



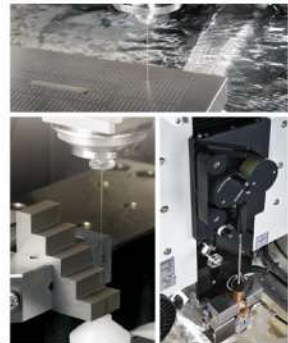
G-E Series



FEATURES

Automatic Wire Threading (AWT) System (For G43SAE only) *Optional*

The most adequate design possibly is the fastest wire threading system in the world with less parts, 2/3~1/2 less than the Japanese or Swiss design, reducing the maintenance cost and faulty rate.



i8+ Power Supply

The new i8+ power supply system increases the cutting speed by 15%, compared with the last generation, saves energy by 20%, and enhances machining stability by built-in intelligent voltage stabilizer.

Optimal Structure Design

G-E series adopts C-type structure which is analyzed by 3D simulation and FEM. Since the work tank is located upon the XY axes, so when moving the work tank, the center of gravity is always within the base. This increases the stability and accuracy.

The fixing technology of lower arm can reduce the friction during moving and therefore enhances the accuracy.



Specifications

Model		G43SE/SAE
X,Y,Z Axis	mm	400x300x220
U,V Axis	mm	60x60
Maximum Size of Workpiece	mm	725x500x175(Submerged)
Maximum Weight of Workpiece	kg	350
XY Axis Feed Rate	mm/min	Max.800
Drive System	axis	AC Servo Motor Drive
Wire Diameter	mm	Ø 0.15~0.3(Ø 0.25)
Maximum Wire Speed	mm/sec	300
Wire Tension	gf	300~2500
Maximum Taper Angle	deg	±14.5°/80 (Wide Angle Nozzle:DA+DB±25mm)
Machine Dimension(WxDxH)	mm	2450x2350x2100(Submerged)
Net Weight	kg	2800
Dielectric Filtration System		
Dielectric Capacity		650L
Filter	L	Paper
Ion Exchange Resin		14L
Water Quality Control	L	Auto
Water Temperature Control		Auto
Power Supply Unit		
Circuit		Power MosFET Transistor
Maximum Output Current	A	25A
Number of Current		10
Number of Duration		50
CNC Unit		
Input		Keyboard, USB + LAN
Screen		15-inch Color
Control System		32bit, 1-CPU, X&Y Closed Loop
Control Axis		X, Y, U, V, Z (5 Axis)
Unit Setting	mm	0.001 mm
Maximum Command Value	mm	+9999.999 mm
Interpolation		Linear/Circular
Command System		ABS/INC
Machining Speed Control		Servo/Const. Feed
Scaling		0.001-9999.999
Machining Condition Memory		1000-9999
Total AC Power Input		3 Phase 220 ± 5%/11KVA

Machine Layout

G43SE/G43SAE



Options ☒ Standard ☐ Optional ☐ Not Available

Features & Item	Unit	QTY	G43SE
i8+ Power Supply	CHMER	1set	<input checked="" type="radio"/>
AC/DC Power	CHMER	1set	<input checked="" type="radio"/>
Interrupted Power Recovery	CHMER	1set	<input checked="" type="radio"/>
USB Port	CHMER	1set	<input checked="" type="radio"/>
Network Transmission	CHMER	1set	<input checked="" type="radio"/>
AWT (Auto Wire Threading)	CHMER	1set	<input type="radio"/>
DXF Transforming Function	CHMER	1set	<input type="radio"/>

W5F Controller

- All software and hardware are developed in house by CHMER
- Industrial IPC-586 or above motherboard
- 64MB DRAM
- 128MB CF card
- Support USB and Ethernet transmission