions, along with a dedicated R&D team of over 500 professionals.

700+

Core Patents

Invention patent-----168 pcs
Utility model patent ----509 pcs
Design patents -----121 pcs
Software copyright -----88 pcs



CONTENTS

Founded **20** years ago

Create Century established in 2005

Ranking **183rd**

Shenzhen's Top 500 Enterprises in 2023

Top **100** businesses

Bao'an District, Shenzhen
Top 100 enterprises by added value
Top 100 enterprises by output value
Top 100 enterprises by tax contribution
Top 100 enterprises by innovation

Vertical Machining Center

S series
DT series
H series

M series
L Series
T-V Series

Drilling & Tapping Machining Center

B Series
S Series

SE Series

Profile Machining Center

T Series
V Series

G Series

Horizontal Machining Center

DH Series
DHS Series

T-H Series

Five-Axis Machining Center

V-U Series

FH Series

Double Column Machining Center

G-V Series
G-R Series
G-M Series

G-B Series
G-VU Series
G-BU Series

Multi-Spindle Machining Center

Single-spindle Engraving Processing Machine
Multi-channel Engraving Processing Machine
Multi-spindle Engraving Processing Machine
Dual-spindle Processing Machine

CNC Lathe

L-M Series
L-Y Series
L-H Series

L-P Series
D-VL Series

CNC Swiss-Type Automatic Lathe

ST Series
TQ Series

L-S Series

Vertical Machining Center

S Series Standard Edition Vertical Machining Center
DT Series Efficiency Vertical Machining Center
H Series Advanced Edition Vertical Machining Center

M Series Excellent Rigidity Vertical Machining Center
L Series Two-linear And One Hard Vertical Machining Center
T-v Series Light Cutting Vertical Machining Center

S Series | Standard Edition With Three Linear Guide Rails Vertical Machining Center

High-speed and high-efficiency—A classic masterpiece

- A variety of operating systems and spindle options are available for customers to choose from, allowing for a comprehensive satisfaction of their specific needs.



Item	Unit	T-V856S	T-V1055S	T-V1165S	T-V1270S	T-V1375S	T-V1475S	T-V1585S	T-V1685S
Table size	mm	1,000×500	1,100×500	1,200×600	1,300×650	1,500×750	1,500×750	1,700×850	1,700×850
X/Y/Z axis travel	mm	800/550/600	1,000/550/600	1,100/650/600	1,200/700/700	1,350/750/750	1,400/750/750	1,550/850/850	1,650/850/850
Spindle speed	r/min	Direct coupling 12,000	Direct coupling 12,000	Direct coupling 12,000	Direct coupling 12,000	Belt 6,000	Belt 6,000	Belt 6,000	Belt 6,000
Spindle taper	/	BT40	BT40	BT40	BT40	BT50	BT50	BT50	BT50
Tool capacity	PCS	24	24	24	24	24	24	24	24

DT Series | High Rigidity & High Efficiency Vertical Machining Center

High speed, high efficiency and high precision

- Extra large base design enables stable cutting for long time.
- Quick tool change and high-speed cutting enable high productivity.



Item	Unit	DT50	DT55
Table size	mm	1100×450	1200×500
X/Y/Z axis travel	mm	850/500/500	1050/550/550
Spindle speed	r/min	Direct coupling 12,000	Direct coupling 12,000
Spindle taper	/	BBT40	BBT40
Tool capacity	PCS	30	30

H Series | Advanced Edition With Three Linear Vertical Machining Center

High speed and high precision—A testament to exquisite craftsmanship

- Faster and more precise tool change saves time.
- Suitable for the machining of workpieces with high precision requirements and moderate chip volume.



Item	Unit	T-V856H	T-V1165H
Table size	mm	1,000×500	1,200×600
X/Y/Z axis travel	mm	800/550/600	1,100/650/600
Spindle speed	r/min	Direct coupling 12,000	Direct coupling 12,000
Spindle taper	/	BT-40	BT-40
Tool capacity	PCS	24	24

M Series | Excellent Rigidity Vertical Machining Center

High speed and high rigidity - A masterpiece for heavy-duty cutting operations

- A design featuring an exceptionally massive and robust base structure, impeccable rigidity and stability.
- Belt-driven 8000 RPM spindle offering high cutting rigidity.



Item	Unit	T-V850M	T-850LM	T-V1165M	T-1165LM
Table size	mm	1,000×550	1,000×550	1,200×650	1,200×650
X/Y/Z axis travel	mm	850/550/550	850/520/550	1,100/650/600	1,100/650/600
Spindle speed	r/min	Belt 8,000	Belt 8,000	Belt 8,000	Belt 8,000
Spindle taper	/	BT-40	BT-40	BT-40	BT-40
Tool capacity	PCS	24	24	24	24

L Series | Two Linear And One Hard Vertical Machining Center

High precision and high efficiency -An outstanding masterpiece

- XY axis linear guide rails and Z axis box guideway combine high speed and high rigidity.
- Equipped with a belt spindle, it has excellent heavy-duty cutting performance.



Item	Unit	T-856L	T-1060L	T-1260L	T-1375L	T-1475L	T-1585L	T-1685L
Table size	mm	1,000×500	1,200×600	1,300×600	1,500×750	1,500×750	1,700×850	1,700×850
X/Y/Z axis travel	mm	800/500/600	1,050/600/570	1,200/600/570	1,350/750/750	1,400/750/750	1,550/850/850	1,650/850/850
Spindle speed	r/min	Belt 8,000	Belt 8,000	Belt 8,000	Belt 6,000	Belt 6,000	Belt 6,000	Belt 6,000
Spindle taper	/	BT40	BT40	BT40	BT50	BT50	BT50	BT50
Tool capacity	PCS	24	24	24	24	24	24	24

T-V Series | Light Cutting Vertical Machining Center

High speed and light & fast cutting - A masterpiece of high efficiency

- The specification of X-axis ranges from 600 mm to 2000 mm, ensuring versatility across multiple machine models to cater to a wide range of requirements.



