

EXCEL® Series 100 Ink Jet Printer

Proven Technology

VIDEOJET's EXCEL Series 100 is known worldwide for its track record of trouble-free operation. In fact, it's become the standard for thousands of large and small companies across the globe. EXCEL Series 100 is the smart, safe choice for your coding needs. Here's why:

The Ultimate in Reliability

The EXCEL Series 100's *SurePrint™* software constantly monitors your printer's operation and your product's code quality. Whether your printer is in use or idle, it continuously checks ink viscosity.

As your plant temperature varies during a long workday, *SurePrint* optimizes ink chemistry. It works constantly to minimize your production downtime.

Consistent Quality Printing

As it maintains proper ink viscosity, *SurePrint* also works to control each ink droplet, optimizing its "flight" and spacing. The result: a consistently crisp, high-contrast code.

Adapts to Your Packaging Line

SurePrint's special speed compensation feature allows it to adapt to the starts and stops of your line, ensuring that each code is printed in the same place on every product, every time.

Industrial Durability

The EXCEL Series 100's stainless steel, drip- and rust-resistant cabinet yields years of protected, reliable operation.

Versatile

The EXCEL Series 100 can serialize, automatically advance expiration dates, and print part numbers, batch codes and messages. It prints alphanumerics, bar codes, and custom logos in a variety of adjustable character formats.

It applies clear codes to virtually any surface — porous or non-porous, smooth, curved, textured, or ribbed — at nearly any production speed.

Less Hazardous Waste — More Running Time

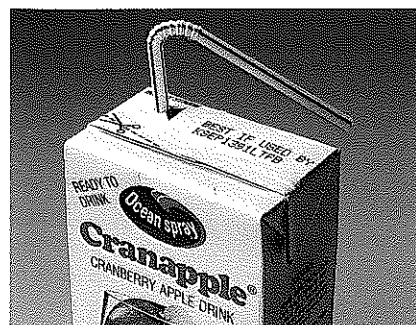
The EXCEL Series 100's hydraulic system virtually eliminates the hazardous waste disposal required by many other ink jet printers. It uses up all of the ink in the system, so there is none left to dispose. With no need for periodic ink changes or system flushes, EXCEL keeps your packaging line running, reducing labor and maintenance costs.

Easy to Use

Clear prompts displayed on an LCD screen lead operators with simple-to-follow steps through code entry procedures. The operator sees an LCD readout of the code, allowing for error corrections before printing.

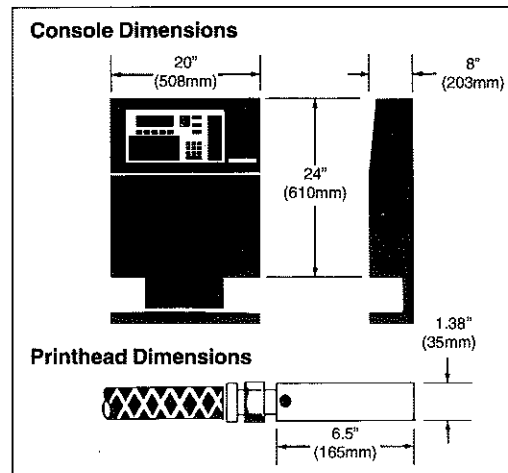
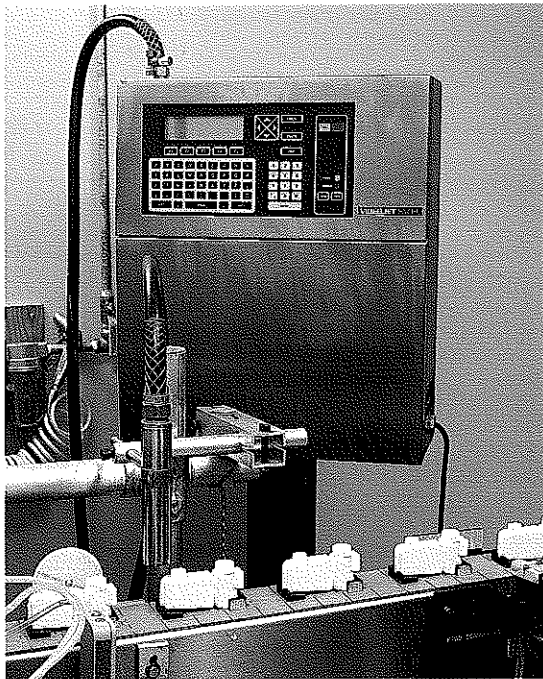
Operator prompts, keyboard, cabinet markings and Quick Reference Operator's Manuals for the EXCEL Series 100 are available in several languages. All gauges are clearly calibrated in both U.S. and metric measurements.

VIDEOJET®



The Service You Deserve

You get reliable equipment plus training and support from a worldwide sales and service network when you invest in VIDEOJET products. Call today for details on how the EXCEL Series 100 will meet your marking and coding needs.



