



# ITT

## BURNY

# 10LCD PLUS PC-based Controller



The most advanced technology in PC-based controls for maximizing productivity, improving quality, and reducing costs!

# BURNY 10LCD Plus

The BURNY 10LCD Plus has taken the next step in PC-based motion control. Designed for multiple axis cutting machines, the Plus features the latest advances in CNC technology on a proven platform, which is engineered to increase productivity and reduce costs.

The Plus is an industrial grade PC, designed to operate in extreme shop environments where temperature and humidity extremes, metal dust, RF radiation, vibration, and constant machine movement are commonplace. It is easy to learn, easy to use, and allows multiple control and programming tasks to be completed simultaneously.

With a Windows® XP Embedded operating system, the BURNY 10LCD Plus produces extremely precise and repeatable motion control. The results are clear-the highest accuracy and the tightest tolerances-even on the most complicated parts.

The BURNY 10LCD Plus can operate any cutting machine and interfaces with virtually all processes including: oxyfuel, plasma, laser, waterjet, routers, punches, drills, knives, and markers. It is available as an upgrade to existing machines or can be delivered on a new machine. Backed by Burny's extensive staff of experienced in-house engineers and service technicians, the Plus is ready to perform in your shop today!

As the premier member of the Burny family of numerical controls, the Plus continues a 30-year history of improving productivity and increasing profits worldwide. This rich history and extensive knowledge-base uniquely positions Burny to be your total solutions provider; whether you need drive systems, AC and DC motors, gearboxes, or torch stations and height control systems. Demand Burny by contacting us today to learn more about the value that only Burny can provide.



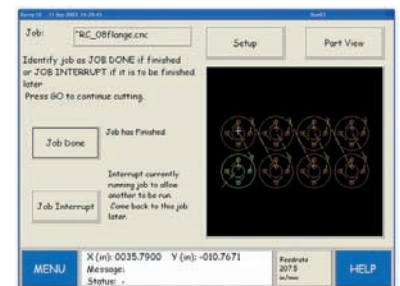
## STANDARD FEATURES

### Large, Bright Touch Screen

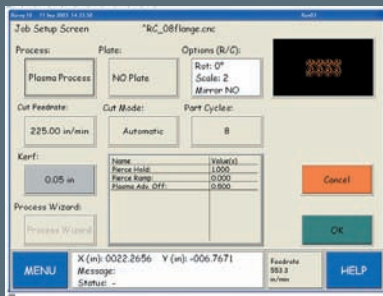
With a 15" (381 mm) industrial-grade touch screen, the Burny 10LCD Plus provides an extremely user friendly machine interface. The wide viewing angle and high resolution graphics generate a bright display even in the harshest shop floor environment, allowing operators to easily and effectively move through the menus and guide the cutting machine.

### Full Color, Interactive Graphic Display

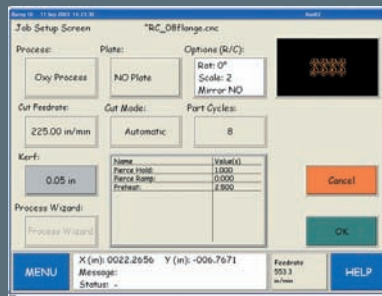
Eliminate dry runs and confirm the part program before cutting them with the Burny 10LCD Plus's full color graphic display. View the cut path in real-time and monitor cut progress (especially important with underwater plasma). Use the zoom tools to verify part spacing and eliminate wasted or unusable product.



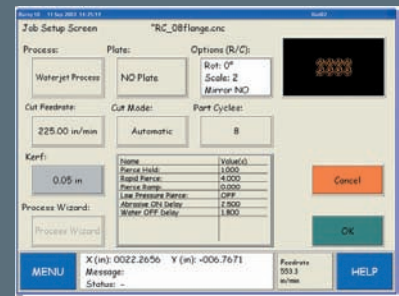
Full color Graphics



Plasma



Oxyfuel



Waterjet

## Burny CAP \*1 (Custom Application Program) - optional

Burny CAP is a soft programmable logic controller (PLC) that can be built into the Burny 10LCD Plus control to provide maximum expandability. The HMI is customizable for multiple screens and replaces the need for an external PLC. Replace expensive custom PLC touchscreens with Burny CAP for a truly integrated product. The Burny 10LCD Plus communicates with the most popular ethernet modules, has I/O and drive connectivity and supports multiple interfaces simultaneously making it the most flexible CNC platform on the market today.

## Advanced Plasma Process Control \*2 - optional

The Plasma Process Wizard integrates automatic gas regulators and secondary height control remotes into a streamlined, state-of-the-art software package. Simply choose your material, thickness, and amperage right at the Burny. By sending the cut chart data to the plasma power supply from our embedded material database, all of the appropriate gas pressures, feedrates, and kerf values are adjusted to the perfect setting for that type of material making you an instant expert in plasma cutting.

