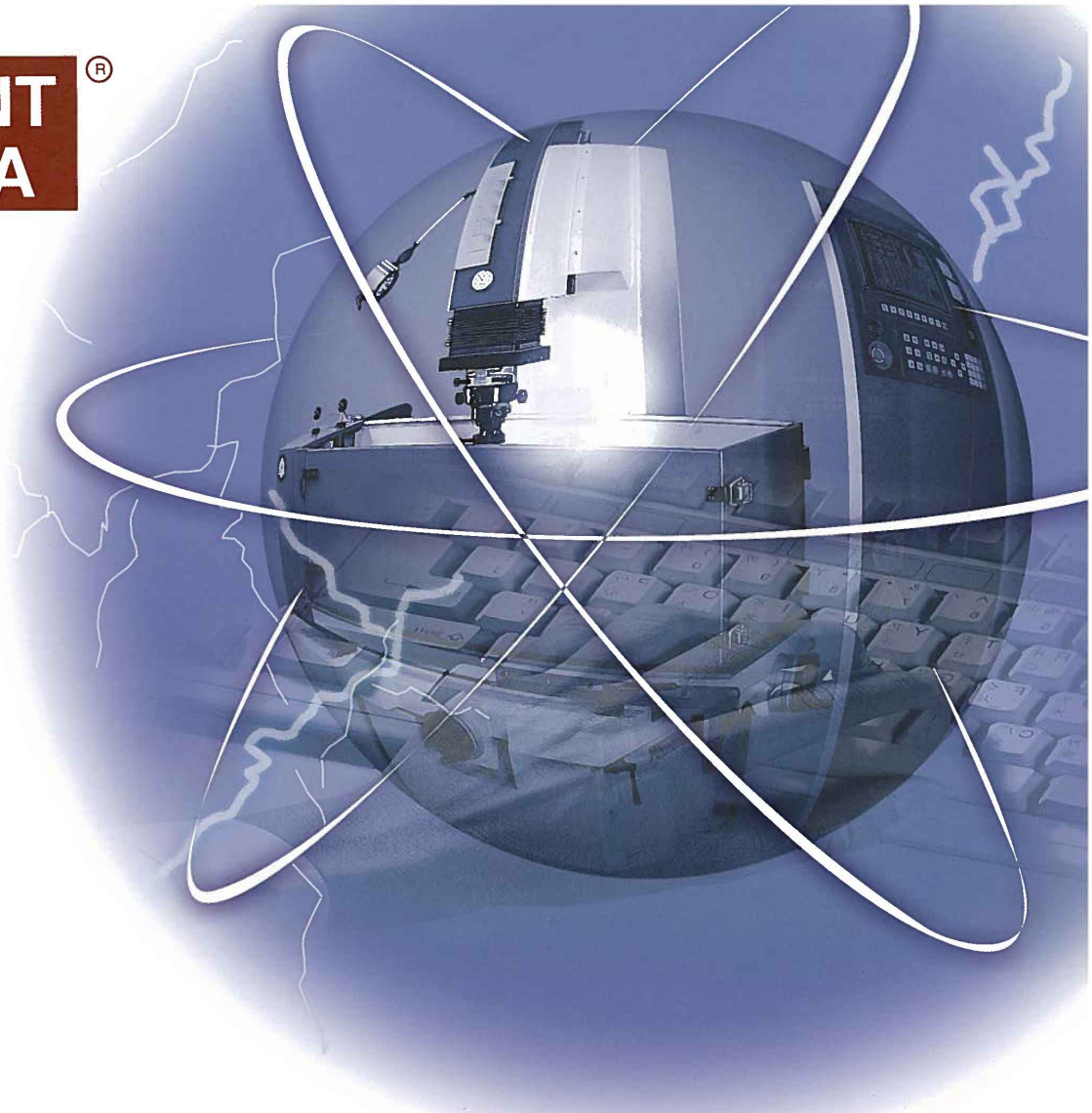


**KENT  
USA** <sup>®</sup>



# *Electrical Discharge* Machines

PROVEN DESIGN WITH ADVANCE FEATURES FOR A  
COMPETITIVE EDGE TODAY



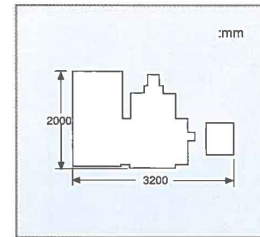
Providing Solutions.