Specifications

Line Speed Capability at 10 characters per inch, single line of print

5x5 matrix: up to 916 ft./min (278m/min)
5x7 matrix: up to 611 ft./min (185 m/min)
7x9 matrix: up to 203 ft./min (62m/min)
10x16 matrix: up to 157 ft./min (48m/min)

Print Rate

Up to 1832 characters per second, depending on font

Font Matrix Configuration

5x5, 5x7 two-line, 7x9, 10x16, and bar code fonts

Optimal Character Height

Selectable from less than 1/8" (3.2mm) to more than 1/4" (6.4mm), matrix dependent

Keyboard

66 alphanumeric and special character keys on moisture- and ketone-resistant, membrane-type keyboard, security features, optional language versions

Display

40-character, eight-line LCD display

Custom Characters

Keyboard programmable characters

Custom Logo/Graphics

Available

Data Interface

128-character ASCII code; RS-232C at baud rates selectable up to 19.2 kbps

Standard Message Storage

Eight 62-character single-line messages or eight 124-character twin-line messages; additional message storage capacity available

Console

Free-standing/wall-mountable stainless steel cabinet; dimensions: 24" (610mm) high, 20" (508mm) wide, 8" (203mm) deep

Printhead

Compact, stainless steel 1.38" (35mm) diameter printhead, omni-directional capability

Printhead Cable

Vinyl-covered armored conduit, 20 feet (6.1 meters) in length

Ink

Wide range of formulation and colors

Ink Consumption

Up to 67.5 million characters per quart of ink, depending on ink, stroke-setting adjustments

Ink Containers

One quart (.95 liter) bottles each, ink and make-up fluid; five-gallon make-up container available.

Product Detection

Requires one product detector

Accessories

Printhead stand; wide range of product detectors; encoder; alert light; voltage regulators

Temperature Range

40° to 110° (5° to 43°C); 10% to 90% RH without condensation

Air Requirements

65-85 p.s.i. minimum; 100 p.s.i. maximum (range of 4.5 bars to 6.9 bars.)
2 SCFM maximum (3.398 litres/hr.)

Weight:

Unpacked	82 lbs
	(37 kgs)
Packed:	100 lbs
	(45 kgs)

VIDEOJET

Videojet Systems International, Inc.

1500 Mittel Boulevard	Toll Free: 800-654-4663
Wood Dale, IL	Telephone: 708-860-7300
60191-1073 U.S.A.	Fax: 708-616-3623

Offices: U.S.A.: Atlanta, Chicago, Dallas, Los Angeles, Philadelphia; INT'L: France, Germany, Holland, Ireland, Japan, Singapore, United Kingdom

Distributors Worldwide

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VIDEOJET EXCEL Series 170i:

World-Class Design

VIDEOJET's 170i represents a new generation in the EXCEL Series, built to compete with any small character ink jet printer in the world.

High Efficiency Fluid Control System

The patented, new Fluid Control System is a revolutionary ink return system that reduces make-up fluid consumption. By efficiently recycling the ink to reduce evaporation, the Fluid Control System minimizes operating costs.

Less Hazardous Waste - More Running Time

The EXCEL hydraulic system virtually eliminates hazardous waste disposal. Because it consumes all of the ink in the system, there's none to dispose. With no need for periodic ink changes or system flushes, EXCEL keeps your packaging line running, reducing labor and maintenance costs.

The low evaporation Fluid Control System reduces odors and fumes emitted into the air.

2 Industrial Durability

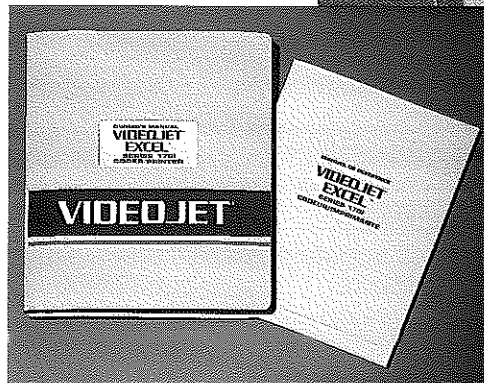
Stainless steel, drip- and rust-resistant cabinet gives years of protected, reliable operation, even in harsh environments. Its rugged vinyl-covered armored printhead cable is now available in both 20-foot (6.1 meters) and 12-foot (3.7 meters) lengths.

3 Back-Lit LCD Display Screen

A new back-lit LCD display screen ensures easy reading in any light. Clear prompts lead operators with simple-to-follow steps through machine procedures. The operator sees an actual LCD readout of the code as it is entered on the snap-action membrane-type keyboard, allowing for error corrections before printing. The keyboard can be locked for security, if necessary.

1 Easy to Use, All Over the World

The EXCEL Series 170i comes in International Versions for easy use around the world. Operator prompts, keyboard, cabinet markings and Quick Reference Operator's Manuals are available in several languages.



The Next Generation

Triple-Line Print Option

The EXCEL Series 170i offers greater coding flexibility with its new triple-line printing option. This option expands the EXCEL Series' coding capabilities through its optimized printhead design that can generate a large 16 x 24 ink-drop matrix. Any combination of one, two, and/or three lines of print, graphics, and custom-design characters are now available.

For many applications, the triple line option provides improved readability of Code 39 and Interleaved 2 of 5 bar codes.

5 Designed for Compatibility with VIDEOJET InkSource™ Inks

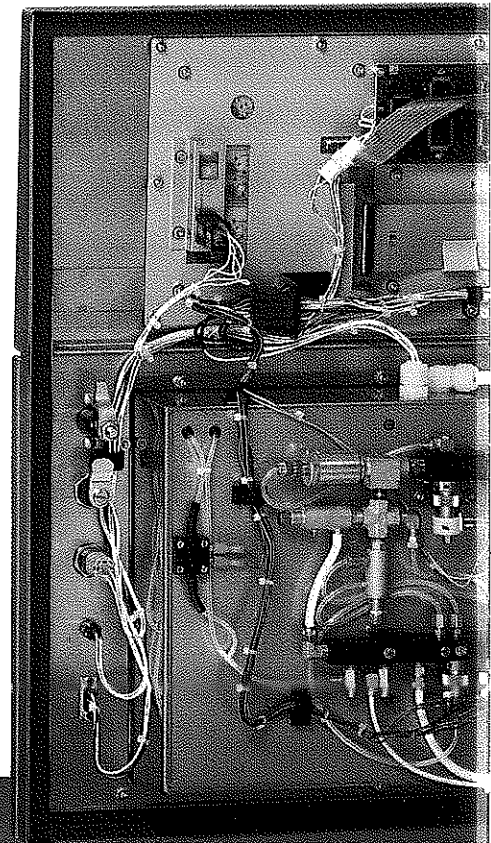
The Series 170i was tested with VIDEOJET's InkSource inks to ensure against problems that could damage your productivity. Machine, inks, make-up fluids and cleaners are designed as parts of a fully-compatible "fluid technology system." You get the printing you want with the trouble-free performance you need.

