MARLA

TURKEY

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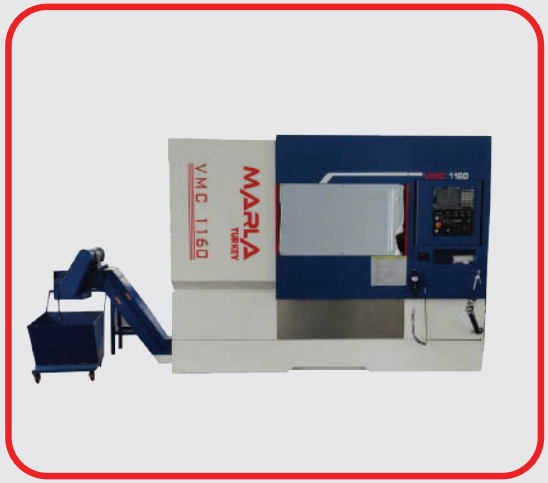
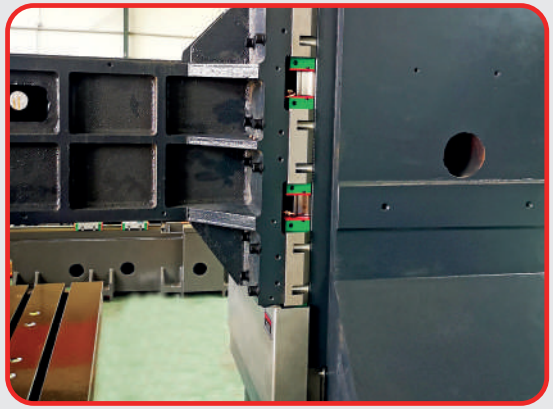


VERTİCAL

ITEM	UNIT	VMC650	VMC855	VMC1160
Worktable size (LxW)	mm	800x500	1000X550	1200X600
X/Y/Z axis travelm	m	600/500/500	800/550/550	1100/600/600
Spindle nose to worktable	mm	120-620	150-650	120-720
Spindle center to column	mm	5505	50	650
X/Y/Z Leadscrew diameter	mm	Φ40	Φ40	Φ40
X/Y/Z Linear guideway width	mm	35/35/35(Ball)	45/45/45(Ball)	45/45/45(Ball)
Max loading capacity	kg	4006	00	800
T-slots(NO./width/pitch)		5*18*905	*18*90	5*18*100
Spindle taper		BBT40-120B	BT40-150	BBT40-150
Spindle speedr	pm	8000	8000/12000	8000/12000
Main motor power	kw	5.5/7.57	.5/111	1/15
X/Y/Z Fast moving speedm	/min	36/36/36	36/36/30	36/36/30
Cutting speedm	m/min	1-100001	-100001	-10000
Feed motor torque	N/M8	/8/121	2/12/222	2/22/22
Feed motor power	kw	1.2/1.2/2.02	.0/2.0/3.0	3.0/3.0/3.0
Tool magazine capacityp	cs	Arm type 24	Arm type 24	Arm type 24
Positioning accuracy	mm	0.0080	.008	0.008
Repeat accuracy	mm	0.0050	.005	0.005
Machine body (LxWxH)	mm	2800x2200x2800	3000X2300X2900	3300X2400X3000
Weight	kg	3900	6400	7500

VERTİCAL



ITEM	UNIT	VNC1270V	MC1370V	MC1580V	MC1890
Worktable size (LxW)	mm	1300X700	1400X700	1600X800	2000X900
X/Y/Z axis travel	mm	1200/700/600	1300/700/700	1500/800/700	1800/900/800
Spindle nose to worktablem	m	150-800	110-810	155-855	150-950
Spindle center to column	mm	7107	50	8559	65
X/Y/Z Leadscrew diameter	mm	Φ40	Φ45	Φ50	Φ55
X/Y/Z Linear guideway width	mm	45/55/45(Roller)	45/45/45(Roller)	55/45/55(Roller)	55/55/55(Roller)
Max loading capacity	kg	1000	1200	1500	2000
T-slots(NO./width/pitch)		7*18*100	5*18*110	7*22*110	7*22*120
Spindle taperB		BT40-150	BBT40-150B	BT40-150	BBT40-150
Spindle speedr	pm	8000-12000	8000-12000	8000-12000	8000-12000
Main motor power	kw	11/151	5/18.5	15/18.51	5/18.5
X/Y/Z Fast moving speedm	/min	36/36/24	30/30/24	30/30/24	30/30/24
Cutting speedm	m/min1	-100001	-100001	-100001	-10000
Feed motor torqueN	/M	22/22/22	37/37/37	37/37/37	37/37/37
Feed motor power	kw	3.0/3.0/3.04	.5/4.5/4.5	4.5/4.5/4.54	.5/4.5/4.5
Tool magazine capacity	pcs	7300	9500	11000	14000
Positioning accuracy	mm	0.0080	.008	0.0080	.008
Repeat accuracy	mm	0.0050	.005	0.0050	.005
Machine body (LxWxH)m	m	3450X2500X3050	3800X2560X3200	4300X2800X3300	4300X3100X3500
Weight	kg	8500	11000	12500	14000

DOUBLE COLUMN MACHINING CENTER

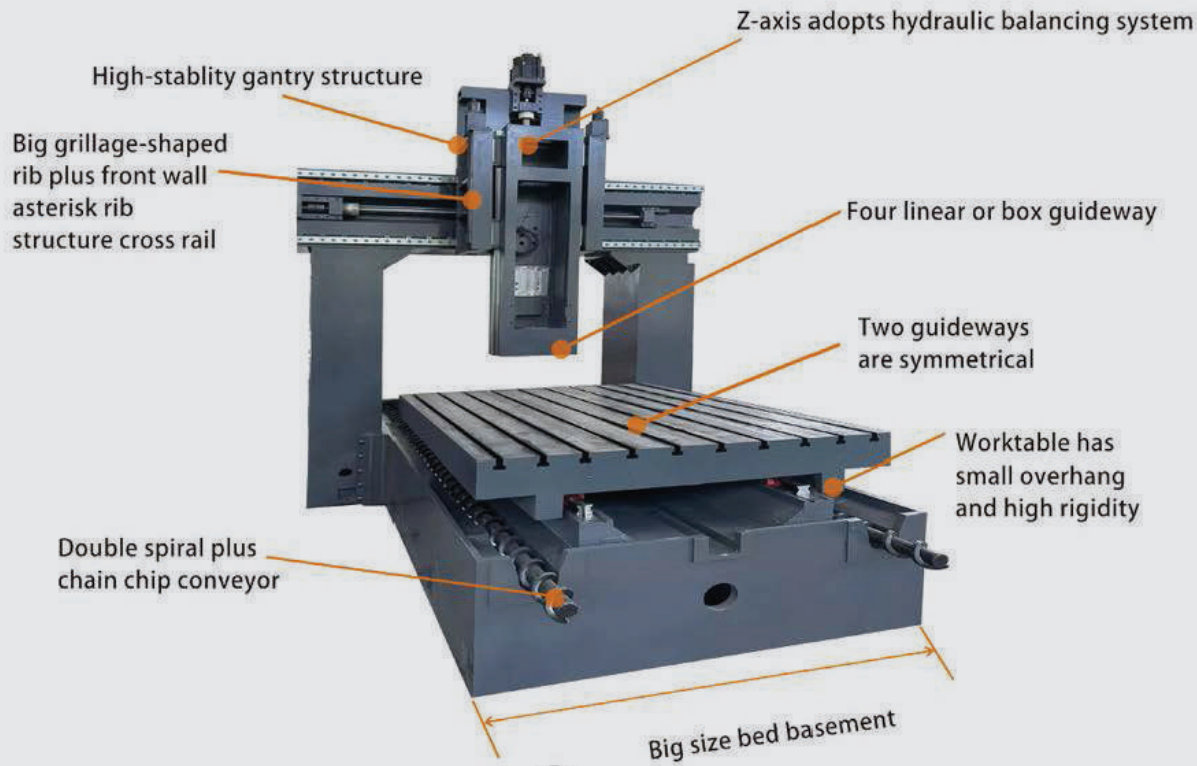
This series of products is designed through finite element analysis and has the characteristics of high rigidity, high stability, and high precision. With high-speed spindle, it is suitable for high-speed precision machining.

Ma in feature:

* Select imported high-precision functional components and strictly follow the manufacturing process reguirements for precision-grademachine tools to meet overall accuracy and performance.

* Overall design is based on the reguirements of high speed, heavy load and heavy cutting, which meets high rigidity of machine tool.

* Strict quality process control Standard ensures product service life, stability and reliability.



Machine appearance

User site

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		1090	1210	1512	2013
	Gantry vvidth	1000	1280	1380	1300
Travel	X-axis travel	1000	1200	1500	2000
	Y-axis travel	900	1000	1200	1300
	Z-axis travel	500	500/700	500X700	500X700
	Dist anır frwı spindle no» tu W0fkUbte mn	150 650	150- 650	150- 850	150-850
	Max gantry height	650	650	650X850	650X850
Worktable	Worktable size	1000X900	1200X1000	1500X1200	2000X1100
	T slot (No.-sizexspace)				
	Max load kg	4	4	5	6
Spindle	Spindle (model)	BT40\BT50	BT40\BT50	BT40\BT50	BT40\BT50
	(KW) Spindle motor power	7.5/11	11\15	11X15	11X15
	TorqueN • m	47.7	70X95.5	70X95.5	70/95.5
	Spindle speed (r/min)	8000\6000	8000X6000	8000X6000	8000/6000
Drive	X. Y. ZBall screw	4010X5010	4010X5010	4010X5010	4010/5010
	X. Y. Z Rapidfeedrate (m/mln)	15/15/15	15/15/15	15/15/15	15X15X15
	X. Ys Z Roller guideway	XYZ (Four)	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X, Y, ZCoupler	95	95	95	95
	X.YZ Motor connection	belt/direct	belt/direct	belt/direct	belt/direct
Accuracy	Positioning accuracy (mm)	0.015	0.015	0.015	0.015
	Repositioning accuracy (mm)	0.01	0.01	0.01	0.01
Optional	Spindle (model/size/speed)	Belt BT4O/0İ50-8000 Belt BTSO/0155-6000			
	Tool magazine	24 Arm type			
	Z-axisguideway	Z Four linear / box guideway			
Other	Total power(Kw)	30			
	Overall weight	8	8.5	9	11
	Overall size	3500X2750X3600	3800X2800X3600	4000X2850X3800	5500X2850X3800
	System	FANUC (Syntec'Mitsubishi)	FANUC ISyntec/ Mitsubishıl	FANUC (Syntec/ Mitsubishi)	FANUC (Syniec'Mitsubishi)

		1312	1812	2012
	Gantry width	1200		
Travel	X-axis travel	1300	1800	2000
	Y-axis travel	1100		
	Z-axis travel	500-700		
	Distance from spindle nose to worktable (mm)	150-650 (850)		
	Max gantry height	800		
Worktable	Worktable size	1300X1100	1800X1100	2000X1100
	T-slot(No.-$izexspacel			
	Max load kg	6	7	7
Spindle	Spindle (model)	BT40/0İ50		
	(KW; Spindle motor power	7.5/11		
	Torque N • m	47.7 \70		
	Spindle speed (r/min)	8000		
Drive	X. Y. Z Ball sere»	4010\5010		
	X. Y. Z Rapid feed rate (m/min)	15/15/15		
	X. Y. Z Roller guideway	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X. Y. ZCoupler			
	X.Y.Z Motor connection	belt/direct		
Accuracy	Positioning accuracy (mm)	0.015	0.015	0.015
	Repositioning accuracy (mm)	0.01	0.01	0.01
Optional	Spindle (model/size/speed)	Belt BT40/0150-8000 Belt BT50/0155-6000		
	Tool magazine	24 Arm Type		
	Z-axis guideway	Z Four linear / box guideway		
Other	Total power (Kw)	20		
	Overall weight	9	14	16
	Overall size	4500X2600X3100	5500X2600X3100	6300X2600X3100
	System	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/ Mitsubishi)	FANUC (Syntec/ Mitsubishi)

MARLA TURKEY

		1715	2015	2515	3015
	Gantry width	1500			
Travel	X-axis travel	1700	2000	2500	3000
	Y-axis travel	1500			
	Z-axis travel	700			
	Mtancc from sptndk no» t o wofkubie ı rar	150-850			
	Max gantry height	800			
Worktable	Worktable size	1700x1400	2000X1400	2500X1400	3000X1400
	T-slot(No.-sizexspacel				
	Max load kg	6	6.5	7	8
Spindle	Spindle (model)	BT40\BT50	BT40\BT50	BT50	BT50
	(KW Spindle motor power	7.5/11	11\15	15X18.5	15X18.5
	Torque N • m	47.7	70	95.5	95.5
	Spindle speed (r/min)	8000\6000	8000\6000	8000X6000	8000X6000
Drive	X, Y. ZBall$crew	4010\50l0	4010\5010	5010X5010	6310X5010
	X. Y. 2 Rapid feed rate {mimini	15/15/15	15/15/15	15/15/15	15/15/15
	X. Y. Z Roller 9«ldeway	XYZ (Four)	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X. Y. ZCoupler	95	95	95	120
	X.Y.Z Motor connection	belt/direct	belt/direct	belt/direct	belt/direct
Accuracy	Positıonıng accuracy (mm)	0.015	0.015	0.015	0.015
	Repositioning accuracy (mm)	0.01	0.01	0.01	0.01
Optional	Spindle (model/sıze/speed)	Belt BT4O/0150-8000 Belt BT5O/0155-6000			
	Tool magazine	24 Arm Type			
	Z axis guideway	Z Four linear / box guideway			
Other	Total power (Kw)	30			
	Overall weight	16	18	20	23
	Overall size	4500X2750X4100	5500X2750X4100	6500X2750X4100	7500X2750X4100
	System	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/ Mitsubishi)	FANUC (Syntec/ Mitsubishi)	FANUC (Syntec/ Mitsubishi)

		2018	2518	3018
	Gantry width	1800		
Travel	X-axis travel	2000	2500	3000
	Y-axis travel	1800		
	Z-axis travel	700		
	Distance from spindle nose to worktable (mm)	150-850		
	Max gantry height	800		
Worktable	Worktable size	1700X1500	2000X1500	2500X1500
	T-slot(No.-sizexspace)			
	Max load kg	6	6.5	7
Spindle	Spindle (model)	BT40\BT50	BT40\BT50	BT50
	(KW) Spindle motor power	7.5/11	11X15	15X18.5
	Torque N • m	47.7\70	70X95.5	95.5X117.7
	Spindle speed (r/min)	8000\6000	8000X6000	8000X6000
Drive	X. Y. Z Ball sere»	4010X5010	4010X5010	5010X5010
	X, Y, Z Rapid feed rate (m/rnin)	15/15/15	15/15/15	15/15/15
	X. Yk Z Roller guWeway	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X. Y. ZCoupler	95	95	95
	X.Y.Z Motor connection	belt/direct	belt/direct	belt/direct
Accuracy	Positioning accuracy (mm)	0.015	0.015	0.015
	Repositioning accuracy (mm)	0.01	0.01	0.01
Optional	Spindle (model 'size/speed)	Belt BT4O/0150- 8000 Belt BT5O/0155- 6000		
	Tool magazine	24 Arm Type		
	Z-axis guideway	Z Four linear / box guideway		
Other	Total power (Kw)	30		
	Overall weight	16	18	20
	Overall size	4500X2750X4100	5500X2750X4100	6500X2750X4100
	System	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/Mitsubishi)

DOUBLE COLUMN MACHINING CENTER

This series of products is designed through finite element analysis and has the characteristics of high rigidity, high stability, and high precision. With high-speed spindle, it is suitable for high-speed precision machining.

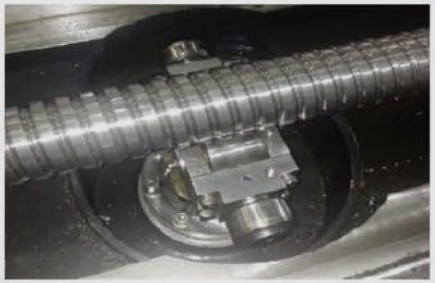
Ma in feature:

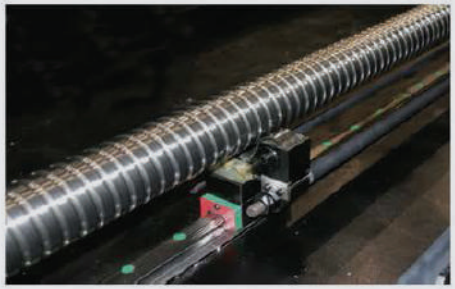
- Select imported high-precision functional components and strictly follow the manufacturing process requirements for precision-grade machine tools to meet overall accuracy and performance.

• Overall design is based on the requirements of high speed, heavy load and heavy cutting, which meets high rigidity of machine tool.

• Strict quality process control Standard ensures product service life, stability and reliability.

• Suitable for processing the mold of medium and large precision parts.





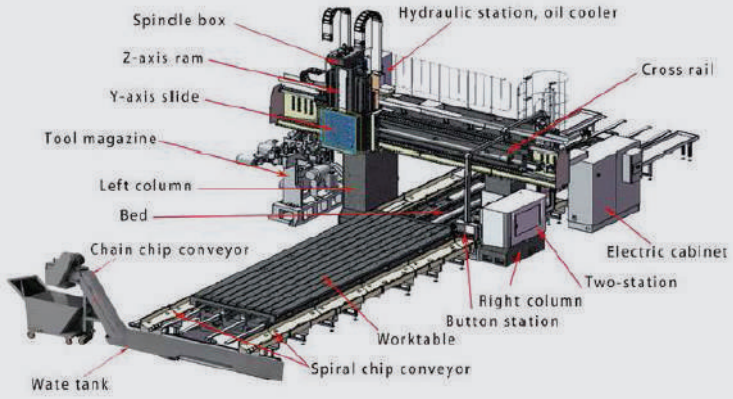
For machine tools with travel over 4 meters, X-axis ball screw is equipped with fixed auxiliary support structure.

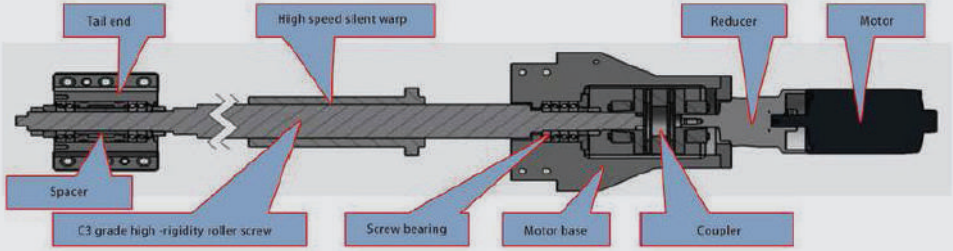
It can effectively reduce the self-weight sagging and increase the limit speed of screw.

Three-linear guiderail for Y-axis with door width above 2.8m

Optionl box guideway for Z-axis

Optionl four-linear guideway for Z-axis





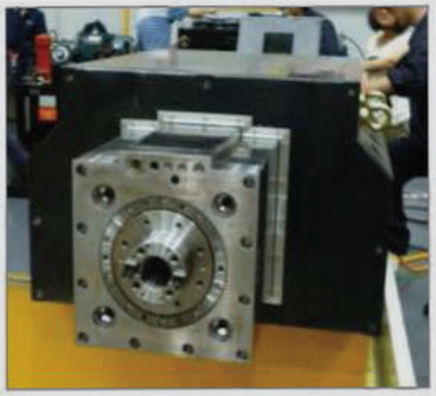
20 series gantry data

		2520	3020	4020
	Gantry width	2000		
Travel	X-axis travel	2500	3000	4000
	Y-axis travel	2000		
	Z-axis travel	850(1000)		
	Distance from spindle nose to worktable (mm)	150-950		
	Max gantry height	950		
Worktable	Worktable size	2500x1800	3000x1800	4000x1800
	T-slot (No.-sizexspace)			
	Max load kg	8000	10000	15000)
Spindle	Spindle (model)	Belt BT5O/0155-6000		
	(KW) Spindle motor power	15-18.5KW		
	Torque N • m	95.5-117.7		
	Spindle speed (r/min)	6000		
Drive	1 Y. Z Ballscrew	5010\6310		
	X. Y. Z Rapidfeedrate (m/min)	15/15/15		
	X. Ys Z Roller guideway	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X. Y. ZCoupler	120	120	120
	X.Y.Z Motor connection	belt/direct		
Accuracy	Positioning accuracy (mm)	0.02	0.02	0.02
	Repositioning accuracy (mm)	0.01	0.01	0.01
Optional	Spindle (model/size/speed)	BT50		
	Tool magazine	24 Arm Type		
Other	Z-axisguideway	Z Four linear / box guideway		
	Total power (Kw)	35		
	Overall weight	22	26	33
	Overall size	7500X3450X4600	8500X3450X4600	10500X3650X4600
	System	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/Mitsubishi)

25 series gantry data

		3025	4025	5025	6025
	Gantry width	2500			
Travel	X-axis travel	3000	4000	5000	6000
	Y-axis travel	2800			
	Z-axis travel	1000 (1000-1400)			
	Distance from spindle nose to worktable (mm)	150-1150			
	Max gantry height	1150			
Worktable	Worktable size	3000/2000	4000/2000	5000/2000	6000/2000
	T-slot (No.-sizexspace)				
	Max load kg	10000	15000	20000	20000
Spindle	Spindle (model)	BT50	BT50	BT50	BT50
	(KW) Spindle motor power	15-18.5KW	15-18.5KW	22-26KW	22- 26KW
	Torque N • m	95.5-117.7	95.5-117.7	140-165.5	140-145.5
	Spindle speed (r/min)	6000/4500			
Drive	X. Y. Z Ballscrew	6316X5010X5010	6316X5010X5010	8020X6310X6310	8020X6310X6310
	X, Y. Z Rapid feed rate (m/min)	15/15/15			
	X. Ya Z Roller guideway	XYZ (Four)	XYZ (Four)	XYZ (Four)	XYZ (Four)
	X. Y. ZCoupler	120	120	125	125
	X.Y,Z Motor connection	belt/direct			
Accuracy	Positioning accuracy (mm)	0.02	0.02	0.02	0.02
	Repositioning accuracy (mm)	0.01	0.01	0.01	0.01
Optional	Spindle (model/size/speed)	BT50			
	Tool magazine	24 Arm Type			
	Z-axis guideway	Z Fpur linear / box guideway			
Other	Total power (Kw)	30			
	Overall weight	27	36	44	50
	Overall size	8500X3650X4600	10500X3650X4600	12500X3850X5400	14500X3850X5600
	System	FANUC (Syntec/Mitsubishi)	FANUC (Syntec/ Mitsubishi)	FANUC (Syntec/ Mitsubishi)	FANUC (Syntec/ Mitsubishi)

Frequently Used Additional Accessories



Square ram structure advantages:

1. Square ram structure has good rigidity
2. Ram is restrained on ali sides and has good vibration resistance

Square ram structural features:

1. Closed four-sided constraint form, large contact surface, strong torsional rigidity, and good vibration resistance.
2. Square ram structure can not only bear axial heavy load but also strong cutting load from transverse spindle.
3. The process reguirement for ram slide is relatively high and cost is relatively high.

Frequenly used angle head

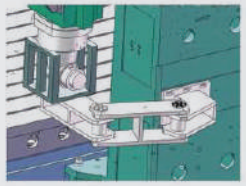
Universal head (3+2 axis)

90° side milling head

Bidirectional
right-angle milling head

Semi-automatic
right-angle milling head

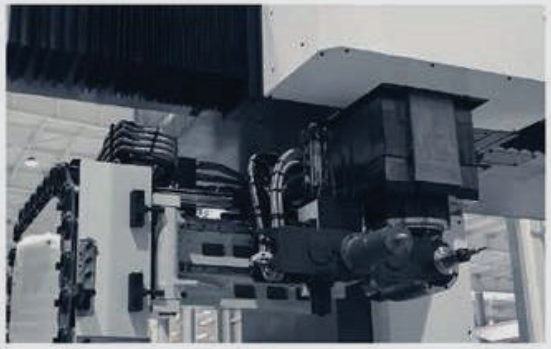
Automatic
head magazine



Manual swing support

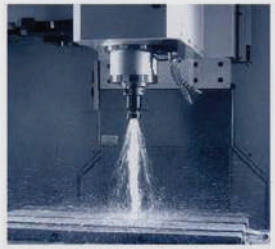
Vertical and horizontal transfer tool magazine:

taking into account the tool changing requirement of vertical milling head and right-angle milling head to improve work efficiency

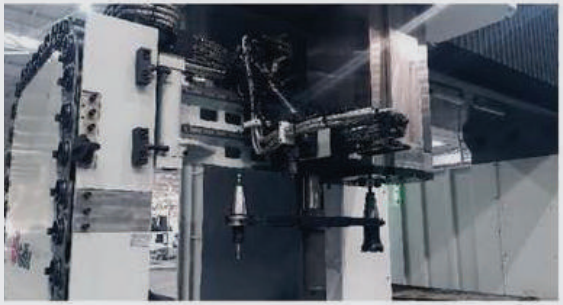


24 arm tool magazine

30-36 chain tool magazine



Coolant through spindle



Chip conveyor

Automatic tool length measurement system

ZF/BF gearbox

U-260

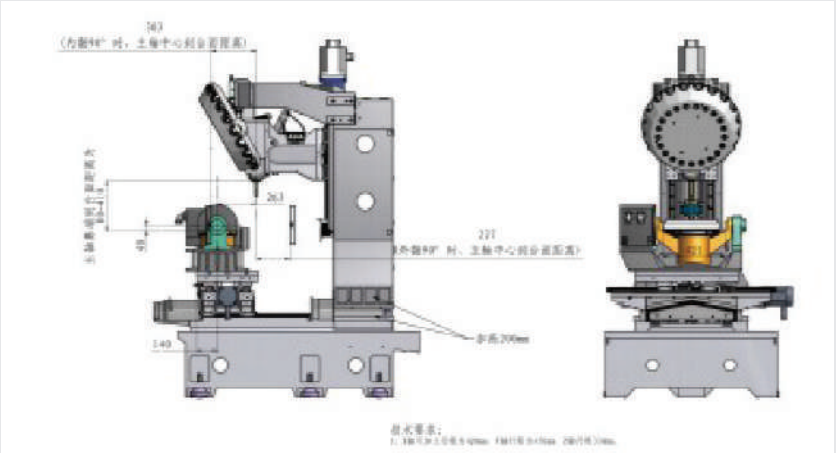
Five-axis machining center

Features of the machine

U-260 5-axis machining center, a CNC machining machine with superior cost performance. It can realize drilling, reaming, reaming, countersinking, tapping, milling, boring and other processing, which is suitable for parts processing with high precision and productivity requirements, and can completely save some special fixtures and marking and other processes, grea tly reducing the labor intensity of workers. The machine is suitable for:

Automobile, motorcycle, aerospace, military, instrument, instrument, electronics, mold and other industries, high hole spacing accuracy of small and medium-sized discs, plates, shells, valve bodies, cams and other parts of drilling, milling, boring, tapping, etc., processing to achieve programming, shorten the production cycle.

Installation d1mens1ons



Technical parameters

Project	U-260
X/Y Z axFs motion positioning accuracy	0.005/0.005/0.005mm
A/C axis motion positioning accuracy	±3"
XIY Z axis repeatability	0.003/0.003/0.003mm
AIC axis repeatab1llty	±1"
X/Y/Z axis working stroke	50014501330mm
A/C axis rotation angle	-110·-110°/360°
Table cfiameter	Ø200mm
C-axis rotation diameter	420mm
Maximum working load	45kg
Spindle maximum power/maximum torque	11kw/22N.m
The distancetrom lhe nose of lhe spindle lo the table	80- 4 10mm
Maximum spindle speed	24000rpm
Shank speclficalions	BBT30
Tool magazine capacity	21
X/Y/Z axis fast traverse speed	24mlmln
A/C axis fast traverse speed	200/200rpm
Maximum cutting speed in X/Y/Z axis	12m/min
Maximum cutting speed of A/C axis	100/100rpm
Control system	
Operating voltage	380V/50Hz
Compressed air pressure	>0.65MPa
The Iola I weight of the machine	3600kg
The distance from the center og the spindle to the table during the A-xis inverted 90 machining	303mm
The distance from the center og the spindle to the table when the A-xis is turned out at 90	227mm

Standard configuration

+ DD 5-axis turntable
+ RTCP tip follows
+ CNC operating system
+ Handwheel controller
+ Contact tool seller
+ Constant temperarure oil cooler
+ Electrical cabinet heat exchanger
+ 21 T clamp arm tool magazine
+ Rigid tapping

Optional

+ Calibration package
(probe: imported/domestic)
+ Oil mist collector
+ Double helix rear cutter
+ 26/36 clamp-arm tool changer
+ BT40 spindle

Typical Applications

+ Industrial model
+ Die-cast parts
+ Medical device parts
+ Automotive mold inserts
+ Impeller/scroll disk
+ Musical instrument accessories
+ Gear molds and parts
+ Ornaments/crafts
+ Fixture structural parts
+ Composite machining of structural parts

U-400

Five-axis machining center

Features of the machine

The U-400 5-axis machining center is fully protected against cutting fluids and chips splashing everywhere and beautiful and generous; With Taiwan professional well- known companies to produce complete sets of spindles, with good performance, strong broaching force and service life; Standard spindle oil cooler; It can optionally be equipped with an automatic chip removal device lo ensure a clean interior with the bed structure.