Item	Unit	T-V6	T-V16	T-V18	T-V20
Table size	mm	700×400	1,700×650	1,900×650	2,000×650
X/Y/Z axis travel	mm	600/390/450	1,600/650/590	1,800/650/590	2,000/650/590
Spindle speed	r/min	Direct coupling 12,000	Direct coupling 12,000	Direct coupling 12,000	Direct coupling 12,000
Spindle taper	/	BT40	BT40	BT40	BT40
Tool capacity	PCS	24	24	24	24

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Drilling & Tapping Machining Center

B Series Drilling & Tapping Machining Center
S Series Drilling & Tapping Machining Center
SE Series Drilling & Tapping Machining Center

B Series | Drilling & Tapping Machining Center

High-speed High-efficiency High-precision

- The machine has various specifications with X-axis travel from 500mm to 2,000mm, which can meet various machining requirements.
- Equipped with direct-spindle and motorized spindle options, with maximum speeds of 12,000rpm, 2,000rpm, and 24,000rpm.
- 21T/26T/30T/40T tool magazine options improve tool handling capabilities and promote process intensiveness.
- It is particularly good at 3C (computer, communication, and consumer electronics) parts processing, and is also widely used in milling, drilling, and tapping processing of parts in various industries.



Item	Unit	T-500B	T-500BH	T-500B Plus	T-600B	T-700B
Table size	mm	620×400	620×400	620×400	700×400	800×400
X/Y/Z axis travel	mm	500/400/320	500/400/460	500/400/320	600/390/320	700/400/320
Spindle speed	r/min	20-24,000	20-24,000	20-20,000	20-20,000	20-20,000
Spindle taper	/	BT30	BT30	BT30	BT-30	BT-30
Tool capacity	PCS	21	21	21	21	21
X/Y/Z axis rapid traverse speed	m/min	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48

Item	Unit	T-1000	T-1200	T-1300	T-1600	T-1800	T-2,000
Table size	mm	1,200×600	1,300×650	1,300×650	1,700×650	1,900×650	2,000×650
X/Y/Z axis travel	mm	1,100/650/410	1,200/650/410	1,300/650/410	1,600/650/475	1,800/650/475	2,000/650/475
Spindle speed	r/min	20-20,000	20-20,000	20-20,000	20-20,000	20-20,000	20-20,000
Spindle taper	/	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30
Tool capacity	PCS	21	21	21	21	21	21
X/Y/Z axis rapid traverse speed	m/min	36/36/36	36/36/36	36/36/36	30/36/36	30/36/36	27/36/36

S Series | Drilling & Tapping Machining Center

Unmatched value for money Exceptional stability High reliability

Item	Unit	T-500S	T-600S	T-700S	T-800S	T-1,000S	T-1200S	T-1600S
Table size	mm	620×400	700×400	800×400	1,000×500	1,100×500	1,300×550	1,700×550
X/Y/Z axis travel	mm	500/400/320	600/400/320	700/400/320	800/500/450	1,000/500/450	1,200/550/450	1,600/550/450
Spindle speed	r/min	20-24,000	20-24,000	20-24,000	20-20,000	20-20,000	20-20,000	20-20,000
Spindle taper	/	BT30	BT-30	BT-30	BT-30	BT-30	BT-30	BT-30
Tool capacity	PCS	21	21	21	21	21	21	21
X/Y/Z axis rapid traverse speed	m/min	48/48/48	48/48/48	48/48/48	48/48/48	48/48/48	36/36/36	30/36/36



Profile Machining Center

T Series Moving Column Profile Machining Center
V Series Moving Column Profile Machining Center
G Series Gantry Profile Machining Center

T Series | Moving Column Profile Machining Center

BT30 (Tilt-disc Tool Magazine)

- Fixed table, column-moving structure; equipped with a BT30 direct-drive spindle and 21T tilt-disc tool magazine, enabling high-speed tool change.
- With a maximum X-axis travel of 6,500 mm and a rapid traverse speed of up to 50 m/min, this machine is designed for processing large, narrow, and long workpieces.
- The X-axis can be optionally driven by either a rack-and-pinion or a ball screw drive.



Item	Unit	T-2500	T-4500	T-6500
Table size	mm	2,500×400	4,500×400	6,500×400
X/Y/Z axis travel	mm	2,500/400/350	4,500/400/350	6,500/400/350
Max. spindle speed	r/min	12,000	12,000	12,000
Spindle taper	/	BT30	BT30	BT30
Tool capacity	PCS	21	21	21
X/Y/Z axis rapid traverse speed	m/min	50/30/36	50/30/36	50/30/36

V Series | Moving Column Profile Machining Center

BT 40 (disc type magazine)

- Fixed table, column-moving structure; equipped with a BT40 direct-drive spindle and 24T disc tool magazine.
- With a maximum X-axis travel of 6,500 mm and a rapid traverse speed of up to 50 m/min, this machine is designed for processing large, narrow, and long workpieces.
- The X-axis can be optionally driven by either a rack-and-pinion or a ball screw drive.



