The Phantom brings to you the performance of a cutting edge CNC that is built on more than 40 years of experience in the motion control and cutting industries. This CNC is designed for multiple axis cutting machines and features the latest advances in CNC technology on a proven platform engineered to increase productivity, reduce costs and enhance your profitability. Our software provides you with flexibility, ease of use and technologies that put our experience and expertise in your operators' hands, resulting in extremely good cut quality and high productivity.

The Phantom is the latest advancement from the leader in PC-based motion controls. The Phantom features a PC-based platform combined with 2 or 3 axis drives and a plasma-focused operators console mounted within a single integrated cabinet. The Phantom incorporates the latest CNC technology on a proven platform, engineered to increase productivity and reduce costs.

Utilizing Windows® XP Embedded, the Phantom motion control software produces extremely precise and repeatable cut parts. The system contains many software features not found in comparable numerical controls, such as true multitasking and DXF file conversion. The console contains a user-friendly interface for full plasma functionality. The operator's console contains functions for up to 6 oxyfuel stations and 2 plasma stations, along with markers and auxiliary functions.

The Phantom can operate any cutting machine and interface with virtually all plasma systems. It is delivered as a standard package on a new machine or is available as an upgrade to existing machines.

HARDWARE PLATFORM:

- **Interface:** 10.4 in. (264 mm) TFT with USB Touch Screen
- **Processor:** 2.0GHz Intel® Celeron®
- **Memory:** 1GB DDR3 RAM
- **Storage Space:** 40GB or Larger (SATA) industrial grade solid-state hard drive for robust performance
- **Operating System:** Windows® XP Embedded
- **Connectivity Options:** USB, Network Ready (optional)
- **Physical Controls:** 8 Direction Keypad, Start, Stop, Go To, Reverse, and Feed Rate Potentiometer
- **Operators Console Functions for:**
  - 6 Station Selectable Oxy Fuel
  - 2 Plasma
  - 1 Marker
  - High/Low Preheat
  - Water Spray
  - Provisions for Automatic Oxy-Fuel Ignition
  - Provisions for Automatic Height Control
  - Provisions for Plasma Voltage Height Control
  - Auxiliary functions
- **Drive System and Accessories**
  - 2 or 3 axis 250 watt DC drives
  - 2 or 3 axis 400 watt AC drives
  - External drives version available
  - DC and AC motors
  - High accuracy gearboxes
  - Drive system cables
- **Physical Dimensions (H x W x D):** 19 x 17.6 x 16.5 in. (482.6 x 448 x 419 mm)
- **Weight:** 65 lbs (29.6 kg)
- **Input Power Requirements:** 115/230 Auto Switching at 50/60 Hz
- **Operating Environment:** 32 to 122°F (0 to 50°C) 95% humidity (non-condensing)
- **Partial List of Operating Languages:** Swedish, French, Russian, Spanish, Chinese, Italian, Norwegian, German
- **Warranty:** 1 year on controller
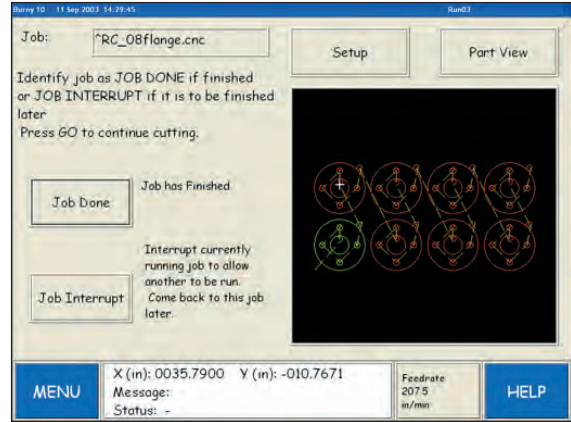- **CE Compliant**

STANDARD FEATURES

Bright Touch Screen Interface
With a 10.4 in. (264 mm) industrial-grade touch screen, the Phantom provides an extremely user-friendly machine interface. The wide viewing angle and high resolution graphics generate a bright display even in the harshest shop floor environment, allowing operators to easily and effectively move through the menus and guide the cutting machine.
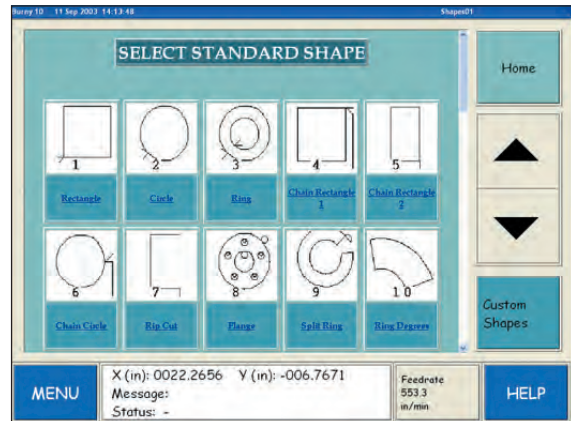

Interactive User Interface

Touch Screen Interactive Display
Eliminate dry runs and confirm the part program before cutting them with the Phantom full color graphic display. View the cut path in real-time and monitor cut progress – especially important with underwater plasma. Use the zoom tools to verify part spacing and eliminate wasted or unusable product.

