## **Rondol Technology**

"Where technology meets industry"

**General Presentation** 

for

**Birmingham University** 

**Scratch Project** 



# Staffordshire Based Design and Build Facility





### **Process Engineering Expertise**

Mixing

Extrusion





Moulding







#### **Product Portfolio**

- Plastics Injection Moulding
- Single Screw Extruders
- Twin Screw Extruders
- Ancillary Equipment
- Mills
- Presses
- Laboratory and Production



#### **Materials Science Quantum Physics** Nano-mechanical devices **Nanoelectronics** Carbon nanotubes **Organic electronics Nanotribology** Inorganic self-assembly **Nanocomposites** Nanotechnology for functional Nanomaterials: bulk, **Tool coatings** devices and ICT coating & soft materials **Photovoltaic** Quantum dot LEDS & lasers **Transport** Suspensions and inks Magneto-resistive devices **Aerospace Electronics, information** Bio-molecular data processing Colourants Cosmetics Manufacture Nano-structured catalysts Micro-nano implants **Pharmaceuticals Textiles** Food & beverage **Materials supply Drug delivery** Chemical **Environmental** Nano-filtration **Bio-synthesis of functional Energy DNA** arrays molecules Nanotechnology for chemistry **Biosensors** Bionanotechnology & environment **Batteries Energy storage Biochip** Biological self-assembly

**Biocatalysis** 

**Molecular Biology** 

**Supramolecular Chemistry** 

Supra-molecular self-assembly

#### **Applications**

- Conductive Polymers
- Fuel Cells
- Nano Polymer Development
- Medical Devices
- Drug Release
- CATREX

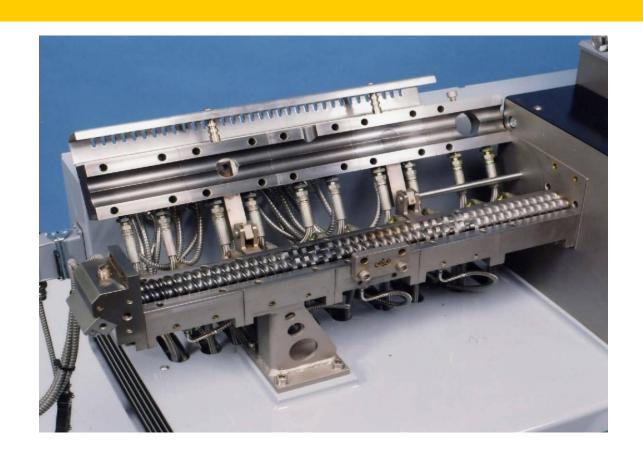


# **Single Screw Extrusion 1**





# Modular Twin Screw Barrel and Screws





# **Processing equipment for Nanoclays in Thermoplastics**





# **Bespoke Laboratory Equipment**





### **Laboratory Presses**







# **Bench top Moulding Equipment**





#### **MILC**

Melt In Line Compounding





#### **CATREX**

Catalytic Reactive Extrusion





# **Chaotic Mixing**





#### 10mm Twin Screw for MNT Work







#### Reference List

- Brunel University
- Bradford University
- Cranfield Institute
- Queens University
- Johnson-Matthey
- RAPRA
- Johnson and Johnson

- St Gobain
- Smith & Nephew
- Rocket Medical
- PERA
- Perplas
- Queens University
- Rolls Royce



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