6 SurePrint™ Software

SurePrint software enables the EXCEL Series 170i to work all on its own. It automatically monitors and adjusts ink viscosity for consistent printing and maximum uptime. It controls each ink droplet, optimizing its "flight" and spacing for perfect dot matrix printing.

The result: consistent, high-quality printing and reliable, continuous operation with almost no supervision needed.

4
All gauges are clearly calibrated in both U.S. and metric units. A choice of software compatible with U.S. or metric measurements of operating line speeds is offered.



A Smarter Electronic "Brain"

The new multi-layer control board is the computer "brain" which operates the EXCEL Series 170i. It has a new, rugged design for greater reliability and expanded storage for 32 messages. Plus, we added extra memory for future enhancements.

The Service and Support You Deserve

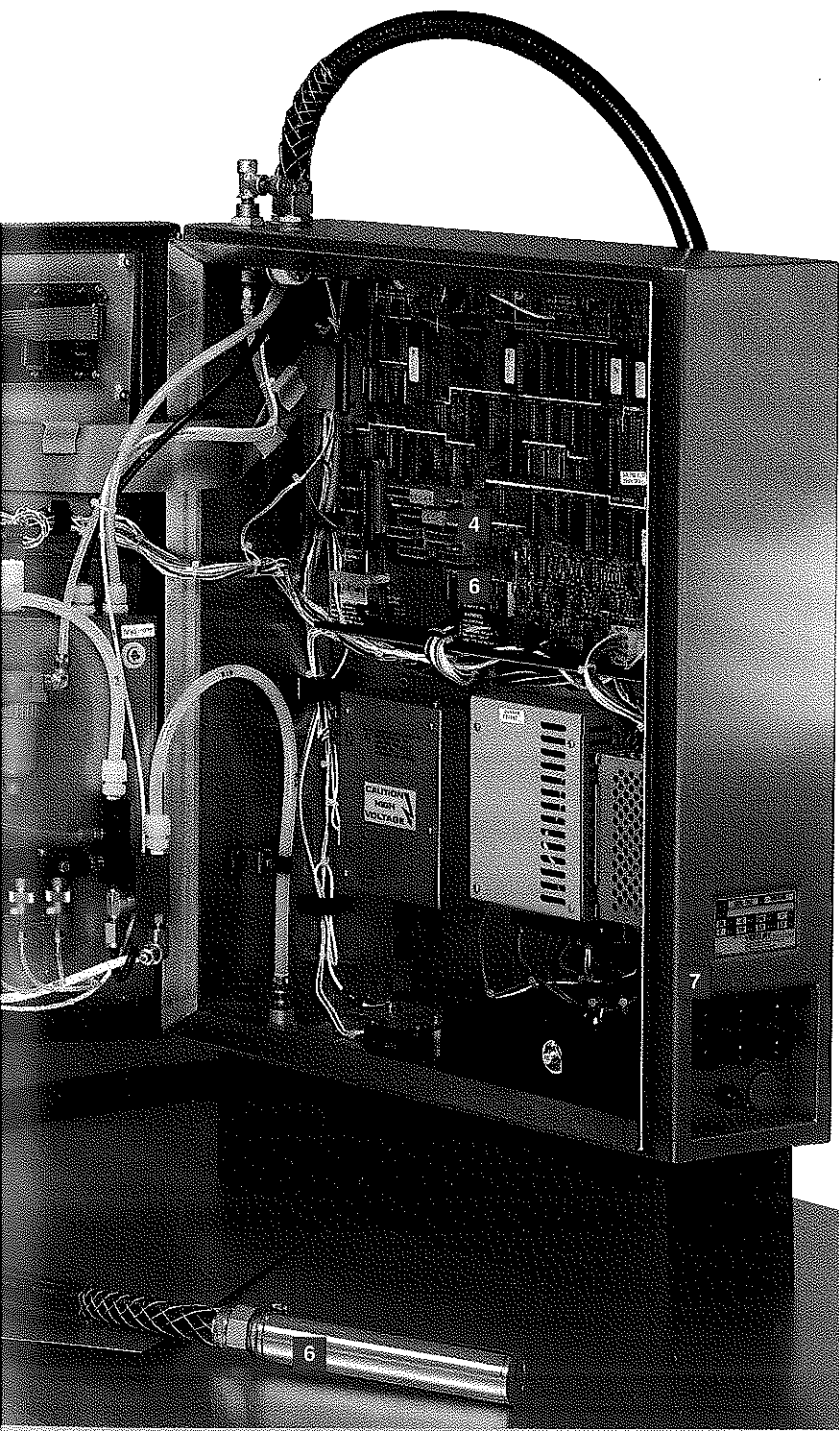
When you buy Videojet products, you invest in productivity. And we make sure you get it. With tens of thousands of Videojet units in operation, our field service technicians and trained distributor personnel have the skills and experience to help provide you the absolute in up-time and trouble-free printing.

Our advanced training programs, manuals and videotapes will assist your personnel in running and maintaining all of your Videojet systems.