Item	Unit	T-V2500	T-V4500	T-V6500
Table size	mm	2,500×550	4,500×550	6,500×550
X/Y/Z axis travel	mm	2,500/550/550	4,500/550/550	6,500/550/550
Max. spindle speed	r/min	12,000	12,000	12,000
Spindle taper	/	BT40	BT40	BT40
Tool capacity	PCS	24	24	24
X/Y/Z axis rapid traverse speed	m/min	50/28/28	50/28/28	50/28/28

G Series | Gantry-Type Profile Machining Center

High speed, high efficiency and excellent cost performance

- Lightweight dynamic gantry design, rapid response speed, wide machining range, high machining efficiency
- Applied to the processing of large flat parts such as new energy vehicle battery tray assembly.



Item	Unit	G-M2518L	G-M2030L	G-M2015X	G-M2030U
Table size	mm	2,500×1,800	2,000×3,000	2,000×1,500	2,000×3,000
X/Y/Z axis travel	mm	1,800/2,500/500	3,000/2,000/600	1,500/2,000/450	3,000/2,000/800
Max. spindle speed	r/min	12,000	12,000	12,000	20,000
Spindle taper	/	BT40	BT40	BT40	HSK-A63
Tool capacity	PCS	24	24	20	24
X/Y/Z axis rapid traverse speed	m/min	36/36/36	40/30/30	36/36/36	40/30/30

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Horizontal Machining Center

DH Series Horizontal Machining Center
 T-H Series Horizontal Machining Center
 DHS Series Horizontal Machining Center

DH Series | Horizontal Machining Center

- High-rigidity positive T-type bed structure, equipped with double worktable APC device and double servo motor tool magazine to improve efficiency.

Item	Unit	DH-63
Pallet size	mm	630×630
X/Y/Z three-axis travel	mm	1,050/800/1,000
Max. workpiece size	mm	∅ 1,000×1,000
Max. spindle speed	r/min	10,000
Spindle taper	/	BT50
Tool capacity	T	60



Five-Axis Machining Center

V-U Series Vertical Five-axis Machining Center
 FH Series Five-axis Milling And Turning Machine

V-U Series | Vertical Five-axis Machining Center

- V-200U/V-400U: O-shaped fixed beam gantry structure with a direct-drive single-arm rotary table and a high-speed motorized spindle, ideal for machining small, intricate workpieces or spatial curved surfaces.
- V-500U/V-650U/V-800U: Crane-type moving beam structure with a direct-drive cradle rotary table, equipped with a high-speed electric spindle, suitable for machining general intricate workpieces or spatial curved surfaces.

Item	Unit	V-200U	V-400U	V-500U	V-650U	V-800U
Table size	mm	∅ 260	∅ 420	∅ 500×445	∅ 650×530	∅ 800×630
X/Y/Z axis travel	mm	500/280/300	700/450/400	500/650/450	650/800/500	850/900/580
Max. spindle speed	r/min	30,000	24,000	20,000	18,000	16,000
Spindle power	kW	11	16	20	30	30
Spindle taper	/	HSK E40	HSK E50	HSK A63	HSK A63	HSK A63
Tool capacity	T	30	24	40	40	40



DHS Series | Horizontal Machining Center

- High rigidity inverted T-type column-moving structure with a spacious machining area design, ideal for multi-sided machining of large box-type components.

Item	Unit	DH-100S
Table size	mm	1,000×1,250
X/Y/Z three-axis travel	mm	2,000/1,300/1,200
Max. workpiece size	mm	∅ 2,000×1,800
Max. spindle speed	r/min	10,000
Spindle taper	/	BT50
Tool capacity	T	40

FH Series | Five-axis Milling And Turning Machine

- Marble material bed structure, with minimal temperature fluctuation impact and excellent vibration damping properties.
- Direct-drive B-axis swivel head, equipped with a high-torque spindle that allows for vertical and horizontal conversion, capable of side, top, inclined surface, and five-axis simultaneous machining.
- Direct-drive C-axis rotary table, capable of performing both milling and turning operations in a single setup.

Item	Unit	FH60P-C	FH80P-C	FH100P-C	FH135P-C	FH170P-C	FH210P-C
Table size	mm	∅ 660	∅ 880	∅ 1,100	∅ 1,400	∅ 1,700	∅ 1,800
X/Y/Z axis travel	mm	600×800×600	800×1,050×800	1,000×1,150×1,000	1,450×1,450×1,000	1,700×1,700×1,100	2,100×2,100×1,300
Max. spindle speed	rpm	12,000	12,000	12,000	12,000	10,000	10,000
Spindle power	kW	42	42	58	58	71	71
Spindle taper	/	HSK-A63	HSK-A63	HSK-A100	HSK-A100	HSK-A100	HSK-A100
Tool capacity	T	40	40	40	40	40	40



T-H Series | Horizontal Machining Center

- Column-fixed cross slide structure, compact and fast

Item	Unit	T-H8	T-H11	T-H13
Table size	mm	400×400	500×500	630×630
X/Y/Z three-axis travel	mm	800/650/650	1,100/600/650	1,350/850/750
Max. workpiece rotation diameter	mm	∅ 900	∅ 1,200	∅ 1,450
Max. spindle speed	r/min	12,000(Direct coupling)	12,000(Direct coupling)	6,000(Belt)
Spindle taper	/	BT40	BT40	BT50
Tool capacity	T	24	24	24



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Double Column Machining Center

G-V Series Three-Linear Double Column Machining Center
G-R Series Z-axis Square Ram Box Guideway
G-M Series Moving Column Double Column Machining Center

G-B Series Bridge-type Double Column Machining Center
G-VU Series Fixed Beam Five-axis Double Column Machining Center
G-BU Series Bridge-type Five-axis Double Column Machining Center

G-V Series | Three-linear Guide Double Column Machining Center

Direct-connected spindle model

- Movable worktable design with fixed column and crossbeam; X, Y, and Z axes all use linear guides.
- Standard equipped with high-speed direct-connected spindles.



