

## Infrastructure & Facilities for Engineered Tooling Solutions



### Software:

- ▣ Part Refinement, Tool Engineering and Design
  - Our engineers use Creo® and Top Solid® for tool design
  - Moldflow® for CAE analysis and part refinement
- ▣ Manufacturing
  - Hypermill® and Siemens Nx® for CAM and
  - Vericut® for manufacturing simulation.

### Machines and Equipment

**Our manufacturing shops are climate controlled and equipped with world class machines:**

- ▣ CNC 3 axes machining centers from DMG-Mori, Mazak, Makino;
- ▣ CNC Wire erosion, CNC EDM and EDM drilling machines from Mitsubishi, Charmilles and Makino
- ▣ CNC Jig grinding machines from Hauser, Moore
- ▣ CNC turning machines from Geedee Weiler
- ▣ Surface and Cylindrical grinding machines from Jones & Shipman, Okamoto, Micromatic, Chevalier, Praga,
- ▣ Laser welding from OR laser and
- ▣ World class support equipment from Erowa®, Blum, Renishaw and Zoller.

ETS has also invested in a dedicated High Precision and High Speed CNC machining centre from Roders for Graphite milling of Electrodes.

### Quality Assurance and Control Equipment:

Our inspection rooms are climate controlled and equipped with CMMs from Zeiss and measuring instruments from Tesa, Mitutoyo and Mahr. The health of our machines is monitored and maintained using our in house Renishaw Ball Bar equipment and leased Laser Calibration equipment.

### Tool Assembly and Prove-Out:

Our assembly shop is equipped with a die spotting press from Millutensil and we also have a Engel Injection Moulding machines in house for proving Moulds and presses for stamping dies.