Best of all, Videojet products are built with quality assurance at every stage. Innovation, superior inks designed for ease of use and reliability, and the good treatment you expect from a leader — those are the hallmarks of Videojet.

Call Us Today

Call Videojet today to see how the EXCEL Series 170i will meet your printing needs. Ask a trained Videojet coding expert to run a test printing on your product in our sample lab. They have the expertise to solve your marking and coding problems.



7 Easy to Control

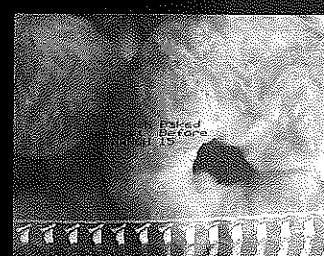
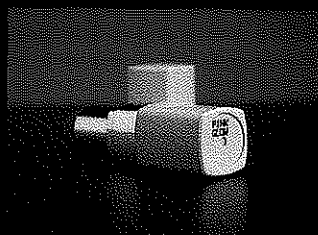
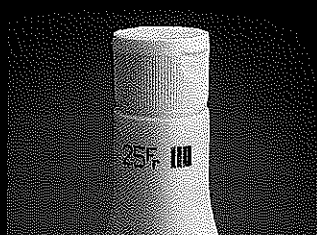
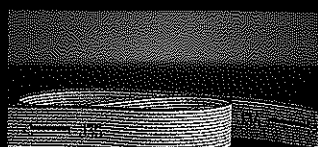
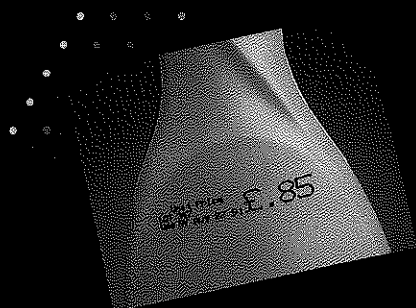
In addition to entering codes and operating the machine from the keyboard and the built-in memory, the Series 170i will connect to external devices through its RS-232 port.

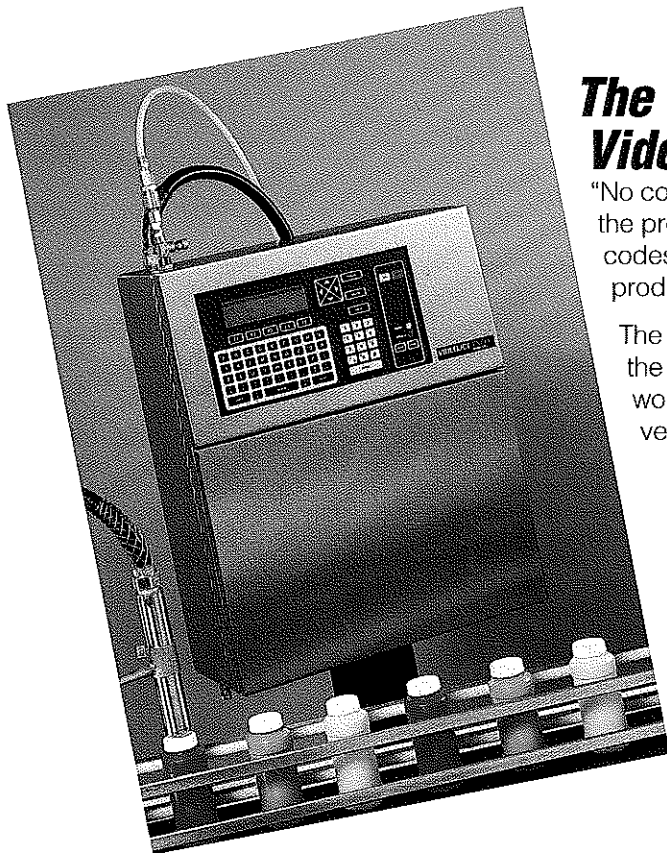
The Marking and Coding You Want

The EXCEL Series 170i gives you the versatility to identify products and packages with one, two or three lines of clear, printed alphanumerics, plus bar codes and custom logos. You can serialize, automatically advance expiration dates, and print part numbers, batch codes and messages in a variety of adjustable character formats.

Print on Any Material

The Series 170i applies codes to virtually any surface: porous or non-porous; smooth, curved, textured, or ribbed; at nearly any production speed - whether uniform, variable or intermittent. It is the ultimate for non-stop production and packaging line coding.





The Ultimate Reliability of a Videojet Printer

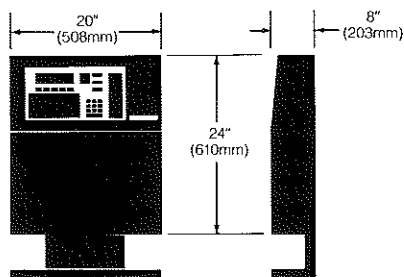
"No code, no run." For many companies, products cannot leave the production line until they are printed with batch codes, bar codes, pricing, expiration and/or other data. That's why productivity depends on a reliable coding method.

The EXCEL Series 170i inherits all the features that have made the EXCEL Series 100 the most reliable ink jet printer in the world, while moving to the next level of economy and versatility.

