

Apollo 2 & 3

BAR CODE LABEL PRINTERS
BY THARO SYSTEMS



**A STAND-ALONE PRINTING STATION...
NO COMPUTER ATTACHED**

If you're concerned about the additional cost of a computer, saving work space, harsh environments for computers and training "computer" operators, then "cut the cord" from your computer with the APOLLO!

USE YOUR COMPUTER ONCE, AND SEND APOLLO ON ITS WAY!

The new APOLLO from Tharo Systems is the first printer that lets you download a label format, or even graphics and a database, to an **optionally installed**, industry-standard PCMCIA card, disconnect the printer from the PC and take it to a new location. Using the printer's front panel or a standard computer keyboard, you can input data, specify the number of labels to print, and merge database information into your format...all without the PC attached! You achieve greater security as well because a format downloaded to the PCMCIA card cannot be altered without re-attaching the printer to a PC.



...design your labels ... download to optional PCMCIA card



...use the printers front panel ... or standard keyboard

specify the number of labels to print, and merge data base information into your format...all without the PC attached!



APOLLO HAS 3 SCALABLE INTERNAL TYPEFACES

While most label printers offer 1 resident scalable font or none at all, the APOLLO features 3 printer-resident scalable typefaces! All Western and Eastern European Latin characters are also resident in the APOLLO. Greek and Cyrillic are not resident, but can be printed as TrueType fonts.

INTERNATIONAL OPERATION

Ideal for international companies, the back-lit LCD display provides quantity count down, printer configuration, status messages, data input and operator prompts in English, German, French, Italian, Spanish and Finnish!

EASY RIBBON & LABEL LOADING

Easy side-loading design eliminates tiresome media threading.



YOU WON'T FIND APOLLO ANYWHERE ELSE

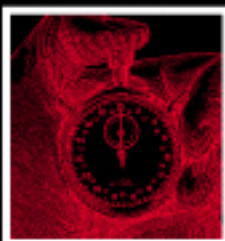
APOLLO is the result of a technical joint venture between Tharo Systems, Inc., of the United States and CAB of Karlsruhe, Inc., of Germany, and our combined knowledge of engineering and manufacturing high quality labeling products.

IMPECCABLE PRINT QUALITY

Works with all the available TrueType fonts and most Windows graphic formats so you can create dramatic labels with impeccable graphics and print quality. APOLLO supports PCX, IMG, BMP, GIF, TIF and MAC graphic formats!

EASY PRINTHEAD MAINTENANCE

Printhead leveling, adjustment, cleaning and replacement are a snap!



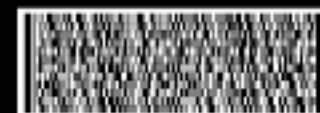
HIGH-SPEED 32 BIT PROCESSOR...2MB RAM!

APOLLO is faster, with much more standard RAM than any label printer...ideal for downloading TrueType fonts or graphics.

RUGGED CONSTRUCTION

Ruggedly constructed with a sleek, heavy-duty metal case, APOLLO is built for dependable performance under demanding conditions.

SUPPORTS ALL POPULAR BAR CODES



Supports all the popular bar codes, including UPC/EAN, Code 39, Code 128 and Interleaved 2 of 5, and as well as two-dimensional symbologies like PDF417.

FLEXIBLE SENSOR DESIGN

The moveable "see through" or reflective sensor is ideal for sensing any type of media, including tag stock with a black sensing mark, circles and ellipses.

APOLLO WORKS GREAT ATTACHED TO YOUR COMPUTER TOO!

For systems integration APOLLO is one of the easiest to interface printers in the world. Serial up to 57,600 baud, Centronics® parallel and RS-485 networking interfaces are all built-in to the APOLLO. These interfaces, along with the fact that the APOLLO programming language requires no control characters, allows interfacing with virtually any system including minis, mainframes and UNIX.

OPTIONAL INTERNAL REWIND

Our patented mechanism for attaching label media to the internal rewind is faster and easier than any internal rewind you've ever used!

INTERNAL CLOCK

For time/date stamps on labels.

ADDING ON OPTIONS HAS NEVER BEEN SO EASY!

Unlike many printers, adding options like a tear plate, cutter, external rewind and present sensor is extremely easy with the APOLLO. A simple turn of a lever is all that is required.



SUPERIOR ENGINEERING

APOLLO was designed with fewer moving parts and long-term advantages. For example, the print head and other user serviceable parts are far less expensive to replace than comparable printers, so long term costs are lower. Have your technicians check out APOLLO...they will appreciate its' superior engineering!

PRINT ON ALL TYPES OF LABEL MEDIA

Thermal/thermal transfer roll-fed, die-cut, continuous or fan-fold labels, tags or tickets on standard 8-inch diameter rolls. Print labels on a variety of materials including polyester, mylar, vinyl, polypropylene and tamper-evident label stock.