Technical parameters

Project	U-400
X/Y Z axFs motion positioning accuracy	0.005/0.005/0.005mm
A/C axis motion positioning accuracy	±5"
XIY Z axis repeatability	0.00510.00510.005mm
AIC axis repeatab1llty	4"
X/Y/Z axis working stroke	50015101450mm
A/C axis rotation angle	- 110· -110°/360°
Table cfiameter	0260mm
C-axis rotation diameter	400mm
Maximum working load	60kg
Spindle maximum power/maximum torque	11kw/35N.m
The distancetrom lhe nose of lhe spindle lo the table	37-487mm
Maximum spindle speed	15000rpm
Shank speclficalions	BBT40
Tool magazine capacity	24
X/Y/Z axis fast traverse speed	24m/min
A/C axis fast traverse speed	200/200rpm
Maximum cutting speed in X/Y/Z axis	10mlmin
Maximum cutting speed of A/C axis	100/100rpm
Control system	
Operating voltage	380V/50Hz
Compressed air pressure	>0.65MPa
The Iola I weight of the machine	4000kg
The distance from the center og the spindle to the table during the A-xis inverted 90 machining	370mm
The distance from the center og the spindle to the table when the A-xis is turned out at 90	140mm

Standard configuration

+ DD 5-axis turntable
+ RTCP tip follows
+ CNC operating system
+ Handwheel controller
+ Contact tool seller
+ Constant temperarure oil cooler
+ Electrical cabinet heat exchanger
+ 21 T clamp arm tool magazine
+ Rigid tapping

Optional

+ Calibration package
(probe: imported/domestic)
+ Oil mist collector
+ Double helix rear cutter
+ 32T disc type tool magazine
+ Motor spindle

Typical Applications

+ Industrial model
+ Die-cast parts
+ Medical device parts
+ Automotive mold inserts
+ Impeller/scroll disk
+ Musical instrument accessories
+ Gear molds and parts
+ Ornaments/crafts
+ Fixture structural parts
+ Composite machining of structural parts

U-500

Five-axis machining center

Features of the machine

The U-500 five-axis machining center is equipped with full protection, which effectively prevents cutting fluid and chips from splashing everywhere, and has a beautiful and generous appearance; With Taiwan professional well- known companies to produce complete sets of spindles, with good performance, strong broaching force and service life; Standard spindle oil cooler; It can optionally be equipped with an automatic chip removal device to ensure a clean interior with the bed structure.

Technical parameters

Project	U-400
X/Y Z axFs motion positioning accuracy	O .005/0.005/0.00Smm
A/C axis motion positioning accuracy	± 3"
XIY Z axis repeatability	0.005/0.00510 .005mm
AIC axis repeatab1llty	± 1"
X/Y/Z axis working stroke	660/550/600mm
A/C axis rotation angle	- 110' - 11 0'/360°
Table cfiameter	0260mm
C-axis rotation diameter	510mm
Maximum working load	160kg
Spindle maximum power/maximum torque	22kw/72N.m
The distancetrom lhe nose of lhe spindle lo the table	50-650mm
Maximum spindle speed	15000rpm
Shank speclficalions	BBT40
Tool magazine capacity	24!e (lm&rt)
X/Y/Z axis fast traverse speed	24m/min
A/C axis fast traverse speed	200/200rpm
Maximum cutting speed in X/Y/Z axis	10m/min
Maximum cutting speed of A/C axis	100/100rpm
Control system	
Operating voltage	380V/50Hz
Compressed air pressure	a,0.65MPa
The Iola I weight of the machine	5500kg
The distance from the center og the spindle to the table during the A-xis inverted 90 machining	370mm
The distance from the center og the spindle to the table when the A-xis is turned out at 90	240mm

Standard configuration

+ DD 5-axis turntable
+ RTCP tip follows
+ CNC operating system
+ Handwheel controller
+ Contact tool seller
+ Constant temperarure oil cooler
+ Electrical cabinet heat exchanger
+ 24T clamp arm tool magazine
+ Rigid tapping

Optional

+ Calibration package
(probe: imported/domestic)
+ Oil mist collector
+ Double helix rear cutter
+ 32T disc type tool magazine
+ Motor spindle

Typical Applications

+ Industrial model
+ Die-cast parts
+ Medical device parts
+ Automotive mold inserts
+ Impeller/scroll disk
+ Musical instrument accessories
+ Gear molds and parts
+ Ornaments/crafts
+ Fixture structural parts
+ Composite machining of structural parts

SINGLE COLUMN CNC VERTICAL LATHE — VTC SERIES

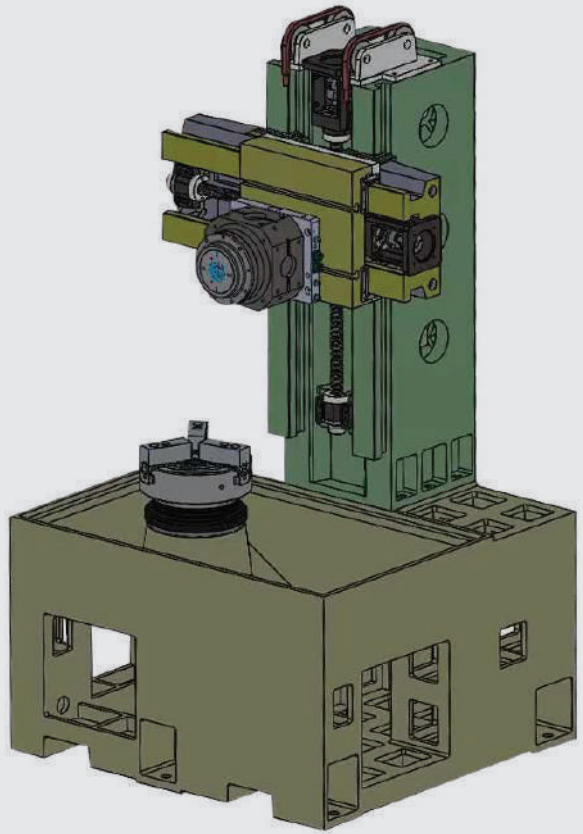
Main parameter

Models	Chuck inches (inch)	Max cutting dia (mm)	Max cutting high (mm)	Max spindle speed (rpm)	Spindle motor power(kw)
VTC50	15⊠/18⊠	φ500	500	1000	15
VTC60	18⊠/21⊠	φ600	600	1000	18.5
VTC70	21⊠/24⊠	φ700	700	800	22
VTC80A	24⊠/32⊠	φ800	800	800	22
VTC100A	32⊠/40⊠	φ1000	1000	800	37

SINGAL COLUMNS CNC VERTICAL LATHE —CK SERIES

High rigidity shaft feed structure

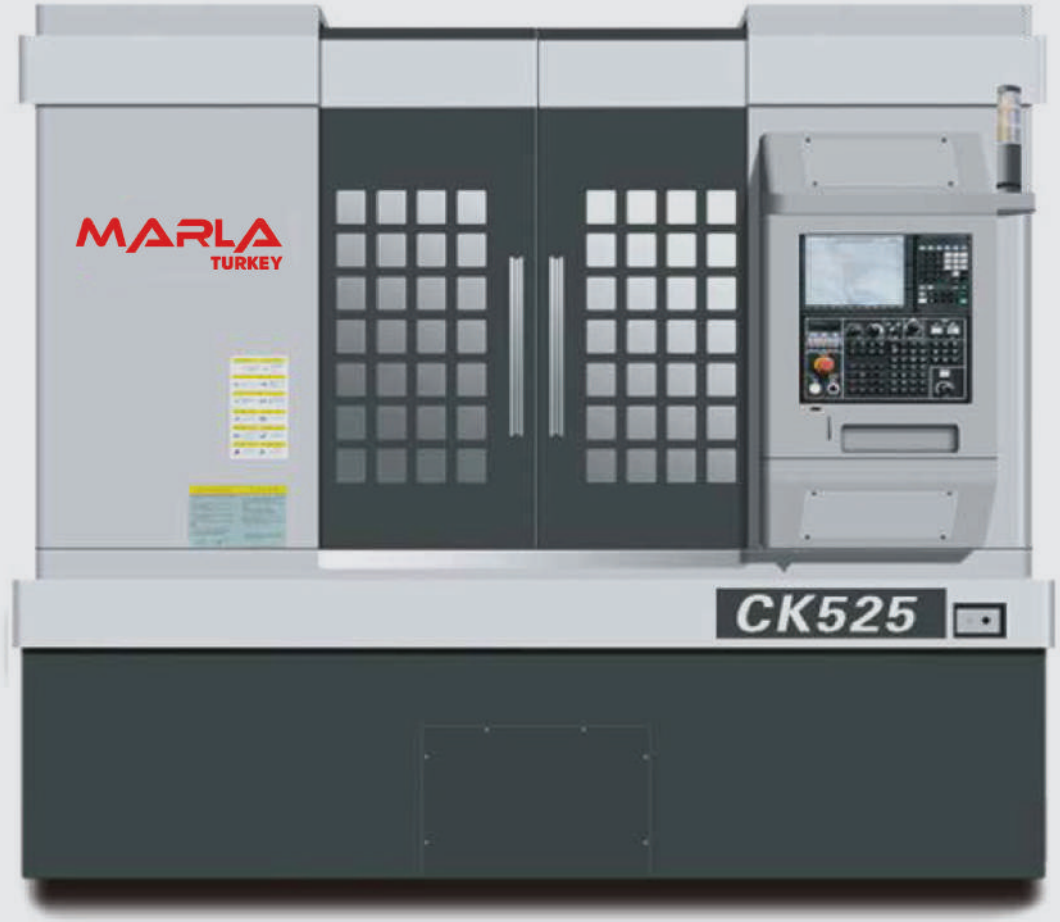
The full-axis hard rail structure is adopted, and the width and span of the guide rail are expanded at the same time to effectively improve the rigidity of the equipment, making the equipment more suitable for heavy-duty cutting



Main parameter

Models	Chuck inches (inch)	Max cutting dia (mm)	Max cutting high (mm)	Max spindle speed (rpm)	Spindle motor power(kw)
CK60	18"	φ600	650	1000	18.5
CK80	24"	φ750	670	800	22
CK100	24"	φ1000	1000	800	22

SINGAL COLUMNS CNC VERTICAL LATHE —CK SERIES



Main parameter

Models	Chuck inches (inch)	Max cutting dia (mm)	Max cutting high (mm)	Max spindle speed (rpm)	Spindle motor power(kw)
CK525	15"/18"	φ500	500	1000	18.5

DOUBLE COLUMNS CNC VERTICAL LATHE —KD SERIES

Features

Dynamic column structure, solid and stable, strong heavy cutting ability
High-power spindle motor, high torque output
· X-axis three-wire rail layout, greatly improve the rigidity and movement stability of the machine tool, double chip conveyor rear row, ultra-high cutting and removal efficiency
The brake disc can be fed with two poles at the same time, and the accuracy and effect are double guaranteed

Main parameter

Models	Chuck inches (inch)	Max cutting dia (mm)	Max cutting high (mm)	Max spindle speed (rpm)	Spindle motor power(kw)
KD500	15 "/18"	Φ500	500	1000	30
KD600	18 "/21"	Φ600	600	1000	30

MARLA TURKEY

CNC turning and milling compound-- VTCH

Multi-process, complex parts are molded at one time series

Partial display of machined parts

Car wheels

Brake drum

Brake discs

clutch

cogs

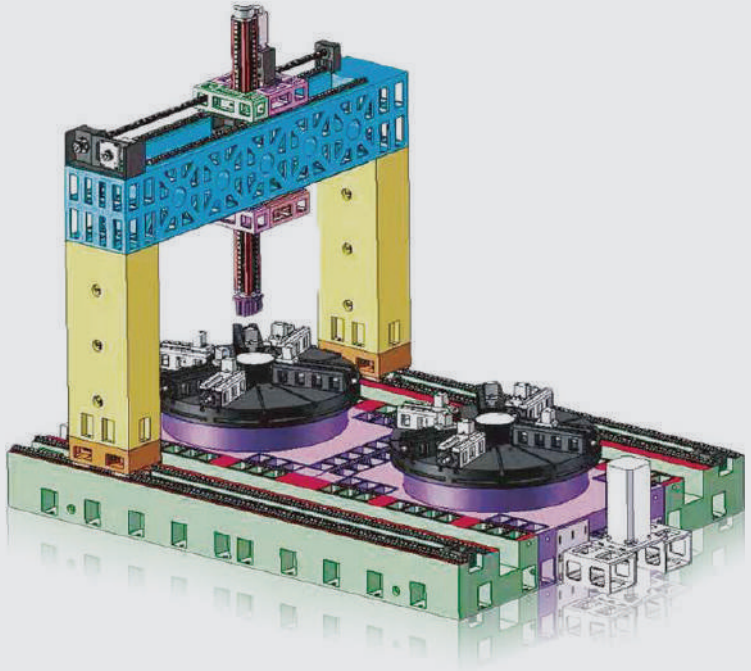
New energy motor housing

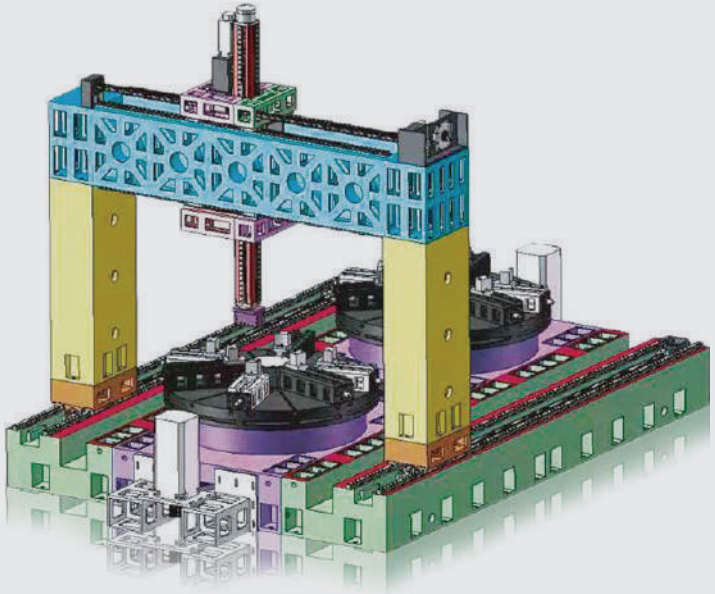
CNC system (stan dar d):(MITSUBISHI)

itinerar y	X-axis, x ' axis	450mm、450mm	Z-axis, Z ' axis	600mm、600mm
Proce ssing ca pacit y	Max swing dia	Φ700mm	Max machining dia	Φ600mm
	Max turning height	600mm		
spindle	Spindle speed	100～2000rpm	Spindle motor power (direct drive)	22Kw
	Spindle end face form	A2-11	torque	Rated tor que 600N.M
	Minimum division of the spindle	1°	Counterspindle speed	50-6000
	Counterspindle taper	BT40	Spindle power (servo spindle motor)	7.5kw
	Distance from spindle nose to ta ble	100-700mm		
Turret tool maga zine	Station	8	Center high	125mm
	Cutterhead to edge distance	440mm	Tool magazine form	disk
	magazine capacit y, tool holder t ype	BT40-16	Tool change time	2.5sec
guide rail	X-axis rolling linear guides	2 roots, wide 55mm-1760mm	Z-axis rolling linear guides	2 roots, wide 45mm-1250mm
Cutting cooling system	Cooling motor	450W	Pump water output	30L
	Cutting fluid tank capacit y	150L		
Factor y preci sion	Repeata ble positioning accurac y	±0.005mm	Positioning accurac y	±0.01mm
	Minimum positioning unit	0.001mm	Spindle indexing positioning accurac y	±0.002°
	ndle indexing repeata bility accurac y	±0.002°		
Other	weight	9500kg	Floor space (L×W×H)	3200×2500×3200mm

GTC—2000Gantry CNC vertical lathe

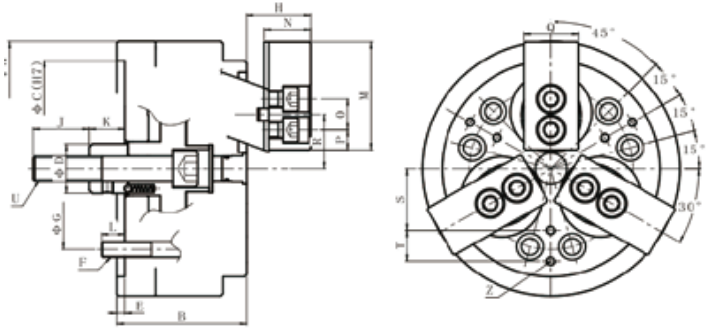
It can complete the turning of workpiece end face, inner and outer cylindrical surface, inner and outer conical surface, internal and external rotary surface.





itinerar y	X-axis travel	- 200mm,+1100	Gantr y frame movement stroke	3300mm
	Z-axis travel	1000mm		
Proce ssing ca pacit y	Max swing dia	φ2250mm	Max cutting height	1000mm
	Max cutting dia	φ2200mmg	Max load capacit y	5000kg
spindle	Spindle speed	1-160rpm	Spindle motor power	30KW
	Spindle diameter	φ580mm		
Machining accurac y	Machining workpiece roundness	0.02/φ200mm	Machining accurac y	1T7-1T8
	Machining workpiece cylindricality	0.025/φ200×200mm	Surface roughness of machined workpieces	Ra1.6 μm
	Machining workpiece flatn ess	0.03/φ500mm		
Factor y preci sion	Positioning accurac y	±0.02	Repeata ble positioning accurac y	
e quipment Other parameter s	Chuck diameter	φ2100mm	Ram cross-section	200×200mm
	Flower disc T-groove	28-175mm	Cutter holder cross-section	40×40mm
	Fast movement speed	10m/min		

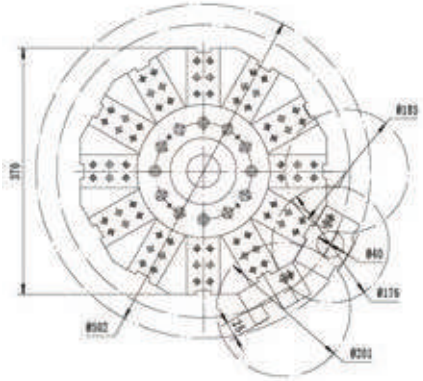
HYDRAULIC SELF CENTERING CHUCK

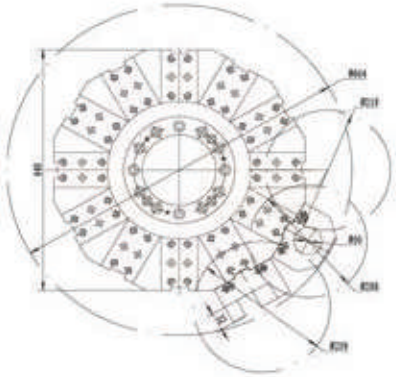


·Sizes are optional 15/18/24/32
·Jaws are optional 3/4/6
·Fixtures can be customized according to the workpiece

·Workstation optional4/8/10/12/16/24
·Type optional 1.Vertical tool holder
2.Powered Turret

·Horizontal eight-station hydraulic servo turret





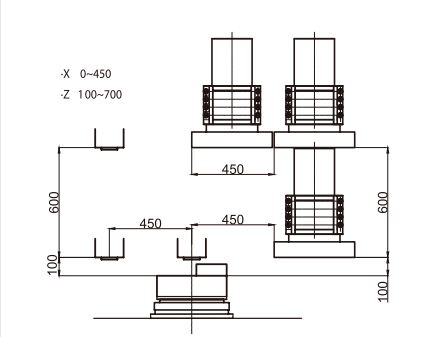
STANDARD ACCESSORIES

1. Complete protective plate gold
2. Hydraulic three-jaw chuck and rotary cylinder
3. Hydraulic chuck soft jaw
4. Hydraulic chuck foot switch
5. Hydraulic unit
6. Automatic lubrication system
7. Work light
8. Tri-color warning light
9. Workpiece counting
10. Cutting water system
11. Cutting water tank and machine tool flushing system
12. Electrical box air conditioning
13. Hand toolbox
14. Foundation pads
15. Chain plate type iron chip conveyor
16. Iron filings cart
17. Operation and maintenance manual

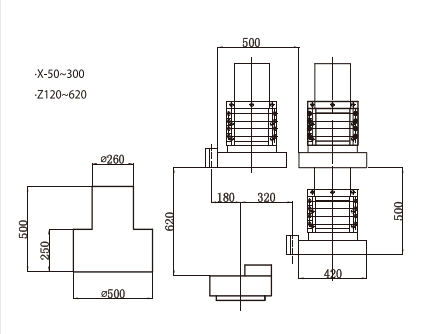
OPTIONAL ACCESSORIES

1. Intelligent manipulator ABB/Fanuc/KUKA
2. Hydraulic chuck and hydraulic rotary cylinder
3. Hydraulic chuck hard claw
4. Hydraulic chuck high and low pressure switching device
5. The manual table is equipped with four sets of grippers
6. Spindle motor power upgrade
7. Transformer
8. Oil-water separator
9 tool holders
10 special knife holders or additional parts
11. oil mist collector
12. The Z-axis stroke is lengthened
13. Column elevation
14. The knife holder is exposed to high pressure water
15. Working tool spindle two-stage variable speed gearbox 16. Scraper chip conveyor
17. FANUC controller 31i series
18. Workpiece trial processing
19. Fixture design
20. Turnkey project plan

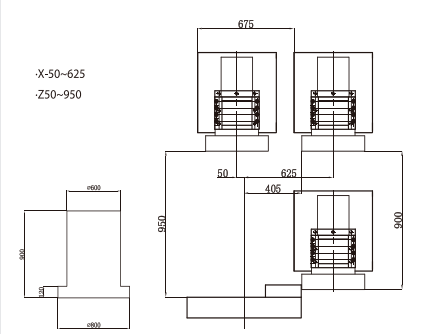
TURRET STROKE DIAGRAM (MAXIMUM MACHINING OUTLINE DRAWING)



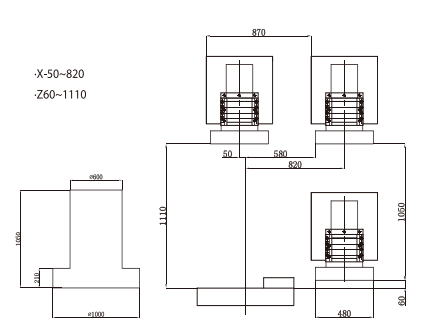
VTCH60



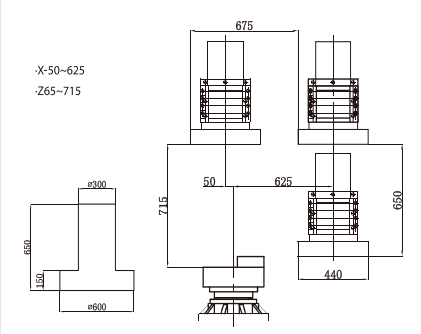
VTC50



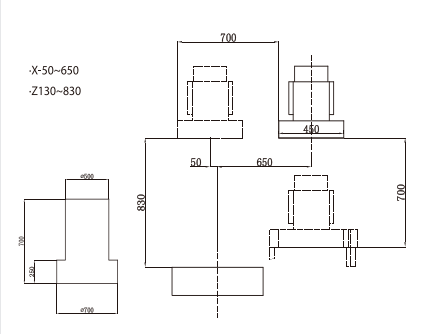
VTC80A



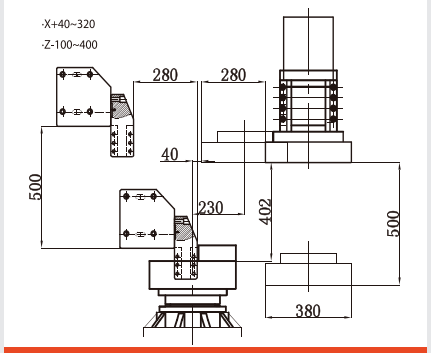
VTC100A



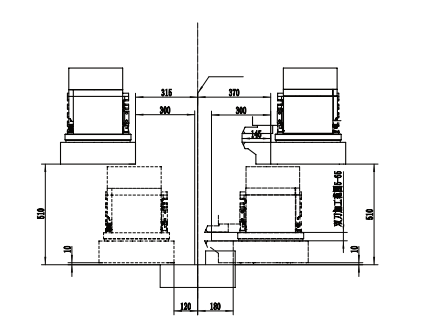
VTC60



VTC70



CK525



KD500

MARLA TURKEY

MACHINE PARAMETER TABLE

specification		unit	VTC40	VTC50	VTC60	VTC70	VTC80A	VTC100A	CK525	KD500	KD600	remark
itinerary	X-axis	mm	400	500	425	700	670	850	280	300	380	
	z-axis	mm	500	0~500	130~730	130~830	200~1050	220~1070	500	500	600	
Processing capa city	Max swing dia	mm	Φ600	Φ650	Φ650	Φ800	Φ1000	Φ1200	Φ750	Φ650	Φ650	
	Max turning dia	mm	Φ400	Φ500	Φ600	Φ700	Φ800	Φ1000	Φ550	Φ500	Φ600	
	Max turning height	mm	500	500	600	700	850	850	500	500	600	
spindle	Spindle speed	rpm	100-1000	100-1000	100-1000	100-800	100-800	100-800	100-1000	100-1000	100-1000	
	Spindle motor power	Kw	15	15	18.5	22	22	22	18.5	30	30	
	Spindle outer diameter	mm	Φ130	Φ130	Φ160	Φ160	Φ180	Φ200	Φ140	Φ160	Φ160	
Hydraulic chuck + tool holder	Chuck model		液□卡□									
	diameter	inch	12"	15"	18"	21"	24"	32"	15"	15"	18"	(Optional)
	Turret station		8	4 / 8	4 / 8	4 / 8	4 / 8	4 / 8	8+Row knives	8 + 8	8 + 8	(Optional)
gui de rail	X-axis rolling linear guides		2根,□35mm	2根,□45mm	2根,□45mm	2roots,wide45mm	2roots,wide45mm	2roots,wide55mm	4roots,wide45mm	3roots,wide55mm	3roots,wide55mm	
	Z-axis rolling linear guides		2根,□45mm	2根,□45mm	2根,□55mm	2roots,wide55mm	2roots,wide55mm	2roots,wide55mm	4roots,wide45mm	4roots,wide55mm	4roots,wide55mm	
CNC system	Standard configuration		□恩帝	GSK	GSK	GSK	GSK	GSK	KND	KND	KND	
	Monitor, Chinese and English displa y		√									
	RS-232 transmission interface and USB interface		√									
Cutting cooling system	Cooling motor	W	450+450	450+450	450+450	450+750	450+750	750+750	450+750	450+750	450+750	
	Pump water output	m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	4m^3/h	
	Automatic chip conve yor		√									
	Electric cabinet refrigeration and air conditioning		√									
Factory precision	Repeatable positioning accurac y	mm	±0.003	±0.003	±0.003	±0.003	±0.005	±0.005	±0.003	±0.003	±0.003	
	Positioning accuracy	mm	±0.006	±0.006	±0.006	±0.006	±0.008	±0.008	±0.006	±0.006	±0.006	
	Minimum positioning unit	mm	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	
Electricity demand	power supply		3 ¢ -AC 380V 50Hz±5%									
	The machine tool has leakage protection and power failure protection		√									
	Three-color indicator of machine working status		√									
	The machine tool can last for a long time under the following conditions Sta ble work		Am bient temperature 5～38°									
			Am bient humidit y <85%									
	Machine tool noise meets national standards		√									
Wei ght and dimensions	Dimensions (approx.)	mm	2000×1960×3500mm	2100×2500×2750mm	1710×2050×2910mm	2400×1800×3200mm	2400×2100×3600mm	2800×2400×3870mm	2900×2400×2800mm	2800×2400×2910mm	2800×2400×2910mm	
	Gross weight (approx.)	kg	4500	5500	7500	8000	9000	11000	7000	10000	11000	
remark	★ The e quipment a dopts fully enclo sed protection , the protecti ve device i s safe an d relia ble, an d shoul d com ply with GB15760-1995 general technical regulation s for safet y protection of metal cutting machine tools. ★ Configure variou s hydraulic , ga s an d water pipeline direction mar kings, identify the wor king range of various instrument s, and mark the use of medium grades.											