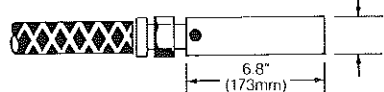
Specifications

Line Speed Capability at 10 characters per inch, single line of print	5x5 matrix: up to 916 ft./min. (278 m/min.) 5x7 matrix: up to 611 ft./min. (185 m/min.) 7x9 matrix: up to 203 ft./min. (62 m/min.) 10x16 matrix: up to 157 ft./min. (48 m/min.) 16x24 matrix: up to 55 ft./min. (17 m/min.)
Print Rate	Up to 1832 characters per second, depending on font
Font Matrix Configuration	5x5, 5x7, 5x7 twin-line, 5x7 triple-line, 7x9, 10x16, 16x24, and bar code fonts
Optimal Character Height	Selectable from less than 1/8" (3.2mm) to more than 1/3" (8.4mm)
Keyboard	66 alphanumeric and special character keys on moisture and ketone resistance, membrane-type keyboard, security features, optional language versions
Display	40-character eight-line illuminated (backlit) LCD display
Custom Characters	Keyboard programmable characters
Custom Logo/Graphics	Available
Data Interface	128-character ASCII code; RS-232C at baud rates selected up to 19.2 kbps
Standard Message Storage	Thirty-two 62-character single-line messages; thirty-two 124-character twin-line messages; thirty-two 186-character triple-line messages; additional message storage capacity available
Console	Free-standing/wall-mountable stainless steel cabinet; dimension: 24" (610mm) high, 20" (508mm) wide, 8" (203mm) deep
Printhead	Compact, stainless steel 1-3/8" (35mm) diameter printhead, omni-directional capability
Printhead Cable	Vinyl-covered armored conduit in optional lengths of twenty feet (6.1 meters) or twelve feet (3.7 meters)
Ink	Wide range of formulations and colors
Ink Consumption	Up to 67.5 million characters per quart of ink, depending on ink, stroke setting and adjustments
Ink Containers	One quart (.95 liter) bottles each, ink and make-up fluid, and cleaning solution.
Product Detection	Requires one product detector
Accessories	Printhead stand; console stand; wide range of product detectors; encoder; alert light; voltage regulators
Temperature/Humidity Range	40° to 110°F (5° to 43°C); 10% to 90% RH
Air Requirements	65 to 85 psi minimum (4.3 to 5.7 bars), depending on ink; two SCFM max; dry, oil-free, filtered air
Electrical Requirements	Nominal 110 or 240 VAC at 50/60 Hz; 75 watts
Approximate Weights	Unpacked 82 lbs. (37.2 kg) Packed 100 lbs. (45.4 kg)

Console Dimensions



Printhead Dimensions



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VIDEOJET

Videojet Systems International, Inc.

1500 Mittel Boulevard
Wood Dale, IL
60191-1073 U.S.A.

Toll Free: 800-654-4663
Telephone: 708-860-7300
Fax: 708-616-3623

Offices:

Atlanta, Chicago, Dallas, Los Angeles, Philadelphia, U.S.A.;
France; Germany; Japan; Singapore; United Kingdom

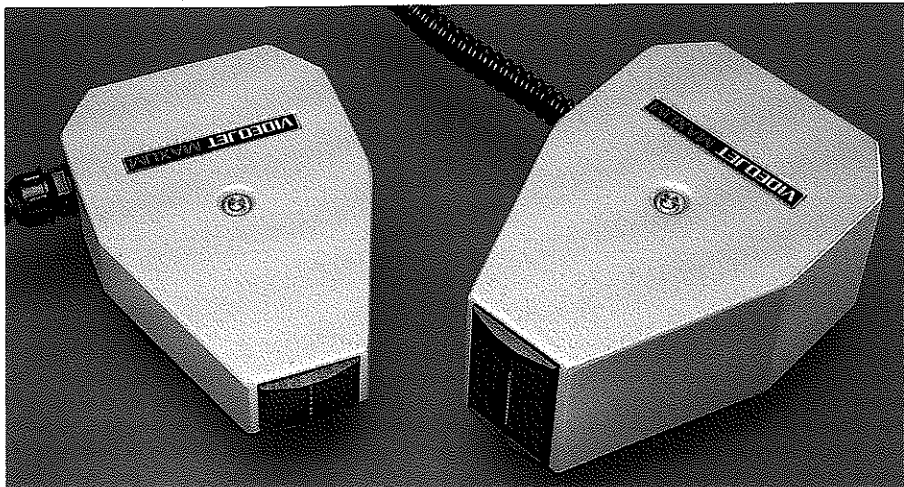
Distributors Worldwide

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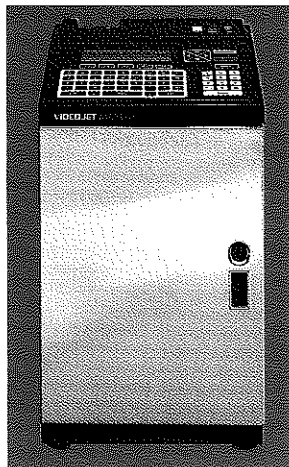
XL170i-0692-7.5M-US
Printed in U.S.A.

MAXUM Case Coders...

Maximizing your coding capabilities



MAXUM uses both standard printheads ($\frac{3}{8}$ ", $\frac{1}{2}$ ", $\frac{3}{4}$ ", 1" character heights) and Maxi-heads ($1\frac{1}{2}$ ", $2\frac{1}{4}$ " character heights).



Optional stainless steel cabinet handles harsh environments.



Full alphanumeric, membrane-type keypad with easy-to-read LCD display prompts operator for proper program sequencing and stored message retrieval.



MAXUM prints variable information at production speeds within a predetermined space on preprinted cartons.

For large character case coding that's durable and cost-effective, investigate the MAXUM Case Coder from VIDEOJET. Maximum capabilities, maximum reliability, maximum value.

