

APC59-T :
guaranteed accuracy and reliability

Speed and reliability

Driven by high-performance, PC-based hardware, the APC59-T allows very fast processing of data and highly accurate calculation of plasma burning operations.

Combined with a HACO KOMPAKT series plasma burner, the APC59 (T) represents a most desirable system for demanding, high-precision and high-volume sheetmetal productions.

Some features

- 15" color TFT display (touch panel)
- High-performance PC-based hardware
- Windows®-type user interface
- Touch panel
- Unlimited number of programs
- Graphical simulation of the production
- Mm or Inch
- Network support
- 3½" floppy disk drive
- Language support

Intuitive control

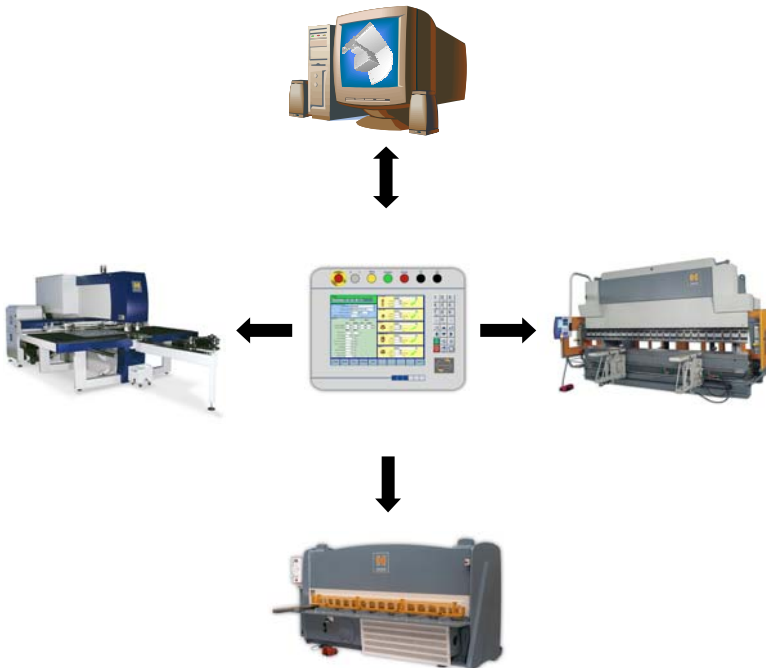
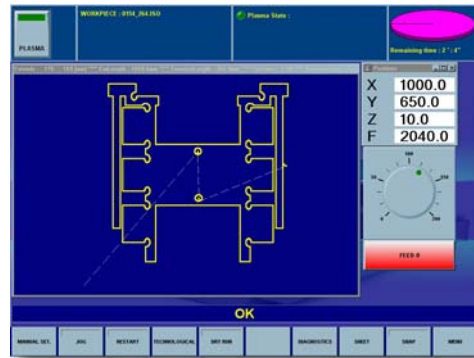
The touch panel effectively reduces the number of keyboard- and button actions to an absolute minimum, allowing the user a straightforward, intuitive control of the entire production cycle. The APC59 is however also available without touch panel (standard TFT).



RoboTorch

The highly advanced software "RoboTorch" raises the bar for other plasma software on the market.

The simple layout of the user-interface allows direct access to the desired functions, thus creating optimum operator convenience.



Network support

The APC59-T can easily be connected to any new or existing network, resulting in easy data transfer (programs) and machine monitoring between the control and one or multiple PCs. Access to the control is possible from anywhere in the network.

The extensive networking even allows communication between the press brake and other sheetworking machines, such as punching machines, plasma cutters and guillotine shears.

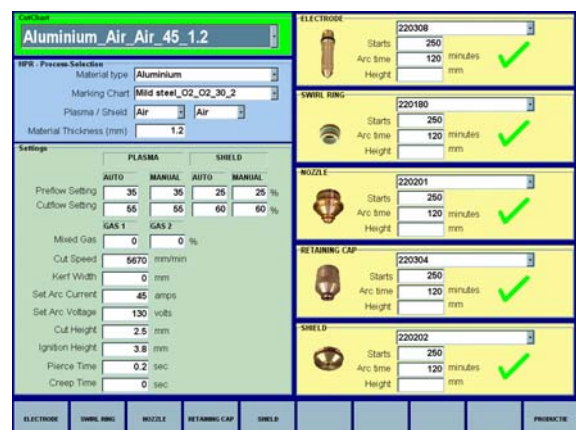
Cut charts

Depending on the specific production requirements, the appropriate cut chart (plasma technology) can be chosen within seconds.

The software then automatically displays the correct consumables for an efficient plasma head setup.

RoboTorch even keeps track of the lifecycle of the consumables, letting the operator know when a certain consumable is nearing the end of its use.

This way new consumables can be ordered in time.



Detailed specifications

APC59-T

- High-performance PC-based hardware
- Windows XP® embedded OS
- 15" color TFT touch panel display
- 1024 x 768 pixels
- Front panel protection cover
- Power activation and emergency stop integrated on the control panel
- Integrated plasma source control and safety control
- Possible interfacing with manual and automatic plasma sources
- Air evacuation control
- Multi-axis X/Y1/Y2/Z contour control
- 3½" floppy disk drive or optional USB interface

RoboTorch features

- Unlimited number of programs
- Extensive program management via harddisk, floppy or network
- Real-time feed adjustment
- Plasma state readout
- Arc voltage readout
- Workpiece info
- Time calculation
- Jogging
- Manual or automatic referencing
- Assign new home-position
- Snap to path function
- Dry run (cutting path test without actual burning)
- Technology selection via editable cut charts
- Monitoring of consumable lifespan
- Manual settings for overriding cut chart
- System diagnostics
- Plate function for program positioning in relation to the table
- Automatic or manual torch-height control

Other features

- Network connection
- Mm or Inch
- Parameters
- Diagnostics and service routines
- Language support
- Manual (English or native language)
- Optional personalized front cover
- Lifelong servicing

Electrical specifications

- **Power supply** : 24V DC $\pm 25\%$ + 2 x 15V AC
- **72 digital inputs** (24V DC $\pm 25\%$)
 - axis limits
 - axis reference
 - securities
 - status detection
 - etc.
- **72 digital outputs** (24V DC / 1A)
 - enable DC axis
 - hydraulic/pneumatic functions
 - plasma enable
 - fume evuation
- **8 analog inputs** (0 \rightarrow 5 V DC)
 - arc voltage
 - etc.
- **8 analog outputs**
 - speed control DC axis (0 \rightarrow $\pm 10V$)
 - etc.
- **8 incremental encoder inputs** (5 \rightarrow 24V DC / 25 kHz)
- **Encoder specs**
 - push / pull (back gauge) / 5V or 12V power supply
 - no symmetric channels required (A-B-Ref)
 - 1 repulse per revolution/length
 - examples of supported encoders :
 - Hohner, Pepperl & Fuchs : type 100 I ; 81-06331-100-Y96321
 - type 500 I ; 81-06331-500-Y96714 (5)
- **Electrical connections**
 - Easy plug connection
 - According to attached connector layout
 - Wiring and application of controller must be performed according to the current EMC regulations (EN-61000-4)