Item	Unit	G-V1220D/V1225D/V1230D	G-V1630D
X-axis travel	mm	2,100/2,600/3,150	3,150
Y-axis travel	mm	1,500+25 (Tool change travel)	1,800
Z-axis travel	mm	700	700
Effective width between columns	mm	1,560	1,800
Worktable width	mm	1,250	1,800
Worktable length	mm	2,000/2,500/3,000	3,000
Spindle taper	/	BBT40/BT40	BBT40/BT40
Max. spindle speed	r/min	12,000 (Direct coupling)	12,000 (Direct coupling)
Spindle motor power	kW	11/15	11/15
Spindle output torque	N.m	52.5/95.5	52.5/95.5

G-V Series | Three-linear Guide Double Column Machining Center

Belt spindle model

- Movable worktable design with fixed column and crossbeam; X, Y, and Z axes all use linear guides.
- Optionally, the Z-axis can be equipped with T-type ram box guideway.
- Standard equipped with belt driven spindle.



Item	Unit	G-V1018A	G-V1220A/V1225A/V1230A	G-V1630A
X-axis travel	mm	1,800	2,150/2,650/3,200	3200
Y-axis travel	mm	1,100+100 (Tool change travel)	1,500+25 (Tool change travel)	1,800
Z-axis travel	mm	800	800	800
Effective width between columns	mm	1,160	1,560	1,800
Worktable width	mm	1,000	1,250	1,800
Worktable length	mm	1,800	2,000/2,500/3,000	3,000
Spindle taper	/	BT50	BT50	BT50
Max. spindle speed	r/min	6,000	6,000	6,000
Spindle motor power	kW	15/18.5	15/18.5	15/18.5
Spindle output torque	N.m	191/315	191/315	191/315

G-V Series | Three-linear Guide Double Column Machining Center

Gear spindle model

- Movable worktable design with fixed column and crossbeam; X, Y, and Z axes all use linear guides.
- Optionally, the Z-axis can be equipped with T-type ram box guideway
- Standard equipped with gear transmission spindle



Item	Unit	G-V1520B/V1530B/V1540B	G-V2030B/V2040B/V2050B	G-V2540B/V2050B/V2560	G-V3050B/V3060B/V3080B
X-axis travel	mm	2,200/3,200/4,200	3,200/4,200/5,200	4,200/5,200/6,200	5,200/6,200/8,400
Y-axis travel	mm	2,200	2,700	3,200	3,700
Z-axis travel	mm	1,000	1,000	1,000	1,000
Effective width between columns	mm	1,950	2,450	2,950	3,450
Worktable width	mm	1,500	2,000	2,500	3,000
Worktable length	mm	2,000/3,000/4,000	3,000/4,000/5,000	4,000/5,000/6,000	5,000/6,000/8,000
Spindle taper	/	BT50	BT50	BT50	BT50
Max. spindle speed	r/min	6,000	6,000	6,000	6,000
Spindle motor power	kW	15/18.5	22/35	22/35	22/35
Spindle output torque	N.m	807/1,331	790/1,258	790/1,258	790/1,258

G-R Series | Z-axis Square Ram Box Guideway Double Column Machining Center

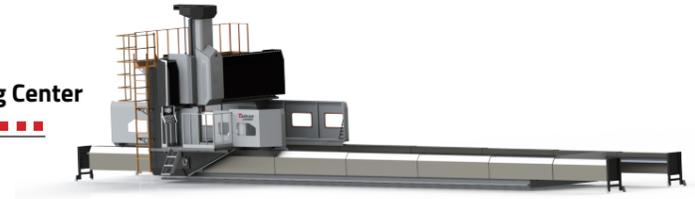
- Movable worktable design with fixed column and crossbeam; the X and Y axes are linear guide rails, and the Z axis is square ram box guideway.
- Equipped with a gear spindle as standard.



Item	Unit	G-R2680H	G-R3080H	G-R3580H/R35100H/R35120H/R35160H
X-axis travel	mm	8,500	8,500	8,500/10,500/12,500/16,500
Y-axis travel	mm	3,600	4,400	4,600
Z-axis travel	mm	1,250	1,250	1,250
Effective width between columns	mm	3,200	3,700	4,200
Worktable width	mm	2,600	3,000	3,500
Worktable length	mm	8,000	8,000	8,000/10,000/12,000/16,000
Spindle taper	/	BT50	BT50	BT50
Max. spindle speed	r/min	4,500	4,500	4,500
Spindle motor power	kW	22/26	22/26	22/26
Spindle output torque	N.m	686/811	686/811	686/811

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G-M Series | Moving Column Double Column Machining Center



- Fixed worktable design with movable column and crossbeam; the X and Y axes use linear guide rails, and the Z axis uses square ram box guideway.
- Standardly equipped with a gear-driven spindle.

Item	Unit	G-M4080H/M40100H/M40120H/M40160H	G-M5080H/M50100H/M50120H/M50160H
X-axis travel	mm	8,500/10,500/12,500/16,500	8,500/10,500/12,500/16,500
Y-axis travel	mm	5,800	6,800
Z-axis travel	mm	1,500	1,500
Effective width between columns	mm	5,200	6,200
Worktable width	mm	4,000	5,000
Worktable length	mm	8,000/10,000/12,000/16,000	8,000/10,000/12,000/16,000
Spindle taper	/	BT50	BT50
Max. spindle speed	r/min	4,500	4,500
Spindle motor power	kW	22/26	22/26
Spindle output torque	N.m	686/811	686/811

G-B Series | Bridge Type Double Column Machining Center



- Fixed table design with the crossbeam moving along wall-type columns on both sides; the X, Y, and Z axes are equipped with linear guides.
- The high-speed motorized spindle comes as standard.