DUAL-SPINDLE POWER TURRET TURNING-MILLING COMPOUND (WITH Y-AXIS)

Standard Configuration:
SYNTEC CNC system / Taiwanese Y-axis Powered Turret / SYNTEC
X, Z, Y- axis Servo Motors / Hydraulic Chuck / Taiwanese PMI, HIWIN
Ball Screw, Roller Linear Guide.

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed saddle structure, with the entire machine optimized through finite element analysis and a rational arrangement of internal bed ribs.
• The same WO!l←piece can be switched and docked between the main and sub-spindles, which effectively improves machining management and productivity.
• Equipped with a Hard Rail Y-axis Power Turret: Integrating turning, mlling, drilling, threading, and other compound functions, the machine is fined with a robust Y-axis power turret on hardened rails.
• Equipped with reinforced P3 grade ball screws and roller linear guides, the machine offers superior stability and accuracy.

MARLA

项目 Item	名称 Name		参数 Parameter			
			TSX500LY	TSX520LY	TSX680LY	TSK500LY
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ580	Φ620	Φ620	Φ700
	最大加工直径(盘类) Max. Turning Diameter(Disk)	mm	Φ340	Φ460	Φ460	Φ330
	最大过拖板直径 Swing Over Cross Slide	mm	Φ340	Φ420	Φ420	Φ450
	最大加工工件长度 Max. Turning Length	mm	320	460	440	490
	最大棒材通孔直径 Bar work capacity	mm	Φ52	Φ52	Φ75	Φ52
	两主轴卡盘端面距离 Distance Between Chucks	mm	180-520	130-570	130-570	90-640
行程及最快进给 Travel and Feed	X轴行程 X-Axis Travel	mm	235	300	300	210
	Z轴行程（Z1轴） Z1-Axis Travel	mm	420	550	550	570
	副主轴行程（Z2轴） Z2-Axis Travel	mm	340	440	440	610
	Y轴有效行程 Y-Axis Effective Travel	mm	±50	±50	±50	±50
	X、Z1、Z2轴快速移动率 X, Z1, Z2 Axis Rapid Traverse Rate	m/min	20	20	20	20
	X、Z1、Z2轴伺服电机 X, Z1, Z2 Axis Servo Motors	NM	15	18	18	15
	Y轴伺服电机 Y-Axis Servo Motor		移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-6	A2-6	A2-8	A2-6
	主轴通孔直径 Spindle Bore Diameter	mm	Φ66	Φ66	Φ86	Φ66
	主轴最高转速 Spindle Maximum Speed	rpm	4500	4500	3000	4500
	主轴马达功率 Spindle Motor Power	kw	11	15	18.5	11
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	8	8	10	8
副主轴 Sub-Spindle (Electric)	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-6	A2-5
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66	Φ66	Φ56
	主轴最高转速 Spindle Maximum Speed	rpm	6000	4500	4500	6000
	主轴马达功率 Spindle Motor Power	kw	11	15	15	11
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8	8	6
加工精度 Accuracy	X、Z1、Z2轴定位精度 X, Z1, Z2 Axis Positioning	mm	±0.005	±0.005	±0.005	±0.005
	X、Z1、Z2轴重复定位精度 X, Z1, Z2 Axis Repeatability	mm	±0.003	±0.003	±0.003	±0.003
	床身结构形式 Bed Structure		30°整体斜床	30°整体斜床	30°整体斜床	30°整体斜床
动力刀塔规格 Powered Turret	刀柄规格 Shank		□25*25	□25*25	□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ32	Φ32	Φ32	Φ32
	动力刀座规格 Powered Tool Holder		BMT55	BMT55	BMT55	BMT55
	刀塔 Turret (Number of Tool Stations)	刀位	12	12	12	12
外形尺寸 Size / Weight	长×宽×高 Lx W x H	mm	2560*1800*2050	2940*2000*2120	2940*2000*2120	2860*1830*1940
	重量 Weight	kg	4600	5900	6000	5000

TX SERIES
POWER TURRET TURNING-MILLING COMPOUND (WITH Y-AXIS)

Standard Configuration:
SYNTEC CNC system/ Taiwanese Y-axis Powered Turret/ SYNTEC
X, Z, Y-axis Servo Motors I Hydraulic Chuck / Taiwanese PMI, HIWIN
Ball Screw, Roller Linear Guide.

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed saddle
structure, with the entire machine optimized through finite element analysis
and a rational arrangement of internal bed ribs.
• Equipped with a hardened Y-axis power turret, the machine integrates
compound functions such as turning, milling, drilling, and tapping. Combined
with C-axis and Y-axis, it effectively reduces product processing time and
labor, while avoiding errors caused by secondary clamping of workpieces.
• Equipped wrth reinforced P3-class ball screws and roller linear guides, the
Z-axis adopts a configuration with six sliders.
• Available with programmable hydraulic tailstock or programmable servo
tailstock.

MARLA

项目 Item	名称 Name		参数 Parameter					
			TX460LY	TX500LY	TX520LY	TX520LIY	TX680LY	TX680LIY
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ520	Φ520	Φ560	Φ580	Φ580	Φ580
	最大加工直径(盘类) Max. Turning Diameter(Disk)	mm	Φ260	Φ260	Φ450	Φ450	Φ450	Φ450
	最大加工工件长度 Max. Turning Length	mm	400	360	500	1020	480	1020
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52	Φ52	Φ52	Φ75	Φ75
	顶尖距 Tailstock Chuck Spacing	mm	500	500	780	1050	760	1050
行程及最快进给 Travel and Feed	X轴行程 X-Axis Travel	mm	210	210	290	300	290	300
	Z轴行程 Z-Axis Travel	mm	460	420	580	1100	560	1100
	Y轴有效行程 Y-Axis Effective Travel	mm	100	100	100	100	100	100
	X、Z轴快速移动率 X,Z Axis Rapid Traverse Rate	m/min	20	20	20	20	20	20
	X、Z轴伺服电机 X,Z Axis Servo Motors	NM	15/15	15/15	18/18	18/18	18/18	18/18
	Y轴伺服电机 Y-Axis Servo Motor	NM	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5
	动力电机最高转速 Power Motor Max. Speed	rpm	6000	6000	6000	6000	6000	6000
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-6	A2-6	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66	Φ66	Φ66	Φ86	Φ86
	主轴最高转速 Spindle Maximum Speed	rpm	6000	4500	4500	4500	3000	3000
	主轴马达功率 Spindle Motor Power	kw	7.5	11	15	15	18.5	18.5
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8	8	8	10	10
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.004	±0.004	±0.004	±0.004	±0.004	±0.004
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.002	±0.002	±0.002	±0.002	±0.002	±0.002
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5	MT-5	MT-6	MT-5	MT-6
	尾座套筒行程 Tailstock Sleeve Travel	mm	100	100	100	120	100	120
	尾座移动方式 Tailstock Movement Method		鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩
	床身结构形式 Bed Structure		30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身
动力刀塔规格 Powered Turret	刀塔 Turret (Number of Tool Stations)	刀位	15	12	12	12	12	12
	刀盘直径 Tool Disc Diameter	mm	Φ364	Φ330	Φ350	Φ350	Φ350	Φ350
	刀柄规格 Shank		□20*20	□25*25	□25*25	□25*25	□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ32	Φ32	Φ40	Φ40	Φ40	Φ40
	动力刀座规格 Powered Tool Holder		BMT45	BMT55	BMT55	BMT55	BMT55	BMT55
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2560*1700*2050	2560*1700*2050	2940*1910*2120	3220*1910*2120	2940*1910*2120	3220*1910*2120
	重量 Weight	kg	4500	4600	5800	6500	5900	6600

TX SERIES POWER TURRET TURNING-MILLING COMPOUND (WITHOUT Y-AXIS)

Standard Configuration:
SYNTEC CNC system I Taiwanese Y-axis Powered Turret / SYNTEC
X, Z, Y-axis Servo Motors I Hydraulic Chuck / Taiwanese PMI, HIWIN
Ball Screw, Roller Linear Guide

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed saddle
structure, with the entire machine optimized through finite element analysis
and a rational arrangement of internal bed ribs.
• Equipped with a hardened power turret, the machine integrates compound
functions such as turning, milling, drilling, and tapping. Combined with Caxis,
it effectively reduces product processing time and labor, while avoiding
errors caused by secondary clamping of workpieces .
• Equipped with reinforced P3-class ball screws and roller linear guides, the
Z-axis adopts a configuration with six sliders.
• Available with programmable hydraulic tailstock or programmable servo
tailstock.

MARLA TURKEY

项目 Item	名称 Name		参数 Parameter				
			TX460L	TX500L	TX520L	TX680L	TX800L
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ580	Φ580	Φ620	Φ620	Φ620
	最大加工直径(盘类) Max. Turning Diameter(Disk)	mm	Φ430	Φ430	Φ400	Φ400	Φ480
	最大过拖板直径 Swing Over Cross Slide	mm	Φ300	Φ300	Φ350	Φ350	Φ350
	最大加工工件长度 Max. Turning Length	mm	410	390	500	480	490
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52	Φ52	Φ75	Φ80
	顶尖距 Tailstock Chuck Spacing	mm	550	550	780	760	760
行程及最快进给 Travel and Feed	X轴有效行程 X-Axis Travel	mm	210	210	285	285	300
	Z轴有效行程 Z-Axis Travel	mm	450	450	580	560	600
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20	20	20	20
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	15/15	18/18	18/18	18/18
	动力轴伺服电机 Servo Motor for Power Axis	NM	17.5	17.5	17.5	17.5	17.5
	动力电机最高转速 Max. Speed of Power Motor	rpm	6000	6000	6000	6000	6000
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-6	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66	Φ66	Φ86	Φ92
	主轴最高转速 Spindle Maximum Speed	rpm	6000	6000	4500	3000	2500
	主轴马达功率 Spindle Motor Power	kw	7.5	11	15	18	18
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8	8	10	12
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.004	±0.004	±0.004	±0.004	±0.004
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.002	±0.002	±0.002	±0.002	±0.002
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5	MT-5	MT-5	MT-5
	尾座套筒行程 Tailstock Sleeve Travel	mm	100	100	100	100	100
	尾座移动方式 Tailstock Movement Method		鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩
	床身结构形式 Bed Structure		30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身
动力刀塔规格 Powered Turret	刀塔(刀位) Turret (Num. of Tool Stations)	刀位	80中心高12工位	80中心高12工位	100中心高12工位	100中心高12工位	125中心高12工位
	刀盘直径 Tool Disc Diameter	mm	290	290	Φ330	380	380
	刀柄规格 Shank		□20*20	□20*20	□25*25	□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ25	Φ25	Φ32	Φ32	Φ32
	动力刀座规格 Powered Tool Holder		BMT45	BMT45	BMT55	BMT55	BMT55
外形尺寸 Size / Weight	长×宽×高（mm） L x W x H	mm	2560*1700*1740	2560*1700*1740	2980*1910*1850	2980*1910*1850	2980*1910*1850
	重量 Weight	kg	4200	4200	5600	5700	6000

T SERIES
SERVO TURRET CNC LATHE

Standard Configuration:
SYNTEC CNC system/ Taiwanese Servo Turret I
SYNTEC X, Z-axis
Servo Motors I Hydraulic Chuck/ Taiwanese PMI,
HIWIN Ball Screws,
Roller Linear Guides.

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed
saddle structure, with the entire machine optimized through finite
element analysis and a rational arrangement of internal bed ribs.
• Equipped with a Taiwan servo turret, providing high positioning
accuracy and rapid tool disc indexing.
• Fitted with reinforced P3-grade ball screws and roller linear guides,
with a six-slider configuration for the Z-axis.
• Available with programmable hydraulic tailstock or programmable
servo tailstock.

MARLA TURKEY

项目 Item	名称 Name		参数 Parameter							
			T460L	T500L	T520L	T520LI	T680L	T680LI	T800L	T800LI
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ580	Φ580	Φ620	Φ620	Φ620	Φ620	Φ620	Φ620
	最大加工直径(盘类) Max. Turning Diameter(Disk)	mm	Φ400	Φ400	Φ510	Φ520	Φ510	Φ520	Φ520	Φ520
	最大过拖板直径 Swing Over Cross Slide	mm	Φ300	Φ300	Φ350	Φ350	Φ350	Φ350	Φ350	Φ350
	最大加工工件长度 Max. Turning Length	mm	440	420	540	1030	520	1020	500	1020
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52	Φ52	Φ52	Φ75	Φ75	Φ80	Φ80
	顶尖距 Tailstock Chuck Spacing	mm	550	550	780	1050	760	1050	760	1050
行程及最快进给 Travel and Feed	X轴行程 X-Axis Travel	mm	220	220	265	300	265	300	300	300
	Z轴行程 Z-Axis Travel	mm	440	420	540	1100	540	1100	600	1100
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20	20	20	20	20	20	20
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	15/15	18/18	18/18	18/18	18/18	18/18	18/18
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-6	A2-6	A2-8	A2-8	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66	Φ66	Φ66	Φ86	Φ86	Φ92	Φ92
	主轴最高转速 Spindle Maximum Speed	rpm	6000	4500	4500	4500	3000	3000	2500	2500
	主轴马达功率 Spindle Motor Power	kw	7.5	11	15	15	18.5	18.5	22	18.5
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8	8	8	10	10	12	12
加工精度 Accuracy	X、Z轴重复精度 X, Z Axis Positioning	mm	±0.002	±0.002	±0.002	±0.002	±0.002	±0.002	±0.002	±0.002
	X、Z轴定位精度 X, Z Axis Repeatability	mm	±0.004	±0.004	±0.004	±0.004	±0.004	±0.004	±0.004	±0.004
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5	MT-5	MT-6	MT-5	MT-6	MT-5	MT-6
	尾座套筒行程 Tailstock Sleeve Travel	mm	100	100	100	120	100	120	100	120
	尾座移动方式 Tailstock Movement Method		鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩	鞍座带动、液压伸缩
	床身结构形式 Bed Structure		30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身	30°整体斜床身
伺服刀塔规格 Servo Turret	刀塔 Turret (Num. of Tool Stations)	刀位	80中心高10工位	80中心高10工位	100中心高12工位	125中心高12工位	100中心高12工位	125中心高12工位	125中心高12工位	125中心高12工位
	刀盘直径 Tool Disc Diameter	mm	Φ330	Φ330	Φ420	Φ420	Φ420	Φ500	Φ500	Φ500
	刀柄规格 Shank		□25*25	□25*25	□25*25	□25*25	□25*25	□25*25	□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ32	Φ32	Φ40	Φ40	Φ40	Φ40	Φ40	Φ40
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2560*1700*1740	2560*1700*1740	2980*1910*1850	3220*1910*1850	2980*1910*1850	3220*1910*1850	2980*1910*1850	3220*1910*1850
	重量 Weight	kg	4200	4300	5500	6200	5600	6300	5700	6400

TK SERIES PROGRAMMABLE SERVO TAILSTOCK CNC LATHE

Standard Configuration:
SYNTEC CNC system / Taiwanese Servo Turret / SYNTEC X, Z- axis
Servo Motors I Hydraulic Chuck / Taiwanese PMI, HIWIN Ball Screw,
Roller Linear Guide.

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed
saddle structure, with the entire machine optimized through finite
element analysis and a rational arrangement of internal bed ribs.
• Equipped with a programmable servo tailstock, it can achieve
tailstock automation and help improve machining accuracy and
surface quality.
• Equipped with reinforced P3-class ball screws and roller linear
guides, the Z-axis adopts a configuration with six sliders.

项目 Item	名称 Name		参数 Parameter	
			TK460L	TK500L
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ580	Φ580
	最大加工直径(盘类) Max. Turning Diameter(Disk)	mm	Φ430	Φ430
	最大过拖板直径 Swing Over Cross Slide	mm	Φ300	Φ300
	最大加工工件长度 Max. Turning Length	mm	630	610
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52
	顶尖距 Tailstock Chuck Spacing	mm	630	620
行程及最快进给 Travel and Feed	X轴行程 X-Axis Travel	mm	235	235
	Z轴行程 Z-Axis Travel	mm	650	650
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	15/15
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66
	主轴最高转速 Spindle Maximum Speed	rpm	6000	4500
	主轴马达功率 Spindle Motor Power	kw	7.5	11
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8
加工精度 Accuracy	X、Z轴重复精度 X, Z Axis Repeatability	mm	±0.002	±0.002
	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.004	±0.004
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5
	尾座行程 Tailstock Travel	mm	650	650
	尾座移动方式 Tailstock Movement Method		伺服驱动、锁紧	伺服驱动、锁紧
	床身结构形式 Bed Structure		30°整体斜床身	30°整体斜床身
伺服刀塔规格 Servo Turret	刀塔 Turret(Number of Tool Stations)	刀位	100中心高10工位	100中心高10工位
	刀盘直径 Turret Diameter	mm	Φ420	Φ420
	刀柄规格 Shank		□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ40	Φ40
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2860*1830*1750	2860*1830*1750
	重量 Weight	kg	4900	5000

TST SERIES
DUAL SPINDLE CNC LATHE

Standard Configuration:
SYNTEC CNC system /Collet Chuck/ SYNTEC X,
Z-axis servo motors
I Taiwanese PMI, HIWIN ball screws, linear guides.

Features:
• High Rigidity, Low Vibration Design: Adopts a 30-degree slant bed
saddle structure, with the entire machine optimized through finite
element analysis and a rational arrangement of internal bed ribs.
• Simultaneous Processing: The dual spindles allow the simultaneous
execution of two independent processes, enhancing production
efficiency, significantly reducing product processing time and labor,
and avoiding errors caused by secondary workpiece clamping.
• Equipped with Enhanced P3-grade ball screws and linear guides.

项目 Item	名称 Name		参数 Parameter	
			TST36L	TST46L
加工能力 Capacity	最大加工直径 Swing Over Bed	mm	Φ300	Φ300
	最大加工长度 Max. Turning Length	mm	120（单向）	120（单向）
正副主轴 Spindle	正主轴鼻端 Main Spindle Nose		A2-4	A2-5
	副主轴鼻端 Sub Spindle Nose		A2-4	A2-5
	正主轴最高转速 Main Spindle Max Speed	rpm	6000	6000
	副主轴最高转速 Sub Spindle Max Speed	rpm	6000	6000
	正主轴通孔 Main Spindle Bore	mm	Φ46	Φ56
	副主轴通孔 Sub Spindle Bore	mm	Φ46	Φ56
	正主轴电机功率 Main Spindle Motor Power	kw	7.5电主轴	11电主轴
	副主轴电机功率 Sub Spindle Motor Power	kw	7.5电主轴	11电主轴
	X1/X2轴行程 X1/X2-Axis Travel	mm	950	950
	Z1/Z2轴行程 Z1/Z2-Axis Travel	mm	310	310
	X/Z轴快速移动 X, Z Axis Rapid Traverse Rate	m/min	20	20
	X/Z轴伺服电机 X, Z Axis Servo Motors	NM	8/15	8/15
	套筒及回转油缸规格 Sleeve and Rotary Cylinder	寸	5	6
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.005	±0.005
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.003	±0.003
刀具 Tooling	刀具安装方式 Tool Mounting Method		排刀6位（双排刀）	排刀6位（双排刀）
	刀柄规格 Shank		□20*20	□20*20
	镗刀杆规格 Boring Bar	mm	Φ25	Φ25
功率 Power	液压站电机功率 Hydraulic Station Motor Power	kw	1.5	1.5
	总功率 Total Power	kw	24	24
外形尺寸 Size / Weight	床身结构形式 Bed Structure		30°整体斜床	30°整体斜床
	长×宽×高（mm） L x W x H	mm	2770*1745*1630	2770*1745*1630
	重量 Weight	kg	3700	3800

HIGH-SPEED DRILLING AND TAPPING CENTER

Standard Configuration:
SYNTEC CNC system/ ATC Automatic Tool Changer/
Taiwanese PMI,
HIWIN Ball Screws, Linear Guides.

Optional Configuration:
Chip Conveyor (Spiral or Chain Type) / Automatic Tool Measurement/
Automatic Workpiece Measurement / Fourth Axis CNC Rotary Table I
Fifth Axis CNC Rotary Table I Pneumatic Fixture Set I Hydraulic Fixture
Set I Spindle Center Coolant Outlet.

Features:
• High Rigidity, Durable High Precision Design: The entire machine is
optimized through finite element analysis, with a rational arrangement of internal reinforcement ribs on the bed.
• Vertical Widened Column Design, ensuring the rigidity of the column.
• ATC (Automatic Tool Changer) rotary-type tool magazine, optional servo tool magazine for quick tool change (tool-to-tool) time as fast
as 1 second.
• Three axes equipped with high-precision linear guides from Taiwan
and ball screws.

机型 Model		T600L	T700L
数控系统 CNC System		新代	新代
行程mm Travel (mm)	mm	600X400X350	700X400X350
主轴鼻端到工作台距离 Distance from Main Spindle Nose to Worktable	mm	145~495mm	145~495mm
主轴样式 Spindle Style		BT30/直结式100mm	BT30/直结式100mm
主轴转速 Spindle Speed	rpm	20000	20000
主轴功率 Spindle Power	Kw	3.7-5.5	3.7-5.5
快速进给 Rapid Feed	M/min	48/48/48	48/48/48
丝杠规格 Screw Specifications		XY：2816　Z：3216C3	3216C3
导轨规格 Guide Rail Specifications		X/Y：滚珠30 Z：滚柱30	X/Y：滚珠30 Z：滚珠35
切削进给 Cutting Feed	M/min	10	10
工作台 Worktable	mm	700x420	800x420
T型槽 T-Slot	mm	3x14x125	3x14x125
最大负重 Maximum Load Capacity	Kg	350	300
刀库形式 Tool Magazine Type		夹臂式	夹臂式
刀具数 Number of Tools	把	21（伺服1.6秒）	21（伺服1.6秒）
定位精度 Positioning Accuracy	mm	±0.005	±0.005
重复定位精度 Repeatability	mm	±0.003	±0.003
机器尺寸 Machine Dimensions	mm	1900*2200*2500	1900*2200*2500
机器功率 Machine Power	KVA	12	12
机器重量 Machine Weight	T	2.8	3

GX SERIES
CNC TURNING AND MILLING CENTER

Standard Configuration:
SYNTEC CNC system/SYNTEC X, Z-axis Servo Motors/ Hydraulic Chuck (Collet Chuck)/ Taiwanese PMI, HIWIN Ball Screws, Linear Guides

Features:
• High Rigidity, Low Vibration Design: with the entire machine optimized through finite element analysis and a rational arrangement of internal bed ribs.
• Integration of turning, milling, drilling, tapping, and other compound functions, combined with C-axis, effectively reduces product processing time and labor.
• Equipped w~h high-precision Taiwanese ball screws and linear guides.

项目 Item	名称 Name		Y轴动力刀塔机		Y轴动力排刀+伺服刀塔	Y轴动力排刀+排刀	
			GX460LY	GX500LY	GX460Y	GX45Y	GX46Y
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ480	Φ480	Φ480	450	480
	最大加工直径（盘类） Max. Turning Diameter(Disk)	mm	Φ400	Φ400	Φ180	Φ120	Φ130
	最大加工工件长度 Max. Turning Length	mm	370	350	240	150	150
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52	Φ45	Φ45	Φ45
	顶尖距 Tailstock Chuck Spacing	mm	500	500	-	-	-
行程及最快进给 Travel and Feed	X轴有效行程 X-Axis Travel	mm	200	200	340	800	900
	Z轴有效行程 Z-Axis Travel	mm	400	400	400	300	300
	Y轴有效行程 Y-Axis Effective Travel	mm	60	60	250	200	190
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20	20	30	30
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	15/15	15/15	8/8	11/11
	Y轴伺服电机 Y-Axis Servo Motor	NM	移动轴新代8 动力轴17.5	移动轴新代8 动力轴17.5	Y轴伺服电机8, 动力轴伺服电机8	Y轴伺服电机3, 动力轴伺服电机8	Y轴伺服电机5, 动力轴伺服电机8
	动力电机最高转速 Max. Speed of Power Motor	rpm	4000	4000	4000	4000	4000
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-5	A2-5	A2-5
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ62	Φ56	Φ56	Φ56
	主轴最高转速 Spindle Maximum Speed	rpm	6000	6000	6000	6000	6000
	主轴马达功率 Spindle Motor Power	kw	7.5	11	7.5	5.5	5.5
	卡盘（筒夹）及回转油缸规格 Chuck（Collet）and Rotary Cylinder	寸	6寸卡盘	8寸卡盘	6寸卡盘	筒夹	筒夹
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.005	±0.005	±0.005	±0.005	±0.005
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5	-	-	-
	尾座套筒行程 Tailstock Sleeve Travel	mm	100	100	-	-	-
	尾座移动方式 Tailstock Movement Method		鞍座带动、液压伸缩	鞍座带动、液压伸缩	-	-	-
	床身结构形式 Bed Structure		30度整体斜床	30度整体斜床	45度整体斜床	45度整体斜床	45度整体斜床
其它规格 Others	刀塔 Turret (Num. of Tool Stations)	刀位	动力刀塔15T	动力刀塔15T	Y轴（4端4侧）+ 伺服刀塔63—8T	Y轴（4侧）+ 排刀（标配7个）	Y轴（3端3侧）+ 排刀（标配7个）
	刀盘直径 Tool Disc Diameter	mm	Φ300	Φ300	-	-	-
	刀柄规格 Shank		□20*20	□20*20	□20*20	□20*20	□20*20
	镗刀杆规格 Boring Bar	mm	Φ25	Φ25	Φ25	Φ25	Φ25
	动力刀座规格 Powered Tool Holder		BMT40	BMT40	ER25	ER25	ER20
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2400*1405*1960	2400*1405*1960	2400*1890*2060	2065*1540*1880	2180*1875*2070
	重量 Weight	kg	3000	3100	3100	2500	2800

G SERIES
TURRET CNC LATHE

Standard Configuration:
GSK CNC system / Servo Turret / Hydraulic Chuck /
Taiwanese PMI,
HIWIN Ball Screws, Linear Guides

Features:
• The CNC lathe adopts a 45-degree inclined bed saddle structure and is
equipped with a servo turret. The lathe is fully enclosed with sheet metal and,
when equipped with a tailstock, can process long WOO←pieces and worl←pieces
with minimal clamping allowances.
• The CNC lathe can achieve the turning processing of shafts, discs, inner and
outer surfaces, conical surfaces, arcs, threads, boring holes, and reaming holes,
as well as various turning processes such as non-circular curves. It is suitable
for the processing of multi-variety, small and medium batch products.

项目 Item	名称 Name		参数 Parameter				
			G460L	G500L	G520L	G680L	G800L
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ500	Φ500	Φ580	Φ580	Φ800
	最大加工直径（盘类） Max. Turning Diameter(Disk)	mm	Φ400	Φ400	Φ520	Φ520	Φ600
	最大加工直径（轴类） Max. Turning Diameter(Shaft)	mm	Φ250	Φ250	Φ300	Φ300	Φ500
	最大加工工件长度 Max. Turning Length	mm	430	410	550	520	700
	最大棒材通孔直径 Bar work capacity	mm	Φ45	Φ52	Φ52	Φ75	Φ80
	顶尖距 Tailstock Chuck Spacing	mm	500	500	620	620	900
行程及最快进给 Travel and Feed	X轴有效行程 X-Axis Travel	mm	210	210	300	300	350
	Z轴有效行程 Z-Axis Travel	mm	480	460	590	570	900
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20	20	20	20
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	15/15	18/18	18/18	22/22
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-5	A2-6	A2-6	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ56	Φ66	Φ66	Φ86	Φ92
	主轴最高转速 Spindle Maximum Speed	rpm	6000	4500	4500	3000	2500
	主轴马达功率 Spindle Motor Power	kw	7.5	11	15	18.5	22
	卡盘及回转油缸规格 Chuck and Rotary Cylinder	寸	6	8	8	10	12
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.005	±0.005	±0.005	±0.005	±0.005
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		MT-5	MT-5	MT-5	MT-5	MT-5
	尾座套筒行程 Tailstock Sleeve Travel	mm	100	100	100	100	100
	尾座压力范围 Tailstock Pressure Range		8～25Pa	8～25Pa	8～25Pa	8～25Pa	8～25Pa
	尾座移动方式 Tailstock Movement Method		鞍座带动、液压锁紧	鞍座带动、液压锁紧	鞍座带动、液压锁紧	鞍座带动、液压锁紧	鞍座带动、液压锁紧
	床身结构形式 Bed Structure		45°整体斜床身	45度整体斜床	45度整体斜床	45度整体斜床	45度整体斜床
伺服刀塔规格 Servo Turret	刀柄规格 Shank		□25*25	□25*25	□25*25	□25*25	□32*32
	镗刀杆规格 Boring Bar	mm	Φ32	Φ32	Φ40	Φ40	Φ50
	刀塔 Turret (Num. of Tool Stations)	刀位	80中心高10工位	80中心高10工位	100中心高12工位	100中心高12工位	160中心高12工位
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2400*1580*1730	2400*1580*1730	2770*1780*1945	2770*1780*1945	3500*2245*2230
	重量 Weight	kg	3100	3200	4200	4500	6000

G SERIES
TURRET CNC LATHE

Standard Configuration:
GSK CNC system / Servo Turret / Hydraulic Chuck /
Taiwanese PMI,
HIWIN Ball Screws, Linear Guides

Features:
• The CNC lathe adopts a 45-degree inclined bed saddle structure and is
equipped with a servo turret. The lathe is fully enclosed with sheet metal and,
when equipped with a tailstock, can process long WOO←pieces and worl←pieces
with minimal clamping allowances.
• The CNC lathe can achieve the turning processing of shafts, discs, inner and
outer surfaces, conical surfaces, arcs, threads, boring holes, and reaming holes,
as well as various turning processes such as non-circular curves. It is suitable
for the processing of multi-variety, small and medium batch products.