Big on coding capabilities

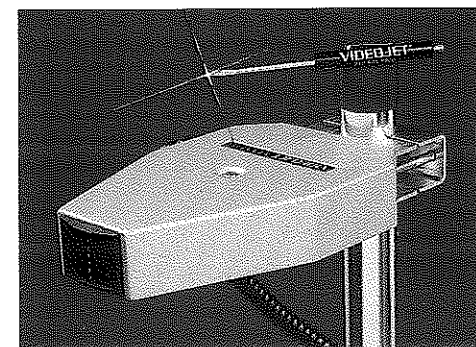
No job's too big for MAXUM. This case coder prints on a variety of materials in big, legible characters that range from $\frac{3}{8}$ " to $2\frac{1}{4}$ " in a choice of 5x7 or 10x16 dot matrix fonts.

MAXUM offers a whole big range of coding capabilities:

- Time/Date
- Serializing
- Counting
- Single/Twin Line
- **Bold Print**
- Dot size control
- Reverse/Invert print

And not just alphanumerics. Depending on model, MAXUM can provide optional bar coding and custom graphics.

There's additional memory storage, too. Up to 200 separate codes—more than 11,000 characters—with the optional expanded memory package.



Printhead maintenance requires only the quick turn of a screwdriver.

Big on flexibility

MAXUM lets you print on one or both sides of your package, with the same or a dissimilar code—in colored ink, if you wish. Even print on production lines running in opposite directions.

Big on reliability and easy operation

MAXUM's dependability keeps your line running smoothly right on through to the shipping dock. There is rapid payback by saving you the costs of downtime often incurred by such labor-intensive systems as roll-coding, stenciling and hand-labeling, as well as by other ink jet systems. Reliability that begins with a drip-resistant design. An industrial cabinet and sealed membrane keyboard protect all electronics from contamination and static. The rugged printhead design contains no active microelectronic circuitry at all. And the MAXUM's superior-quality, dripless ink outperforms any other ink jet coder's.

MAXUM is easy to use, requiring minimal training. Its user-friendly keyboard's liquid crystal display (LCD) prompts the operator through the proper code programming sequence, while preventing errors by displaying the data as it is entered.

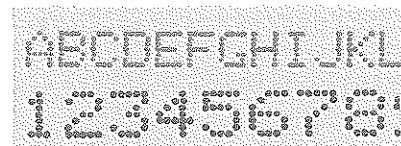
Big on connections... today and tomorrow

Even if you don't employ a CIM system in your plant today, you might in later years. MAXUM's RS-232C communications interface assures that your coding equipment can link with tomorrow's computer

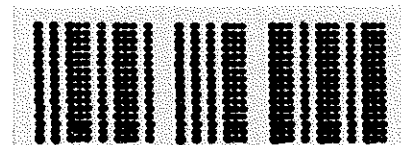
integration. Connected to a PC, MAXUM can print out reports; where material control is important, MAXUM can interface with a weighing device to print the exact weight on the package.

Big on value

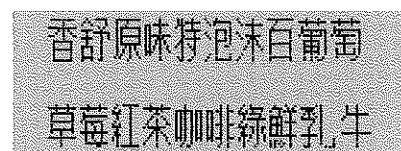
Value that's based not only on a competitive upfront cost, but payback... and experience through VIDEOJET's 20 years of coding expertise. An expertise that has led to a full product line... extending from MAXUM case coders and small character ink jet printers to specialty inks developed at VIDEOJET's own ink chemistry research facility.



