



Funkenerosion

APos 800 CNC

***High speed small hole EDM drilling machine
type APos 800 CNC with PC control system***



Advantages:

- + measuring used electrode & applicable again
- + better thermal stability
- + higher mechanical stiffness
- + Integration tank und filter unit (600 liter body housing)
- + fully cased working area
- + big work piece weight
- + adaptive measuring sensor system
- + EDM milling
- + robot connection possible
- + included camera-system
- + contemporaneous travel to each drilling position for up to 5 axes
- + minimum removal rate adjustable

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APos 800 CNC - High speed small hole EDM drilling machine

Technical details:

Machine body:

clamping area:	mm	800x600
travel X Y motor driven:	mm	800x600
max. work piece weight:	kg	3000
dimension	mm	1660 x 2460
machine height:	mm	2400 - 3000
machine weight:	kg	3000
motor adjustable and programmable		
rough adjustment Z-axis:	mm	20 - 600
controlled W-axis = eroding axis drilling stroke	mm	700
high-pressure ceramic piston pump		

Modular high-frequency generator:

removal rate stainless steel:	about.	65 mm/min.
removal rate aluminium:	about	200 mm/min.
high removal rate with reduced electrode wear		
microprocessor controlled development of capacity on the drill entering		
for electrode diameter:	mm	0,1 up to 6,0
usable electrode length:	mm	up to 800

Options:

70-fold electrode changer
different indexers
electrode length up to 800mm
12-fold guide changer

Technical features "control system":

pc-control with 200 sets/sec processing speed
storage of 10 separate zero points
automatic touching cycles (edge, corner, hole etc.)
turning of coordinates (coordinate system adjusts to tilt of work piece)
active help for programming by target positioning system
programmable depth- and retreat position
defined blind hole drilling by measuring cycles in program flow
CNC- dry run
measuring compensation in X- and Z-axis by using 4th and 5th axis
operation enlargement - software updates by chip exchange
software options possible according to customer requirements
optional possibility for 4th and 5th axis
control diagnosis with „first level support“ by telephone
help functions