项目 Item	名称 Name		参数 Parameter					
			G36L	G45L	G46L	G52L	G75L	G81L
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ480	Φ450	Φ480	Φ480	Φ480	Φ480
	最大加工直径（盘类） Max. Turning Diameter(Disk)	mm	Φ300	Φ300	Φ400	Φ400	Φ400	Φ400
	最大加工直径（轴类） Max. Turning Diameter(Shaft)	mm	Φ120	Φ120	Φ120	Φ120	Φ120	Φ120
	最大加工工件长度 Max. Turning Length	mm	300	300	380	360	360	360
	最大棒材通孔直径 Bar work capacity	mm	Φ35	Φ45	Φ45	Φ52	Φ75	Φ80
	顶尖距 Tailstock Chuck Spacing		-	-	-	-	-	-
行程及最快进给 Travel and Feed	X轴有效行程 X-Axis Travel	mm	800	800	900	900	900	900
	Z轴有效行程 Z-Axis Travel	mm	330	330	400	400	400	400
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	30	30	30	30	30	30
	X、Z轴伺服电机 X, Z Axis Servo Motors		8/8(NM)	8/8(NM)	1.3/1.3(kw)	1.8/1.8(kw)	1.8/1.8(kw)	1.8/1.8(kw)
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-4	A2-5	A2-5	A2-6	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ45	Φ56	Φ56	Φ66	Φ86	Φ92
	主轴最高转速 Spindle Maximum Speed	rpm	6000	6000	6000	4500	3000	3000
	主轴马达功率 Spindle Motor Power	kw	3.7	5.5	7.5	7.5	11	11
	套筒及回转油缸规格 Sleeve and Rotary Cylinder	寸	5	6	6	8	12	12
加工精度 Accuracy	X、Z轴定位精度 X, Z Axis Positioning	mm	±0.005	±0.005	±0.005	±0.005	±0.005	±0.005
	X、Z轴重复定位精度 X, Z Axis Repeatability	mm	±0.003	±0.003	±0.003	±0.003	±0.003	±0.003
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		-	-	-	-	-	-
	尾座套筒行程 Tailstock Sleeve Travel		-	-	-	-	-	-
	尾座压力范围 Tailstock Pressure Range		-	-	-	-	-	-
	尾座移动方式 Tailstock Movement Method		-	-	-	-	-	-
其它规格 Others	床身结构形式 Bed Structure		45度整体斜床	45度整体斜床	45度整体斜床	45度整体斜床	45度整体斜床	45度整体斜床
	刀柄规格 Shank		□20*20	□20*20	□20*20	□20*20	□20*20	□20*20
	镗刀杆规格 Boring Bar	mm	Φ25	Φ25	Φ25	Φ25	Φ25	Φ25
	刀塔 Turret (Num. of Tool Stations)	刀位	排刀7位	排刀7位	排刀7位	排刀7位	排刀7位	排刀7位
外形尺寸 Size / Weight	长×宽×高 L x W x H	mm	2065*1540*1660	2065*1540*1660	2275*1705*1740	2275*1705*1740	2275*1705*1740	2275*1705*1740
	重量 Weight	kg	2250	2300	2700	2800	2850	2900

LG SERIES
HUB DISC CNC LATHE

STANDARD CONFIGURATION:
GSK CNC system / Taiwanese Servo Turret /
Hydraulic Chuck.

Features:

• The specialized CNC lathe for wheel and disk components, equipped with a servo turret, features various high- precision turning functions and automation control capabilities. The lathe, with a fully enclosed sheet metal design and a 45-degree slant bed structure, along with roller linear guides, effectively reduces vibrations and deformations, enhancing the machine's rigidity and machining accuracy.

• This lathe is particularly suitable for the machining of wheel hubs, short shafts, and disk-like workpieces. It can perform surface, conical, arc, thread, boring, reaming, and other turning operations on both the inner and outer surfaces of the workpieces, as well as noncircular curve machining.

项目 Item	名称 Name		参数 Parameter		
			LG52L	LG75L	LG680L
加工范围 Capacity	床身最大回转直径 Swing Over Bed	mm	Φ500	Φ500	Φ800
	最大加工直径（盘类） Max. Turning Diameter(Disk)	mm	Φ480	Φ480	Φ500
	最大加工直径（轴类） Max. Turning Diameter(Shaft)	mm	Φ140	Φ140	Φ680
	最大加工工件长度 Max. Turning Length	mm	300	280	550
	最大棒材通孔直径 Bar work capacity		-	-	-
	顶尖距 Tailstock Chuck Spacing		-	-	-
行程及最快进给 Travel and Feed	X轴有效行程 X-Axis Travel	mm	520	520	350
	Z轴有效行程 Z-Axis Travel	mm	300	280	600
	X、Z轴快速移动率 X, Z Axis Rapid Traverse Rate	m/min	20	20	20
	X、Z轴伺服电机 X, Z Axis Servo Motors	NM	15/15	18/18	18/18
主轴 Spindle	主轴鼻端型式 Spindle Nose Type		A2-6	A2-8	A2-8
	主轴通孔直径 Spindle Bore Diameter	mm	Φ66	Φ86	Φ86
	主轴最高转速 Spindle Maximum Speed	rpm	4000	3000	3000
	主轴马达功率 Spindle Motor Power	kw	11	15	18.5
	筒夹及回转油缸规格 Collet and Rotary Cylinder	寸	8	10	12
加工精度 Accuracy	X、Z轴重复精度 X, Z Axis Positioning	mm	±0.003	±0.003	±0.003
	X、Z轴定位精度 X, Z Axis Repeatability	mm	±0.005	±0.005	±0.005
液压尾座 Hydraulic Tailstock	尾座套筒规格 Taper hole of tailstock		-	-	-
	尾座套筒行程 Tailstock Sleeve Travel		-	-	-
	尾座压力范围 Tailstock Pressure Range		-	-	-
	尾座移动方式 Tailstock Movement Method		-	-	-
	床身结构形式 Bed Structure		45度整体斜床	45度整体斜床	45度整体斜床
伺服刀塔规格 Servo Turret	刀柄规格 Shank		□25*25	□25*25	□25*25
	镗刀杆规格 Boring Bar	mm	Φ32	Φ32	Φ40
外形尺寸 Size / Weight	刀塔 Turret (Num. of Tool Stations)	刀位	80中心高8工位	80中心高8工位	100中心高8工位
	长×宽×高 L x W x H	mm	2275*1800*1880	2275*1800*1880	2870*1955*2040
	重量 Weight	kg	3000	3300	4500

MARLA TURKEY

Customized Special Lathe

Non-standard Customized Machining Services

Specification of 32Type

Main spindle motor 4.4kw
Speed： 6k R/Min
Max machining diameter： 33mm

Cutting tools：
1- 16*16
6- 12*12

1.5KW Power Units：
Speed 5.5R/Min
2- ER20

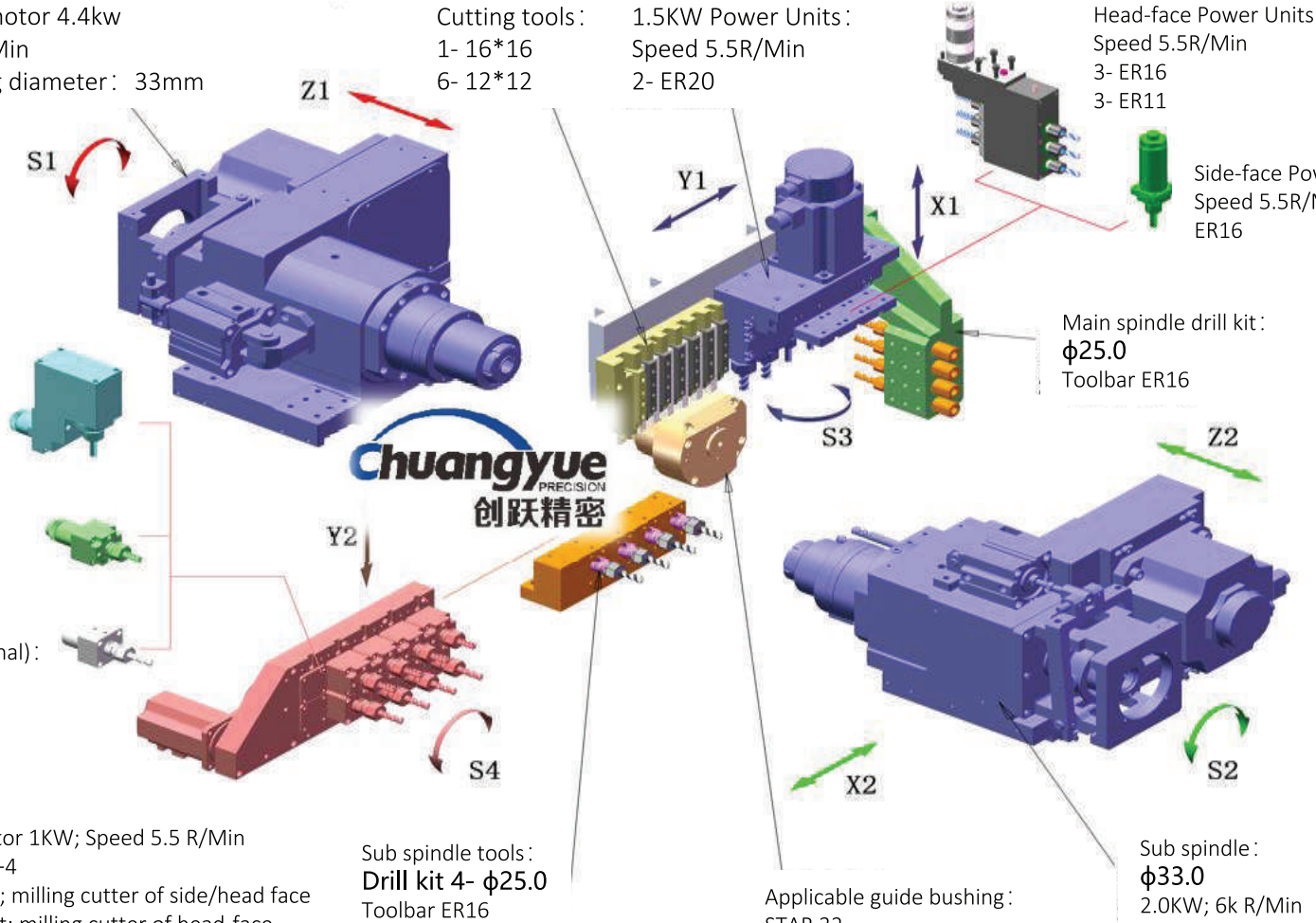
Head-face Power Units (Optional)：
Speed 5.5R/Min
3- ER16
3- ER11

Side-face Power Units (Optional)：
Speed 5.5R/Min
ER16

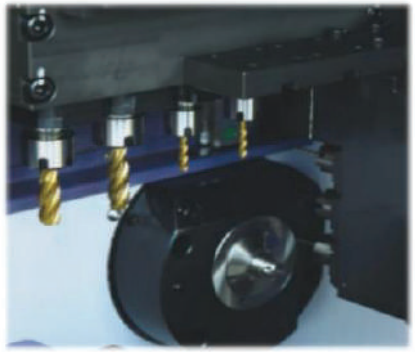
Y2 Power Units (Optional)：
Speed 5.5R/Min
ER16

Y2 Head-face Power Units (Optional)：
Speed 5.5R/Min
ER16

Y2 Drill kit(Optional)：
ϕ15.0
Toolbar ER16



Main spindle drill kit：
ϕ25.0
Toolbar ER16



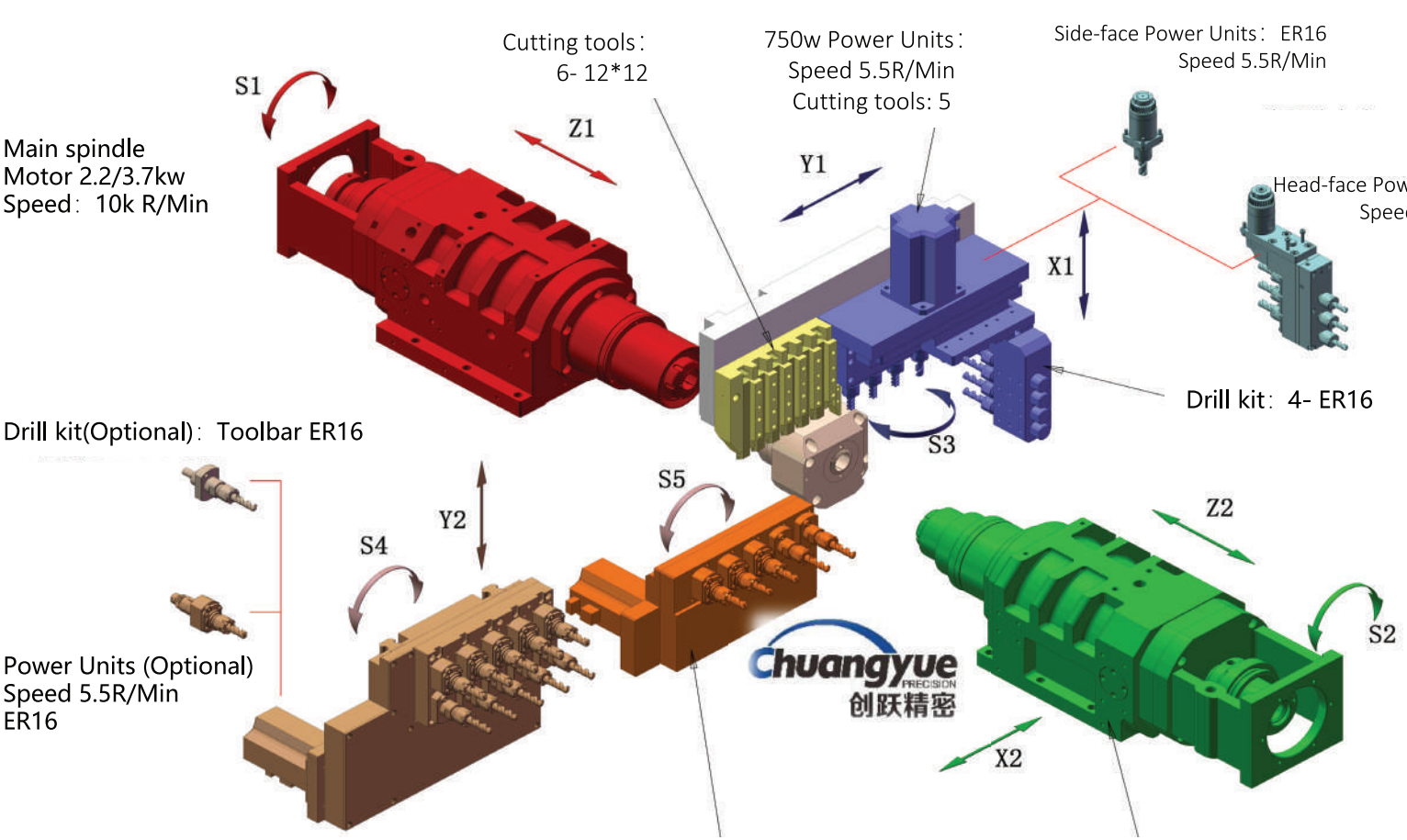
Y2 (Optional)：
Power unit motor 1KW; Speed 5.5 R/Min
Cutting tools 4+4
1st line: drill kit; milling cutter of side/head face
2nd line: drill kit; milling cutter of head-face

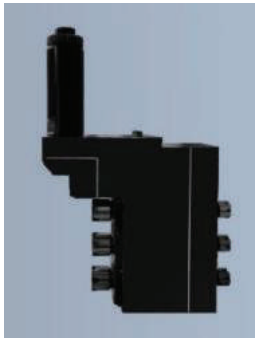
Sub spindle tools：
Drill kit 4- ϕ25.0
Toolbar ER16

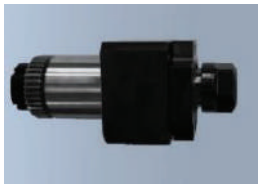
Applicable guide bushing：
STAR 32

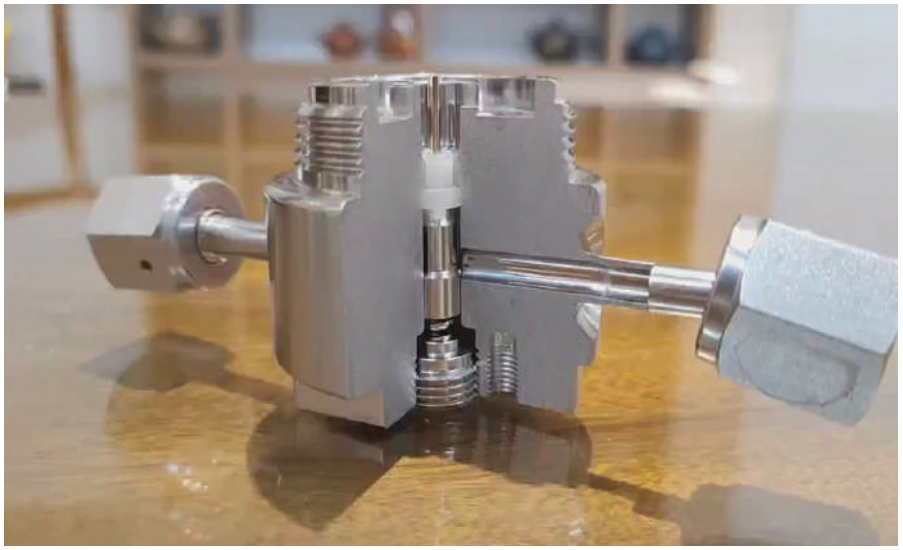
Sub spindle：
ϕ33.0
2.0KW; 6k R/Min

Specification of 26Type





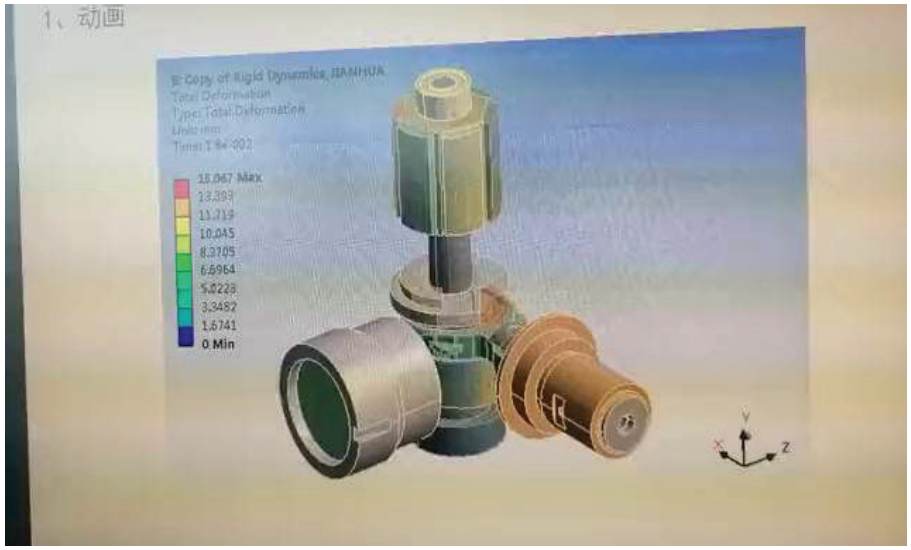




on-standard automated parts

Material：316L、6061

urface finish：0.2~0.4



Valve parts

Marterial：12CrMoV、1215

Surface finish：0.2~0.4

Technical Parameters / *HF320Ys1* (WEDM-MS)

Worktable Size: 690×458mm
Worktable Stroke: 350×450mm
Maximum Cutting Thickness: 300mm (Special custom products)
Taper stroke (U, V): ± 25mm
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 1400kg
Maximum Load Weight: 600kg
Outer Diameter Size of Machine Tool: 1400×1340×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF400Ys1* (WEDM-MS)

Worktable Size: 820×568mm
Worktable Stroke: 450×550mm
Maximum Cutting Thickness: 300mm (Special custom products)
Taper stroke (U, V): ± 25mm
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 1800kg
Maximum Load Weight: 1200kg
Outer Diameter Size of Machine Tool: 1650×1610×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF500Ys1* (WEDM-MS)

Worktable Size: 910×588mm
Worktable Stroke: 500×630mm (without longitudinal fixture)
Maximum Cutting Thickness: 300mm (Special custom products)
Taper stroke (U, V): ± 25mm
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 2000kg
Maximum Load Weight: 1300kg
Outer Diameter Size of Machine Tool: 1720×1720×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF320MZQ-G20* (WEDM-MS)

Worktable Size: 690×458mm
Worktable Stroke: 350×450mm
Maximum Cutting Thickness: 300mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 1400kg
Maximum Load Weight: 600kg
Outer Diameter Size of Machine Tool: 1400×1340×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF400MZQ-G20* (WEDM-MS)

Worktable Size: 820×568mm
Worktable Stroke: 450×550mm
Maximum Cutting Thickness: 300mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 1800kg
Maximum Load Weight: 1200kg
Outer Diameter Size of Machine Tool: 1650×1610×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF500MZQ-G20* (WEDM-MS)

Worktable Size: 910×588mm
Worktable Stroke: 500×630mm (without longitudinal fixture)
Maximum Cutting Thickness: 300mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting OctagonWorkpiece: ≤±0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 2000kg
Maximum Load Weight: 1300kg
Outer Diameter Size of Machine Tool: 1720×1720×1700mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF500AMZQs-G20* (WEDM-MS)

Worktable Size: 1134×712mm
Worktable Stroke: 500×800mm (Servo control drive)
Maximum Cutting Thickness: 600mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting OctagonWorkpiece: ≤0.005mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 2600kg
Maximum Load Weight: 2000kg
Outer Diameter Size of Machine Tool: 2050×2174×2100mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF630MZQs-G20* (WEDM-MS)

Worktable Size: 1134×850mm
Worktable Stroke: 630X800mm (Servo control drive)
Maximum Cutting Thickness: 600mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting Octagon Workpiece: ≤0.010mm (prism)
Optimum Roughness(prism): multiple-cut Ra≤1.0um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 3200kg
Maximum Load Weight: 2300kg
Outer Diameter Size of Machine Tool: 2150×1850×2100mm
Power Consumption of Machine Tool: ≤0.8kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

Technical Parameters / *HF1200AMZQs-G20* (WEDM-MS)

Worktable Size: 1900×1320mm
Worktable Stroke: 1200×1500mm (Servo control drive)
Maximum Cutting Thickness: 600mm (Special custom products)
Taper of Cutting Workpiece: ±6°(200mm from the center of the upper and lower guide wheels)
Accuracy of Cutting OctagonWorkpiece: ≤0.015mm(prism)
Optimum Roughness(prism): multiple-cut Ra≤1.6um 50mm²/min
Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Actual Maximum Cutting Efficiency:
≥180mm²/min (continuous cutting area over 500,000mm²)
Electrode Wire Loss:
≤0.01mm (when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min)
Wire Speed: adjusted by program
Maximum Electrode Wire Diameter: ≤0.25mm
Net Weight: 6500kg
Maximum Load Weight: 5000kg
Outer Diameter Size of Machine Tool: 4300×4000×2100mm
Power Consumption of Machine Tool: ≤1.2kw

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

参数(Parameter) / 型号(model)	HF320D	HF400D	HF500D	HF630D	HF800D	HF1000D
工作台面尺寸(mm) Worktable Size	690 × 458	820 × 568	1134 × 712	1134 × 850	1334 × 850	1540 × 1140
工作台行程(mm) Worktable Stroke	350 × 400	450 × 550	500 × 800	630 × 800	800 × 1000	1000 × 1200
最大加工厚度(mm) Maximum Cutting Thickness	300	400	600	600	600	600
加工锥度(在上下导轮中心距200mm时) Taper of Cutting Workpiece	30 °	60 °	60 °	60 °	60 °	60 °
净重(kg) Net Weight	1500	1900	2600	3200	3700	4500
最大承载重量(kg) Maximum Load Weight	600	1200	2000	2300	2800	5000
主机外形尺寸(mm) Outer Diameter Size of Machine Tool	1400X1340X1800	1650X1610X1800	2050X2174X2200	2150X2150X2200	2300X2500X2300	2700X2500X2300
八方切割精度(mm) Cutting accuracy	≤0.015（直体） ≤0.015 (prism)					
最佳粗糙度(直体) Optimum Roughness	一次切割Ra≤2.5um 20mm²/min Main cutting Ra≤2.5um 20mm²/min					
实用最大切割效率 Maximum Cutting Efficiency	≥180mm²/min（连续切割50万mm²以上） ≥180mm²/min continuous cutting area over 500,000mm²					
钼丝寿命 Electrode wire life	≥100万mm²（120mm²/min连续切割时） ≥1 000 000 mm²(continuous cutting at a speed of 120mm²/min)					
钼丝损耗 Electrode Wire Loss	110mm²/min速度时，连续割40万mm，丝耗≤0.01mm Electrode Wire wear≤0.01mm when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min					
走丝速度 Wire Speed	可程序设定 adjusted by program					
最大钼丝直径 Maximum Electrode Wire Diameter	≤0.25mm					
电消耗功率 Power Consumption of Machine Tool	≤0.8kw					

因技术改进，以上数据如有更改，以产品技术文件为准。

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

G19x

Using our company s Thermal Cycle Pump patented technology for heat dissipation
Patent: No: ZL201220694371.0

X8 automatic programming and control system
Low wire wear controlled by pulse waveform
From the graphical interface directly into the processing interface,with multiple cutting functions
Control methods are compatible with international standard ISO codes and accept other CAD codes
Processing trajectory can be displayed in real time
Cut taper and top and bottom shaped workpiece with 4-axis linkage
Power interruption and broken wire protection measures
Stop the machine tool when machining ends, There are two modes of manual and automatic shutdown
Stop automatically on the side of the wire tube when machining ends
Frequency changer configuration, adjust the wire speed during processing and replace the wire electrode at the lower wire speed(instead of manual operation)
Adopt advanced resistance-free stepper motor drive circuit, Stable and energy-saving
Simple structure, integrate strong and weak electricity(including machine tool appliances)
" Thermal Cycle Pump " technology for automatic cooling

G20[G20s]

Using our company s Thermal Cycle Pump patented technology for heat dissipation
Patent: No: ZL201220694371.0

AUTOCUT automatic programming and control system
Intelligent pulse waveform control for low wire wear/ Digital servo tracking
From the graphical interface directly into the processing interface,with multiple cutting functions
Control methods are compatible with international standard ISO codes and accept other CAD codes
Processing trajectory can be displayed in real time
Cut taper and top and bottom shaped workpiece with 4-axis linkage
Power interruption and broken wire protection measures
Stop the machine tool when machining ends, There are two modes of manual and automatic shutdown
Stop automatically on the side of the wire tube when machining ends
Frequency changer configuration, adjust the wire speed during processing and replace the wire electrode at the lower wire speed(instead of manual operation)
Adopt advanced resistance-free stepper motor drive circuit, Stable and energy-saving
Simple structure, integrate strong and weak electricity(including machine tool appliances)
" Thermal Cycle Pump " technology, automatic cooling
Unlocking function for quick connection with customer management system
Models with " s " for servo drive and handheld Box

J19

Using our company's "Thermal Cycle Pump" patented technology for heat dissipation
Patent: No: ZL201220694371.0

J19 Type electric control cabinet

Low wire wear controlled by pulse waveform
Can cut workpiece with prism、taper and simple top and bottom shape
Can input or receiveover 2000 codes
Fast code proofing function
Control cutting and input command simultaneously
Using a new monolithic IC circuit for long term operation in industrial environments
Control radius up to 10 meters
Power interruption and broken wire protection functions
Automatic stop at the end of processing, and the wire electrode stopping at one side of wire barrel
Frequency changer configuration, adjust the wire speed during processing and replace the wire electrode at the lower wire speed(instead of manual operation)
Integrated CNC, discharge power, machine control as a whole
Unique mounting structure for easy maintenance
Adopt advanced resistance-free stepper motor drive circuit, Stable and energy-saving
"Thermal Cycle Pump" technology, automatic cooling