Phone: 916-638-7718 Fax: 916-638-2450

[www.scottmachinery.com](http://www.scottmachinery.com)

4700 Lang Ave, Suite D, McClellan, CA 95652

# NC-F707N

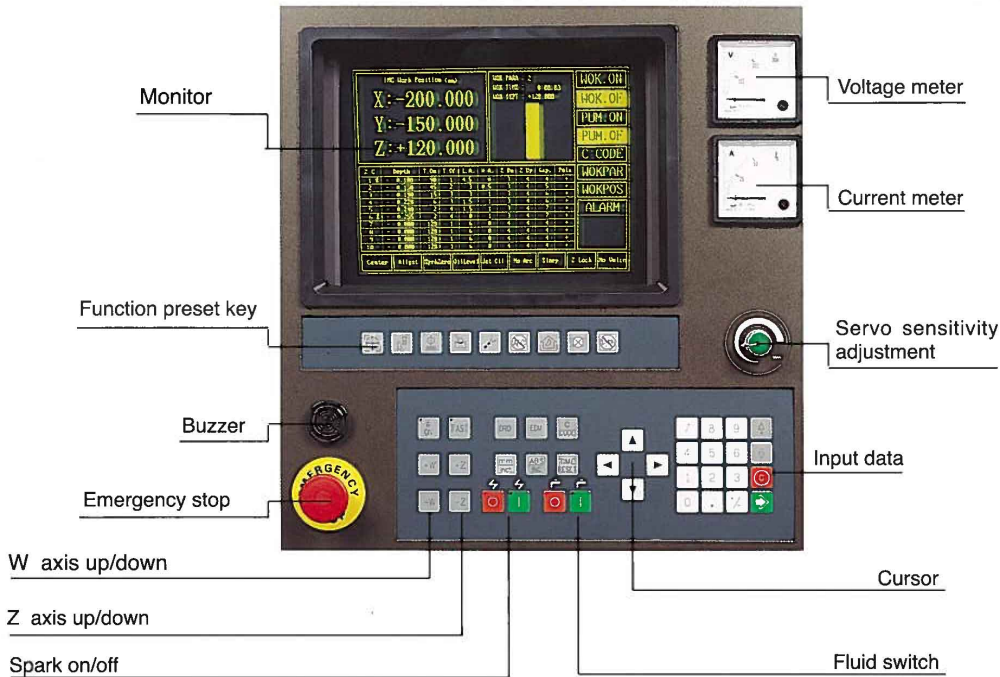


Machinery	NC-F707N	NCF Model	Fluid Tank		
Capacity of work tank	1550x880x500mm (59x32x20inch)	Max. output current	60A	90A	120A
Work table dimension	1000x500mm (40x20inch)	Input electric power	7KVA	10KVA	13KVA
Longitudinal travel (X axis)	550mm (22inch)	Max. processing speed	400 mm <sup>3</sup> /min	600 mm <sup>3</sup> /min	800 mm <sup>3</sup> /min
Cross travel (Y axis)	450mm (18inch)	Electrode wear ratio	0.25%		
Spindle travel+Headstock travel	300+300mm (12+12inch)	Best surface finish	0.33 μmRa (13 μinch)		
Max. electrode weight	250 kgs (550 lbs)	Max. programming capacity	500 blocks		
Loading capacity of work table	2000 kgs (4400 lbs)	Min. D.R.O. resolution	0.005mm (0.0002")		
Machine weight	3000 kgs (6600 lbs)	Max. D.R.O. extent	999.999mm (40")		
Packing measurement (LxWxH)	2170x3080x2490mm (85x12x98inch)	Permanent memory device			
Clearance from worktable to platter(min-max)	(160-760) mm (6.3-29.9) inch				

600 L  
(158gallons)



Technology



**★OUTSTANDING FEATURES:**

- Large CRT display presents all relevant machine status, parameters, and positioning in a clear and easy to understand manner.
- Maximum 500 programmable steps offer precise and customizable machining parameters from start to finish for even the most complex jobs.
- Convenient auto-depth and auto-retract features allow quick and easy set up for multi-part batch runs.
- Superior intelligent PC controller provides greater system efficiency with lower electrode wear and better part finishes.
- Concurrent processing allows machining parameters to be changed while the machine is running the part program.
- High sensitivity servo system same as CNC models.
- 2 selections of flushing time for different size workpieces.
- Powered ram offers convenient rapid headstock up/down for quick set up.



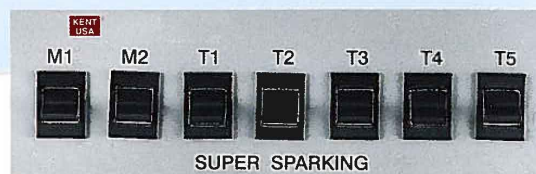
★ **SAFETY:**

- Fluid height level function can be set to shut machine off if the level falls below the preset level.
- Auto-depth function can be set to retract and shut off the machine at the end of the machining cycle.
- Short circuit detection can automatically shut machine off to prevent damage or fire hazard.
- Fire detection circuitry provides additional protection with fire extinguisher and automatic machine shut down.

