

# SPECIAL

Automated drilling equipment processes require quality cutting tools that can provide the highest accuracy, maintaining hole diameter, total indicated run out and surface finish (CPK) with the longest possible tool life cycles.



## ADVANCED DRILLING TOOLS

### LOMAS manufacture a complete range of Special Tooling for Automated Drilling Equipment (ADE) processes.

LOMAS Tooling is available in Solid Tungsten Carbide / PCD and High Cobalt Grades of HSS. All are available with through Coolant Feed Holes and various Tool Coatings including CVD Diamond. All cutters are manufactured with special CNC grinding geometry, polished flutes and very high drill point concentricity.

LOMAS currently runs test / trial tooling with many of the world's leading ADE manufacturers. We can design all variants of Special Drills and Drill Countersink tools to machine - CFRP, Aluminium, Titanium and combination material stacks CFRP / Alum, CFRP / Titanium for power-feed drilling / reaming / countersinking applications.

Many power-feed ADE applications require speciality shanks. LOMAS tools are available with any style of shank design requested:

- Tri-Flats / Tanged
- Threaded Shank Tooling
- Hydraulic / Precision
- Heat Shrink

**Spacematic and Drivematic Tooling** - (Automatic / semi-automatic drill riveters) – drilling and countersinking of all types of rivet / bolt holes are achieved in one operation. All cutter diameters and tolerances have been designed to meet requirements of all riveting specifications.

**Nutplate Drill & Countersink Tools** - CNC ground and used in conjunction with Nutplate Drill motors.

**Quackenbush Tooling** - all types of tools used in controlled feed/speed drill motors.

**Taper-lok Drill, Ream & Countersink Cutters** - these special tools consist of a solid pilot and three flutes developed especially to produce finished holes in a single operation: reaming, countersink and producing the blend radius for taper-lok fasteners.

