

HIGH SPEED EDM SMALL HOLE DRILLING

电火花小孔加工机系列产品

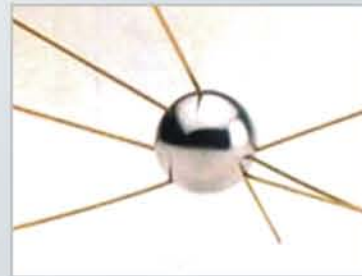
Main Application

High speed small hole drilling machine adopt electrode to drill hole according electrical discharge theory, put on high frequency pulse electrical power between electrode and workpiece to create small pulse, cooperate with high pressure water flush to make more higher speed erosion, especially fit to drill hole diameter as 0.2mm-3.0mm on stainless, hardenedsteel, cooper, aluminum, and hardalloysteel, the depth-diameter ration can reach to 300:1. Be able to drill directly into bevel or curve surface. This machine is widely used to drill hole which used to be thread wire, and chemical fiber spinneret, spinneret hole of spinneret plate, filter plate, group holes of sieve plate, engine blade, heat dissipation hole of cylinder, the hydraulic, oil way of air operated valve, stomata. The machine can also erode the drill bit or taps broken in the working piece without destroy the original hole or screw.

Unique design
Excellent machining performance
Humanized concept of environmental protection
Top sales



Finished Product Area



Machine Model



BMD703CNC

CNC Small Hole drilling Machine

- Able to drill holes range from diameter 0.2-3.0mm with max depth-diameter ration 300:1
- Drilling speed 30-60mm/min
- Able to drill various conductive metals, such as stainless steel, chilly steel, solid carbide, copper, aluminum etc
- Able to drill directly into bevel or curve surface
- with electrode auto checking function, improve machining hole precision
- with lubrication system, and hand control equipment
- with memory function
- NC axis with opposite clearance error compensation function
- with hand zero clearing function for NC axis
- X,Y,Z axis adopt ball screw, linear guideway
- X,Y,Z axis adopt servo motor, control precision as 0.001mm
- Hole position and parameters editor function
- Optional C axis(rotate axis), four axis CNC

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▶ Machine Model

Min drilling hole diameter 0.2mm



BMD703

Precision small hole drilling machine

- Can drill deep hole with diameters 0.2mm ~ 3mm (the depth-diameter ratio is 300:1)
- The speed of drilling hole is 30mm~60mm depth per minute (it is different for different material)
- Can drill small holes on the various conductive materials, especially stainless steel, chilled steel, copper, aluminium and hard alloy etc
- Can drill on oblique and curved surface directly
- the spindle adopt double frequency model, make the processing and turning back speed twice compare with other same type machine
- Adopt the central lubricating system, The operation is easy and convenient
- Drawer-type water tank in the bed, reflecting the concept of environmental protection
- The working water can be normal water or saponification fluid and no pollution is brought
- There is observation window to control water pump pressure conveniently
- X, Y, Z axes have digital display devices
- Z axis has the function of depth locating, the machine has the function of automatic clear once the electrode touch working piece
- CNC type has the function of Hole position and parameters editor

DB703

Export Model Small hole Drilling Machine

- Patent No.: ZL01 3 56391.2
- Able to drill various conductive metals, such as stainless steel, chilly steel, solid carbide, copper, aluminum etc
- Able to drill holes range from diameter Φ 0.3~3.0mm with max depth-diameter ration 300:1
- Drilling speed 30~60mm/min, Able to drill directly into bevel or curve surface
- X,Y,Z with DRO equipment
- Z axis with deep positioning function. Auto zero clearing when Electrode touch, auto back setting position when finish machining

Patented product

TOP SALES



DD703

Normal Model Small hole Drilling Machine



▶ Specification and Parameters

Parameters/specification	BMD703CNC	BMD703	DB703	DD703
Work table size(L x W)	470x360	470x360	436x316	382x260
Work table travel(X x Y)mm	400x320	400x320	400x300	300x200
Z axis travel (mm)	270+(300)	270+(300)	270+(300)	270+(220)
Drilling depth(mm)	0 ~ 300	0 ~ 300	0 ~ 300	0 ~ 220
Max drilling speed(mm ² /min)	60	60	60	60
Max working current(A)	30	30	30	30
Drilling hole diameter(mm)	Φ 0.2 ~ Φ 3.0	Φ 0.2 ~ Φ 3.0	Φ 0.3 ~ Φ 3.0	Φ 0.3 ~ Φ 3.0
Load of table(Kg)	300	300	200	200
Working solution	Water/saponification	Water/saponification	Water/saponification	Water/saponification
Working reservoir capacity(l)	30	30	25	25
Power supply	380V/50Hz	380V/50Hz	380V/50Hz	380V/50Hz
Max power consumption(KVA)	3.5	3.5	3.5	3.5
Machine weight(Kg)	700	700	600	550
2nd travel control type	Electric	Electric	Electric	Manual
Digital display	Three axis numerical control	Three axis	Three axis	Two axis
Function of setting depth	Yes	Yes	Yes	No
Machine dimensions(mm)	1120x1005x1915	1120x1005x1915	1060x750x1700	1060x750x1700
Packing dimensions(mm)	1400x1450x2050	1400x1450x2050	1300x1040x2030	1300x950x2030

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Main Parts of High Speed Small Hole EDM Machine

No	Item	Specification model	Manufacturer
01	X,Y,Z Axis precious screw		Suzhou Liangqing
02	X, Y precious guide way		Suzhou Baoma NC
03	Step motor	45BF005	Changzhou Baocheng
04	Low speed motor	90TDY\55TDY	Suzhou SOK Micros Motor
05	Contactora		CHINT Group
06	Door switch		Jiuchuan Electrics Group
07	Transformer		Wuxi Jingyi
08	Digital Readout	2 axis or 3 axis	SINO

Our Company reserves the right to change manufacturers when purchase the same quality parts



Pump Motor



High-pressure Pump



High-pressure Hose



Filtering Barrels

Standard Packing List

No	Item	Description	Qty
01	Machine model	703	1
02	Wrench	12x14	1
03	Hexagon socket wrench	M4	1
04	Hexagon socket wrench	M5	1
05	Hexagon socket wrench	M6	1
06	Screwdriver	150mm	1
07	Guide apparatus	Φ0.5mm	1
08	Guide apparatus	Φ1.0mm	1
09	Sealed ring	Φ0.5mm	5
10	Sealed ring	Φ1.0mm	5
11	Electrode	Φ0.5mm	10
12	Electrode	Φ1.0mm	10
13	Spindle adjust bar		1
14	Plastic wrench		1
15	Water tank		1-2
16	Iron Cushion		4
17	Water pump sealed ring		5
18	Rotary head O ring		6



Detection Scene



Finished Product Area