The optional "Super Sparking" feature is available for EDMing Tungsten Carbide or hardened steel over 50 RC.

The features are:

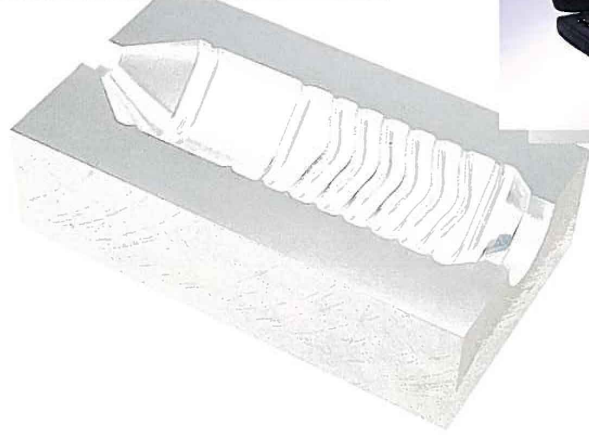
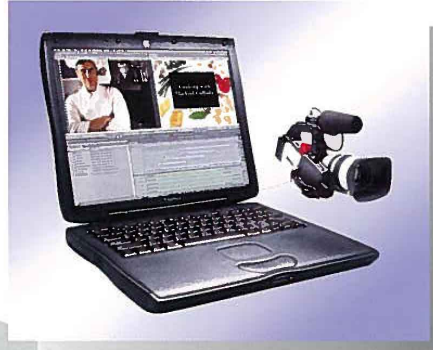
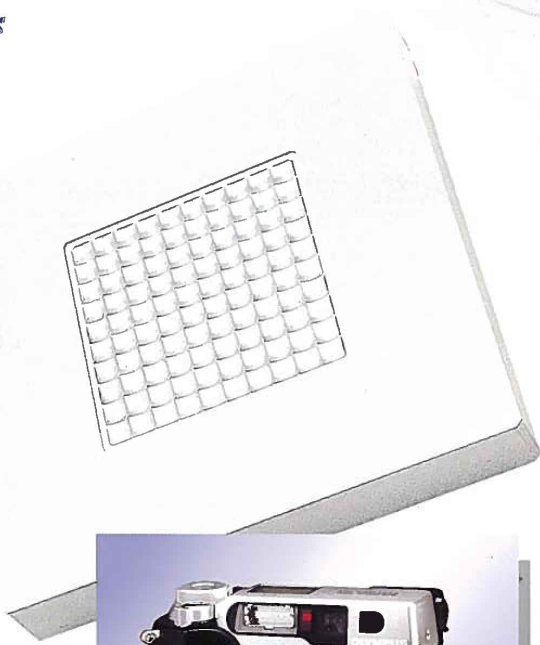
1. It improves working speed with hardened steel and carbide.
2. The surface of the electrode is flat with low wear.





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***Application Examples***





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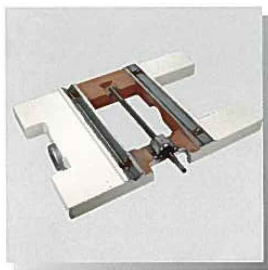
To be Perfect is Our Nature

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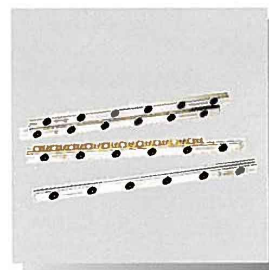
## IMPROVED PRECISION AND RELIABILITY



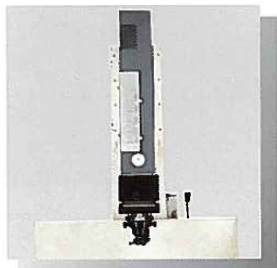
A.



B.



C.



D.



E.



F.

### ★MECHANICAL STRUCTURE:

- A. Fully ribbed and tempered FC-30 casting provides a solid foundation for the machine base and main structure.
- B. Turcite-B on the saddle provides smooth, precise movement and positioning in the X and Y-axis.
- C. Z-axis on linear guide-ways with ultra-precision ball screw and PWM-Servo motor combine to offer maximum machining performance.
- D. Sturdy and compact headstock for easy operation with high precision.
- E. Quick change filters.
- F. Remote control for EDM operator.



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**Standard Accessories:**



Work head



Set up tools



Work lamp

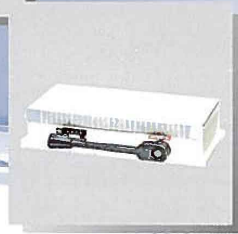


Filters (2pcs)

**Optional Accessories:**



Oblique loran



Permanent magnetic chuck



Automatic fire extinguisher



SYSTEM 3R Tooling



*"EDM Technology Leader Since 1982"*



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