Apollo 2 Features

Printing Speed: 2" (50mm) - 8" (200mm) per second
Resolution: 300 dots per inch (12 dots/mm)
Bar Code Narrow Element: 3.3 mil minimum "X" dimension in picket fence or ladder orientations
Print Width: 4.2" (108mm) max.
Print Height: .25" (6mm) min.; 21.5" (546mm) max.
Media Width: .5" (12mm) min.; 4.5" (114mm) max.
Media Sensing: "See-through" for die-cut labels; top and bottom reflective for black stripe sensing; horizontally adjustable from .12" (3mm) to 2.20" (56mm)
Processor: 32-bit, Motorola MC 68332
Fuses: 6.3 AT (at 115V) or 3.15 AT (at 230V)
Weight: 37 lbs. (16.6 kg)

Apollo 3 Features

Printing Speed: 2" (50mm) - 5" (125mm) per second
Resolution: 203 dots per inch (8 dots/mm)
Bar Code Narrow Element: 5 mil minimum "X" dimension in picket fence or ladder orientations
Print Width: 4.09" (104mm) max.
Print Height: .3" (8mm) min.; 37.2" (945mm) max.
Media Width: .6" (15mm) min.; 4.5" (114mm) max.
Media Sensing: "See-through" for die-cut labels; bottom reflective for black stripe sensing; horizontally adjustable from .12" (3mm) to 2.20" (56mm)
Processor: 32-bit, Motorola MC 68322
Fuses: 3.15 AT (at 115V) or 1.6 AT (at 230V)
Weight: 30 lbs. (13.6 kg)

Apollo 2/3 Specifications

Printer Type:

Direct Thermal/Thermal Transfer

Media Type:

Roll-fed, die-cut, continuous or fan-fold labels, tags or tickets;
most direct thermal or thermal transfer materials

Media Thickness:

.0024" to .01" (.06 to .25mm)

Supply Roll:

8" (200mm) maximum outside diameter on cores from 1.57" to 3" (40mm to 75mm)

Ribbons:

1" (25mm) core diameter with 3" (75mm) outside diameter;
1182" (360m) maximum length; industry standard widths

Bar Codes:

UPC/EAN add on 2 digit	JAN 8
UPC/EAN add-on 5 digit	JAN 13
Code 39	MSI
Code 93	Plessey
Code 128 A, B, C	PDF417
Codabar	UPC A
EAN 8	UPC E
EAN 13	POSTNET
EAN 128	RM
HIBC	UCC 128
Interleaved 2 of 5	

Fonts:

5 Bitmap fonts included; OCR-A, OCR-B
3 Scalable Fonts (Speedo) available internally
Accepts downloaded Speedo and TrueType typefaces

Character Set:

IBM Code Page 850/852
EBCDIC, ISO 8859-1, Macintosh
All West and East European Latin characters are available

Character Size:

.04" (.9mm) - 5.04" (128mm)
The width and height of scalable font characters are infinitely adjustable.
Bitmap fonts expandable vertically and horizontally up to 10x.

Character Attributes:

Reverse, Bold, Italic, Underlined and Outline

Print Direction:

Bitmap fonts and Bar Codes: 0°, 90°, 180°, 270°
Scalable fonts: 360° in 1° increments

Graphic Formats Supported:

PCX, IMG, BMP, TIF, GIF and MAC files.

Graphic Objects Available:

Line, Box, Circle and Ellipse

Control Panel:

Backlit LCD with 2 lines of text, 16 characters each.
Used for Messages, Printer Configuration and displaying prompts for stand-alone printing (Must have optional PCMCIA Memory Card for stand-alone printing)
Configuration options allow for the display of messages in the following languages:
English, German, French, Italian, Spanish and Finnish.
4 function keys with LEDs

Peripheral Port:

15-pin Sub-D socket for optional Cutter or Present Sensor / Peel Edge

Memory:

Internal RAM 2MB

Time and Date: Standard

Interface:

Serial:	RS-232 C	1200-57600 Baud
	RS-422, RS-485	1200-57600 Baud
Parallel:	Centronics®	

Networking:

With RS-485, daisy-chain up to 26 printers off one RS-485 network card

Power Source:

Switchable between 115V 60 Hz or 230V 50 Hz

Environmental:

Temp 50-95°F (10-35°C) at 10-85% humidity

Dimensions:

10.6"H x 9.8"W x 18"D (270H x 250W x 456D mm)

Agency Listings:

Built to TUV-GS and CE safety standards;
complies with FCC Class A emissions standards

OPTIONS

EASYLABEL® Software:

Stand-alone label creation software package for IBM-PC® or compatibles running Microsoft Windows. Provides extensive, advanced label formatting functions.

PCMCIA Memory Card:

Max. 4Mbyte, SRAM, Flash or One Time Programmable Cards
for storing downloaded formats for stand-alone printing

Keyboard Adapter:

Adapter for plugging an external keyboard into printer for stand-alone printing.
(Must have the optional PCMCIA Memory Card installed).

Internal Rewinder:

1.57" (40mm) core diameter; roll diameter up to 5.71" (145mm)

Rewind Guide Plate:

Internal rewinding is made possible with the APOLLO 2/3 by using the rewind guide plate to control the path of the label material.

External Rewinder:

1.57" (40mm) standard core; 3" (75mm) core adapters included;
Roll diameter up to 8" (200mm)
Can rewind labels inside or outside

Present Sensor / Peel Edge:

Used for on-demand label dispensing;
connects to 15-pin peripheral port for control and power
Cutter:

Maximum media thickness .01" (.25mm);
connects to 15-pin peripheral port for control and power

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APOLLO

BY THARO SYSTEMS

Box 798 Brunswick, OH 44212-0798 USA • 800-878-6833 • 330-273-4408
FAX 330-225-0099 • www.tharo.com/tharo/ • E-Mail: tharo@tharo.com



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