Expandable Shape Library
Commonly used standard shapes can be designed right at the control. Touch the screen to input the required dimensions and follow a simple logical prompting process. Shapes are graphically displayed with dimension lines to assist the numeric entry process. A dynamic display draws the shape, which reduces guesswork. Now even complex shapes can be made consistently and accurately.

Shapes Library
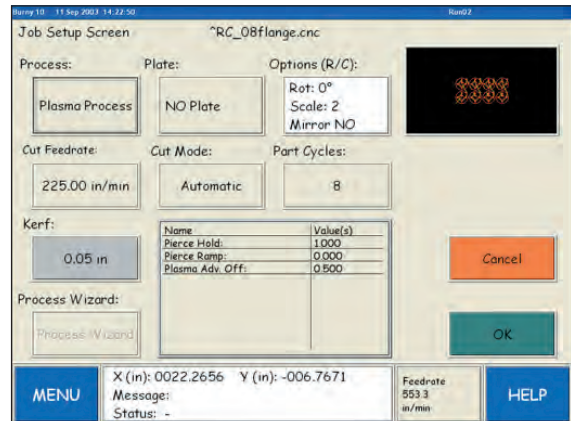
True Multi-tasking Environment
Increase operator productivity by performing many different tasks within the Windows® XP Embedded environment. Load a new part program, create or edit a part program, choose a new part program from the shape library, create or edit a program nest, check production messages, fill out productivity sheets or monitor consumables life – all at the same time and all while the machine is cutting!
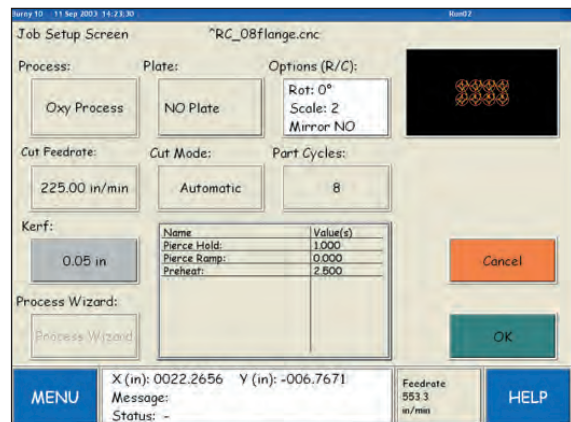
Fast DXF File Conversion
The Phantom accepts direct downloads of CAD/CAM DXF files, which reduces the expense of third-party post processing software. Furthermore, the Phantom can automatically assign Lead In/Lead Out positions – or the operator can make these assignments manually.

Plasma

Go To (Job Interrupt)
Interrupt the current cutting routine to cut a new part, move ahead multiple pierce points, recover from cut loss, recover from power loss, change torch consumables, interrupt a long nest, jump to the end of a part or nest or reverse the cutting path – all quickly done at the touch of a button without losing machine position and without scrapping valuable material.
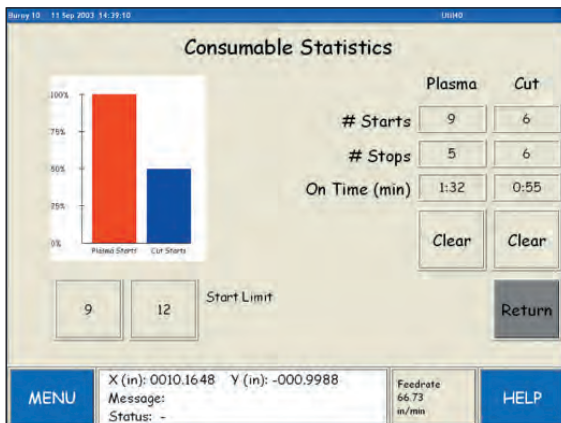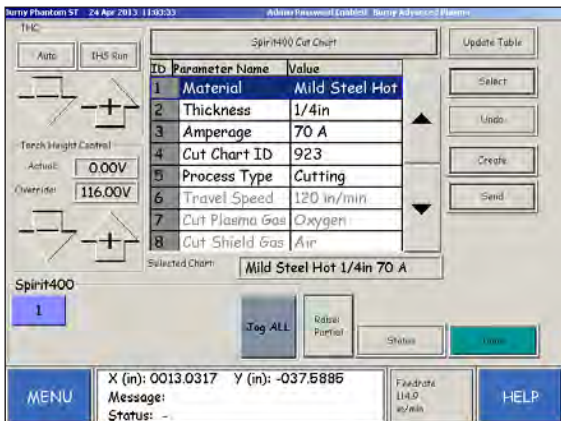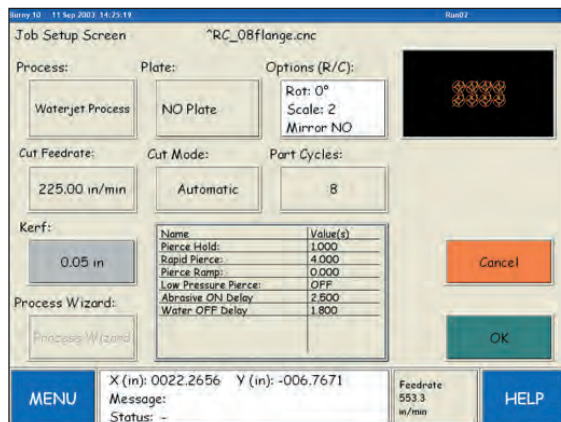