## Advanced Command Messaging (ACM) - optional

Superior hole capability and fully automatic plasma control is the result of Burny's Advanced Command Messaging. ACM is a series of messages that are embedded into a part program to create on the fly plasma and job setting changes. These changes can mean the difference between a good hole or bad hole and long or short consumable life.

## Fast DXF/DWG File Conversion

The Burny 10LCD Plus accepts direct downloads of CAD files, which reduces the expense of third-party post processing software. Furthermore, the Burny 10LCD Plus can automatically assign Lead In/Lead Out positions or the leads can be assigned in the drawing.

## Advanced Nest Navigation

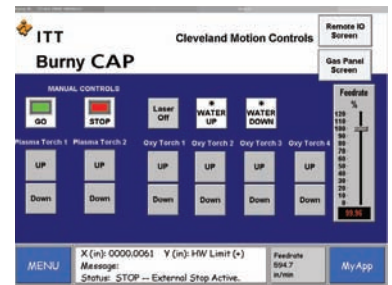
Interrupt the current cutting routine to cut a new part, move ahead multiple pierce points, recover from cut loss, recover from power loss, change torch consumables, interrupt a long nest, jump to the end of a part or nest, reverse cutting path—all quickly done at the touch of a button without losing machine position and without scraping valuable material! Up to 18 programmable home positions can be used for multiple cutting tables, part start locations, consumable change areas, or remote park positions.

## True Multitasking Environment

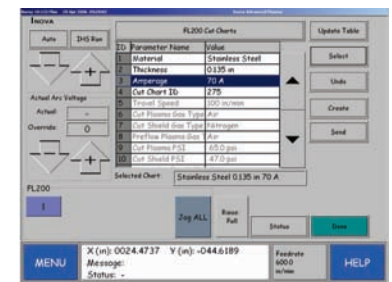
Increase operator productivity by performing many different tasks within the Windows® XP Embedded environment. Load a new part program, create or edit a part program, choose a new program from the shape library, create or edit a program nest, check production messages, fill out productivity sheets, monitor consumables life—all at the same time and all while the machine is cutting!

## Axis Compensation - optional

Add Axis Compensation to your Burny 10LCD Plus to remove gearbox backlash and repeatable mechanical errors in all axes including bridge bow. Reverse Axis Compensation can further increase your machine repeatability removing virtually all mechanical errors.



Burny CAP 1



Plasma Process Wizard 2



Plasma Consumable 2



Shapes Library



## 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
- 50 Standard Shapes
- Programmable Laser Offset for Fast Part Alignment
- Load other 3rd party program/application software

## TRUE SHAPE NESTING (optional)

True shape embedded nesting increases flexibility and productivity in the Burny 10LCD Plus control.

## PRODUCTIVITY TRACKING (optional)

An embedded productivity tracking utility allows companies to monitor the actual productivity of the machine by a network connection. This feature can help identify bottlenecks on the shop floor.

## **HARDWARE PLATFORM**

- Interface: 15" TFT USB Touch Screen
- Processor: 1.8 GHz Intel® Pentium® M
- Memory: 1 GB
- Operating System: Windows® XP Embedded
- Storage Space: 80 GB (SATA 3.0) Hard Drive
- Connectivity: USB, Networking (optional)
- Physical Controls: 8 Direction Keypad, Start, Stop, Go To, Reverse, and Feedrate Potentiometer (optional)
- Enclosure: High Temperature and Humidity, Metal Dust, RF resistant (plasma), vibration/movement. Contain high voltage/high current outputs for plasma, waterjet, oxyfuel and other processes.
- Physical Dimensions: 18.3" (465 mm) wide, 14" (356 mm) high, 12" (305 mm) depth
- Weight: 32 lbs (14.5 kg)
- Power Required: 115/230 VAC @ 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, and German
- CE Compliant

## OTHER WINDOWS ® XP EMBEDDED FEATURES

The Burny 10LCD Plus 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 Burny 10LCD Plus while USB memory devices provide easy program transfer at the fastest download speeds available.

## KALIBURN Companion Products

(KALIBURN is now part of ITT Corporation)



"When others fall short, the Spirit lives on," delivering virtually dross free cuts with minimal cut face beveling ( $\leq 2^\circ$ ). Whether cutting gauge thick steel with exceptional edge quality, precisely cutting 1" (25.0 mm) steel at 85 IPM (2.2 MPM) or processing 2" (50.0 mm) steel at speeds that make other processes look obsolete, we have a system for you.

The KALIBURN INOVA includes a fully-programmable microcontroller, complete with interfacing for 8 torch stations. Program as few as 3 functions and you're up and running. You get precision and stability for all plasma cutting, including high current density applications. It offers a state-of-the-art anti-collision system to protect the torch, and an optional remote control with touchscreen to give you greater flexibility. The INOVA can be fully integrated into the ProLine gas console, greatly simplifying installation.



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