型号(model) / 参数(Parameter)	HF200M	HF320MZP	HF400MZP	HF500MZP	HF500AMZP	HF630MZP	HF800MZP	HF1000MZP
工作台面尺寸(mm) Worktable Size	430×290	690×458	820×568	910×588	1134×712	1134×850	1334×850	1540×1140
工作台行程(mm) Worktable Stroke	200×250	350×450	450×550	500×630	500×800	630×800	800×1000	1000×1200
最大加工厚度(mm) Maximum Cutting Thickness	100	400	400	400	600	600	600	600
加工锥度(在上下导轮中心距200mm时) Taper of Cutting Workpiece	0°	±6°	±6°	±6°	±6°	±6°	±6°	±6°
净重(kg) Net Weight	600	1400	1800	2000	2600	3200	3700	4500
最大承载重量(kg) Maximum Load Weight	100	600	1200	1300	2000	2300	2800	5000
主机外形尺寸(mm) Outer Diameter Size of Machine Tool	1300×900×1200	1400×1340×1700	1650×1610×1700	1720×1720×1700	2050×2174×2100	2150×1850×2100	2300×2150×2100	2700×2500×2200
八方切割精度(mm) Cutting accuracy	≤0.010（直体） ≤0.010 (prism)							
最佳粗糙度(直体) Optimum Roughness	多次切割Ra≤1.5um 70mm²/min Multiple cuts Ra≤1.5um 70mm²/min							
实用最大切割效率 Maximum Cutting Efficiency	≥180mm²/min							
走丝速度 Wire Speed	可程序设定 adjusted by program							
最大钼丝直径 Maximum Electrode Wire Diameter	≤0.25mm							
电消耗功率 Power Consumption of Machine Tool	≤0.8kw							

因技术改进，以上数据如有更改，以产品技术文件为准。

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MARLA TURKEY

HF200-J19

HF320ZP-J19

HF400ZP-J19

参数(Parameter) \ 型号(model)	HF200	HF320Z	HF400Z	HF500Z	HF500AZ	HF630Z	HF800Z	HF1000Z
工作台面尺寸(mm) Worktable Size	430×290	690×458	820×568	910×588	1134×712	1134×850	1334×850	1540×1140
工作台行程(mm) Worktable Stroke	200×250	350×450	450×550	500×630	500×800	630×800	800×1000	1000×1200
最大加工厚度(mm) Maximum Cutting Thickness	100	400	400	400	600	600	600	600
加工锥度(在上下导轮中心距200mm时) Taper of Cutting Workpiece	0°	±6°	±6°	±6°	±6°	±6°	±6°	±6°
净重(kg) Net Weight	600	1400	1800	2000	2600	3200	3700	4500
最大承载重量(kg) Maximum Load Weight	100	600	1200	1300	2000	2300	2800	5000
主机外形尺寸(mm) Outer Diameter Size of Machine Tool	1300×900×1200	1400×1340×1700	1650×1610×1700	1720×1720×1700	2050×2174×2100	2150×1850×2100	2300×2150×2100	2700×2500×2200
八方切割精度(mm) Cutting accuracy	≤0.015（直体） ≤0.015 (prism)							
最佳粗糙度(直体) Optimum Roughness	一次切割Ra≤2.5um 20mm²/min Main cutting Ra≤2.5um 20mm²/min							
实用最大切割效率 Maximum Cutting Efficiency	≥180mm²/min（连续切割50万mm²以上） ≥180mm²/min continuous cutting area over 500,000 mm²							
钼丝寿命 Electrode wire life	≥100万mm²（120mm²/min连续切割时） ≥1 000 000 mm²(continuous cutting at a speed of 120mm² /min)							
钼丝损耗 Electrode Wire Loss	110mm²/min速度时，连续割40万mm，丝耗≤0.01mm Electrode Wire wear≤0.01mm when the continuous cutting area is up to 400,000mm² at a speed of 110mm²/min							
走丝速度 Wire Speed	可程序设定或11.6m/s adjusted by program or 12m/s							
最大钼丝直径 Maximum Electrode Wire Diameter	≤0.25mm							
电消耗功率 Power Consumption of Machine Tool	≤0.8kw							

因技术改进，以上数据如有更改，以产品技术文件为准。

Due to technical improvement, if any of the above data is changed, the product technical documents shall prevail.

MARLA TURKEY

GX+ series evolutionary transformation

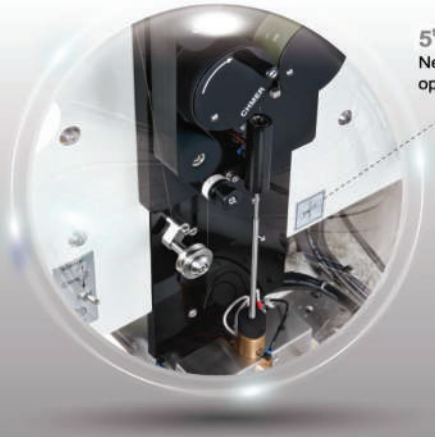
GX+ Series provide the newest technologies with CHMER produced Linear Motors, Power & Servo stabilizer, Energy Saving, 5th Generation AWT and W5F Controller, Inverter Type Water Chiller.

HP-AVR

Power & Servo stabilizer.
Less Wire breaks & High Efficiency repeat cutting.

ESL PCB

AC-DC Power Transformation.
Nearly 20% Reduced Electrical Consumption.



5th Generation AWT

Nearly 100% Reliable Threading, open air and in the kerf.

Newest W5F Control

CHMER writes their own software allowing for customer upgrade at a later date.

UPGRADE

Inverter Type Water Chiller

Equipped with the newest inverter water chiller the temperature variation inside the chamber within ±0.3°C for precise machining and greatly reduces heat emission meanwhile save energy consumption of air-conditioner by 45%.

Linear Motor

CHMER built Linear Motor Precision with High resolution drivers and glass scales on X & Y axis.

Benefit of Linear Motor

In-House Linear Motor

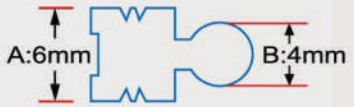
Linear Motor results a wear-free and no conversion motion to have a perfect positioning. GX⁺series equips X/Y In-House Linear Motor to obtain many advances features that the regular Wire Cut could not have, such as smoothly direct movement, high responsiveness, perfectly accurate positioning as well as vibration, maintenance and backlash free. So it guarantees an outstanding performance and long life span.

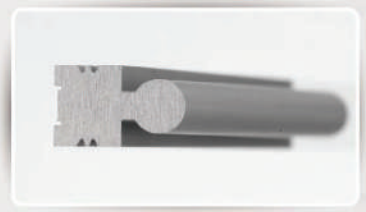
Reduce Profile Error
(Improving Linear & Circular Cross-section)

Work Conditions:

Brass Wire :Ø0.20mm Work-Piece = SKD11
Harden Steel Thickness =50mm
Cutting Pass = 1+2 Skims

《Cutting Shape》





	Linear Motor		Ball Screw	
	A section	B section	A section	B section
Up	5.999	3.999	5.999	3.998
Middle	6.000	3.998	5.998	3.995
Bottom	6.000	4.000	6.000	3.999
Error	-0.001	-0.002	-0.002	-0.005

Surface Roughness Enhancement

With Funtion ： 『AC μ Super-Finish Circuit』
Cutting Result: Improved cutting speed and surface finish with over 3 skims cuts. Linear motor with virtually no backlash provides for even metal removal all around the work-piece , especially when skim cut is <0.0001"(0.25 microns)

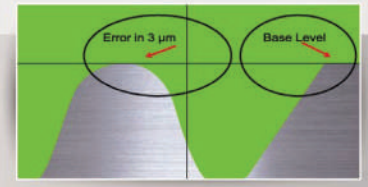
Brass Wire=0.20mm/BS Work-piece=SKD11
Cutting Pass=1+4 Skims T=25 MM
Ra=0.20μm

Linear Motor	Ball-Screw
1+4Skims=0.23~0.25μm/Ra	1+4Skims=0.28μm/Ra

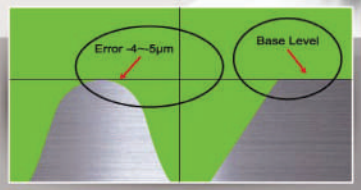
Improvement on "Corner" by Linear Motor

Work Conditions:

Brass Wire :Ø0.20mm Work-Piece = SKD11 Harden Steel Thickness =50mm
Cutting Pass = 1+2 Skims Shape Corner =30° Ra = 0.58 Radius (R)=0.20mm



Linear Motor (Radius Error : 3μm)
Optical Projector Scaling: 120X

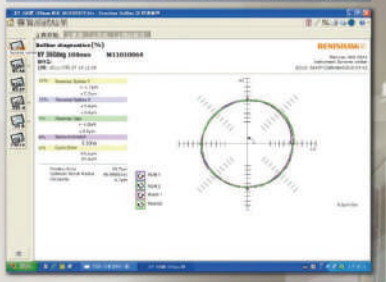


Ball-Screw (Radius Error: 4~5μm)
Optical Projector Scaling: 120X

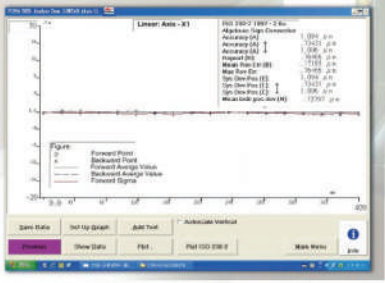
Ball-Screw V.S. Linear Motor

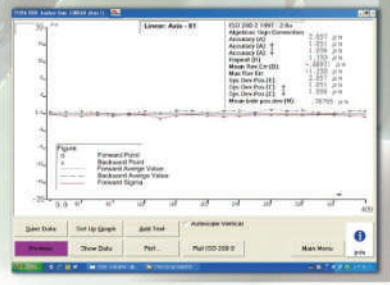
New hardware with Linear Motor & Glass Scale (0.5μm Resolution) are the need match。
Use Laser Interpolation & BALL-BAR Circularity Test to prove the strictly Q.C. control at CHMER, the result was satisfactory.

Linear Motor "GX⁺" (Circularity 6~8μm)



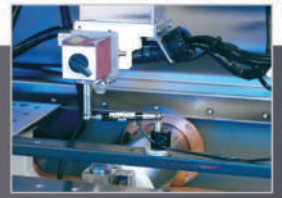
Ball-Screw Typical (Circularity 8~10μm)





▪ Linear Motor

▪ Linear Scale



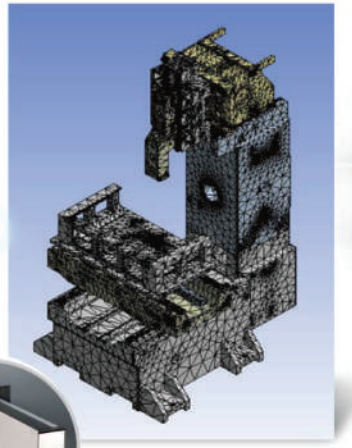
▪ Ball-Bar Test

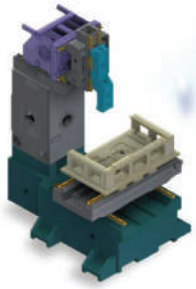
▪ Laser Alignment

MARLA TURKEY

High Rigidity and Thermal Balanced Structure

To meet machining demands, The machine has been designed from the base frame through 3D simulation to optimize stability and extend the machine life. .
Center-of-gravity position on leveling pads, maintain an enormous machine accuracy without any deformation.

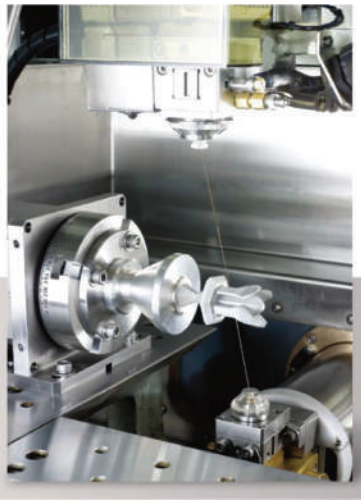




Hardware Functions

In-house Rotary B-AXIS

6th Axis continuous cut or indexing (optional) with in-house submergable rotary B-Axis for turns and burns.



▪ 30 kg Jumbo Wire Feeder

▪ Wire chopper

『G6』 Generator Power Control System

AC Electrolysis-Free Power

AC & DC switchable power supply. AC used for minimum cobalt depletion and best surface roughness in Carbides, also best cutting speed in PCD and PCBN materials. Also extend the life-Span of molds.

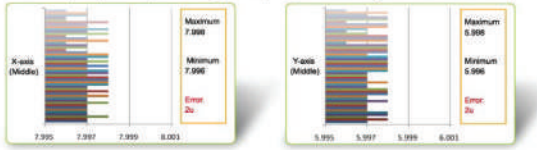
AC-μ Super Fine Finish (N/A on model GX530L/GX640L)

Cut Pass		5th Cut	4th Cut	3rd Cut	2nd Cut	1st Cut
Surface Roughness	Ra	0.25	0.32	0.62	2.0	2.4
	Ry	2.1	3.0	5.0	13.3	14.3

HP-AVR Cutting Voltage Stabilizer

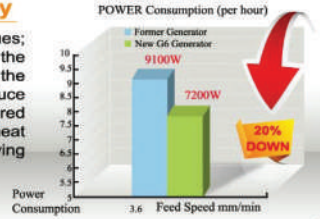
Automatic/Smart voltage-stabilizing power supply.
By using the cutting-edge technology, the new power control system can effective transform the unstable energy into pure stabilized electricity. Through it, the smart logic of the power control can effectively to transform and supply the discharge power for a fast cutting feed.

8x6mm square punch (Continually for 50pcs job with a single-cut at 30mm thick)



ESL -Energy Saving Power Supply

With exclusively developed power saving techniques; the New Power Control system can transform the power applied in discharge process and recharge the electricity of the generator. This process can reduce the power consumption up to over 20% (compared with the previous models). Also, it reduces the heat emission problem. It fits the idea of energy saving and carbon emission reduction.

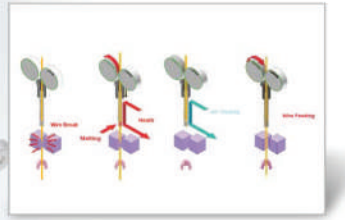


Professional Industrial High Speed Processor & Discharge Erosion control

Embedded DOS OS system，reduce burden on processor，more stability of control system and better speed. The superior ASIC Chip, increases the response speed and feedback of cutting servo / current / voltage by real-time. DOS greatly improves CPU reliability while virtually eliminating CPU virus.
DOS also is instantly on; no booting time required. (Windows OS is available as an option)

CHMER Invented 5th generation AWT

Unattended over night and over weekend Auto Threading



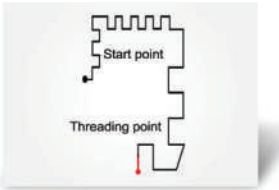
Reliable automatic wire threading system control

- Capable of threading wire under water and on location. No need to return back to start point, drain the work-tank and then dry-run to wire break point.
- Simply design to make maintenance easy and cost less.
- Can thread wire at stepped work-piece, when the upper head cannot reach the work-piece.

5th Generation AWT

『EC』Tension Control Technology, ensures a constant tension to obtain superb threading rate, less than 10 seconds.

All new servo system feedback module of AWT

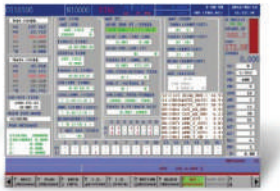


Wire Rethread at break points:

Immediately perform rethreading when wire breaks.

Visual parameter setting:

Parameters can be set for different wire diameters and types.



Monitoring Screen:

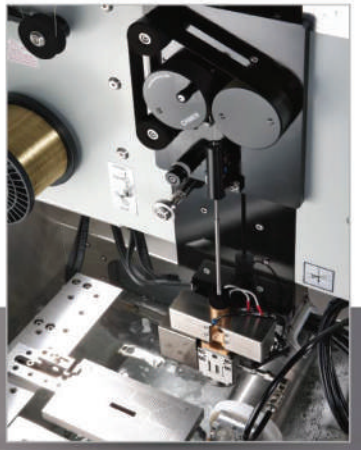
Record every step of AWT process, monitors and adjusts to enhance the stability.

3999 Sets Memory Holes:

Record the latest 3999 sets if processing holes, allow user to check the failure and then restart.

100 sets NC Program Memory:

Record the latest 100 sets NC programs, let the operator knows the processing whether be finished based on the board information.



• AWT Device

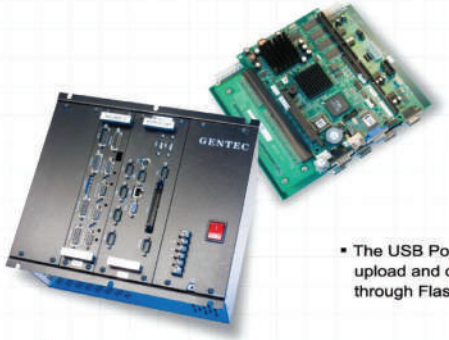
• Multi-cavity threading

MARLA TURKEY

CHMER BUILT CNC CONTROLLER

W5F Controller Features

- All Software and Hardware are with full authorized. (Copyright Reserved by CHMER)
- IPC 586 Mother Board，Compatible Intel or similar CPU .
- DRAM 64M bytes .
- High Capacity storage device CF card 128M bytes .
- Touch Screen or Optical Mouse Support (OPT) .
- Synchronized 6th Axis (B Axis) Support (OPT) . Indexing and "Turn & Burn".
- All software functions and controller are fully compatible with FANUC™ post processor in CAM software.



▪ Friendly User Interface and Operate Console.

▪ The USB Port allows to upload and download through Flash drive.

Remote Monitoring

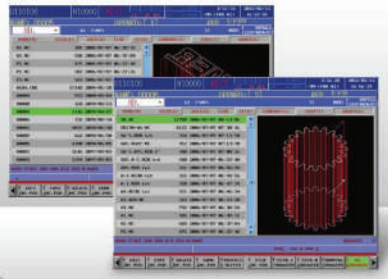
▪ WEB page to monitor Functions (PC)

▪ Team-Viewer™ (A Pay Software, not included)

▪ Remote Control (Through illegal purchase software "Team-viewer") for real-time monitoring & operate machine.

Software Functions

User-Friendly File Management



EDM Technology Database

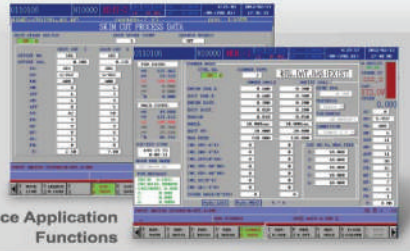
Graphic Manual Function

System Device Management+ Optimum system parameter

3D Graphic Simulation + NC path Info.

NC Register

Advance Application Functions



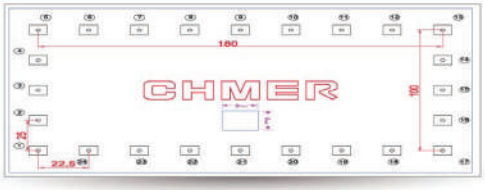
Power Record pointand CoordinateSystems

High Accurate Cutting

±4μm

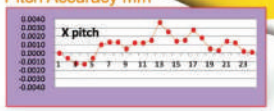
Workpiece material: SKD11 Workpiece thickness =20.00mm
Number of cuts: 4 times
Environment Condition = Temperature controlled room at 23°C~24°C

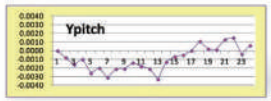
A.Real Room Temperature : 23.5°C ±0.5°C
B.Water Temperature : 22.5°C ±0.5°C
C.Real m/c body Temperature : 23.5°C ±0.5°C



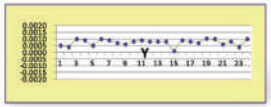
	Pitch Accuracy mm				Cutting shape mm				
	Coordinate		Measured Error		Job Size		Measured Error	
NO	X	Y	X	Y	X	Y	X	Y
1	0	0	0.0000	0.0000	8	8	0.0004	0.0005
2	0	25	-0.0006	-0.0008	8	8	-0.0005	0.0004
3	0	50	-0.0012	-0.0016	8	8	0.0009	0.0010
4	0	75	-0.0013	-0.0010	8	8	0.0007	0.0009
5	0	100	-0.0006	-0.0026	8	8	-0.0005	0.0005
6	22.5	100	0.0010	-0.0020	8	8	0.0010	0.0010
7	45	100	0.0013	-0.0031	8	8	0.0001	0.0009
8	67.5	100	0.0013	-0.0031	8	8	0.0006	0.0007
9	90	100	0.0005	-0.0021	8	8	0.0003	0.0006
10	112.5	100	0.0012	-0.0014	8	8	0.0009	0.0008
11	135	100	0.0012	-0.0018	8	8	0.0000	0.0009
12	157.5	100	0.0015	-0.0021	8	8	0.0006	0.0009
13	180	100	0.0036	-0.0033	8	8	0.0009	0.0008
14	180	75	0.0025	-0.0013	8	8	0.0009	0.0008
15	180	50	0.0014	-0.0007	8	8	-0.0009	0.0001
16	180	25	0.0015	-0.0005	8	8	-0.0001	0.0009
17	180	0	0.0027	0	8	8	0.0009	0.0006
18	157.5	0	0.0018	0.0011	8	8	0.0008	0.0007
19	135	0	0.0005	0.0002	8	8	0.0009	0.0010
20	112.5	0	0.0003	0.0001	8	8	0.0009	0.0010
21	90	0	0.0014	0.0013	8	8	0.0010	0.0008
22	67.5	0	0.0012	0.0015	8	8	0.0010	0.0008
23	45	0	0.0002	-0.0004	8	8	0.0009	0.0004
24	22.5	0	0.0001	0.0006	8	8	0.0010	0.0010
	Min. error mm		-0.0013	-0.0033	Min. error mm		-0.0009	0.0004
	Max. error mm		0.0036	0.0015	Max. error mm		0.0010	0.0010

Pitch Accuracy mm

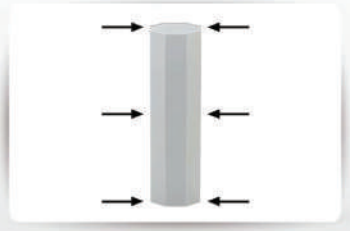


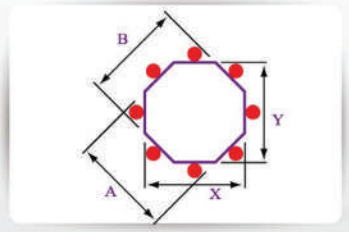


Cutting shape mm



Straightness Accuracy





Straightness

Workpiece: SKD-11 Thickness: 30 mm
Wire diameter: Ø0.2mm No. of cut: 3 cuts
Accuracy: ±2 μm

Measurement figure

Marked red color means the measured points.

Accuracy	X	A	Y	B	Error
Up	9.999	9.999	9.999	9.999	0μ
Mid.	9.997	9.999	9.999	9.999	2μ
Dn.	9.999	9.999	9.999	9.999	0μ
Error	0.002	0	0	0	

Sample Illustration

Job Material: SKD-11
Job Thickness: 30 mm
Wire diameter: Ø0.20 mm
Number Of Cut: 1+ 2 Skims
Work Hour: 1 Hour 10 Mins
Accuracy: 3μm
Surface Roughness:
Ra 0.55~0.58μm

Job Material: SKD-11
Job Thickness: 17 mm
Wire diameter: Ø0.15 mm
Number Of Cut: 1+ 2 Skims
Work Hour: 1 Hour 50 Mins
Accuracy: ±3μm
Surface Roughness:
Ra 0.55~0.58μm

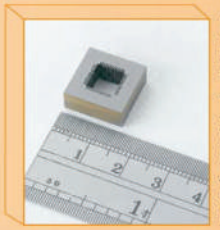
Job Material: SKD-11
Job Thickness[Punch]: 50mm
Job Thickness[Die]: 20mm
Number Of Cut: 1+2 Skims
Surface Roughness:
Ra 0.58~0.63μm

Taper Cut
Job Material: SKD-11
Job Thickness: 11.45 mm
Wire diameter: Ø0.20 mm
Number Of Cut: 1 Cut
Work Hour: 1 Hour 30 Mins
Taper Angle: 21°

Job Material: SKD-11
Job Thickness: 25 mm
Wire diameter: Ø0.20 mm
Number Of Cut: 1+ 2 Skims
Work Hour: 1 Hour 50 Mins
Accuracy: ±3μm
Surface Roughness:
Ra 0.55~0.58μm

Job Material: SKD-11
Job Thickness [Punch]: 50 mm
Job Thickness [Die]: 30 mm
Wire diameter: Ø0.20 mm
Number Of Cut: 1+ 2 Skims
Work Hour: 4 Hours 00 Mins
Accuracy: 3μm
Surface Roughness:
Ra 0.58~0.63μm

PCD formed milling cutters
Job Material: PCD
Job Thickness: 2.5 mm
Wire diameter: Ø0.20 mm
Feed rate: 2.0 mm/min



Dia.Ø0.1mm wire processing
Purpose: For the precision molds of IC industries etc.
Job Material: Carbide
Job Thickness: 5 mm
Wire diameter: Ø0.10 mm
Number Of Cut: 1+ 2 Skims
Accuracy: 3μm
Surface Roughness:
Ra 0.40μm (AC-μ ciucuit, opt)

MARLA TURKEY

Specification

MODEL	GX360L+	GX430L+	GX530L+	GX640L+
Axis Travel (XxYxZ mm)	360 x 250 x 220 (mm)	400 x 300 x 220 (mm)	500 x 300 x 220 (mm)	600 x 400 x 300 (mm)
Axis Travel (UxV mm)	60 x 60 (mm)	60 x 60 (mm)	60 x 60 (mm)	100 x 100 (mm)
Max. Size of Workpiece (mm)	W725 x D560 x H215 (mm)	W725 x D600 x H215 (mm)	W825 x D600 x H215 (mm)	W910 x D700 x H295 (mm)
Max. Weight of Workpiece (kg)	300 Kg	350 Kg	500 Kg	600 Kg
XY Feed Rate	Max.1500 (mm/min)			
Axis Drive System	X · Y axis by Linear Motor : U · V · Z axis by AC Servo Motor			
Wire Diameter Range (Standard)	Ø 0.15~0.3 (Ø 0.25) (Note: Ø0.10mm optional)			
Max. Wire Feed Rate	300 mm/sec.			
Wire Tension	300~2500 (gf)			
Taper Angle	±14.5°/80(wide-angled nozzle · DA+DB=15mm)			±21°/100(wide-angled nozzle · DA+DB=15mm)
Machine Weight kg	2500	2600	3195	3595
Working Fluid Supply Unit				
Tank Capacity	590L	650L	650L	760L
Filter Element	Paper	Paper	Paper	Paper
Ion Exchange Resins	14L	14L	14L	14L
Conductivity Control	Auto	Auto	Auto	Auto
Fluid Temperature Control	Auto	Auto	Auto	Auto
Power Supply Unit				
Circuit System	Power MOSFET Transistor			
Max. Output Current	25A			
IP Slelect	10			
Off Time System	50			
CNC Unit				
Date Input	Keyboard · RS-232C · USB · LAN			
Display	15-Inch Color			
Control System	32bit · 1-CPU · X&Y Closed Loop			
Control Axis	X · Y · U · V · Z (5 Axis) · 6th axis optional			
Setting Unit	0.001 mm			
Max. Command Value	±9999.999 mm			
Interpolation	Linear/Circular			
Command System	ABS/INC			
Machining Feed Control	Servo/Const. Feed			
Scaling	0.001-9999.999			
Machining EDM Condition Memory	1000-9999			
Total AC Power Input	3 Phase 220 ±5%/11KVA			

