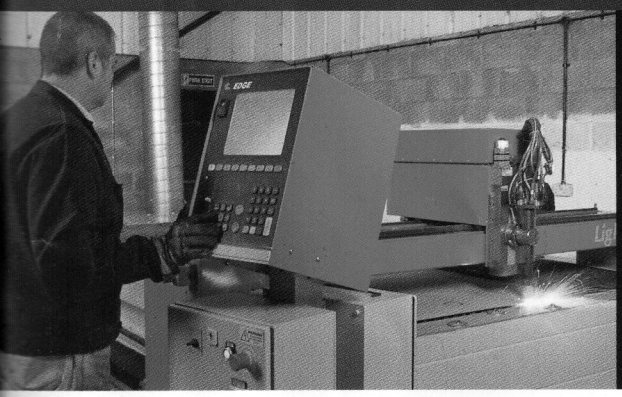
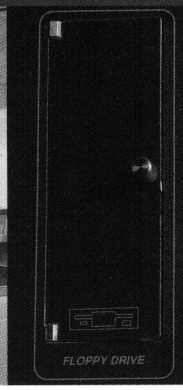
LIGHTNING HD SERIES

PRECISION HIGH DEFINITION CNC PLASMA CUTTING SYSTEMS

- ***Heavy-duty machine tool design - built for hard work.***
- ***Strong, fully machined and fabricated machine bed - accuracy built in.***
- ***Twin hardened and ground machine tool grade linear bearings in both X and Y axes for smooth accurate motion.***
- ***Direct rack and pinion drives in both axes (no belt transmissions) for accurate & repeatable high speed contouring.***
- ***Precision dual-side, dual motor, digitally synchronised rack and pinion X drive for maximum accuracy all over the cutting table.***
- ***Range of single and dual sheet table sizes to suit all standard sheet sizes and applications.***
- ***Heavy duty cutting table surround with roller-ball assisted plate loading to minimise loading/unloading time.***
- ***Sliding mesh bottomed drawers covering cutting area for easy retrieval of small components.***
- ***Powerful & easy to use Windows/PC based CNC***
- ***Full colour high resolution graphics display***
- ***Integral pneumatically controlled segmented fume-extraction cutting table for a clean working environment.***
- ***High power servo drive system giving high speed & acceleration for excellent detail-work and holes.***
- ***Range of plate-marking devices for marking centres, fold-lines, text etc.***
- ***Option of twin-head cutting for high production applications.***
- ***Drag-chain cable/hose handling systems in both axes for long cable/hose life.***
- ***Precision ball-screw driven arc-voltage torch height control with collision protection device.***
- ***Rapid initial height sensing & retract to minimise cycle times.***
- ***Choice of CAD/CAM systems to suit all applications***





The Lightning HD Series Package

The Esprit Lightning HD Series machines are precision built machine tools designed along the same lines as the latest laser cutting machines. Rather than simply add high-definition plasma to an existing machine line, the company set out to design a high-specification machine to fully exploit the potential of high-definition plasma cutting systems. The machine will produce clean, square, dross-free cuts on a wide range of ferrous and non-ferrous metals. Excellent accuracy and repeatability are achieved as a result of the precision linear bearings and drive/transmission components utilised in the machine design. State-of-the-art PC/Windows based CNC technology and high power servo-drives produce high machine axis speeds and accelerations, which enable the Lightning HD to produce high quality metal components at a very competitive price.

Advanced PC/Windows CNC Technology

The Paragon family of CNC units are specified across the entire range of the company's thermal cutting machines. The benefits of PC/Windows based CNC technology are well known in the machine tool business and Esprit is the first CNC cutting machine manufacturer to specify this exciting technology across the entire range of machines. High resolution colour graphics, the familiar Windows interface, fast processor speeds and virtually infinite memory storage are just some of the reasons that Windows based CNC's are the preferred choice. Fast DNC communications speed and instantaneous kerf compensation calculation reduce delays in machine set-up.

Esprit Automation

Esprit Automation is a leading world manufacturer of CNC plasma cutting machinery. Based in Nottingham, England the