

Phantom™ II

BURNY® SHAPE CUTTING CONTROLLER

The advanced Phantom II CNC shape cutting controller is designed for use with multiple axis cutting machines. It features an operator console that contains full plasma functionality for 2 plasma stations, up to 6 oxyfuel stations, a single marker and auxiliary functions. The Burny 8 software which runs on a Windows® 8 Embedded Operating System (OS), provides improved flexibility and ease of use for the operator. The end result is excellent cut quality and high productivity.

The Phantom II controller features –

- Operator console that contains full plasma functionality, up to for 2 plasma stations, up to 6 oxyfuel stations, a single marker and auxiliary functions.
- Choose between integrated AC drives, DC drives or external drive interface configurations.
- New PC platform with advanced multi-core processor technology combined with standard 3 axis drives. Faster processing capability enables advanced CNC features and improves the user experiences.
- Touchscreen display with new intuitive user interface that is easy to learn and improves operator productivity.

Utilizing the proprietary motion engine, the Phantom II 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.

Adaptable to any cutting machine and virtually all plasma systems, the Phantom II system is a rugged, reliable and easy to use shape cutting controller that fits your application requirements on new machines or as an upgrade on your old cutting machine.



HARDWARE PLATFORM:

- **Display:** 15 in. industrial TFT USB Touchscreen
- **Processor:** 2,26 GHz Intel® Core™ 2 Duo Mobile
- **Memory:** 2 GB DDR3 RAM
- **Storage Space:** 40 GB or Lager (SATA) industrial grade solid-state hard drive for robust performance
- **Operating System:** Windows® 8 (Embedded)
- **Connectivity Options:** USB, Wireless Standard
- **Physical Controls:** 8 Direction Keypad, Start, Stop, Go To, Reverse, and Feed Rate Potentiometer
- **Operators Console Functions for:**
 - 6 Station Selectable Oxyfuel
 - 2 Plasma
 - 1 Marker
 - High/Low Preheat
 - Water Spray
 - Provision for Automatic Oxyfuel Ignition
 - Provision for Automatic Height Control
 - Provision for Plasma Voltage Height Control
 - Auxiliary Functions
- **Drive System and Accessories**
 - 3 axis 250 watt DC drives
 - 3 axis 400 watt AC drives
 - External drive interface versions available
 - AC and DC motors
 - High accuracy gearboxes (optional)
 - Drive system cables (optional)
- **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**



EASE OF USE



Improved User Experience
New intuitive graphical user interface features optimized screen to screen navigation, drop down menus, easy access panel for torch height control, Shapes Setup and Job Set up menus.

Fast DXF File Conversion
Phantom II system accepts direct downloads of CAD/CAM .dxf files, which eliminates the expense of third-party post processing software. Furthermore, the Phantom II can automatically assign Lead In/Lead Out positions – or the operator can make these assignments manually.

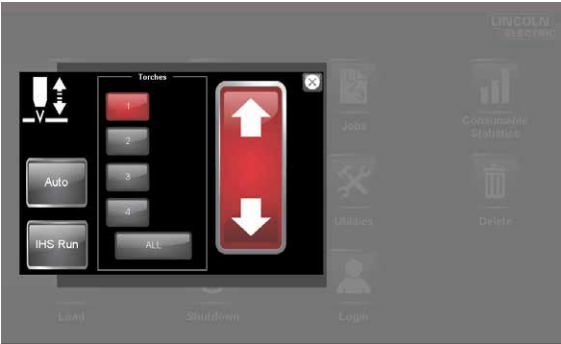
Go To (Job Interrupt)
Interrupt the current cutting routine to cut a new part, move ahead multiple pierce points, recover from cut loss, recover from power loss, change torch consumables, interrupt a long nest, jump to the end of a part or nest or reverse the cutting path – all quickly done at the touch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

Quick Plate Alignment
Quickly compensate for a plate that is not aligned properly on the machine. The Phantom II controller rotates the part program for the proper placement on the true plate position. With a few simple screen prompts, the controller 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.

