



# GM703

NANO-MOTION MICRO EDM

## ULTRA-HIGH PRECISION DESIGNED FOR MICRO MOLDING

THE SMALTEC GM703 WAS SPECIFICALLY DESIGNED FOR THE MICRO MOLDING INDUSTRY, WITH A SPECIAL FOCUS ON OPTICAL MOLDING. THIS MODEL IS EQUIPPED WITH ULTRA-HIGH PRECISION, 3-DIMENSIONAL NANO-MOTION AND IS COUPLED WITH THE SMALLEST SPARK IN THE INDUSTRY. CREATE HIGH QUALITY MICRO MOLDS BY UTILIZING A FINISHING PROCESS USING A POLY CRYSTALLINE DIAMOND (PCD) TOOL, SHAPED ON THE MACHINE, AND ACHIEVE A MIRROR SURFACE FINISH OF 5NM R<sub>MS</sub>. SECONDARY POLISHING STEPS ARE NOT REQUIRED. DON'T BE LEFT BEHIND, ADD THE GM703 TO YOUR LINE-UP AND CREATE MICRO MOLDS "FROM START TO PART" ON ONE MACHINE.

# One Machine Does It All.



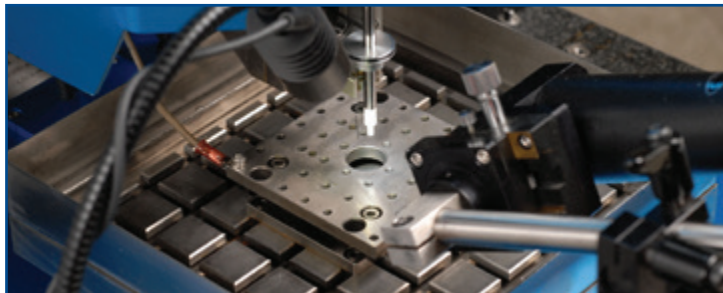
## Mandrel

The patented tool holder and spindle allows for quick tool removal, inspection, storage and precision placement. Shape and store custom tools in advance of running production.



## Mono Scope

This is instrumental for viewing during process and for rough alignment of work piece and tool. Easily conduct set-ups and verify process results.



## Tank

The process is adaptable to Dielectric or DiWater fluid processing for flooded, flushed or flow. Gain benefits of either fluid for faster cutting, feature definition and tool life.

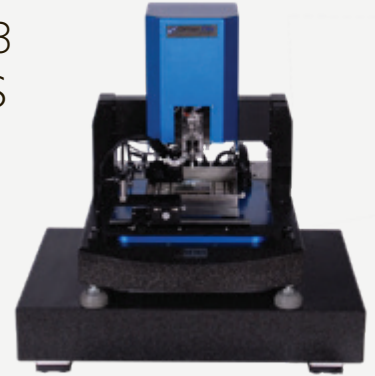


## NC Control

Standard G and M code programming capability, conversational or CAM generated tool path compatible. Operator interface is easy to learn and use.

## SMALTEC GM703 SPECIFICATIONS

ALL SPECS SUBJECT TO CHANGE



DIMENSIONS (w, l, h) 500 x 500 x 565 mm

WEIGHT 125Kg / 300 lbs

XY AXIS RANGE X : 50 mm Y: 50 mm

Z AXIS RANGE Z : 70 mm

POSITION RESOLUTION 10nm, glass scale

MANDREL ROTATION 0-6,000 rpm

ACCURACY 10 mm : 30 nm  
50 mm : 170 nm

WORK PIECE TANK 150 x 150 mm

SPINDLE DRIVE SYSTEM DC Servo

WORK PIECE WEIGHT ~ 1.5 kg max

VOLTAGE 110 V +/- 10V AC  
50/60 Hz, 1kVA



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