

# THE SMALTEC EM203

Changes in specifications and appearance may be made without notice for product improvement

## MACHINING UNIT

Dimensions (w, l, h)	710 mm x 835 mm x 810 mm
Weight	325 Kg / 725 Lbs

## XY TABLE

Positioning Range	X: 200 mm, Y: 200 mm
Positioning Detection	Glass scale: 0.1 $\mu$ m readout
Minimum Travel Resolution	0.1 $\mu$ m

## Z AXIS

Positioning Range	~95 mm
Travel Range	100 mm
Minimum Travel Resolution	0.1 $\mu$ m

## MASS OF WORK PIECE

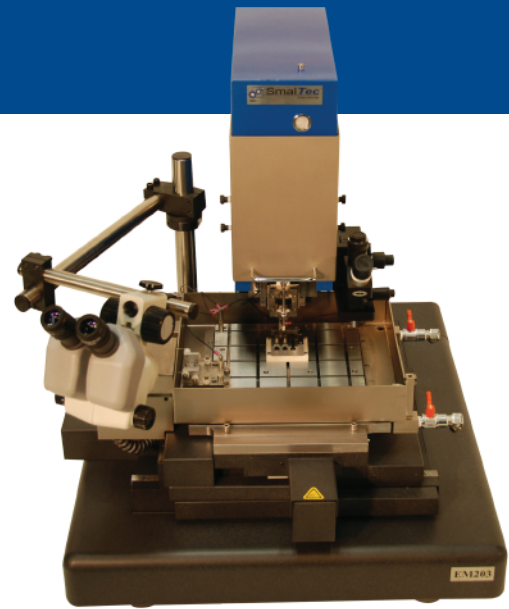
Practical Mass	Max. 3 Kg
Maximum Mass (with worktable removed)	Max. 5.5 Kg *

## ENVIRONMENTAL CONDITIONS

- Recommended ambient temperature:
- 20°C  $\pm$  1°C (during high-precision machining)
  - Ambient temperature: 20°C  $\pm$  5°C
  - Humidity: 10% - 60%
  - No Vibration

## TOOL ELECTRODE

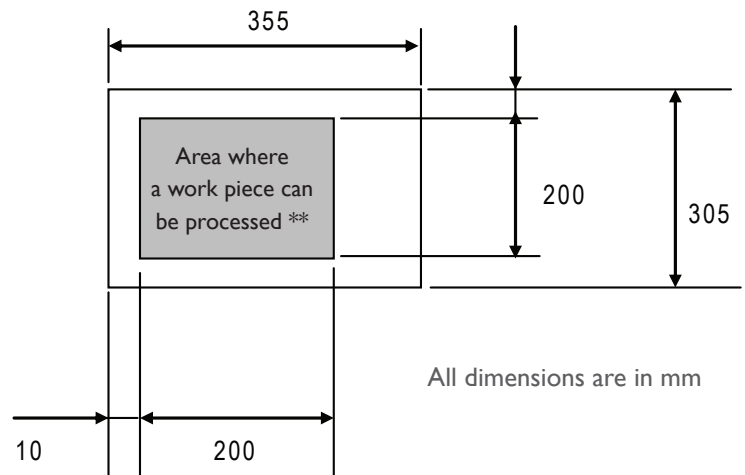
Rotation Speed	~6000 rpm
Drive	DC Servo
Bearing	V-shape Ceramic Bearing, new design



## NC ELECTRO-DISCHARGE CONTROLLER

Power supply	AC 100V $\pm$ 10V, 50/60 Hz, 1 kVA (110V/100V Transformer provided)
Dimensions (w, l, h)	430 mm x 500 mm x 255 mm
Weight	25 Kg / 55 Lbs

## PROCESSING TANK



## MACHINING PERFORMANCE

Accuracy	10 mm: 1 $\mu$ m, 100 mm: 5 $\mu$ m **
Surface finish (Rmax)	100 nm (standard electrode) 10 nm (PCD Electrode) **

\*\* targeted values