

HTA SYDNEY LINE CARD

Process	Process Details	Components / Examples	Furnace Capability
Annealing of Aluminium Alloys	Annealing prior to Hardening of aluminium alloys that are welded, as cast, forged or previously heat treated, this process sets a formal microstructure within a material preparing it for further treatment or use.	Aluminium Alloys that are welded, as cast, forged or previously heat treated.	Maximum Size 750 x 750 x 750 mm
Bristuff Nitriding	A low temperature process allowing engineering steels to be processed without changing the core strength from which they were supplied and due to very low distortion, machined parts can be virtually finished with only minor polishing required post treatment.	Extrusion dies, Gears, Cogs, Sprockets, Crankshafts, Plastic Injection Moulds and Dies.	Maximum Size 700 Dia x 1850 mm
Continuous / Conveyor Harden and Temper	Through Hardening & Tempering of smaller spring steel components in large quantities, ie 1045, 1055.	Lawn mower blades, Ceiling clips, Gutter clips, Washers	Please contact HTA to discuss
Hardness Testing	Hardness verification on Rockwell and Brinell Scales. IAW ASTM E18, E10 & E110.	Verification Capabilities for all Processes Performed.	
Heat Track Solutions	HTA Trademarked Customer Information Portal and Client interface. Secured Client services, accounting, job tracking, email notifications or work progression and more.	HTA's Portal for processing, accounting and live status of workflow	Access at heattracksolutions.com
Solution Treatment of Aluminium Alloys	Solution treatment, generally T6 condition, of heat treatable aluminium alloys IE 6061, 7075, AA601, AA603, 357.1.	Alloy Engine Blocks, Structural Components, Castings that require machining, Bicycle frames	Maximum Size 750 x 750 x 750 mm
Stress Relieving	Stress relieving of fabrications after welding or parts after machining to reduce stress induced from manufacture.	Go Kart frames, Brake Rotors, Crankshafts, Pump Shafts, Impellers	Maximum Size 1100 Dia x 2000 mm