Standard/Optional Accessories

Standard ● Option ○ Not Available —

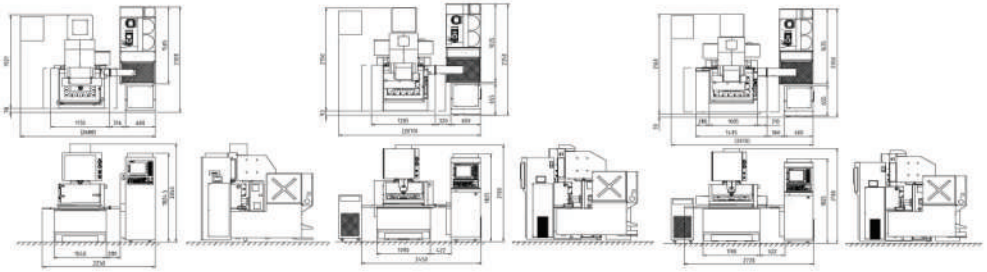
ITEM	SPECIFICATION	AMOUNT	GX360L+	GX430L+	GX530L+	GX640L+
Paper Filter		2 pcs	●	●	●	●
Upper/Lower Diamond Guides	0.26mm	2 pcs	●	●	●	●
Upper/Lower Flushing Nozzles		2 pcs	●	●	●	●
Energizing Carbides		2 pcs	●	●	●	●
Diamond Guide Remove Jig		1pcs	●	●	●	●
Brass Wire	Ø 0.25mm x 5kg	1 roll	●	●	●	●
Tools		1set	●	●	●	●
Ion Exchange Resins	6L	1set	●	●	●	●
Alignment Jig		1set	●	●	●	●
AC Inverter Water Chiller	2T	1 set	●	●	●	●
AC Power		1 set	●	●	●	●
USB Port		1 set	●	●	●	●
X&Y Axis Linear Motor	CHMER	1 set	●	●	●	●
X&Y Axis Glass Scale	0.5 µm	1 set	●	●	●	●
Resuming Work function		1 set	●	●	●	●
Remote Monitoring function		1 set	●	●	●	●
Swivel TFT Panel		1 set	●	●	●	●
Auto Wire Threading Device		1 set	○	○	○	○
Energy Saving Power (ESL)	(G6 Generator)	1 set	○	○	○	○
HP-AVR	(G6 Generator)	1 set	○	○	○	○
AC-µ Fine finishing		1 set	○	○	—	—
30 Kg jumbo wire feeder		1 set	○	○	○	○
Wire Chopper		1 set	○	○	○	○
0.1 mm wire device		1 set	○	○	○	○
Rotary B-axis (6th axis function)	CHMER	1 set	○	○	○	○

3 years warranty on Linear Motors (Rotor+Stator)

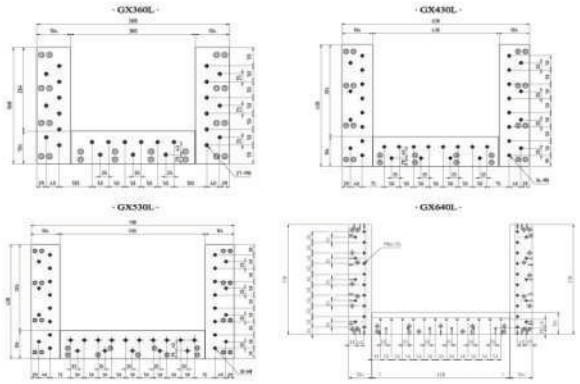
5 years positioning guarantee

Floor Layout

GX360L+ GX430L+ GX530L+ GX640L+



Work Table Dimension



MARLA TURKEY

8.8 million units

55,000 units

Wide application

Great potential

Aging

Poor quality

Difficulty recruiting workers

Difficult to sustain

One-stop welding solution: one core and two wings, **both rigid and flexible**

3kg-25kg load, 705mm-2258mm arm span, full coverage

Five major features

MARLA TURKEY

Product features: soft

Direct force control technology

Full body soft control & high dynamic force control

Full body force sensing technology

1N

Current detection based on motor current loop: 50N

Force control based on end and base: 10N

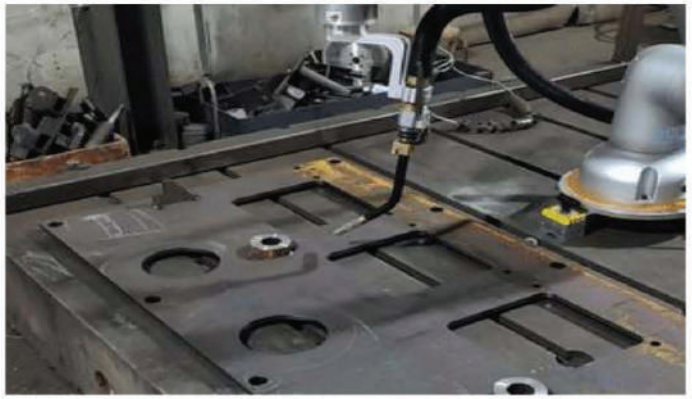
Product features: Precision

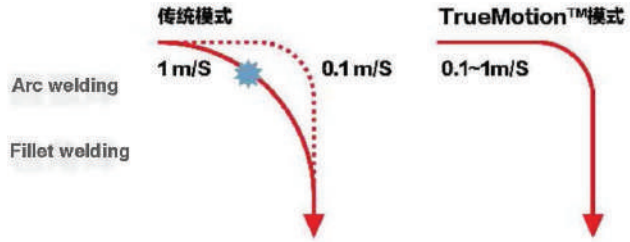
Speed-Independent path planning technology The taught path is exactly the same as the actual running path

Global Error Compensation Technology

Vibration Suppression Technology

No shaking, no speed reduction





Product features: Safety

Equipped with joint force sensor

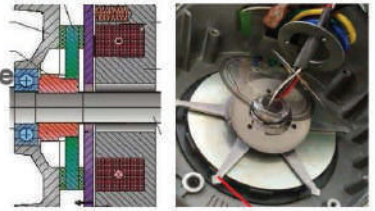
Equipped with independent safety controller

Area, position, speed, force monitoring

Don't let your heart

Luoshi: Suction type

Competitor: Pin type



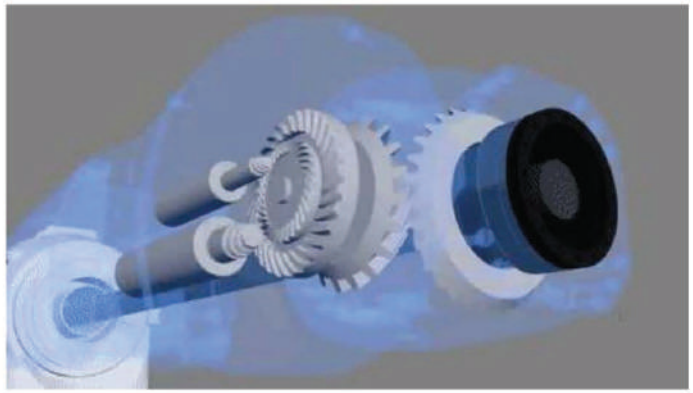
Product features: stable

Hypoid gear meshing transmission

IP67/CR/CE and other comprehensive industry authoritative certification

200+ kinetic parameter modeling

Durable



Absolute positioning accuracy improved: 50%

Absolute trajectory accuracy improved: 40%

Product features: up to

- Multi-axis coordinated control technology
- Multi-channel robot control technology
- Oversized hollow wrist

Strong accessibility

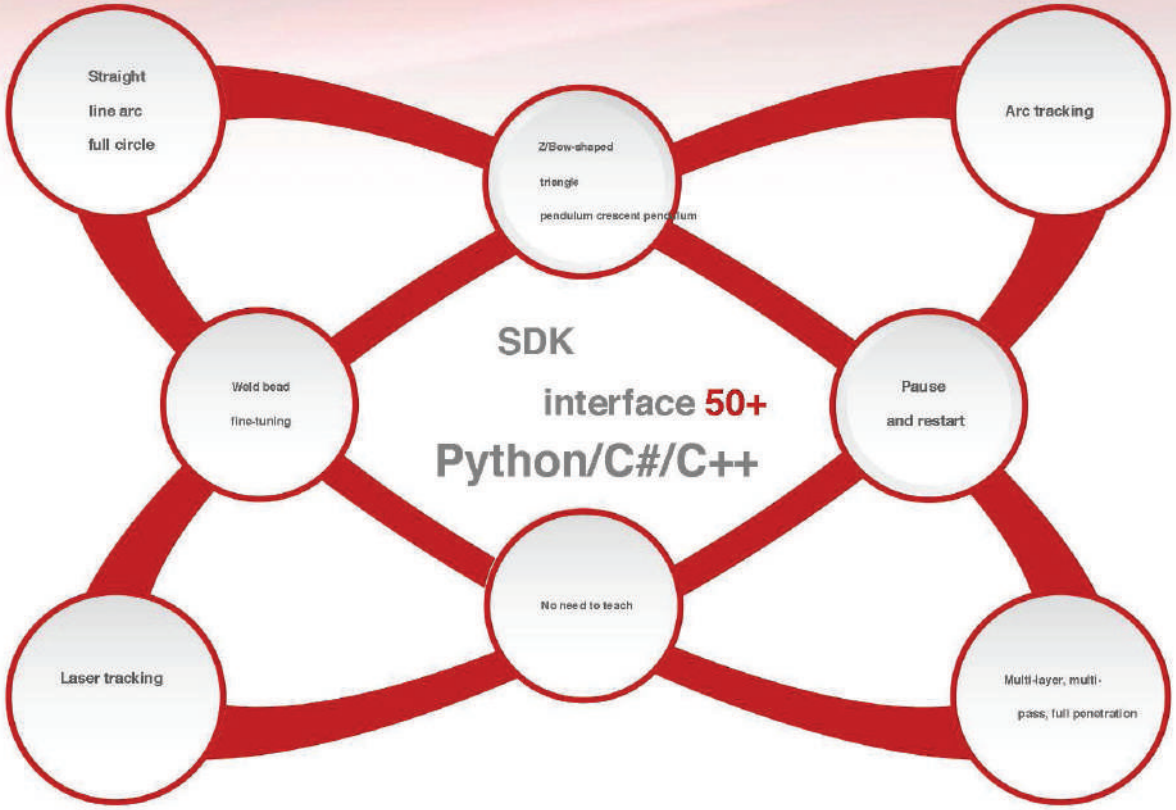
Fully built-in pipeline

Collaborative welding product portfolio: easy to use and flexible to deploy

MARLA TURKEY

Industrial welding product portfolio: high speed, high precision , durable

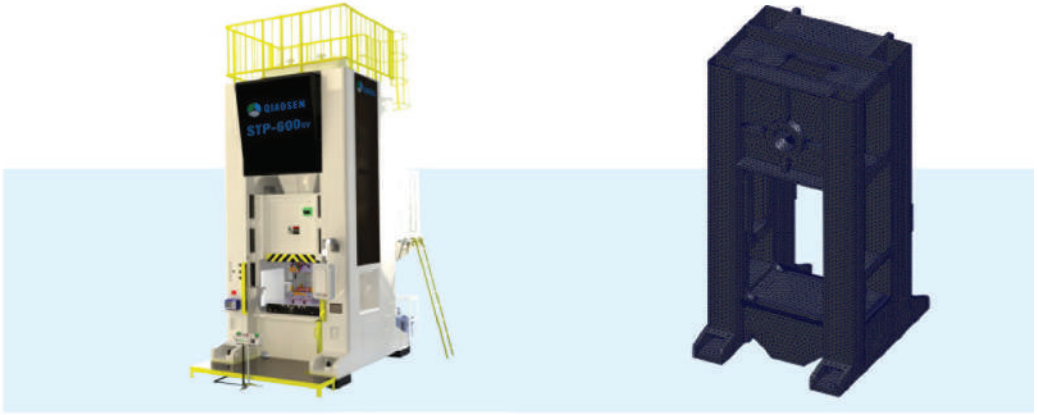
Welding product function: customized development for customers



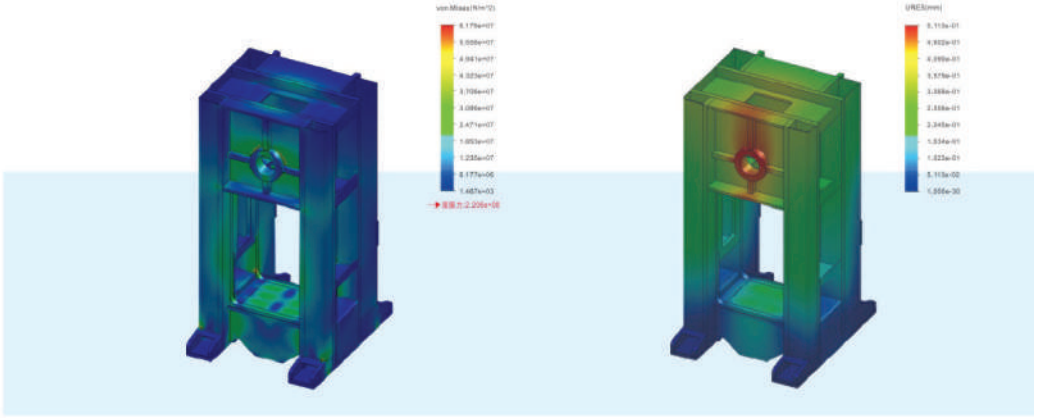
QIAOSEN PUNCH NINE ADVANTAGE PRODUCTS

FINITE ELEMENT ANALYSIS(FEA)

Through solidworks finite element analysis (FEA), refined design, optimized structure, reasonable layout, and full play of product performance. Provide customers with quality products.



STP600



C-FRAME SINGLE CRANK PRESSES

Performance Features

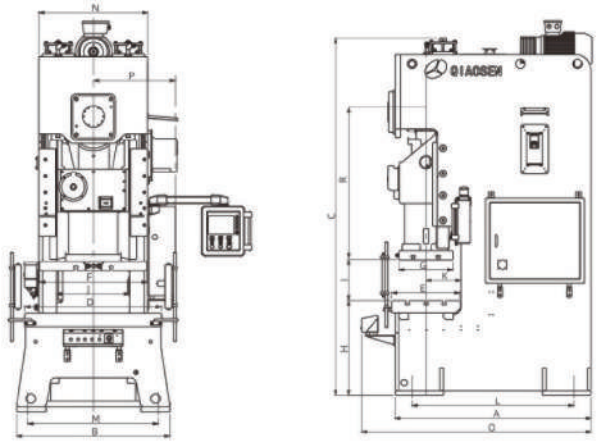
- Adopting high-strength body structure, with small deformation and high accuracy.
- Adopting OMPI pneumatic dry clutch brake.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process": low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Optional mold pad (air cushion).

Technical Parameters

Name		ST-25		ST-35		ST-45		ST-60		ST-80		ST-110		ST-160		ST-200		ST-260		ST-315		ST-400
Mode		V	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	V	H	
Punching capacity	TON	25		35		45		60		80		110		160		200		260		315		400
Rating point	mm	3.2	1.6	3.2	1.6	3.2	1.6	4	2	4	2	6	3	6	3	6	3	7	3.5	7	3.5	7
Stroke per minute	SPM	60-140	130-200	40-120	110-180	40-100	110-150	35-90	80-120	35-80	80-120	30-60	60-90	20-50	40-70	20-50	50-70	20-40	40-50	20-40	40-50	20-40
Stroke length	mm	60	30	70	40	80	50	120	60	150	70	180	80	200	90	200	100	250	150	250	150	250
Max Die Height	mm	200	215	220	235	250	265	310*	340*	340	380	360	410	460	515	460	510	500	550	520	570	550
Slide adjustment	mm	50		55		60		75*		80		80		100		110		120		120		120
Slide size	mm	470×230×50		520×250×50		560×340×60		700×400×70		770×420×70		910×470×80		990×550×90		1130×630×90		1250×700×100		1300×750×100		1300×750×110
Bolster size	mm	680×300×70		800×400×70		850×440×80		900×500×80		1000×550×90		1150×600×110		1250×800×140		1400×820×160		1500×840×180		1600×840×180		1700×900×200
Frame gap	mm	155		205		225		255		280		305		405		415		430		430		460
Platform to floor distance	mm	795		790		790		785		830		830		900		995		1030		1030		1140
Shank hole	mm	Φ38.1		Φ38.1		Φ38.1		Φ50		Φ50		Φ50		Φ65		Φ65		Φ65		Φ65		Φ65
Main motor power(vfd)	kW×P	3.7×4		3.7×4		5.5×4		5.5×4		7.5×4		11×4		15×4		18.5×4		22×4		30×4		37×4
Slide adjust device		手 动 Manual operation								电 动 Electric operation												
Air pressure	kg/cm²	6								6												
Press accuracy grade		JIS 1级								JIS 1级												
Press dimension (L*W*H)	mm	1280×850×2200		1380×900×2400		1575×950×2500		1595×1000×2800		1800×1180×2980		1900×1300×3200		2315×1400×3670		2615×1690×4075		2780×1850×4470		2780×1870×4470		3010×1970×5180
Press weight	tons	2.1		3		3.8		5.6		6.5		9.6		16		23		32		34		42
Die cushion capacity (optional)	ton	-		2.3		2.3		3.6		3.6		6.3		10		14		14		14		20
Die cushion stroke (optional)	mm	-		50		50		70		70		80		80		100		100		100		120
Die cushion active area	mm²	-		300×230		300×230		350×300		450×310		500×350		650×420		710×480		810×480		810×480		560×360

*We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.
*This parameter is reduced by 10mm if the slider is selected for electric die adjustment.

Overall Dimension



Pecification	ST-25	ST-35	ST-45	ST-60	ST-80	ST-110	ST-160	ST-200	ST-260	ST-315	ST-400
A	1100	1200	1400	1420	1595	1720	2140	2440	2615	2615	2865
B	840	900	950	1000	1170	1290	1390	1715	1850	1870	1970
C	2135	2345	2425	2780	2980	3195	3670	4075	4470	4490	5110
D	680	800	850	900	1000	1150	1250	1400	1500	1500	1800
E	300	400	440	500	550	600	800	820	840	840	900
F	470	520	560	700	770	910	990	1130	1130	1130	1300
G	250	285	340	400	420	470	550	630	700	750	750
H	795	790	790	785	830	830	900	995	1030	1030	1050
I	260	290	320	420	480	530	650	650	750	770	800
J	444	488	502	526	534	616	660	790	900	900	950
K	160	205	225	255	280	305	405	415	430	430	460
L	980	1040	1170	1180	1310	1420	1760	2040	2005	2005	2255
M	700	800	840	890	980	1100	1200	1400	1560	1580	1630
N	540	620	670	720	780	920	1000	1160	1300	1320	1390
O	1275	1375	1575	1595	1770	1895	2315	2615	2780	2780	3480
P	278	278	313	333	448	488	545	593	688	688	570
R	935	1073	1130	1378	1506	1650	1960	2188	2460	2480	2802

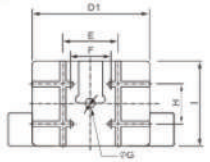
Standard Configuration

> Oil pressure overload protection device
> Manual slider adjustment device (below St60)
> Electric slider adjustment device (above St80)
> Variable frequency variable speed motor (adjustable speed)
> Mechanical mold height indicator (below St60)
> Digital die height indicator (ST80 or above)
> Slider and mold balancing device
> Rotating cam controller
> Crankshaft angle indicator
> Electromagnetic counter
> Air source connector
> Secondary fall protection device
> Air blowing device
> Mechanical shockproof feet
> Misdelivery detection device reserved interface
> Maintenance tools and toolbox
> Main motor reversing device
> Photoelectric safety protection device
> Power socket
> Electric grease lubrication device
> Touch screen (pre cut, pre load)
> Fixed two handed operation platform
> Mold lighting device

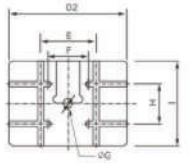
上工作台 Slide Platform

标配B型

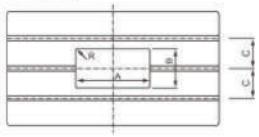
A型



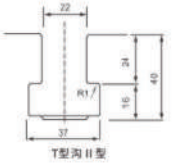
B型



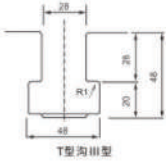
下工作台 Bloster



T型沟 I 型



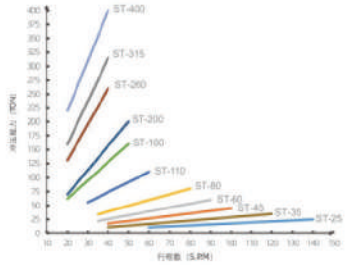
T型沟 II 型

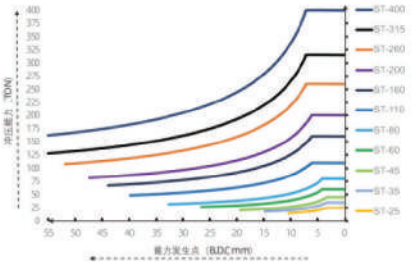


T型沟III型

Model	A	B	C	D1	D2	E	F	G	H	I	T型沟
ST-25	240	120	90	300	470	—	150	Φ38.1	80	230	I
ST-35	280	140	120	360	520	—	160	Φ38.1	100	250	I
ST-45	300	150	120	400	560	—	210	Φ38.1	120	300	I
ST-60	320	160	150	500	700	220	220	Φ50	160	360	II
ST-80	360	180	150	560	770	300	220	Φ50	180	420	II
ST-110	400	200	160	650	910	300	220	Φ50	220	470	II
ST-160	440	220	220	700	990	300	175	Φ65	220	550	II
ST-200	480	240	280	850	1130	420	200	Φ65	300	630	II
ST-260	520	260	290	950	1250	420	200	Φ65	300	700	II
ST-315	520	260	290	950	1300	420	200	Φ65	300	750	II
ST-400	—	—	290	—	1300	500	—	Φ65	350	750	III

能力曲线图 Capacity Graph





Optional Configuration

> Die Cushion
> ST-60 die height electrical adjust device
> Quick Die Change System
> Slide knock out device
> Feeder machine (Pneumatic,Mechanical and NC)
> Mobile two handed operating platform
> Straightening machine
> Transfer Robots
> Decoiler
> Thin oil lubrication device (Above ST-80)
> Foot switch
> Wet clutch

We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

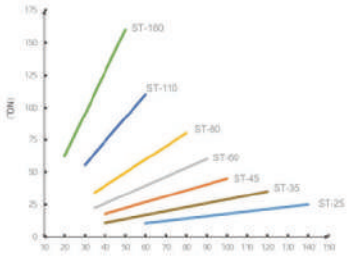
开式单点深喉精密冲床
C-FRAME SINGLE CRANK DEEP-THROAT PRESSES

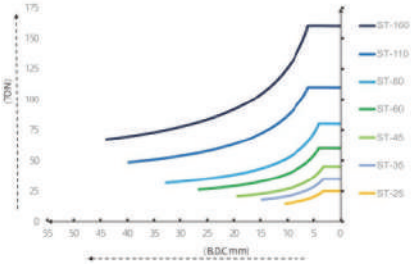
开式单点深喉精密冲床
C-FRAME SINGLE CRANK DEEP-THROAT PRESSES

Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- Adopting OMPI pneumatic dry clutch brake.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process": low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.

Capacity Graph





Technical Parameters

Name		ST-25		ST-35		ST-45		ST-60		ST-80		ST-110		ST-160	
Mode		V	H	V	H	V	H	V	H	V	H	V	H	V	H
Punching capacity	TON	25		35		45		60		80		110		160	
Rating point	mm	3.2	1.6	3.2	1.6	3.2	1.6	4	2	4	2	6	3	6	3
Stroke per minute	SPM	60-140	130-200	40-120	110-180	40-100	110-150	35-90	80-120	35-80	80-120	30-60	60-90	20-50	40-70
Stroke length	mm	60	30	70	40	80	50	120	60	150	70	180	80	200	90
Max Die Height	mm	200	215	220	235	250	265	310*	340*	340	380	360	410	460	515
Slide adjustment	mm	50		55		60		75*		80		80		100	
Slide size	mm	470×230×50		520×250×50		560×340×60		700×400×70		770×420×70		910×470×80		990×550×90	
Bolster size	mm	680×300×70		800×400×70		850×440×80		900×500×80		1000×550×90		1150×600×110		1250×800×140	
Frame gap	mm	155-1250		205-1250		225-1250		255-1250		280-1250		305-1250		405-1250	
Platform to floor distance	mm	795		790		790		785		830		830		900	
Shank hole	mm	Φ38.1		Φ38.1		Φ38.1		Φ50		Φ50		Φ50		Φ65	
Main motor power (vfd)	kW×P	3.7×4		3.7×4		5.5×4		5.5×4		7.5×4		11×4		15×4	
Slide adjust device		Manual operation								Electric operation					
Air pressure	kg/cm²	6													
Press accuracy grade		JIS 1													

Standard Configuration

- > Oil pressure overload protection device
- > Manual slider adjustment device (below St60)
- > Electric slider adjustment device (above St80)
- > Variable frequency variable speed motor (adjustable speed)
- > Mechanical mold height indicator (below St60)
- > Digital die height indicator (ST80 or above)
- > Slider and mold balancing device
- > Rotating cam controller
- > Crankshaft angle indicator
- > Electromagnetic counter
- > Air source connector
- > Secondary fail protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Maintenance tools and toolbox
- > Main motor reversing device
- > Power socket
- > Electric grease lubrication device
- > Touch screen (pre cut, pre load)
- > Mobile two-handed operating platform
- > Mold lighting device

Optional Configuration

- > Die Cushion
- > ST-60 die height electrical adjust device
- > Quick Die Change System
- > Slide knock out device
- > Feeder machine (Pneumatic,Mechanical and NC)
- > Straightening machine
- > Transfer Robots
- > Decoiler
- > Thin oil lubrication device (Above ST-80)
- > Foot switch
- > Fixed two handed operation platform

*We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.
*This parameter is reduced by 10mm if the slider is selected for electric die adjustment.

C-FRAME DOUBLE CRANK PRESSES

Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- Adopting OMPI pneumatic dry clutch brake.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Optional mold pad (air cushion).

Technical Parameters

Name		STC-60		STC-80		STC-110		STC-160		STC-200		STC-250		STC-315	
Mode		V	H	V	H	V	H	V	H	V	H	V	H	V	H
Punching capacity	TON	60		80		110		160		200		250		315	
Rating point	mm	4	2.5	4	2.5	5	3	6	3	6	3	7	3.5	7	3.5
Stroke per minute	SPM	40-90	80-120	40-80	80-120	35-65	50-100	30-55	40-85	25-45	35-70	20-35	30-60	20-35	30-60
Stroke length	mm	120	60	150	90	180	110	200	130	250	150	280	170	280	170
Max Die Height	mm	320	350	350	380	400	435	450	485	500	550	550	605	550	605
Slide adjustment	mm	70		80		100		100		120		120		120	
Slide size	mm	900×400×70		1100×450×70		1400×500×70		1600×550×70		1850×650×95		2100×700×95		2200×700×95	
Bolster size	mm	1200×500×95		1500×550×110		1800×650×130		2000×760×150		2400×840×170		2700×900×170		2800×900×190	
Platform to floor distance	mm	785		830		830		390		1070		1100		1100	
Die cushion capacity	Ton	/		/		3.6×2		6.3×2		10×2		14×2		14×2	
Main motor power(vfd)	kW×P	5.5×4		7.5×4		11×4		15×4		18.5×4		22×4		30×4	
Air pressure	kg/cm²	6						6							
Punch accuracy grade		JIS 1						JIS 1							
Press dimension (L*W*H)	mm	1575×1650×2800		1660×1750×2800		1745×2000×3059		1940×2200×3709		2235×2620×3849		2545×3000×4304		2545×3100×4304	
Press weight	tons	6.6		9.7		14.2		22		30.5		40.5		48	
Die cushion pad(optional)	mm²	/		/		350×235×2		410×260×2		540×350×2组		640×470×2		690×470×2	

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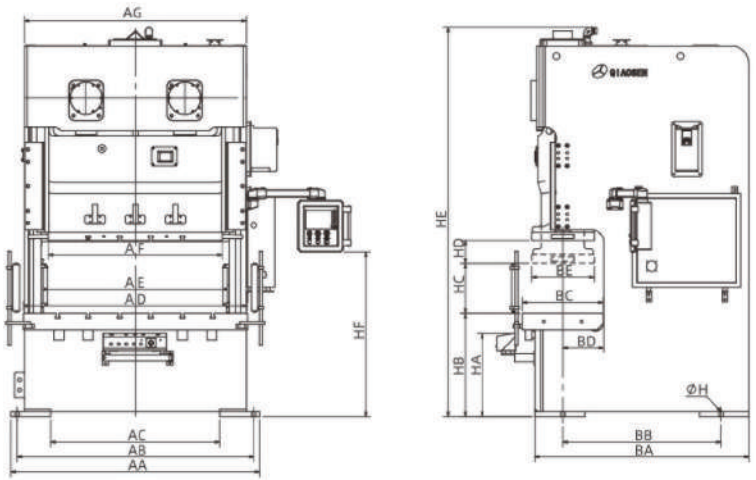
C-FRAME DOUBLE CRANK PRESSES

Overall Dimensions



	STC-60		STC-80		STC-110		STC-160		STC-200		STC-250	
	V	H	V	H	V	H	V	H	V	H	V	H
AA	1390		1660		2000		2200		2620		3000	
AB	1270		1540		1900		2080		2460		2800	
AC	930		1080		1360		1520		1820		2200	
AD	1200		1500		1800		2000		2400		2700	
AE	990		1200		1510		1660		1990		2220	
AF	900		1100		1400		1600		1850		2100	
AG	1190		1440		1780		1980		2320		2590	
BA	1340		1440		1745		1940		2235		2545	
BB	1065		1070		1295		1380		1885		2195	
BC	500		550		650		760		840		900	
BD	255		280		330		385		425		455	
BE	400		450		500		550		650		700	
HA	(630)		(630)		(630)		(730)		(790)		(820)	
HB	730		775		830	860	990	1025	1070	1120	110	1155
HC	320	350	350	380	400	435	450	485	500	550	500	605
HD	120	60	150	90	180	110	200	130	250	150	280	170
HE	2546		2670		3059		3709		3849		4304	
HF	1330		1330		1240		1440		1570		1680	
Φh	Φ28		Φ28		Φ35		Φ35		Φ54		Φ54	

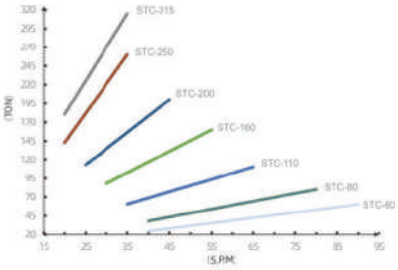
Standard Configuration

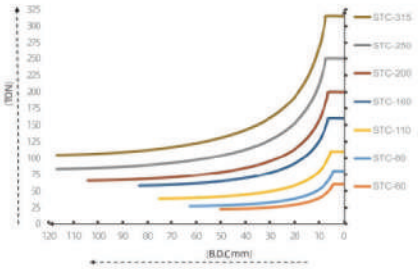
- > QS operating system
- > Electronic crankshaft angle indicator
- > Oil pressure overload protection device
- > Digital die height indicator
- > Imported electric butter lubrication device
- > Electronic cam device
- > Air blowing device 1/2 "
- > Air source connector 1/2 "
- > Missent detection socket
- > Power socket
- > Mechanical shockproof feet
- > Medelivery detection device reserved interface
- > Maintenance tools and toolbox
- > Main motor reversing device
- > Photoelectric safety protection device
- > Imported oil collecting silencer
- > Secondary fall protection device
- > Frequency converter
- > Slider and mold balancing device
- > Fixed two handed operation platform
- > Fixed electrical cabinet
- > Mold lighting device

Optional Configuration

- > Die Cushion
- > Slide knock out device
- > Foot switch
- > Safety stop and safety bolt
- > Quick Die Change System
- > Automatic feeding device
- > Straightening machine (leveling machine)
- > Wet clutch
- > Thin oil lubrication device
- > Mobile console
- > Mobile electrical cabinet

Capacity Graph





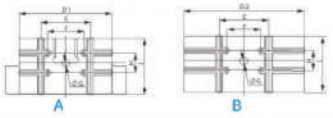
-We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

Performance Features

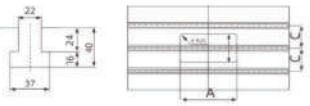
- Adopting high-strength body structure, with small deformation and high accuracy.
- Adopting OMPI pneumatic dry clutch brake.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Optional mold pad (air cushion).