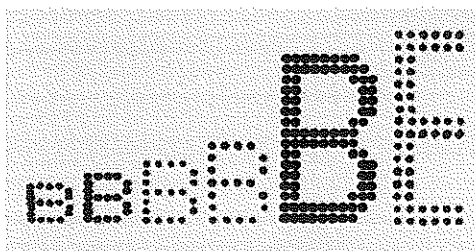
Alphanumerics



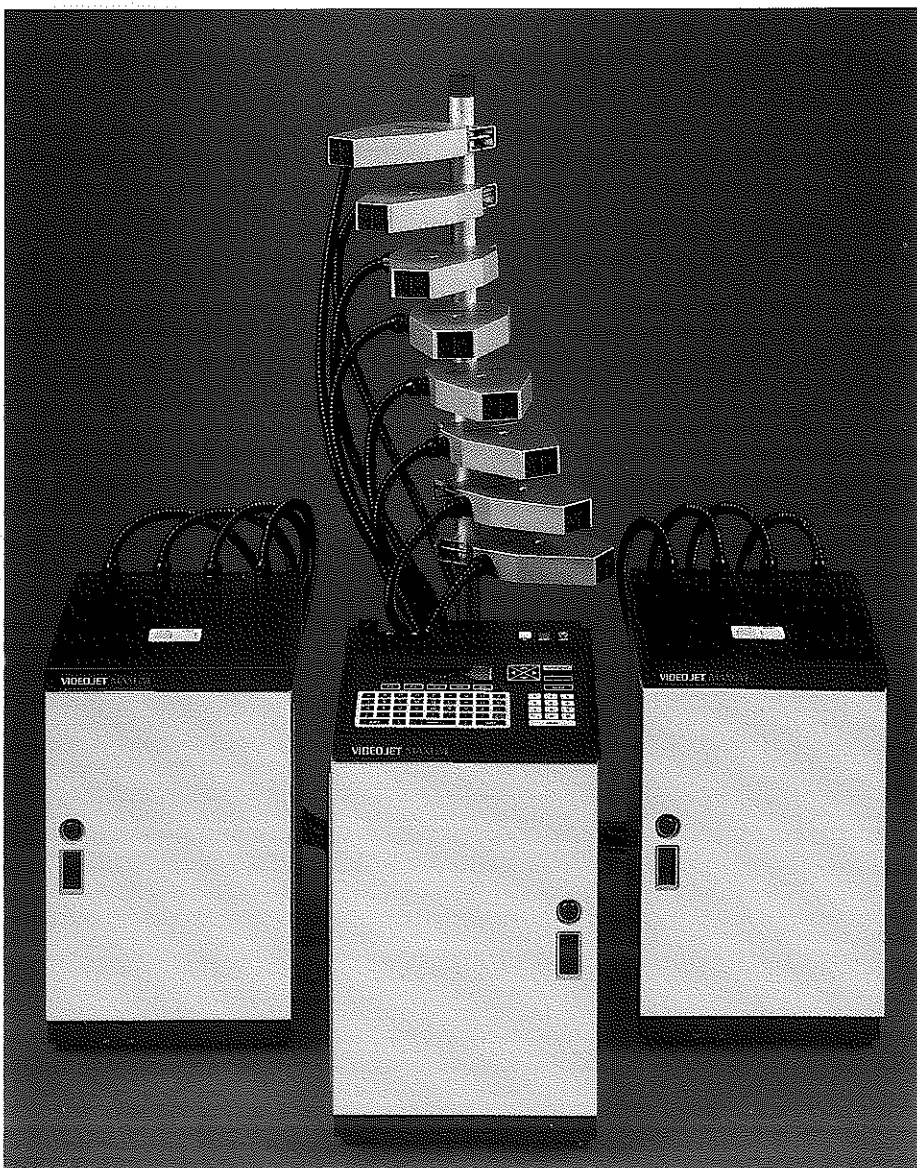
Bar Coding



Special Characters



Character heights range from 3/8" to 2 1/4"

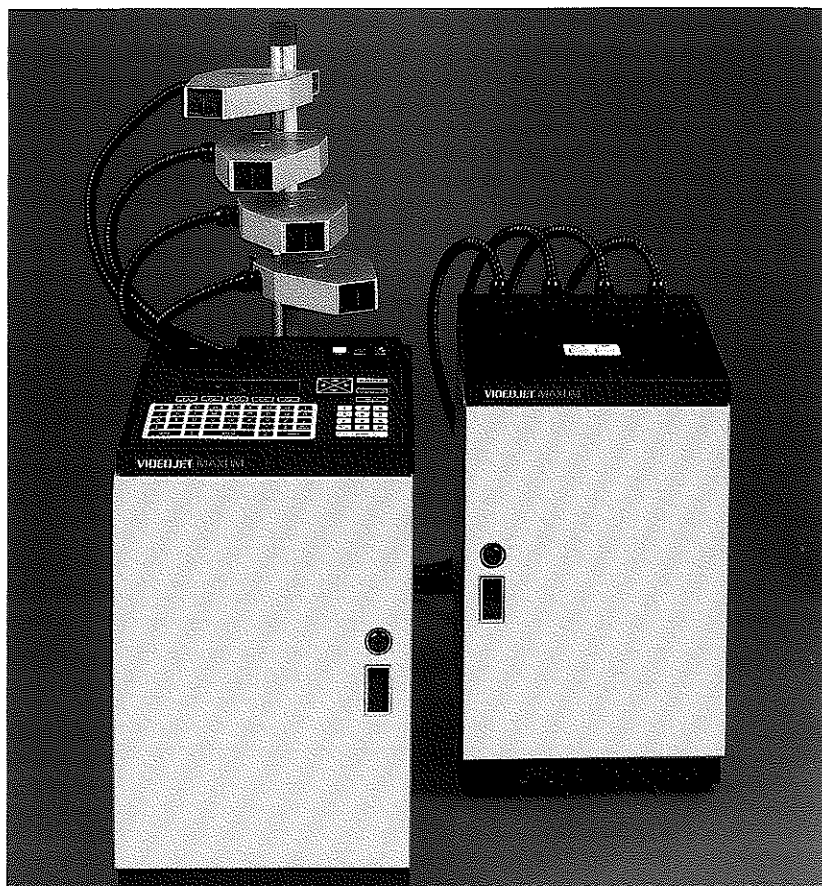


MAXUM Multiple Module...

grows with your plant

The MAXUM Multiple Module contains its electronic controls in one cabinet and its ink supply in one or two additional modules. You can use one to eight standard print-heads, one to four Maxi-heads, or a combination of both to provide up to eight lines of print. Add a second ink module and more print-heads as your plant's requirements grow. And do it all from up to 300 feet away from the electronics module, thanks to remote print-head capability.

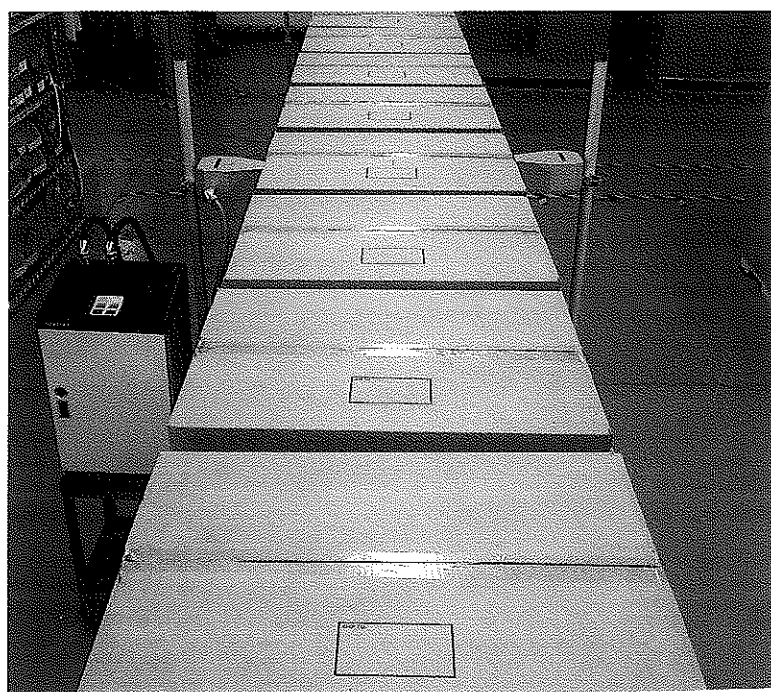
MAXUM Systems are Underwriters Laboratories (UL) listed (110VAC only) and Canadian Standard Association (CSA) Certified (110VAC only).



