

DATA SHEET

1600 Futura

Pattern Plotter Cutter

All-in-one pattern plotter cutter for printing, cutting, and perforating paper patterns.



64 in

PLOTTING &
CUTTING WIDTH

50 yd²/hr

PLOTTING SPEED
42 m²/hr

15 yd/hr

CUTTING SPEED
14 meters per hour

1/100 in

MECHANICAL
ACCURACY

TECHNICAL SPECIFICATIONS

AVAILABLE MODELS

49" (1200 Futura) / 64"
(1600 Futura)

CARDBOARD FIXING

Suction + roller device

INK TYPE

HP #45 black ink
cartridges

PLOTTING AND CUTTING WIDTH

64 inches

SENDING PAPER SYSTEM

Auto-sending, servo
motor, closed loop
control system

OPERATING SYSTEM

Windows (98, 2000, NT,
XP, 7, 8, 10, 11), Mac (via
Parallels)

PLOTTING SPEED

50 yd²/hr (42 m²/hr)

PLOTTER CONTROL SOFTWARE

Velocity Control Center

OPERATING POWER

110V/220V optional

CUTTING SPEED

15 yd/hr (14 meters per
hour)

FILE FORMAT

HPGL / HPG / PLT

NET WEIGHT

208 lb

PLOTTING DEVICE

HP45 cartridge

CONNECTIVITY

USB 2.0 or LAN
(Ethernet)

MACHINE DIMENSIONS

92" x 24" x 40"

CARTRIDGE CUTTING DEVICE

Alloy Knife

MECHANICAL ACCURACY

1/100 of an inch

ENVIRONMENT

Temperature 10°C–30°C,
Humidity RH 15–85% (No
condensation)

PAPER SPECIFICATIONS

Recommended paper

RECOMMENDED PAPER	Pattern Paper (Manila/Tag), Kraft/Brown Paper, and Plotter Paper
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RECOMMENDED WIDTHS	55", 60", 63", and 66"
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PAPER CORE	3-inch tube
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PAPER WEIGHT

Manila/Tag Pattern Paper	100# – 120# – 150#
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Kraft/Brown Paper	40# – 50#
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Plotter Paper	35#
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Values shown are basis weight.

RIGID MATERIALS

For rigid materials

This model handles paper only. For cardboard, vinyl, PVC, or industrial textiles, see the Velocity Flatbed Cutter.

SOFTWARE & CAD COMPATIBILITY

Compatible CAD software

Gerber AccuMark	Optitex	
Audaces	TukaTech	
PAD System	StyleCAD	Lectra
Vetigraph	Crea	

SUPPORTED FILE FORMATS

.PLT	.HPG	.HPGL
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Any CAD or pattern-making software may be used, provided that it can export files in .PLT, .HPG, or .HPGL format, which are compatible with the plotter for printing.

If your software cannot export those formats and can only export DXF or DWG files, Velocity Plotters & Cutters offers a conversion program that converts DXF, DXF-AAMA, or DWG files into .PLT or .HPGL format, creating a secure, plotter-compatible printing file. The conversion program is available at an additional cost.

WARRANTY

Parts and labor coverage

1 YEAR	1-Year Parts Warranty Any defective components are replaced at no cost within the first 12 months.
3 MONTHS	3-Month Labor Warranty Covers labor costs associated with repairs for the first three months.

INSTALLATION

Ships unassembled

Velocity Plotters provides support for installation, system commissioning, and operator training to help ensure the machine is ready for production.

FINANCING

Available through TimePayment

01

Does the plotter come assembled?

No, Velocity plotters are not pre-assembled due to shipping and logistical considerations. However, we ensure that setup is fast, guided, and stress-free. Our technical team provides:

- Step-by-step remote installation support
- Configuration assistance for software and connectivity
- Calibration and first-run testing
- User training on operation and basic maintenance

Whether you're local or remote, our priority is to ensure your plotter is fully operational from day one—with the guidance and support you need.

02

What type of ink does it use?

The plotter uses HP #45 black ink cartridges, which are widely available from retailers like Target, OfficeMax, Office Depot, and Amazon. You may also choose to purchase them through Velocity Plotters.

03

What type of paper is recommended for the 1600 Futura (Pattern Plotter Cutter)?

RECOMMENDED PAPER	Pattern Paper (Manila/Tag), Kraft/Brown Paper, and Plotter Paper
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RECOMMENDED WIDTHS	55", 60", 63", and 66"
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PAPER WEIGHT	Manila/Tag Pattern Paper: 100# – 120# – 150# basis weight Kraft/Brown Paper: 40# – 50# basis weight Plotter Paper: 35# basis weight
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CORE	3-inch tube
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04

What is the difference between the 1200 Futura and 1600 Futura?

The main difference is the machine width. The 1200 Futura is the 49" model, while the 1600 Futura is the 64" model, allowing manufacturers to select the configuration that best fits their pattern sizes and production requirements.

05

Can the Pattern Plotter Cutter print and cut in the same workflow?

Yes. The system combines inkjet printing with paper cutting and perforating, allowing patterns to be printed and then cut or perforated without switching to another machine.

06

Do you offer financing options or plans?

Yes, you can apply for financing through TimePayment to purchase this solution.