Technical Specifications

Items	Unit	AF10	AF30
Main machine			
Dimension of the machine	mm	1650x1500x1975	2050x2460x2380
Weight of the machine(no dielectric)	kg	1800	3500
Dimension of worktable	mm	600x400	800x550
Ttravels (XYZ)	mm	380x250x250	600x400x350
The distance between Z-platen to table	mm	250~500	320~670
Dimension of worktank	mm	1050x620x380	1430x800x500
Resolution(XYZ)	mm	0.001	0.001
Electrodes and workpiece			
Max. electrode weight	kg	70	100
Max. workpiece dimension	mm	800x500x320	1100x600x400
Max. workpiece weight	kg	1000	2000
Dielectric system			
Dielectric box capacity	L	450	800
Paper filter	pc	2	2
Power supply system			
Standard configuration		380V±10%/50 or 60 hz	
Power input		10KVA	10KVA
Generator and machining technology			
Max. machining current	A	64	64
Max. removal rate	mm³/min	380(Copper~Steel)	380 Copper~Steel)
Best surface roughness (Ra)	μm	0.3	0.3
Min. electrode wear		0.3‰	0.3‰
Standard machining technology		Copper/graphite ~ steel, copper/tungsten ~ carbide	
CNC control system			
Display		15" color led display	
Keyboard		102 keys keyboard	
Programmable axis		XYZC 4-axis (4-axis controlled simultaneously)	
Unit		Metric/Inch	
Interpolation		point to point	
Orbit type		circle/square/vector/polygon	
Orbit mode		free/lock	
CNC function		setup/erosion/edit/ diagnostic	

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AF10/30
CNC Die-sinking EDM AF Series

NOVICK GROUP
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COCCHIOLA
MÁQUINAS Y EQUIPOS PARA LA INDUSTRIA PLÁSTICA Y METALMECÁNICA

Technology leads to enterprise development
Service creates client profit

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AF10/30
CNC Die-sinking EDM AF Series

ADSPARK

As a subsidiary company of Novick Group, Beijing Novick Digital Equipment Co., Ltd is a high-tech joint venture, which focuses on providing market with reliable and excellent performance metal cutting and EDM equipments.

The restricted process control and the flexible manufacturing hardware are the strong background of providing advanced and reliable machine tool equipments for the market.
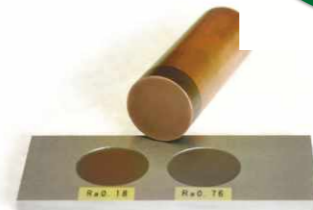
Laser measurement is restrictedly made to every machine.

The ISO-9001 quality system ensures products delivered absolutely under control.

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Mirror machining

Mesh machining (big area)

The compact, rigid and precise mechanical body

Compacted machine occupies very small floor space.

The excellent rigidity thanks to the fixed worktable structure based on which the axe move independently on the support.

X/Y/Z axe adopt precise linear guide-ways, ball-screws and DC servo system which ensure smooth movement and high accuracy.

**Z**-axis platen has the interfaces for mounting multi-types of chucks (manual、3R、EROWA).

Options

Extended 100A generator modular allows higher machining efficiency.

4 pages of functional screens consisted of setup, erosion, edit, graphic, diagnostic provide very friendly man-machine interface.

Real-timely multi-tasking control software makes it possible to do preparations for next jobs during erosion.

The flexible NC programming system can meet the needs both for beginners and experienced operators.

**W**ith the small hand-box, operators can operate the machine within short distance.

Generator & machining technology

Super large-scale integrated circuit makes electrical discharge circuit powerful and reliable.

With fuzzy algorithms the discharging status and gaps are optimized adaptively which result in high removal efficiency and low electrode wear.

The complete set of EDM machining technology parameters database makes it easy and convenient to realize various kinds of machining: copper ~ steel; copper ~ carbide; graphite ~ steel; copper tungsten ~ carbide, etc.

A group of machining parameters can be called by one code. The parameters can be modified real-timely during erosion. And the modified parameters can also be stored for special use hereinafter.
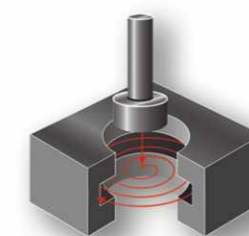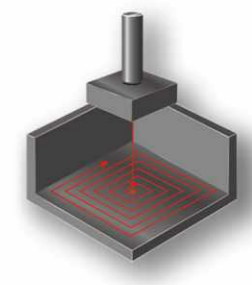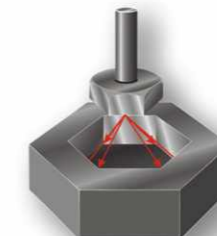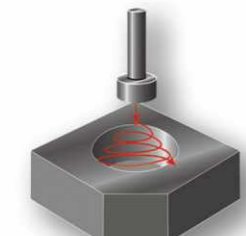
Circle orbiting
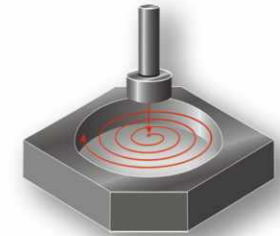
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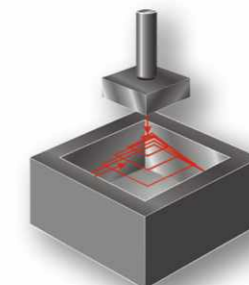
Square orbiting

Square orbiting

3D machining

Free orbiting

CNC control system