D-FRAME SINGLE CRANK PRESSES

Slide Platform



Bloster



Model	A	B	C	D1	D2	E	F	G	H	I
STB-80	360	180	150	560	770	300	220	Φ50	180	420
STB-110	400	200	160	650	910	300	220	Φ50	220	470
STB-160	440	220	220	700	990	300	175	Φ65	220	550
STB-200	480	240	280	850	1130	420	200	Φ65	300	630
STB-260	520	260	290	950	1200	420	200	Φ65	300	700
STB-315	540	280	300	1000	1200	450	200	Φ65	300	750

Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Digital die height indicator
- > Slider and mold balancing device
- > Counter
- > Air source connector
- > Crankshaft angle indicator
- > Secondary fall protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Frequency converter
- > Electric grease lubrication device
- > Mold lighting device
- > Touch screen control device

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Mobile console
- > Automatic feeding device
- > Foot switch
- > Thin oil lubrication device
- > Wet clutch

Technical Parameters

Name		STB-80		STB-110		STB-160		STB-200		STB-260		STB-315	
Model		V	H	V	H	V	H	V	H	V	H	V	H
Punching capacity	TON	80		110		160		200		260		315	
Stroke length	mm	150	70	180	80	200	90	200	100	250	150	250	150
Stroke per minute	SPM	35-80	80-120	30-60	60-90	20-50	40-70	20-50	50-70	20-40	40-50	20-40	40-50
Rating point	mm	4	2	6	3	6	3	6	3	7	3.5	7	3.5
Max Die Height	mm	340	380	360	410	460	515	460	510	500	550	550	600
Slide adjustment	mm	80		80		100		110		120		120	
Slide size	mm	560×420×70		650×470×80		700×550×90		850×630×90		950×700×100		1000×750×110	
Bolster size	mm	760×550×90		900×600×110		980×800×140		1140×820×160		1300×840×180		1300×900×200	
Main motor power(Kd)	kW×P	7.5×4		11×4		15×4		18.5×4		22×4		30×4	
Slide adjust device		Electrial Driving											
Air pressure	kg/cm²	6											
Side opening	mm	560×440		620×480		810×585		830×600		850×650		850×700	
Platform to floor distance	mm	830		830		900		995		1030		1030	
Press accuracy grade		JIS 1											
Press dimension (L*W*H)	mm	1300×1890×3000		1420×1985×3200		1600×2200×3500		1750×2500×3900		2080×2895×4470		2100×2925×4550	
Press weight(about)	tons	7.8		10.5		17.8		25.3		37		42	
Die cushion capacity (optional)	ton	3.6		6.3		10		14		14		14	
Die cushion stroke (optional)	mm	70		80		80		100		100		100	
Die cushion active area	mm²	450×310		500×350		650×420		710×480		810×480		810×480	

-We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

H-FRAME SINGLE CRANK PRESSES

Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail adopts the "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improves the service life of the mold.
- Adopting a forced thin oil circulation lubrication device, which is energy-saving, environmentally friendly, and equipped with automatic alarm function, the stamping frequency can be increased by adjusting the oil volume.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard touch screen and Siemens motor.

Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Digital die height indicator
- > Slider and mold balancing device
- > Counter
- > Air source connector
- > Rotary cam switch
- > Crankshaft angle indicator
- > Secondary fall protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Imported oil collecting silencer
- > Frequency converter
- > Electric thin oil lubrication device
- > Mold lighting device
- > Touch screen control device
- > High performance dry clutch
- > Mobile two handed operating platform

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Mobile console
- > Automatic feeding device
- > Foot switch
- > Electric grease lubrication device

Technical Parameters

Name		STV-60		STV-80		STV-110		STV-160		STV-200	
Mode		V	H	V	H	V	H	V	H	V	H
Punching capacity	kN	500		800		1100		1600		2000	
Rating point	mm	4	2	4	2	6	3	6	3	6	3
Stroke per minute	SPM	35-90	80-120	35-80	90-120	30-60	60-90	20-50	40-70	20-50	50-70
Stroke length	mm	120	60	150	70	180	80	200	90	200	100
Max Die Height	mm	310	340	340	380	360	410	460	510	460	510
Slide adjustment	mm	80		80		80		100		110	
Slide size	mm	800X400X70		850X420X70		900X450X80		1000X500X90		1100X600X100	
Bolster size	mm	1000X400X100		1050X420X115		1100X450X135		1300X500X150		1400X600X170	
Column spacing	mm	1200		1250		1300		1500		1600	
Platform to floor distance	mm	825		890		970		1150		1200	
Main motor power(vfd)	kW×P	7.5X4		11X4		15X4		18.5X4		22X4	
Slide adjust device		电动									
Air pressure	kg/cm²	6									
Press accuracy grade		JIS 1									

·We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

H-FRAME STRAIGHT SIDE SINGLE CRANK PRESSES (UNITIZED FRAME)

Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail acopts the "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improves the service life of the mold.
- Adopting a forced thin oil circulation lubrication device, which is energy-saving, environmentally friendly, and equipped with automatic alarm function, it has better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard touch screen and Siemens motor.

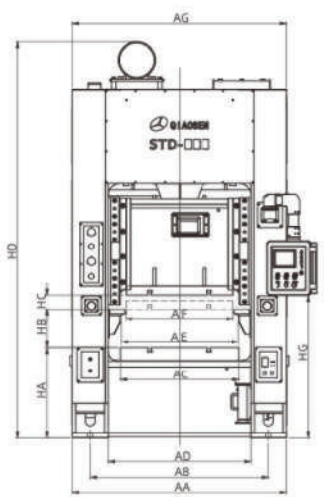
Technical Parameters

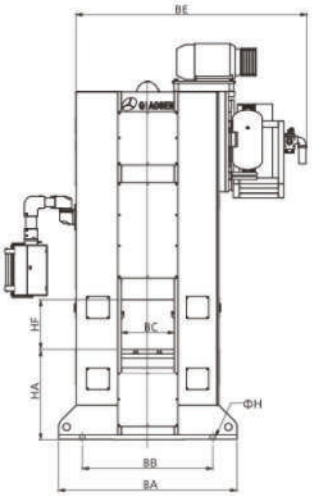
Name		STD-110		STD-160		STD-200		STD-250		STD-300		STD-400		STD-500		STD-600	
Mode		S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H
Punching capacity	TON	110		160		200		250		300		400		500		600	
Rating point	mm	6	3	6	3	6	3	7	3.5	7	3.5	8	4	10	5	10	5
Stroke length	mm	180	80	200	90	200	100	250	150	300	150	300	150	300	150	300	150
Stroke per minute	SPM	30-60	60-90	30-55	40-70	25-50	40-80	20-45	30-60	20-40	30-60	20-40	30-60	20-40	30-60	20-40	30-60
Max Die Height	mm	350	300	450	400	450	400	450	400	550	450	550	450	600	500	650	550
Slide adjustment	mm	80		100		120		120		120		120		150		150	
Slide area(LR×FR)	mm	650 x 500		700 x 600		750 x 700		800 x 800		900 x 800		1000 x 800		1200 x 900		1200 x 900	
Bolster area(LR×FR)	mm	800 x 600		850 x 700		900 x 800		1000 x 900		1100 x 1000		1200 x 1000		1400 x 1000		1400 x 1000	
Side openinge	mm	500 x 400		600 x 500		700 x 500		800 x 500		800 x 600		800 x 600		900 x 650		900 x 700	
Main motor	KW x P	11 x 4		15 x 4		18.5 x 4		22 x 4		30 x 4		37 x 4		45 x 4		55 x 4	
Air pressure	kg/cm²	6															
Punch accuracy grade		JIS 1															

We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

H-FRAME STRAIGHT SIDE SINGLE CRANK PRESSES (UNITIZED FRAME)

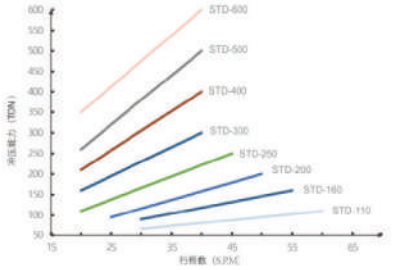
Overall Dimensions

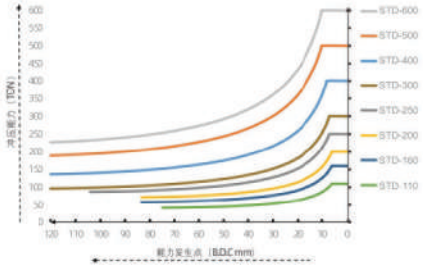




	STD-110		STD-160		STD-200		STD-250		STD-300		STD-400		STD-500		STD-600	
	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H
AA	1600		1750		1900		2060		2200		2360		2660		2960	
AB	1300		1400		1500		1630		1750		1880		2130		2330	
AC	800		850		900		1000		1100		1200		1400		1400	
AD	1000		1050		1100		1200		1300		1400		1600		1700	
AE	710		760		810		910		1010		1100		1280		1380	
AF	650		700		750		800		900		1000		1200		1200	
AG	1600		1750		1900		2060		2200		2360		2660		2960	
BA	1200		1350		1450		1550		1900		2000		2200		2200	
BB	1100		1250		1300		1510		1560		1660		1820		1820	
BC	500		600		700		800		800		800		900		900	
BE	1950		2100		2200		2300		2650		2930		3380		3530	
HA	763		900		950		1000		1050		1130		1150		1200	
HB	350	300	450	400	450	400	450	400	550	450	550	450	600	500	650	550
HC	180	80	200	90	200	100	250	150	300	150	300	150	300	150	300	150
HD	3440	3390	3680	3630	3930	3880	4250	4200	4520	4420	4850	4750	5340	5240	5690	5590
HF	400		500		500		500		600		600		650		700	
HG	1350		1487		1537		1587		1637		1730		1770		1820	
ΦH	38		38		40		42		42		52		52		60	

Capacity Graph





Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Digital die height indicator
- > Slider and mold balancing device
- > Counter
- > Air source connector
- > Rotary cam switch
- > Crankshaft angle indicator
- > Secondary fall protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Frequency converter
- > Electric thin oil lubrication device
- > Mold lighting device
- > Touch screen control device (cantilever type)
- > Slide block with four corners and eight faces
- > Wet clutch
- > Mobile electrical cabinet
- > Mobile console

Optional Configuration

- > Die Cushion
- > Slide knock out device
- > Foot switch
- > Safety stop and safety bolt
- > Quick Die Change System
- > Automatic feeding device(Feeding machine, material rack, straightening machine)
- > Foot switch
- > Electric grease lubrication device
- > High performance dry clutch

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H-FRAME STRAIGHT SIDE DOUBLE CRANK PRESSES (UNITIZED FRAME)

Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail adopts the "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improves the service life of the mold.
- Adopting a forced thin oil circulation lubrication device: energy-saving, environmentally friendly, equipped with automatic alarm function, with better popularity and
- heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard touch screen and Siemens motor.
- Optional mold pad (air cushion).

Technical Parameters

Name		STE-80		STE-110		STE-160		STE-200		STE-250		STE-300		STE-400		STE-500		STE-600		STE-800	
Mode		S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H
Punching capacity	TON	80		110		160		200		250		300		400		500		600		800	
Rating point	mm	4	2	6	3	6	3	6	3	7	3	7	3	7	3	8	5	10	5	12	6
Stroke length	mm	150	100	180	120	180	130	250	150	280	180	300	180	300	180	300	180	300	180	300	180
Stroke per minute	SPM	45-90	80-120	40-70	60-90	30-55	40-85	20-50	35-70	20-40	30-60	20-40	30-60	20-40	30-60	20-40	25-50	20-30	25-45	15-30	20-35
Max Die Height	mm	380	330	420	370	450	400	500	450	550	450	550	450	550	450	600	500	600	500	800	700
Slide adjustment	mm	80		80		100		120		120		120		120		150		150		200	
Slide size	mm	1200×520		1400×580		1600×650		1850×750		2100×900		2200×900		2400×900		2500×1000		2900×1200		3400×1400	
Bolster size	mm	1400×620		1600×700		1800×760		2200×940		2400×1000		2500×1000		2700×1000		2800×1100		3200×1200		3600×1400	
Platform to floor distance	mm	950		980		1000		1100		1200		1350		1450		1550		1700		1954	
Side opening	mm	500×380		600×420		700×450		700×600		700×600		900×650		900×650		1000×700		1100×700		1200×700	
Main motor power(vfd)	kW×P	7.5×4		11×4		15×4		18.5×4		22×4		30×4		37×4		45×4		55×4		75×4	
Slide adjust device	kW×P	0.75×4		1×4		1×4		2×4		2×4		2×4		3×4		3×4		3.7×4		11×4	
Air pressure	kg/cm²	6								6											
Punch accuracy grade		JIS 1								JIS 1											

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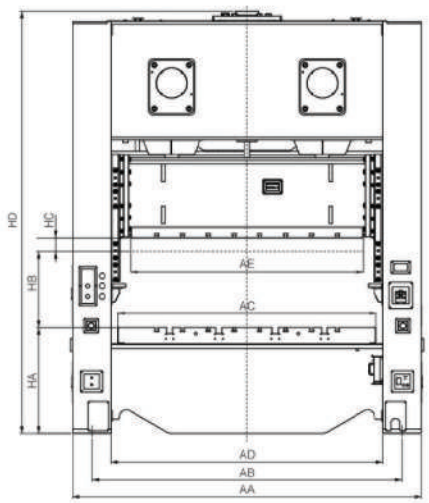
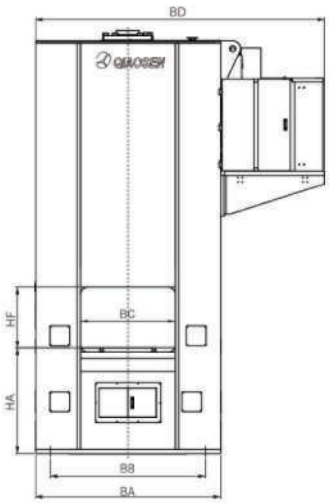
H-FRAME STRAIGHT SIDE DOUBLE CRANK PRESSES (UNITIZED FRAME)

外型尺寸 Overall Dimensions

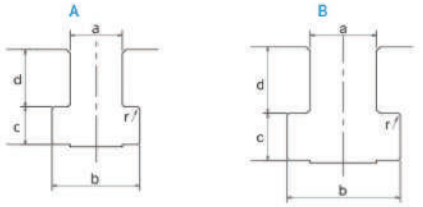




Specification	STE-80		STE-110		STE-160		STE-200		STE-250		STE-300		STE-400		STE-500		STE-600		STE-800	
Model	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H	S	H
AA	2100		2350		2590		3000		3600		3600		3400		3800		4200		5480	
AB	1800		2025		2240		2700		3250		3250		3050		3400		3750		4870	
AC	1400		1600		1800		2200		2400		2400		2500		2800		3000		4000	
AD	1500		1700		1880		2290		2700		2700		2600		2950		3150		4310	
AE	1200		1400		1600		1850		2100		2100		2200		2500		2800		3800	
BA	1300		1350		1400		1750		1800		1800		2100		2300		2550		2800	
BB	1000		1100		1200		1550		1450		1450		1940		2050		2200		2200	
BC	600		700		700		900		900		900		900		1000		1100		1200	
BD	2050		2100		2150		2500		2950		2950		3129		3750		3900		4170	
HA	800		800		800		900		1000		1000		1200		1200		1200		1810	
HB	380	330	420	370	450	400	500	450	550	450	550	450	550	450	600	500	600	500	800	700
HC	150	100	180	120	180	130	250	150	280	180	300	180	300	180	300	180	300	180	300	180
HD	3200	3125	3440	3360	3500	3400	3950	3800	4450	4240	4750	4520	5495	5265	6290	6040	6650	6410	7260	7111
HF	380		420		450		600		600		650		650		700		700		700	

Model	STE-80	STE-110	STE-160	STE-200	STE-250	STE-300	STE-400	STE-500	STE-600	STE-800
Slider area(right and left ×front and back)	1200×520	1400×580	1600×650	1850×750	2100×900	2100×900	2200×900	2500×1000	2800×1200	3400×1400
T T-slot mode	A	A	A	B	B	B	B	B	B	B
T Tgroove spacing	125	125	150	150	200	200	300	300	300	300

T Model	A	B
a	22	28
b	37	48
c	16	20
d	24	28
r	1	1



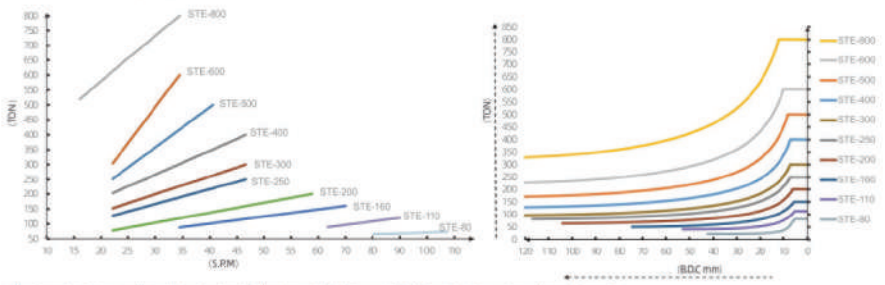
Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Electric mold height indicator
- > Slider and mold balancing device
- > Rotary cam switch
- > Crankshaft angle indicator
- > Counter
- > Air source connector
- > Secondary fall protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Frequency converter
- > Touch screen control device
- > Electric thin oil lubrication device
- > Mold lighting device
- > Slide block with four corners and eight faces
- > High performance dry clutch

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Wet clutch
- > Safety protection door
- > Braking resistor
- > Automatic feeding device (Feeding machine, material rack, straightening machine)
- > Foot switch

Capacity Graph



-We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

Performance Features

- The body structure is composed of three parts (top seat, middle platform body, and base), and finally connected with a reinforcing rod to form a solid lock.
- The body and slider have high rigidity (deformation) of 1/9000: small deformation and long accuracy retention time.
- Punches below 600 tons use pneumatic wet clutch brakes (integrated), while punch presses above 800 tons use dry clutch brakes (split).
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail adopts the "high-frequency quenching" and "rail grinding process": low wear, high precision, long accuracy retention time, and improved mold service life.
- Adopting a forced thin oil circulation lubrication device: energy-saving, environmentally friendly, equipped with automatic alarm function, with better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard configuration: German Siemens touch screen and Siemens motor. Optional mold pad (air cushion) and optional mobile trolley.

H-FRAME STRAIGHT SIDE DOUBLE CRANK PRESSES (TRISECTION TIE ROD FRAME)

Standard Configuration

- > Oil pressure overload device
- > Variable frequency variable speed motor (Adjustable speed)
- > Digital die height indicator
- > Slider and mold balancing device
- > Electronic cam switching device
- > Pre cutting counter
- > Air source connector
- > Secondary fall protection device
- > Air blowing device
- > Independent control box
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Imported oil collecting silencer
- > Imported electric thin oil lubrication device
- > Power socket
- > Touch (pre cut, pre cut, total count)
- > Mold lighting device
- > Slide block with four corners and eight faces

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Feeder (Air, mechanical, and NC types)
- > Safety protection door
- > Braking resistor
- > Material rack
- > Leveling machine
- > Robot arm
- > Mobile trolley (quantity, direction)

Technical Parameters

Name		STF-300		STF-400		STF-500		STF-600		STF-800		STF-1000		STF-1200	
Model		S	H	S	H	S	H	S	H	S	H	S	H	S	H
Punching capacity	TON	300		400		500		600		800		1000		1200	
Rating point	mm	8	4	8	4	9	5	10	5	12	6	13	7	13	7
Stroke length	mm	300	150	300	150	300	150	300	150	350	150	400	200	400	200
Stroke per minute	SPM	20-40	30-60	20-40	30-60	20-40	30-60	20-40	30-60	15-30	25-50	10-25	20-40	10-25	20-40
Max Die Height	mm	600	500	650	550	650	550	700	600	800	650	900	700	1000	800
Slide adjustment	mm	150		150		150		200		200		250		250	
Platform size (optional)	1	2500 x 1200		2800 x 1300		3200 x 1500		3200 x 1500		3200 x 1500		3500 x 1600		3500 x 1600	
	2	2800 x 1300		3200 x 1400		3500 x 1500		3500 x 1500		3500 x 1600		4000 x 1600		4000 x 1600	
	3	3200 x 1400		3600 x 1400		3800 x 1600		4000 x 1600		4000 x 1600		4500 x 1600		4500 x 1600	
Trolley Height (optional for mobile trolley)	mm	600		600		650		650		650		750		750	
Side opening (L Rx H)	mm	900 x 650		1100 x 700		1200 x 700		1200 x 750		1400 x 850		1600 x950		1600 x 1050	
Main motor	KW x P	37 x 4		45 x 4		55 x 4		75 x 4		90 x 4		110 x 4		132 x 4	
Air pressure	kg/cm²	6													
Press accuracy grade		JIS 1													

·We will research and improve all the machines at any time. If all the sizes and design features specified by the catalog change, there will be no further notice.

H-FRAME STRAIGHT SIDE ECCENTRIC GEAR PRESSES (TRISECTION TIE ROD FRAME)

Performance Features

- The body structure is composed of three parts (top seat, middle platform body, and base), and finally connected with a reinforcing rod to form a solid lock.
- The body and slider have high rigidity (deformation) of 1/9000: small deformation and long accuracy retention time.
- Punches below 600 tons use pneumatic wet clutch brakes (integrated), while punch presses above 800 tons use dry clutch brakes (split).
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail adopts the "high-frequency quenching" and "rail grinding process": low wear, high precision, long accuracy retention time, and improved mold service life.
- Adopting a forced thin oil circulation lubrication device: energy-saving, environmentally friendly, equipped with automatic alarm function, with better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard configuration: German Siemens touch screen and Siemens motor. Optional mold pad (air cushion) and optional mobile trolley.

Standard Configuration

- > Oil pressure overload device
- > Variable frequency variable speed motor (Adjustable speed)
- > Digital die height indicator
- > Slider and mold balancing device
- > Electronic cam switching device
- > Pre-cutting counter
- > Air source connector
- > Secondary fall protection device
- > Air blowing device
- > Independent control box
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Imported electric thin oil lubrication device
- > Power socket
- > Touch (pre cut, pre cut, total count)
- > Mold lighting device

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Feeder (Air, mechanical, and NC types)
- > Safety protection door
- > Material rack
- > Leveling machine
- > Robot arm
- > Mobile trolley (quantity, direction)

Technical Parameters

Name		STN-300	STN-400	STN-500	STN-600	STN-800	STN-1000	STN-1200	STN-1600
Model		S	S	S	S	S	S	S	S
Punching capacity	TON	300	400	500	600	800	1000	1200	1600
Rating point	mm	10	10	12	12	13	13	13	13
Stroke length	mm	400	400	500	500	600	600	800	800
Stroke per minute	SPM	15-30	15-30	10-25	10-25	10-20	10-20	10-18	10-18
Max Die Height	mm	800	900	1000	1000	1100	1100	1200	1200
Slide adjustment	mm	300	300	400	400	400	400	500	500
Platform size (optional)	1	2500 x 1200	2800 x 1300	3200 x 1500	3200 x 1500	3200 x 1500	3500 x 1600	3500 x 1600	3500 x 1600
	2	2800 x 1300	3200 x 1400	3500 x 1500	3500 x 1500	3500 x 1600	4000 x 1600	4000 x 1600	4000 x 1600
	3	3200 x 1400	3600 x 1400	3800 x 1600	4000 x 1600	4000 x 1600	4500 x 1600	4500 x 1600	4500 x 1600
Trolley Height (optional for mobile trolley)	mm	600	600	650	650	650	750	750	750
Side opening (L Rx H)	mm	900×650	1100×700	1200×700	1200×750	1400×850	1600×950	1600×1050	1600×1050
Main motor	KW x P	45 x 4	55 x 4	75 x 4	90 x 4	110 x 4	132 x 4	160 x 4	185 x 4
Air pressure	kg/cm²	6							
Press accuracy grade		JIS 1							

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H-FRAME STRAIGHT SIDE ECCENTRIC GEAR PRESSES (TRISECTION TIE ROD FRAME)

Performance Features

- The body structure is composed of three parts (top seat, middle platform body, and base), and finally connected with a reinforcing rod to form a solid lock.
- The body and slider have high rigidity (deformation) of 1/9000: small deformation and long accuracy retention time.
- Punches below 600 tons use pneumatic wet clutch brakes (integrated), while punch presses above 800 tons use dry clutch brakes (split).
- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads, ensuring long-term and stable maintenance of stamping accuracy.
- The slide rail adopts the "high-frequency quenching" and "rail grinding process": low wear, high precision, long accuracy retention time, and improved mold service life.
- Adopting a forced thin oil circulation lubrication device: energy-saving, environmentally friendly, equipped with automatic alarm function, with better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard configuration: German Siemens touch screen and Siemens motor. Optional mold pad (air cushion) and optional mobile trolley.