Item	Unit	G-B2030	G-B2560	G-B3060
X-axis travel	mm	3,200	6,200	6,200
Y-axis travel	mm	2,200	2,700	3,200
Z-axis travel	mm	1,000	1,000	1,000
Effective width between columns	mm	3,200	3,700	4,200
Worktable width	mm	2,000	2,500	3,000
Worktable length	mm	3,000	6,000	6,000
Spindle taper	/	BT50	BT50	BT50
Max. spindle speed	r/min	10,000	10,000	10,000
Spindle motor power	kW	26/45	26/45	26/45
Spindle output torque	N.m	305/623	305/623	305/623

G-VU Series | Fixed Beam Five-Axis Linkage Double Column Machining Center



- Movable worktable design with fixed column and crossbeam; X, Y, and Z axes all use linear guides.
- Standardly equipped with a direct-drive AC rotary head, and Siemens ONE system.

Item	Unit	G-VU1220	G-VU1530	G-VU2030/VU2040/VU2050	G-VU2540/VU2550/VU2560
X-axis travel	mm	2,150	3,200	3,200/4,200/5,200	4,200/5200/6,200
Y-axis travel	mm	2,000	2,700	2,700	3,200
Z-axis travel	mm	800	1,000	1,000	1,000
Effective width between columns	mm	1,600	2,450	2,450	2,950
Worktable width	mm	1,250	1,500	2,000	2,500
Worktable length	mm	2,000	3,000	3,000/4,000/5,000	4,000/5,000/6,000
Spindle taper	/	HSK-A63	HSK-A63	HSK-A63	HSK-A63
Max. spindle speed	r/min	20,000	18,000	18,000	18,000
Spindle motor power	kW	20	30	30	30
Spindle output torque	N.m	35/42	72/85	72/85	72/85

G-BU Series | Bridge-Type Five-Axis Linkage Double Column Machining Center



- Fixed table design with the crossbeam moving along wall-type columns on both sides; the X, Y, and Z axes are all linear guides.
- Standardly equipped with a direct-drive AC cross-type rotary head, and Siemens ONE system.

Item	Unit	G-BU2030/BU2040	G-BU2540/BU2560	G-BU3060
X-axis travel	mm	3,200/4,200	4,200/6,200	6,200
Y-axis travel	mm	2,200	2,700	3,200
Z-axis travel	mm	1,000	1,000	1,000
Effective width between columns	mm	3,200	3,700	4,200
Worktable width	mm	2,000	2,500	3,000
Worktable length	mm	3,000/4,000	4,000/6,000	6,000
Spindle taper	/	HSK-A63	HSK-A63	HSK-A63
Max. spindle speed	r/min	18,000	18,000	18,000
Spindle motor power	kW	30	30	30
Spindle output torque	N.m	72/85	72/85	72/85

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Multi-Spindle Machining Center Multi-Channel Machining Center

Single-spindle Engraving Processing Machine
Multi-channel Engraving Processing Machine

Multi-spindle Engraving Processing Machine
Dual-spindle Processing Machine

Single-spindle | Engraving Processing Machine

- Single spindle and single worktable, used for metal parts machining.
- Application: Precision machining of aluminum alloy and stainless steel parts; Precision machining of copper electrodes and small copper molds.



Item	Unit	C-400E	C-550E	C-650	C-M650	C-870
Table size	mm	400×400	550×500	600×500	600×500	800×700
X/Y/Z axis travel	mm	400/400/150	550/450/200	600/500/260	600/500/260	700/800/320
Spindle	r/min	40,000	36,000	24,000	30,000	24,000
Spindle taper	/	ISO 20	HSK-E32	BT30	HSK-E40	BT30
Tool magazine	PCS	15	16	12	16	12

Multi-channel | Engraving Processing Machine

- Multiple X/Y/Z axis designs, multiple independent machining units, different channels can be operated independently, and controlled by a set of CNC systems.
- Applications: milling, drilling, and tapping of 3C products; machining of small plates, discs, and shells in industries such as 5G, auto parts, small molds, and medical devices.



Item	Unit	C-400E-2D	C-400-2D	C-400-3D	C-560-2D	T-500-2D	T-700-2D
Table size	mm	400×400	400×400	420×500	500×600	620×400	400×700
X/Y/Z axis travel	mm	400/400/200	400/400/200	400/400/200	500/600/200	400/500/320	400/700/320
Spindle	r/min	40,000	40,000	36,000	40,000	20,000	20,000
Spindle taper	/	ISO 20	ISO 20	ISO25	ISO 20	BT30	BT30
Tool magazine	/	18T×2	18T×2	21T×3	21T×2	21T×2	21T×2

Multi-spindle | Engraving Processing Machine

- Multi-spindle synchronous machining.
- Application: Precision machining of small aluminum alloy parts such as mobile phone camera brackets, buttons, volume buttons, etc.



Item	Unit	C-700-2	C-800E-2	C-800E-3	C-800E-4
Table size	mm	700×500	840×500	840×500	840×500
X/Y/Z axis travel	mm	350/500/150	420/500/150	280/500/150	210/500/150
Spindle	r/min	60,000	60,000	60,000	60,000
Spindle taper	/	T11	T11	T11	T11
Tool magazine	/	12T×2	25T×2	25T×3	25T×4

Multi-spindle | Engraving Processing Machine

- Multi-spindle synchronous machining.
- Application: Precision machining of small aluminum alloy parts such as mobile phone camera brackets, buttons, volume buttons, etc.