Oxyfuel

Plate Alignment

Monitor Consumables

Process Wizard

Waterjet

STANDARD FEATURES (CONT)

Quick Plate Alignment
Quickly compensate for a plate that is not aligned properly on the machine. The Phantom rotates the part program for the proper placement on the true plate position. With a few simple screen prompts, the Phantom rotates the part program for the proper alignment with the plate. Virtually drop the plate and cut. This saves material and wasted time moving the plate into the correct cutting position.

Monitor and Track Consumables
The Phantom tracks torch consumable usage and can alert the operator when a consumable change is required. This feature will maximize consumable life and torch life. In addition, cut quality and part accuracy can be held to the highest levels.

OPTIONAL FEATURES

Advanced Plasma Process Control (Plasma Process Wizard)
The Advanced Plasma Interface integrates automatic gas regulators and secondary height control boxes (such as Spirit® and INOVA™) into a streamlined, state-of-the-art software package. Instead of walking to the plasma supply, just choose your material, thickness, and consumable type right on the CNC control. Once selected, send your cut chart data to the plasma and cause the plasma supply to change gas pressures and amperage. This interface will bring an end to paper charts and the industry one step closer to near perfect cut quality.

OTHER ADVANCED FEATURES

• Networking via Wireless or Fiber

• Remote Diagnostics

• Automatic DWG/DXF CAD file conversion

• 10-minute Quick System Recovery

• Job Interrupt and Power Loss Cut Recovery

• Standard Shapes Library

• Programmable Laser Offset for Fast Part Alignment

• Load other 3rd party program/application software

• Easy to Configure Mappable I/O

Other Windows® XP Embedded Features

The Phantom utilizes Windows® XP Embedded, which provides the ability to take advantage of several productivity tools, including remote desktop and USB (Universal Serial Bus) devices. Remote desktop provides the ability to access and operate a remote computer from the Phantom while USB memory devices provide easy program transfer at the fastest download speeds available.

True Shape Nesting (optional)

Take advantage of our newly designed "on-board" true shape embedded nesting program to further reduce individual part cost and improve plate utilization. This nesting module offers the machine operator a Wizard-based interface along with an integrated CAD editor that makes nesting on the controller easier and more efficient than competitive controllers.

Remnant Digitizing (optional)

Reduce remnant inventory by giving your operator the ability to trace remnants via the CNC and nest parts into partially used plates.

UltraSharp
precision in shape cutting

The Phantom control platform comes ready to optimize hole cutting with minimal operator intervention when using our latest UltraSharp™ cutting technology. We achieve this capability by offering a completely integrated platform consisting of our CNC/Height Control/Software & Plasma System that offers a reliable and single sourced cutting solution.

Our 40 years of shape cutting experience helps us produce the industry's most consistent hole quality for mild steel and stainless steel at various thicknesses. This advanced technology requires no operator expertise or intervention to get the UltraSharp quality holes.

Windows is a registered trademark of Microsoft Corporation in the United States and other countries

Precision in Shape Cutting.

Designed and manufactured in the U.S.A. To experience the ease of use and advanced features available in our software, contact our local sales representative for a demo version.

CUSTOMER ASSISTANCE POLICY

The business of Burny Kaliburn is manufacturing and selling high quality cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Burny Kaliburn for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular application. Accordingly, Burny Kaliburn does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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Subject to Change – This information is accurate to the best of our knowledge at the time of printing. Please refer to www.burnykaliburn.com for any updated information.

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