Plasma Process Wizard for Advanced Plasma Process Control
Using the wizard to manage on/off controls of the plasma system saves the operator initial repetitive set up time. Factory loaded cut charts or custom cut charts give you the ability to cut like an expert by simplifying the job setup to only a few steps of choosing your material type and material thickness on the CNC. Once selected, send your cut chart data to the plasma system and begin cutting in minutes. Using the process wizard, easily change the torch height control settings to optimize the cut quality.



Main Screen



Torch Height Control (THC) Panel



Utilities Menu



Job Set-Up



Integrated Spirit Console



Monitor Consumables



Shapes Library



On-Board Operator Manual

OPERATOR PRODUCTIVITY

Integrated Spirit® II Module

Burny 8 includes an integrated Spirit II plasma console, which bypasses the need for multiple screens and enables the operator to control the plasma cutting process via a single controller and a single user interface.

True Multitasking Environment

Increase operator productivity by performing many different tasks within the Windows 8 OS (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.

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.

Consumable Statistics Screen

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

Ultra Nest™ (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.

UltraNest Remnant Module (optional)

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

Programmable Laser Offset for Fast Part Alignment

Easy to Configure Mappable I/O

On-Screen context based operator manual

Multi-language support

RELIABLE

- Designed and built for harsh industrial environments
- Quick System Recovery
- Internal air cooling with complete cabinet seal to protect electronics from metal dust
- Job Interrupt and Power Loss Cut Recovery
- Solid State Hard Drive

PRODUCT SPECIFICATIONS

Product Name	Product Number	Input Power	Operating Environment	H x W x D in. (mm)	Net Wt. lbs. (kg)
Phantom II with AC Drives	BK1250-100100	115-230 Auto Switching at 50/60 Hz	32 to 122°F (0 to 50°C) 95% humidity (non-condensing)	22,2 x 17,6 x 14 (563,8 x 447 x 355,6)	55 (24,9)
Phantom II with DC Drives	BK1250-100108	115-230 Manual Switching at 50/60 Hz		22,2 x 17,6 x 17,5 (563,8 x 447 x 444,5)	70 (31,8)
Phantom II with External Drive Interface	BK1250-100111	115-230 Auto Switching at 50/60 Hz		22,2 x 15,8 x 14 (563,8 x 401,3 x 355,6)	43 (19,5)

EASY TO INSTALL AND SERVICE

- Remote Diagnostics – Our service engineers can train operators, set up or configure the system or even help troubleshoot the system using online remote diagnostics tool.
- On Screen Drive Tuning of integrated servo drives to optimize motion control accuracy.
- Easy and complete access to internal components.

UltraSharp precision in shape cutting ULTRASHARP™ HOLE TECHNOLOGY

The Phantom II 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.

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.

*Windows is a registered trademark of Microsoft Corporation in the United States and other countries.
Intel and Intel Core are trademarks of Intel Corporation in the United States and other countries.*

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 The Lincoln Electric Company® is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask

Lincoln Electric 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 weldment. Accordingly, Lincoln Electric 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.

Lincoln Electric is a responsive manufacturer, but the selection and use of specific products sold by Lincoln Electric is solely within the control of, and remains the sole responsibility of the customer. Many variables beyond the control of Lincoln Electric affect the results obtained in applying these types of fabrication methods and service requirements.

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



United States

4130 Carolina Commerce Parkway
Ladson, SC 29456
P: +1 843 695 4000
F: +1 843.795.8931
E-Mail: LECSales@lincolnelectric.com

EUROPA

(Europa, Afrika, Nahost, Australien, Neuseeland)
Werkstraße 5
D-64732 Bad König, Germany
P: +49 6063 57721-0
F: +49 6063 57721-35
E-Mail: BurnyKaliburn.Sales@lincolnelectric.eu

ASIEN/PAZIFIK

P: +65 98189670
F: +65 65661173
E-Mail: BurnyKaliburnSales_ASIA@lincolnelectric.com

INDIEN

Plot No P40, Central Avenue, Domestic Tariff Area,
Mahindra World City, Post Office
Chengalpattu, Kancheepuram District
P: +91 44 47 424 999
F: +91 44 47 424 888
Mail: BurnyKaliburnSales_INDIA@lincolnelectric.com

www.burny.com