Item	Unit	C-1100-2	C-1100-3	C-1100-4	C-1200-4	C-1200-6
Table size	mm	1,100×500	1,100×500	1,100×500	1,200×500	1,260×500
X/Y/Z axis travel	mm	520/500/150	380/500/150	280/500/150	300/500/200	210/450/150
Spindle	r/min	36,000/30,000	36,000/30,000	36,000/30,000	30,000	60,000
Spindle taper	/	ISO25/BT30	ISO25/BT30	ISO25/BT30	BT30	T11
Tool magazine	PCS	16T×2/21T×2	16T×3/21T×3	16T×4/21T×4	16T×4/21T×4	20T×6

Dual-spindle | Processing Machine

- Double-head double tool magazine single worktable, dual spindle synchronous machining, can effectively improve processing efficiency and reduce floor space.
- Application: Machining of small plates, discs, and shells in 5G, 3C industry, automotive parts, medical equipment and other fields.

Item	Unit	T-5040-2	T-6050-2
Table size	mm	1,200×400	1,400×500
X/Y/Z axis travel	mm	500/400/320	600/500/600
Spindle	r/min	20,000	12,000
Spindle taper	/	BT-30	BT-40
Tool magazine	PCS	Swash plate type 21T×2	Arm type 24T×2



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CNC Lathe

L-M Series CNC turning(milling) compound
L-Y Series CNC turning(milling) compound
L-H Series CNC Horizontal Lathe

L-P Series CNC Horizontal Lathe
D-VL Series CNC Vertical Lathe

L-M Series | High Precision CNC Horizontal Turning(Milling) Compound

- Equipped with BMT45 / BMT55 power turret and hydraulic sleeve tailstock with live center structure.
- Mechanical spindle as standard, motorized spindle as optional, spindle with C-axis indexing function and hydraulic brake assist system.
- 30° overall inclined bed, feed axis uses linear guide.



Item	Unit	L-25M	L-35M	L-35MP	L-45M	L-45MP
Chuck size	inch	6"	8"	8"	10"	10"
Max. swing diameter on bed	mm	Ø 520	Ø 520	Ø 600	Ø 600	Ø 600
Max. machining diameter (shaft/disc)	mm	Ø 200 / Ø 250	Ø 300 / Ø 350	Ø 380 / Ø 450	Ø 380 / Ø 450	Ø 380 / Ø 450
Max. machining length	mm	400	400	900	400	900
Spindle nose form	mm	A2-5	A2-6	A2-6	A2-8	A2-8
Max. spindle speed	r/min	5,300	4,000	4,000	2800	2500
Turret type and tool capacity	/	BMT45/12	BMT45/12	BMT55/12	BMT55/12	BMT55/12

L-Y Series | High Precision CNC Horizontal Turning(Milling) Compound

With Y Axis

- 30° overall inclined bed, linear guide rails for XZ axis and box guideway for Y axis.
- Mechanical spindle as standard, motorized spindle as optional, spindle with C-axis indexing function and hydraulic brake assist system.
- Equipped with BMT45 / BMT55 power turret (including Y axis), and hydraulic sleeve tailstock with live center structure.



Item	Unit	L-25Y	L-35Y	L-35YP	L-45YP
Chuck size	inch	6"	8"	8"	10"
Max. swing diameter on bed	mm	Ø 480	Ø 520	Ø 600	Ø 600
Max. machining diameter (shaft/disc)	mm	Ø 300 / Ø 350	Ø 300 / Ø 350	Ø 380 / Ø 450	Ø 380 / Ø 450
Max. machining length	mm	330	330	400	900
Spindle nose form	mm	A2-5	A2-6	A2-6	A2-8
Max. spindle speed	r/min	6,000	4,000	4,000	4500
Turret type and tool capacity	/	BMT45/12	BMT55/12	BMT55/12	BMT55/12

Equipped with dual motorized spindles and dual power turrets (including Y-axis).



Item	Unit	L-46SDY1	L-46SDY2	L-52SDY1
Max. swing diameter on the bed	mm	Ø 570	Ø 570	Ø 570
Max. swing diameter on the saddle	mm	Ø 320	Ø 320	Ø 320
Max. turning diameter	mm	Ø 130	Ø 130	Ø 130
Max. turning length	mm	130	130	130
Spindle chuck size	inch	6"	6"	8"
Max. spindle speed	r/min	6,000	6,000	4,500
Max. sub-spindle speed	r/min	5,000	5,000	6,000
Max. power tool speed	r/min	4,500	45,00	4,500
Turret type	/	BMT45	BMT45	BMT45

L-H Series | High Precision CNC Horizontal Lathe

Turret Lathe

- 30° integrated high-rigidity inclined bed structure, X/Z axis adopts heavy-duty roller guide rails Equipped with mechanical turning spindle, 12-station servo turret.