Standard Configuration

- > Oil pressure overload device
- > Variable frequency variable speed motor (Adjustable speed)
- > Digital die height indicator
- > Slider and mold balancing device
- > Electronic cam switching device
- > Pre-cutting counter
- > Air source connector
- > Secondary fall protection device
- > Air blowing device
- > Independent control box
- > Misdelivery detection device reserved interface
- > Main motor reversing device
- > Photoelectric safety protection device
- > Imported electric thin oil lubrication device
- > Power socket
- > Touch (pre cut, pre cut, total count)
- > Mold lighting device

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Feeder (Air, mechanical, and NC types)
- > Safety protection door
- > Material rack
- > Leveling machine
- > Robot arm
- > Mobile trolley (quantity, direction)

Technical Parameters

Name		STN-300	STN-400	STN-500	STN-600	STN-800	STN-1000	STN-1200	STN-1600
Model		S	S	S	S	S	S	S	S
Punching capacity	TON	300	400	500	600	800	1000	1200	1600
Rating point	mm	10	10	12	12	13	13	13	13
Stroke length	mm	400	400	500	500	600	600	800	800
Stroke per minute	SPM	15-30	15-30	10-25	10-25	10-20	10-20	10-18	10-18
Max Die Height	mm	800	900	1000	1000	1100	1100	1200	1200
Slide adjustment	mm	300	300	400	400	400	400	500	500
Platform size (optional)	1	2500 x 1200	2800 x 1300	3200 x 1500	3200 x 1500	3200 x 1500	3500 x 1600	3500 x 1600	3500 x 1600
	2	2800 x 1300	3200 x 1400	3500 x 1500	3500 x 1500	3500 x 1600	4000 x 1600	4000 x 1600	4000 x 1600
	3	3200 x 1400	3600 x 1400	3800 x 1600	4000 x 1600	4000 x 1600	4500 x 1600	4500 x 1600	4500 x 1600
Trolley Height (optional for mobile trolley)	mm	600	600	650	650	650	750	750	750
Side opening (L Rx H)	mm	900×650	1100×700	1200×700	1200×750	1400×850	1600×950	1600×1050	1600×1050
Main motor	KW x P	45 x 4	55 x 4	75 x 4	90 x 4	110 x 4	132 x 4	160 x 4	185 x 4
Air pressure	kg/cm²	6							
Press accuracy grade		JIS 1							

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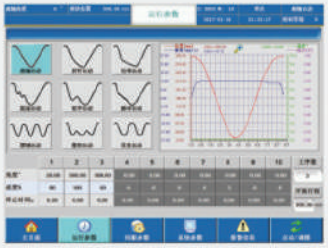
C-FRAME SINGLE CRANK SERVO PRESSES



Features 1

- Adopting high-strength body structure, with small deformation and high accuracy.
- The slider adopts a hexagonal guide path, and the slider rail adopts a "high-frequency quenching" and "rail grinding process"
- Low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Standard imported bearings and Japanese NOK seals.
- Standard imported 15.6-inch touch screen.
- Optional mold pad (air cushion).

Features 2

- Built in 9 processing modes,each product can choose the most suitable processing curve for component processing,achieving high precision,high efficiency,and high energy conservation.
- Compared with traditional punching machines,it has the characteristics of simple structure,high mechanical transmission efficiency,and low maintenance cost.
- According to the characteristics of the product/material,the forming speed of the punch can be reduced during material processing to achieve the optimal forming speed of the product/material.Thereby reducing vibration and reducing stamping noise;Improve the accuracy of the product and extend the service life of the mold.
- According to different products and different heights,the stroke of the punching machine can be set arbitrarily,greaty shortening the stamping time and improving efficiency.

Standard Configuration

> Oil pressure overload device
> Servo motor (adjustable speed)
> Digital die height indicator
> Slider and mold balancing device
> Electronic cam switching device
> Pre cutting counter
> Air source connector
> Secondary fall protection device
> Air blowing device
> Independent control box
> Misdelivery detection device reserved interface
> Photoelectric safety protection device
> Imported electric butter lubrication device
> Power socket
> Touch (pre cut, pre cut, total count)
> Mold lighting device
> Air-cooled chiller

Optional Configuration

> Die Cushion
> Quick Die Change System
> Slide knock out device
> Feeding machines (air, mechanical, and NC types)
> Material rack
> Leveling machine
> Robot arm
> Thin oil lubrication device

Technical Parameters

Name		STA-45sv	STA-60sv	STA-80sv	STA-110sv	STA-160sv	STA-200sv	STA-260sv	STA-315sv
Punching Capacity	TON	45	60	80	110	160	200	260	315
Rating Point	mm	2.8	3.5	4	4	5	5	6	6
Stroke Length	mm	80	120	150	180	200	200	250	250
Swing	SPM	~140	~130	~120	~100	~95	~95	~70	~65
Full Stroke	SPM	~100	~80	~70	~60	~50	~50	~40	~40
Max Die Height	mm	250	310	340	360	460	460	500	520
Slider Adjustment	mm	60	70	80	80	100	110	120	120
Slide Size	mm	560*340*60	700*400*70	770*420*70	910*470*80	990*550*90	1130*630*90	1250*700*100	1300*750*100
Bolster Size	mm	850*440*80	900*500*80	1000*550*90	1150*600*110	1250*800*140	1400*820*160	1500*840*180	1600*840*180
Frame Gap	mm	225	255	280	305	405	415	430	430
Servomotor Torque	Nm	2000	2850	3700	4500	7500	10000	15000	20000
Air Pressure	kg/cm²	6							
Punch Precision Grade		JIS 1							

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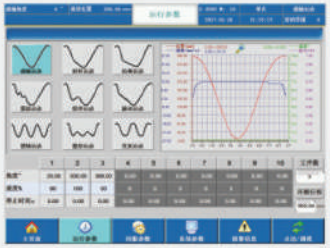

Features 1

- Adopting high-strength body structure,with small deformation and high accuracy.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process",which has low wear,high accuracy,long accuracy retention time,and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo,which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1,which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Equipped with bearings and Japanese NOK seals as standard.
- Standard imported 15.6-inch touch screen. Optional mold pad (air cushion).

C-FRAME DOUBLE CRANK SERVO PRESSES

Features 2

- Built in 9 processing modes,each product can choose the most suitable processing curve for component processing,achieving high precision,high efficiency,and high energy conservation.
- Compared with traditional punching machines,it has the characteristics of simple structure,high mechanical transmission efficiency,and low maintenance cost.
- According to the characteristics of the product/material,the forming speed of the punch can be reduced during material processing to achieve the optimal forming speed of the product/material.Thereby reducing vibration and reducing stamping noise;Improve the accuracy of the product and extend the service life of the mold.
- According to different products and different heights,the stroke of the punching machine can be set arbitrarily,greatly shortening the stamping time and improving efficiency.

Standard Configuration

- > Oil pressure overload device
- > Servo motor (adjustable speed)
- > Digital die height indicator
- > Slider and mold balancing device
- > Electronic cam switching device
- > Pre cutting counter
- > Air source connector
- > Secondary fall protection device
- > Air blowing device
- > Independent control box
- > Misdelivery detection device reserved interface
- > Photoelectric safety protection device
- > Imported electric butter lubrication device
- > Power socket
- > Touch (pre cut, pre cut, total count)
- > Mold lighting device
- > Air-cooled chiller

Optional Configuration

- > Die Cushion
- > Quick Die Change System
- > Slide knock out device
- > Feeding machines (air, mechanical, and NC types)
- > Material rack
- > Leveling machine
- > Robot arm
- > Thin oil lubrication device

Technical Parameters

Name		STC-110sv	STC-160sv	STC-200sv	STC-250sv	STC-315sv
Punching capacity	TON	110	160	200	250	315
Rating point	mm	4	5	5	5.5	6
Stroke length	mm	180	200	250	280	280
Swing	SPM	~100	~100	~95	~70	~65
Full stroke	SPM	~50	~50	~50	~40	~40
Max Die Height	mm	400	450	500	550	550
Slider adjustment	mm	100	100	120	120	120
Slide size	mm	1400*500	1600*550	1850*650	2100*700	2200*700
Bolster size	mm	1800*650	2000*760	2400*850	2700*900	2800*900
Servomotor Torque	Nm	5000	9000	12500	16000	20500
Air Pressure	kg/cm²	6				
Punch precision grade		JIS 1				

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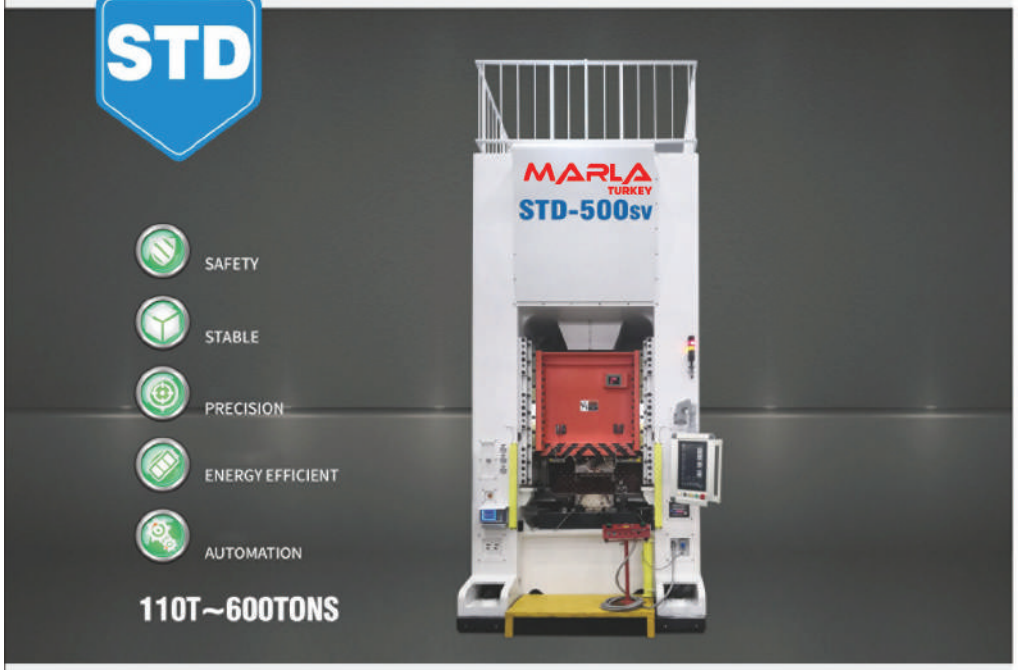

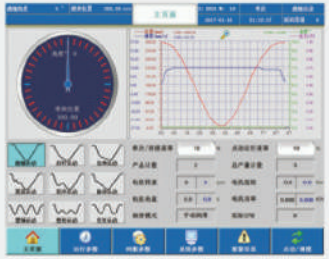

Features 1

- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads to ensure long-term and stable maintenance of stamping accuracy.
- The slider guide adopts the "high-frequency quenching" and "guide rail grinding process", which has low wear and high accuracy, and maintains accuracy while increase the service life of the mold by increasing the interval length.
- Adopting a forced thin oil circulation lubrication device, which is energy-saving, environmentally friendly, and equipped with automatic alarm function, it has better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard equipped with Japanese NSK bearings and Japanese NOK seals. Standard imported 15.6-inch touch screen.

-本公司随时进行研究改善的工作，因此本型录内所规定尺寸及设计特性，得以变更，不另行通知。

Features 2

- Built in 9 processing modes,each product can choose the most suitable processing curve for component processing,achieving high precision,high efficiency,and high energy conservation.
- Compared with traditional punching machines,it has the characteristics of simple structure,high mechanical transmission efficiency,and low maintenance cost.
- According to the characteristics of the product/material,the forming speed of the punch can be reduced during material processing to achieve the optimal forming speed of the product/material.Thereby reducing vibration and reducing stamping noise;Improve the accuracy of the product and extend the service life of the mold.
- According to different products and different heights,the stroke of the punching machine can be set arbitrarily,greatly shortening the stamping time and improving efficiency.

Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Digital die height indicator
- > Slider and mold balancing device
- > counter
- > Air source connector
- > Rotary cam switch
- > Crankshaft angle indicator
- > Secondary fall projection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Servo motor
- > Photoelectric safety protection device
- > Motion controller
- > Slider and mold balancing device
- > Thin oil lubrication device
- > Mold lighting device
- > Touch screen control device
- > Slide block with four corners and eight faces

Optional Configuration

- > Mold pad device
- > Quick mold changing device (mold lifter, clamp, or shifter)
- > Upper feeding device of the slider
- > Safety protection door
- > 4-channel tonnage sensor
- > Automatic feeding device (Feeding machine, material rack, straightening machine)
- > Foot switch
- > Electric grease lubrication device

Technical Parameters

Name		STD-110sv	STD-160sv	STD-200sv	STD-250sv	STD-300sv	STD-400sv	STD-500sv	STD-600sv
Punching Capacity	TON	110	160	200	250	300	400	500	600
Rating Point	mm	5	5	5	6	6	6	7	8
Stroke Length	mm	200	200	200	250	300	300	300	300
Swing	SPM	~100	~100	~100	~75	~70	~70	~70	~70
Full Stroke	SPM	~60	~60	~60	~50	~40	~40	~40	~40
Max Die Height	mm	450	450	450	500	550	600	650	650
Slider Adjustment	mm	100	100	120	120	120	120	150	150
Slide Size	mm	750*700	750*700	750*700	800*800	900*900	1000*900	1200*1000	1200*1000
Bolster Size	mm	750*800	850*800	900*800	1000*900	1100*1000	1200*1000	1400*1000	1400*1000
Side Opening	mm	700*500	700*500	700*500	800*500	900*600	900*600	900*650	900*700
Servomotor Torque	Nm	4500	7500	12000	15000	21000	28000	37000	46000
Air Pressure	kg/cm²	6							
Punch Precision Grade		JIS 1							

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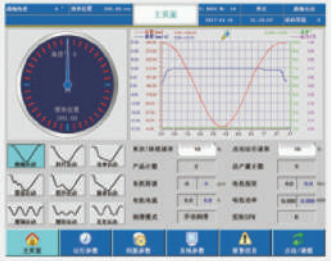

Features 1

- The slider adopts a four corner and eight sided guide path, which can bear large eccentric loads to ensure long-term and stable maintenance of stamping accuracy.
- The slider guide adopts the "high-frequency quenching" and "guide rail grinding process",which has low wear and high accuracy,and maintains accuracy while Increase the service life of the mold by increasing the interval length.
- Adopting a forced thin oil circulation lubrication device, which is energy-saving,environmentally friendly,and equipped with automatic alarm function,it has better popularity and heat dissipation, and better lubrication effect.
- The crankshaft is made of high-strength alloy material 42CrMo,which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1,which has a strength 1.5 times higher than ordinary BC6 brass. It adopts a highly sensitive hydraulic overload protection device, which can effectively protect the service life of the punching machine and mold.
- Standard equipped with Japanese NSK bearings and Japanese NOK seals.
- Standard imported 15.6-inch touch screen.

H-FRAME DOUBLE CRANK SERVO PRESSES

Features 2

- Built in 9 processing modes,each product can choose the most suitable processing curve for component processing,achieving high precision,high efficiency,and high energy conservation.
- Compared with traditional punching machines,it has the characteristics of simple structure,high mechanical transmission efficiency,and low maintenance cost.
- According to the characteristics of the product/material,the forming speed of the punch can be reduced during material processing to achieve the optimal forming speed of the product/material.Thereby reducing vibration and reducing stamping noise;Improve the accuracy of the product and extend the service life of the mold.
- According to different products and different heights,the stroke of the punching machine can be set arbitrarily,greatly shortening the stamping time and improving efficiency.

Standard Configuration

- > Oil pressure overload protection device
- > Electric slider adjustment device
- > Digital die height indicator
- > Slider and mold balancing device
- > counter
- > Air source connector
- > Rotary cam switch
- > Crankshaft angle indicator
- > Secondary fall protection device
- > Air blowing device
- > Mechanical shockproof feet
- > Misdelivery detection device reserved interface
- > Servo motor
- > Photoelectric safety protection device
- > Motion controller
- > Slider and mold balancing device
- > Thin oil lubrication device
- > Mold lighting device
- > Touch screen control device
- > Slide block with four corners and eight faces

Optional Configuration

- > Mold pad device
- > Quick mold changing device (mold lifter, clamp, or shifter)
- > Upper feeding devise of the slider
- > Safety protection door
- > 4-channel tonnage sensor
- > Automatic feeding device (Feeding machine, material rack, straightening machine)
- > Foot switch
- > Electric grease lubrication device

Technical Parameters

Name		STE-160sv	STE-200sv	STE-250sv	STE-300sv	STE-400sv	STE-500sv	STE-600sv	STE-800sv
Punching Capacity	TON	160	200	250	300	400	500	600	800
Rating Point	mm	5	5	5.5	5.5	6	7	8	9
Stroke Length	mm	200	200	250	300	300	300	300	350
Swing	SPM	~100	~100	~70	~70	~60	~60	~60	~50
Full Stroke	SPM	~55	~45	~40	~40	~30	~30	~30	~25
Max Die Height	mm	450	500	550	550	550	600	600	800
Slider Adjustment	mm	100	120	120	120	120	150	150	200
Slide Size	mm	1400*580	1850*750	2100*900	2200*900	2400*900	2500*1000	2900*1200	3400*1400
Bolster Size	mm	1600*700	2200*940	2400*1000	2500*1000	2700*1000	2800*1100	3200*1200	3600*1400
Side Opening	mm	700*450	700*600	700*600	900*650	900*650	1000*700	1100*700	1200*700
Servo Motor Torque	Nm	10000	11000	16000	22000	28000	37000	47000	65000
Air Pressure	kg/cm²	6							
Punch Precision Grade		JIS 1							

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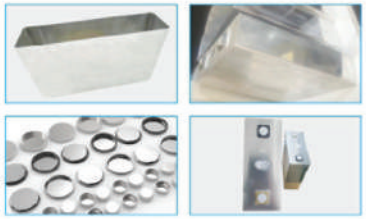
Performance Features

- Adopting high-strength body structure, with small deformation and high accuracy.
- Adopting OMPI pneumatic dry clutch brake.
- The slider adopts a hexagonal guide path with two corners, and the slider guide adopts a "high-frequency quenching" and "rail grinding process", which has low wear, high accuracy, long accuracy retention time, and improved mold service life.
- The crankshaft is made of high-strength alloy material 42CrMo, which is 1.3 times stronger than 45 steel and has a longer service life.
- The copper sleeve adopts tin phosphorus bronze ZQSn10-1, which has a strength 1.5 times higher than ordinary BC6 brass.
- Adopting a highly sensitive hydraulic overload protection device can effectively protect the service life of the punching machine and mold.
- Optional mold pad (air cushion).

PRECISION PUNCHING MACHINE FOR BATTERY SHELL

200T~600TONS



400T~1200TONS

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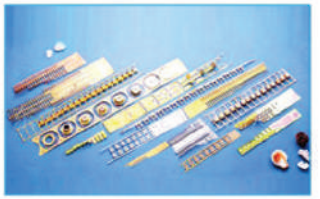
C-FRAME HIGH SPEED PRESSES



Performance Features

- The bed is made of high-strength cast iron, which is internally stress relieved to ensure stable material, constant accuracy, and is most suitable for continuous stamping production.
- Double guide village, one center column structure, using copper sleeves added with special alloys to replace the traditional sliding plate structure, minimizing dynamic friction, and combined with forced lubrication to minimize thermal deformation with precision Reaching the highest.
- Optional reverse side dynamic balancing device to reduce vibration, ensuring the best accuracy and stability of the punch.
- The mold adjustment is combined with a mold height display and an oil pressure locking device to facilitate mold adjustment operations.
- The human-machine interface is controlled by a microcomputer, and the screen display and operation of numerical and fault monitoring systems are convenient.

Technical Parameters

Name		STS-16T		STS-25T		STS-45T		STS-60T		STS-65T		STS-85T	
Capacity	TON	16		25		45		60		65		85	
Stroke Length	mm	20	30	20	30	25	30	30	40	30	40	30	40
Stroke per minute	SPM	200-900	200-700	200-900	200-800	200-800	200-700	200-700	200-600	200-700	200-600	200-800	200-700
Closing Height	mm	185-215	180-210	185-215	185-210	213-243	210-240	215-255	210-250	215-265	210-260	315-365	310-360
Bolster Area	mm	430x280x70		600x330x80		680x455x90		890x540x110		890x580x130		1100x680x120	
Slider Area	mm	300x185		320x220		420x320		600x400		600x400		900x450	
Slider Adjustment	mm	30		30		30		40		50		50	
Shake hole	mm	90x250×330		100x300x400		100x400x500		120x450x600		150x450x550		150x680x820	
Main Motor	(kw)	3.7		3.7		5.5		7.5		11		18.5	

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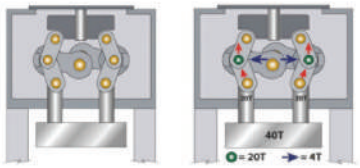
KNUCKLE JOINT HIGH-SPEED PRESSES

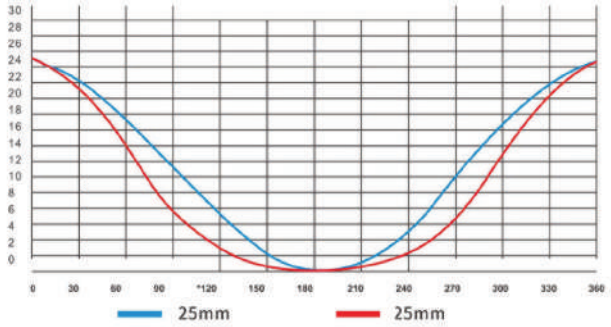
Technical Parameters

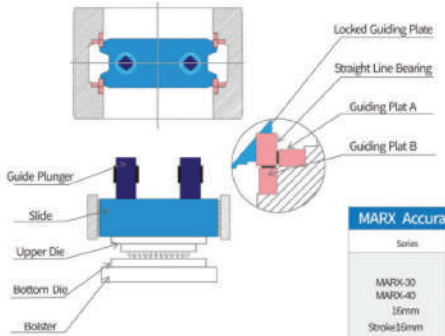
Specifications	Unit	MARX-30T				MARX-40T				MARX-60T				MARX-80T			
Capacity	Kn	300				400				600				800			
Stroke Length	mm	16	20	25	30	16	20	25	30	20	25	32	40	20	25	32	40
Stroke Per Minute	SPM	200-1250	200-1200	200-1050	200-900	180-1250	180-1100	180-950	180-900	100-750	100-750	100-650	100-550	120-600	120-500	120-500	120-450
Die Height	mm	190-240				190-240				220-300				240-320			
Slide Adjustment	mm	50				50				80				80			
Slide Area	mm	600x300				750X340				1130x500				1380x580			
Bolster	mm	600x400				750X500				1100x600				1500x800			
Thickness of Bolster	mm	90				120				140				160			
Opening Size of Bolster	mm	400(上)x350(下)×60				500X100				800(上)x700(下)x100				1160(上)x1160(下)x120			
Shake Hole	mm	400x100				560X120				840x120				1200x160			
Main Motor	kw	11x4p				15X4P				22x4p				30x4p			
Max weight of Upper Die	kg	MAX80				MAX105				MAX450				MAX500			
Press Weight	kg	6500				8000				1400				22000			



Perfect Stamping Effect

The horizontally symmetrical elbow joint connecting rod structure ensures smooth stamping curves near the bottom dead center for the movement of the press slider, achieving excellent stamping effect and meeting the stamping requirements of products such as lead frames. At the same time,the slider movement mode of this structure reduces the impact on the mold during high-speed stamping and prolongs the mold life.





Structure Diagram

MRAX superfine precision- -good rigidity and high precision

The slider is guided by a guide of double plungers and octahedral flat roller with nearly no clearance in it.It has good rigidity,high inclined loading resistance capability,and high punch press precision.High impact -resisting and wear-resisting property of the guide materils guarantee long-term stability of the punching machine precision and prolong the intervals of repairing mould.

MARX Accuracy Inspection Form

Series	Inspection Items	Direction	JIS Standard	Factory Accuracy
MARX-30 MARX-40 16mm Stroke16mm	Parallelism	R-L	0.024/0.028	≤0.020
		F-B	0.017/0.018	≤0.015
	Perpendicularity	R-L	0.009	≤0.003
		F-B	0.009	≤0.003
	Total Clearance	R-L	0.210/0.226	≤0.150
MARX-60 MARX-80 16mm Stroke16mm	Parallelism	R-L	0.035/0.055	≤0.025
		F-B	0.022/0.039	≤0.020
	Perpendicularity	R-L	0.009	≤0.003
		F-B	0.009	≤0.003
	Total Clearance	R-L	0.255/0.279	≤0.200
MARX Series	BDC Accuracy	Constant temperature Constant velocity	———	≤0.002

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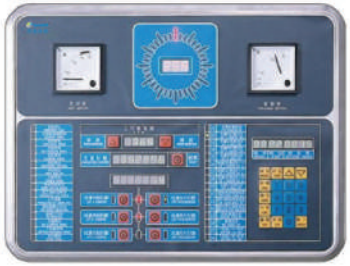
Performance Features

- The internal oil circulation design of the crankshaft suppresses thermal deformation of the crankshaft.
- Own special technology to control the clearance.
- Steel ball zero gap guidance ensures long-term vertical accuracy.
- Adjustable washers to restore equipment accuracy with minimal cost.
- The body pull rod and slide guide are integrated,with a compact and reasonable structure.The slide seat is guided by ball bearings, with high accuracy.
- Hydraulic locking rod,stability can be maintained for a long time.
- The separated clutch brake on both sides balances the force on the crankshaft and reduces bearing wear.
- Strictly control the rigid deflection value of the bed by 1/15000;The bed material is strictly controlled by QT500-7.

H-FRAME HIGH SPEED PRESSES

Computer Controller | Easy to Operat | Powerful Functions

Our computer controller is designed specifically with the punching Process in mind.Its ease of use and power are derived from a rich Set of specialfunctions, simple interface, mode setting in checklist Form, error code display, and ample memory capacity.



Technical Parameters

Sapecifi-Cations / Model	Capacity (ton)	Stroke (mm)	S.P.M (s.p.m)	Bolster Area (mm)	Shake Hole (mm)	Slide Area (mm)	Main Motor (kw×4p)	Press Dimension (mm)
DDH-85	85	30	150-700	1100x750	800×150	1100×500	22	2550×1680×3405
DDH-125	125	30	150-700	1400x850	1100×200	1400×600	37	2950×1800×3550
DDH-220	220	30	150-600	1900x950	1500×300	1900×700	45	3850×1940×4505
DDH-300	300	30	100-450	2300x1000	2000×350	2300×900	55	4400×2100×5340
DDH-400	400	30	100-300	2800x1200	2400×400	2800×1000	75	5050×2300×5650
DDH-500	500	30	100-250	3200×1200	2700×400	3200×1100	75	5800×2330×5250
DDH-600	600	30	80-200	3300×1300	2800×400	3300×1150	90	5800×2330×5250

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H-FRAME HIGH SPEED PRESSES

Performance Features

- The bed is made of high-strength cast iron according to the national standard (GBT5612-2008).After precise temperature control and tempering,the internal stress of the workpiece is naturally eliminated for a long time,resulting in the best performance of the bed workpiece.
- The split gantry structure prevents the opening problem of the body during loading,achieving high-precision product processing.
- The crank shaft is forged from alloy steel and processed by a four axis Japanese machine tool.Reasonable processing and assembly techniques ensure that the machine tool has small deformation and stable structure during operation.
- The machine tool adopts a six circle guide pillar structure to reasonably control the displacement and deformation between various workpieces.Combined with a forced oil supply lubrication system, the micro thermal deformation of the machine tool under long-term operation and eccentric load conditions is minimized, ensuring long-term high-precision product processing.
- The human-machine interface is controlled by a microcomputer to achieve visual management of operations,with clear product quantity and machine tool status at a glance (a central data processing system will be adopted in the future,where one screen will know the working status,quality,quantity,and other data of all machine tools).

Standard Configuration

> Universal frequency converter+variable speed main motor
> Combined pneumatic clutch brake
> Dynamic balancing device
> Electronic cam switch
> Stop angle automatic correction device
> Electronic crankshaft angle indicator (with speed display)
> Touch screen (switching between Chinese and English)
> Electronic mold height adjustment
> Modulus height indicator
> Safety door
> Two handed start button
> Micro inch movement (reversible)
> Circulating oil control component
> Material oil supply device (with solenoid valve)
> Electric control cabinet(with rolling wheel) body operation console
> Shockproof foot pads
> Air injector (with solenoid valve)DC
> Full stop circuit
> Mold lighting (LED)
> Material end stop switch (proximity type)
> Three sets of batch control
> Misdelivery function
> Accumulated counting function
> Repair toolbox
> Motor reversing device
> Oil temperature cooling device
> Air control component

Optional Configuration

> Roller feeder (O105 O138)
> Electronic disk
> Precision leveling machine
> Bottom dead center detector
> Chute control function
> Clamp feeder (O90E C1512)
> 3HP waste suction machine (equipped with funnel)
> Single side double receiving machine
> Tonometer

Technical Parameters

Specifications	Unit	MDH-30T		MDH-45T			MDH-65T			
Nominal Press Capaey	Tons	30		45			65			
Stroke Length	mm	20	30	20	25	30	20	30	40	50
Max Per Minute	SPM	1100	900	1100	1000	900	700	600	500	400
Min Per Minute	SPM	200		200			200			
Closing Height	mm	240	235	270	270	265	260	255	250	245
Adjustment Slide	mm	50		50			50			
Bolster Area	mm	640x450		750x500			1000x650			
slide Area	mm	640x340		750x360			950x500			
Shank Hole	mm	100x400		100x500			140x650x800			
Main Motor	kw	7.5		15			18.5			
Machine Weight	kgs	5000		7700			14000			

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