One of several Multiple Module combinations, this Series 40 comes with an ink supply module, an electronics module, and four standard printheads.



MAXUM Multiple Modules employ one of two separate ink modules, each of which supply up to four regular printheads.



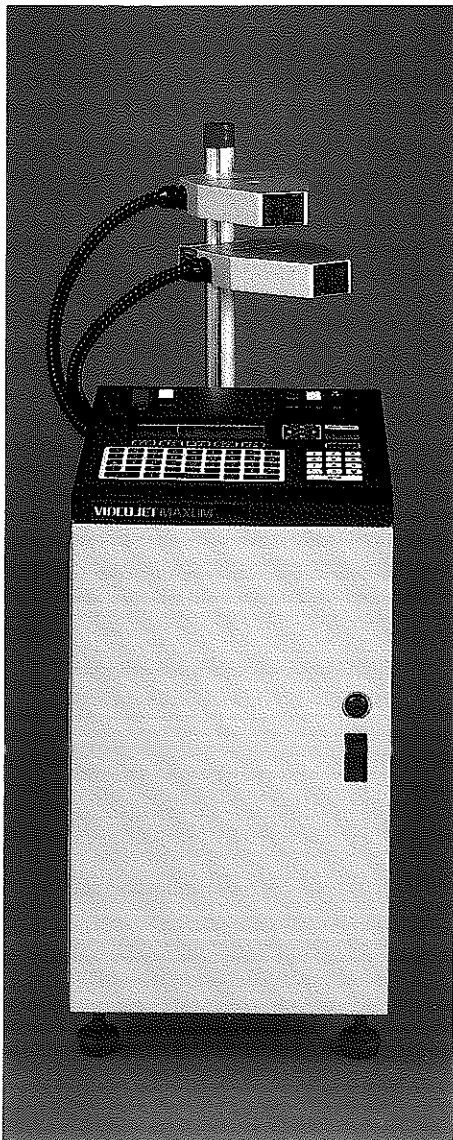
Use up to eight regular printheads, four Maxi-heads, or a combination of both to provide up to eight lines of print.

MAXUM Single Module...

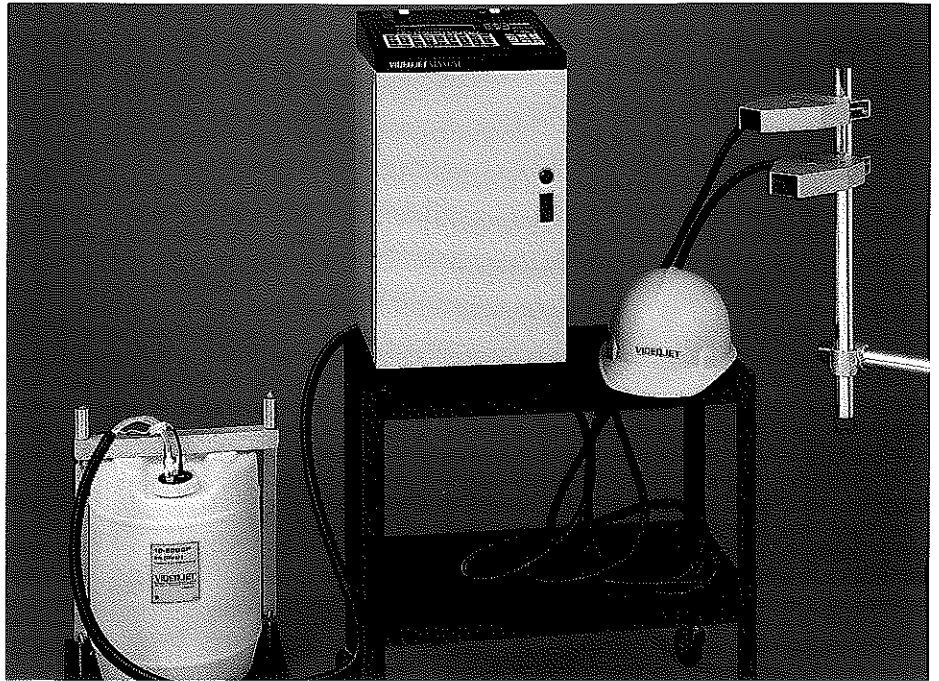
when all you need are two lines of print

The MAXUM Single Module is an economical solution when your package coding requires only one or two lines of print. With both electronics and ink supply enclosed in one compact module, the Single Module fits right into the tightest spaces on your packaging line. But while its footprint may be small, its capabilities aren't.

MAXUM Systems are Underwriters Laboratories (UL) listed (110VAC only) and Canadian Standard Association (CSA) Certified (110VAC only).



Simpler coding couldn't be simpler. Using either two standard printheads or one Maxi-head, the Series 20 can print up to two lines.



Less than 2 ft. high and 1 ft. wide, MAXUM fits neatly into your line.
Accessories: console stand, printhead stand, and 5-gallon external ink supply.



Small but mighty. The Single Module contains electronics, hydraulics, and an ink supply all in one cabinet.