Item	Unit	L-25H	L-35H	L-35HP	L-45H	L-45HP
Chuck size	inch	6"	8"	8"	10"	10"
Max. swing diameter on bed	mm	Ø 500	Ø 520	Ø 600	Ø 600	Ø 600
Max. machining diameter (shaft/disc)	mm	Ø 200 / Ø 250	Ø 300 / Ø 350	Ø 380 / Ø 450	Ø 380 / Ø 450	Ø 380 / Ø 450
Max. machining length	mm	450	450	1,000	450	1,000
Spindle nose form	mm	A2-5	A2-6	A2-6	A2-8	A2-8
Max. spindle speed	r/min	6,000	4,000	4,000	2,800	2,800
Turret type and tool capacity	PSC	Servo/12	Servo/12	Servo/12	Servo/12	Servo/12



L-P Series | High Precision CNC Horizontal Lathe

Gang Tool

- The tool holder is in the form of a dovetail slot tool holder or a T-slot tool holder



Item	Unit	L-P20G	L-P30G	L-P36G	L-P46G
Max. swing diameter on the bed	mm	Ø 240	Ø 240	Ø 420	Ø 420
Max. turning length	mm	1,000	1,000	330	330
Max. turning diameter	mm	Ø 100	Ø 100	Ø 300	Ø 300
Spindle head clamping form	mm	Ø 20mm Spring chuck	Ø 30mm Spring chuck	5" Hollow Collet	6" Hollow Collet
Max. spindle speed	r/min	6,000	6,000	6,000	6,000
Tool holder form	/	Gang Tool	Gang Tool	Full Gang Tool	Full Gang Tool
Quantity	PCS	-	-	7	7

D-VL Series | High Precision CNC Vertical Lathe

- The vertical structure avoids the roundness error caused by the gravity of the workpiece during horizontal clamping, ensuring the roundness accuracy of the parts.

Item	Unit	D-VL500	D-VL650	D-VL800	D-VL1250C	D-VL1600C
Max. swing diameter	mm	Ø 650	Ø 800	Ø 950	Ø 1,400	Ø 1,800
Max. turning diameter	mm	Ø 500	Ø 650	Ø 800	Ø 1,250	Ø 1,600
Max. workpiece height	mm	500	600	800	Ø 1,000	Ø 1,000
Chuck diameter	Inch	12" (Hydraulic chuck)	15" (Hydraulic chuck)	18" (Hydraulic chuck)	Ø 1100 mm (Worktable)	Ø 1400 mm (Worktable)
Spindle speed range	r/min	50~2,500	50~2,500	50~2,500	3.15 ~ 400	2.15 ~ 315
Turret type	PCS	8-bit hydraulic turret	8-bit hydraulic turret	8-bit hydraulic turret	8-bit ATC	8-bit ATC
Control system	/	Siemens 828D	Siemens 828D	Siemens 828D	Siemens 828D	Siemens 828D



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CNC Swiss-Type Automatic Lathe

ST Series CNC Swiss-Type Automatic Lathe
 TQ Series CNC Swiss-Type Automatic Lathe
 L-S Series CNC Swiss-Type Automatic Lathe

ST Series | CNC Swiss-Type Automatic Lathe

Single Spindle, 3 axes

- 3 linear feed axes.
- Single spindle with single system, the spindle adopts built-in motorized spindle.
- Possible to switch between guide bushing type and guide bushing-less type.
- The tool layout is rich, with good expansibility.
- Mitsubishi system secondary development. cold and hot machine compensation screen.

Item	Unit	ST-203 Single spindle, 3 axes	ST-263 Single spindle, 3 axes	ST-323 Single spindle, 3 axes
Max. machining diameter	mm	∅ 20	∅ 26	∅ 32
Max. machining length	mm	Max. 240	Max. 240	Max. 240
Front drilling diameter	mm	Max. ∅ 10	Max. ∅ 10	Max. ∅ 13
Front thread machining	mm	Max.M8	Max.M8	Max.M8
Control system	/	Mitsubishi E80	Mitsubishi E80	Mitsubishi E80



ST Series | CNC Swiss-Type Automatic Lathe

Double Spindles, 5 axes

- 5 linear feed axes.
- Dual spindles and dual systems, the spindle adopts mechanical spindle or motorized spindle.
- The tool layout is rich, with good expansibility.
- Possible to switch between guide bushing type and guide bushing-less type.
- Mitsubishi system secondary development. cold and hot machine compensation screen.

Item	Unit	ST-205 Double spindles 5 axes	ST-265 Double spindles 5 axes	ST-325 Double spindles 5 axes	ST-385 Double spindles 5 axes
Max. machining diameter	mm	∅ 20	∅ 26	∅ 32	∅ 38
Max. machining length	mm	Max. 240	Max. 240	Max. 240	Max. 240
Front drilling diameter	mm	Max. ∅ 10	Max. ∅ 10	Max. ∅ 13	Max. ∅ 13
Front thread machining	mm	Max.M8	Max.M8	Max.M8	Max.M8



ST Series | CNC Swiss-Type Automatic Lathe

Double spindles, 6 axes

- 6 linear feed axes.
- Dual spindles and dual systems, the spindle uses a built-in motorized spindle.
- 5 power tools, 5 end face hole tools.
- Possible to switch between guide bushing type and guide bushing-less type.

Item	Unit	ST-206 Double spindles, 6 axes	ST-266 Double spindles, 6 axes	ST-326 Double spindles, 6 axes	ST-386 Double spindles, 6 axes
Max. machining diameter	mm	∅ 20	∅ 26	∅ 32	∅ 38
Max. machining length	mm	Max. 240	Max. 240	Max. 240	Max. 240
Front drilling diameter	mm	Max. ∅ 10	Max. ∅ 10	Max. ∅ 13	Max. ∅ 13
Front thread machining	mm	Max.M8	Max.M8	Max.M8	Max.M8
Control system	/	Mitsubishi M80 LA	Mitsubishi M80 LA	Mitsubishi M80 LA	Mitsubishi M80 LA

TQ Series | CNC Swiss-Type Automatic Lathe

- Dual spindle and dual system design, with both main and sub-spindles equipped with motorized spindles. The system uses the Mitsubishi M80 control system.
- Capable of simultaneous front and back machining.
- Optional guide sleeve-free device, suitable for high-precision machining of short workpieces



