BERLIN

MACHINE CORPORATION

FOSTEX

A360

FOSTEX

SF SERIES

HIGH PRECESION

350   0

340

330

320

310

180

160

200

140

220

120

240

100

260

60

70

80

90

SF SERIES

Machine specification

MODEL	SF300	SF400	SF500	SF600
Table size (mm)	Table Size	Table Size	Table Size	Table Size
Table travel (X*Y) mm	320*400	400*500	500*630	630*800
Max. Z axis travel (mm)	300mm	300mm	300mm	300mm
Control system	LQCUT	LQCUT	LQCUT	LQCUT
U and V axis travel	+30mm, LM guide	+30mm, LM guide	+30mm, LM guide	+30mm, LM guide
Machining taper	±6°80mm	±6°80mm	±6°80mm	±6°80mm
Maximum load capacity	600kg	800kg	1000kg	1200kg
XYZ axis resolution	0.001mm	0.001mm	0.001mm	0.001mm
Repetability	≤0.005mm	≤0.005mm	≤0.005mm	≤0.005mm
Drum runout	≤0.005mm	≤0.005mm	≤0.005mm	≤0.005mm
Wire Diameter (mm)	0.12~0.22mm	0.12~0.22mm	0.12~0.22mm	0.12~0.22mm
Wire feeding speed range	1-12m/s	1-12m/s	1-12m/s	1-12m/s
Maximum processing current	8A	8A	8A	8A
Maximum Speed (Cr12, H=60mm)	≥200 mm2/min	≥200 mm2/min	≥200 mm2/min	≥200 mm2/min
Interface Module	LAN, RS232, USB			
Power Rating	≤3kW			
Multi Cut accuracy (Cr12, H=40mm)	≤±0.004mm	≤±0.004mm	≤±0.004mm	≤±0.004mm
Surface Finish (Straight cutting, H ≤ 40mm)	1 cut Ra≤2.5µm, 2 cut Ra1.6µm, 3 cut Ras1.0µm			
Dimension L*W*H (mm)	1960*1620*1915	2070*1800*1920	2390*2000*2130	2650*2310*2140
Net Weight	2100 Kg	2300 Kg	2800 Kg	3500kg

Machine Tool Feature
• Machine tool adopts an integrated design and a fully closed structure
• Taiwan Make Linear Guide Rail
• Taiwan Make Ball Screw in XY & UV Axis
• Elastic Coupling
• Deluxe environmental protection enclosure
• Spring tension automatic tightening in threads
• 120L Working fluid tank
• Centralized lubricating oil pump
• High-pressure pump, multi-stage filtration, paper filter element
• HT250 casting cast by resin sand process
• T-shaped slot for work piece adjustment

• Chrome plated wire drum with dynamic balancing in 0.005 micron
Controller Features
• Industrial computer with Quad-core i3 processor; 64G hard disk; 4G memory; 15-inch LCD
• Cabinet with Integrated servo machine, multiple cutting
• XY with Servo Drive
• 4-Axis linkage control
• Draw or DXF drawing import function
• Closed loop control
• Reverse clearance compensation and pitch compensation
• Automatic shutdown of the water pump and machine after cutting
• Fast programming function of complex multi-hole graphics

- C-type column, T-type bed and "pyramid" type cross slide structure design

- Guide screw: Adopt Taiwan ball screw inward guide rail to ensure the accuracy retention of the machine for more than 10years.

- an integrated design and a fully closed structure

- Taiwan Make Linear Guide Rail and Ball Screw in XY & UV Axis

- Spring tension automatic tightening in threads

- Fast programming function of complex multi-hole graphics Industrial computer with Quad-core i3 processor; 64G hard disk; 4G memory; 15-inch LCD

- Cabinet with Integrated servo machine, multiple cutting XY with Servo Drive

Standard Accessories

Tool kit	**High Pressure coolant tank**	**Ceramic nozzle**
Wire alignment tool	**Wireless mouse and keyboard**	**1 box GEL , 1 Spool Wire**

Optional Accessories

Double filter coolant tank	Attachment For <u>Aluminium</u> & Carbide cutting	Hard Disk *Autocut*