Item	Unit	TQ-125I Double spindles 5 axes	TQ-125II Double spindles 5 axes	TQ-126I Double spindles 6 axes	TQ-205I Double spindles 5 axes	TQ-205II Double spindles 5 axes	TQ-206I Double spindles 6 axes
Max. machining diameter	mm		∅ 12			∅ 20	
One-time feeding length	mm		Synchronous guide sleeve 130mm Fixed guide sleeve 300mm			Synchronous guide sleeve 130mm Fixed guide sleeve 300mm	
Front drilling diameter	mm		Max. ∅ 8			Max. ∅ 10	
Front thread machining	mm		Max.M6			Max.M8	
Control system	/		Mitsubishi M80			Mitsubishi M80	

L-S Series | CNC Swiss-Type Automatic Lathe



Item	Unit	L-S205/L-S206
Max. machining diameter	mm	∅ 12
Max. machining length	mm	140(direct connection)/180(electric)
Front drilling diameter	mm	Max. ∅ 13
Front thread machining	mm	Max.M8
Control system	/	FANUC Oi-TF PLUS(5)

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Multi-Spindle Machining Center Multi-Channel Machining Center

Single-spindle Engraving Processing Machine
Multi-channel Engraving Processing Machine

Multi-spindle Engraving Processing Machine
Dual-spindle Processing Machine

Single-spindle Engraving Processing Machine

- Single spindle and single worktable, used for metal parts machining.
- Application: Precision machining of aluminum alloy and stainless steel parts; Precision machining of copper electrodes and small copper molds.



Item	Unit	C-400E	C-550E	C-650	C-M650	C-870
Table size	mm	400×400	550×500	600×500	600×500	800×700
X/Y/Z axis travel	mm	400/400/150	550/450/200	600/500/260	600/500/260	700/800/320
Spindle	r/min	40,000	36,000	24,000	30,000	24,000
Spindle taper	/	ISO 20	HSK-E32	BT30	HSK-E40	BT30
Tool magazine	PCS	15	16	12	16	12

Single-spindle Engraving Processing Machine

- Single spindle and single worktable, used for non-metallic parts machining.
- Application: grinding of glass products such as TFT glass and automotive glass; fine carving of TV frames and large plate parts; fine carving and grinding of brittle and hard materials such as glass, ceramics, and sapphire.



Item	Unit	B-400E	B-550E	B-850E	B-1580
Table size	mm	400×400	550×450	850×600	1,500×800
X/Y/Z axis travel	mm	400/400/150	550/450/200	800/600/150	1,500/800/220
Spindle	r/min	40,000	36,000	36,000	36,000
Spindle taper	/	ISO 20	HSK-E32	HSK-E32	ISO 25
Tool magazine	PCS	10	13	13	10

Multi-channel Engraving Processing Machine

- Multiple X/Y/Z axis designs, multiple independent machining units, different channels can be operated independently, and controlled by a set of CNC systems.
- Applications: milling, drilling, and tapping of 3C products; machining of small plates, discs, and shells in industries such as 5G, auto parts, small molds, and medical devices.



Item	Unit	C-400E-2D	C-400-2D	C-400-3D	C-560-2D	T-500-2D	T-700-2D
Table size	mm	400×400	400×400	420×500	500×600	620×400	400×700
X/Y/Z axis travel	mm	400/400/200	400/400/200	400/400/200	500/600/200	400/500/320	400/700/320
Spindle	r/min	40,000	40,000	36,000	40,000	20,000	20,000
Spindle taper	/	ISO 20	ISO 20	ISO25	ISO 20	BT30	BT30
Tool magazine	/	18T×2	18T×2	21T×3	21T×2	21T×2	21T×2

Multi-spindle Engraving Processing Machine

- Multi-spindle synchronous machining.
- Application: Precision machining of small aluminum alloy parts such as mobile phone camera brackets, buttons, volume buttons, etc.



Item	Unit	C-700-2	C-800E-2	C-800E-3	C-800E-4
Table size	mm	700×500	840×500	840×500	840×500
X/Y/Z axis travel	mm	350/500/150	420/500/150	280/500/150	210/500/150
Spindle	r/min	60,000	60,000	60,000	60,000
Spindle taper	/	T11	T11	T11	T11
Tool magazine	/	12T×2	25T×2	25T×3	25T×4

Multi-spindle Engraving Processing Machine

- Multi-spindle synchronous machining.
- Application: Precision machining of small aluminum alloy parts such as mobile phone camera brackets, volume buttons, etc.



Item	Unit	C-1100-2	C-1100-3	C-1100-4	C-1200-4	C-1200-6
Table size	mm	1,100×500	1,100×500	1,100×500	1,200×500	1,260×500
X/Y/Z axis travel	mm	520/500/150	380/500/150	280/500/150	300/500/200	210/450/150
Spindle	r/min	36,000/30,000	36,000/30,000	36,000/30,000	30,000	60,000
Spindle taper	/	ISO25/BT30	ISO25/BT30	ISO25/BT30	BT30	T11
Tool magazine	PCS	16T×2/21T×2	16T×3/21T×3	16T×4/21T×4	16T×4/21T×4	20T×6

Dual-spindle Processing Machine

- Double-head double tool magazine single worktable, dual spindle synchronous machining, can effectively improve processing efficiency and reduce floor space.
- Application: Machining of small plates, discs, and shells in 5G, 3C industry, automotive parts, medical equipment and other fields.

Item	Unit	T-5040-2	T-6050-2
Table size	mm	1,200×400	1,400×500
X/Y/Z axis travel	mm	500/400/320	600/500/600
Spindle	r/min	20,000	12,000
Spindle taper	/	BT-30	BT-40
Tool magazine	PCS	Swash plate type 21T×2	Arm type 24T×2



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