



Speed, quality  
and content...  
no compromise

Continuous Ink Jet

# 1620 Ultra High Speed Continuous Ink Jet printer

 **VIDEOJET®**

# Our Videojet 1620 Ultra High Speed ink jet printer delivers content and quality at high speed.



## Speed versus content? Now you can have both



In your production environment, the demands for higher line speed never relent. In the past, printer limitations have required balancing throughput targets while ensuring consistent quality, accuracy, and legibility.

**Today, the challenge has been further increased through supply chain, marketing, and regulatory requirements – all requiring more code content without sacrificing the legibility needed to inform your customers and meet your traceability objectives.**

Your operation brings new meaning to the word 'fast'. Whether you operate at the extremes of packaging line speeds or push the limits of throughput, your challenge is simply finding a printer to keep up.

But today, that challenge has been compounded...

- adding code content for promotions and traceability.
- reducing your current mark window to increase your product packaging's brand impact.
- making part of the code bigger and bolder to aid readability.

Slowing your production line has never been an option. In the real world, your world, you need equipment that can keep pace with your business demands. You need suppliers that understand that every production minute counts... suppliers that bring you leading technologies to reduce downtime. And you need to break the compromise between speed and content with markedly better print quality.

**You need the Videojet 1620 Ultra High Speed Continuous Ink Jet printer.**

# The Videojet 1620 UHS – the ultimate in print speed

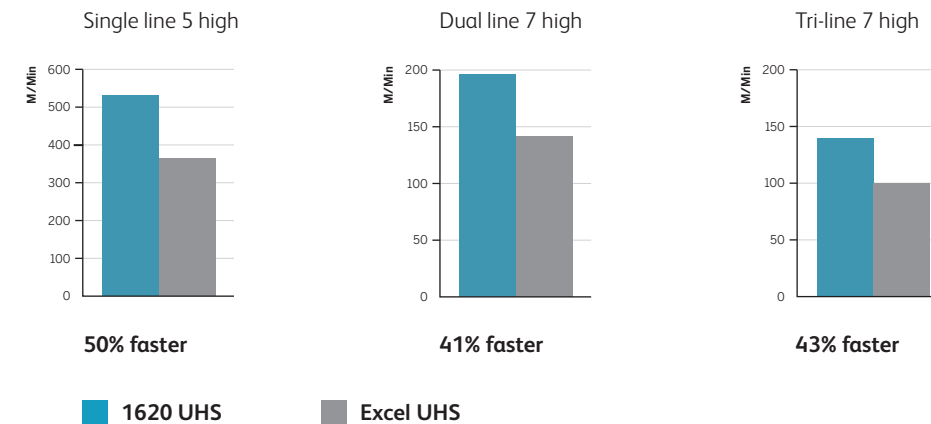
Your printer has to keep pace. The new Videojet 1620 UHS does more than just keep pace. Through a unique combination of technologies including hardware, software, and specialty ink formulations, the 1620 UHS offers print speeds that significantly exceed other prior and current generation solutions. **The new 1620 UHS is over 40% faster than its predecessor technology, the Videojet Excel UHS. At these speeds, most dual-line applications can now add a third line of code without any adverse effect.**



2 line application



3 line application



## The Videojet uptime advantage

Recent customer field results show:

# 99.9% availability\*

\* Results of 99.9% availability obtained from a survey of customers representing over four hundred 1000 line printers on active production lines. Over half of the surveyed customers experienced 100% availability. Individual results may vary.

On high throughput production lines, small amounts of downtime can quickly add up to shortfalls in finished product. In 24/7 production schedules, there's limited room to compensate for lost throughput.

The Videojet 1620 UHS printer was engineered for extended run environments, keeping your production line up and running longer. So advanced, it automates set-up, start-up, and shutdown cleaning. So well designed, it makes maintenance easier than ever.

- Auto cleaning printhead with positive air flow
- Internal pump to eliminate the need for external air, minimizing the potential for contaminants to enter the ink stream.
- Standard IP65 rating and 316 stainless steel cabinet for dusty and washdown environments

When every minute counts, rely upon the Videojet 1620 UHS.

Typical high speed users go from cleaning at least once a day, to **30 days or more between cleanings<sup>(1)</sup>**

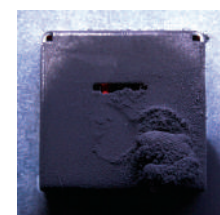
Patented CleanFlow™ printhead with positive air flow to reduce ink buildup that can cause ordinary ink jet printers to shut down.

**Results after equivalent hours of print testing showing ink buildup on nozzle faceplate<sup>(2)</sup>.**

Videojet Cleanflow™ printhead



Competitor printhead



<sup>(1)</sup> 4 of 5 surveyed users switched from once a day to 30+ days between cleaning.

<sup>(2)</sup> Printhead tests were conducted by a third party. Tests were performed in an accelerated test environment, which increases the speed of ink buildup by using an electrical charge. See [www.videojet.com/us/printheadtest](http://www.videojet.com/us/printheadtest) for more information. Actual results may vary.

## Higher speed - more content

Even if your existing printer can keep pace, the demands on your operation will change. The changes will include running faster, adding additional lines of code, and accommodating reduced space allotted for the code.

Whether these changes are driven by internal business needs or external regulatory requirements, the Videojet 1620 UHS provides great flexibility to help you immediately adapt.

<b>Current code</b>	<b>Same speed, more lines of content</b>	<b>Same speed, more horizontal content</b>
<b>Same speed, content bolded for better legibility</b>	<b>Same content, character pitch reduced to save packaging space</b>	

# High quality codes at your production speeds

Videojet high speed code using Precision Ink Drop™ System

A B C D E F G H I  
1 2 3 4 5 6 7 8 9

Competitor high speed code

A B C D E F G H I  
1 2 3 4 5 6 7 8 9

Note: Codes enlarged to show drop placement detail

Ensuring high quality print at the extremes of packaging line speed depends on a number of factors working in harmony. The Videojet 1620 UHS printer incorporates the Videojet Precision Ink Drop™ System to deliver superior code quality

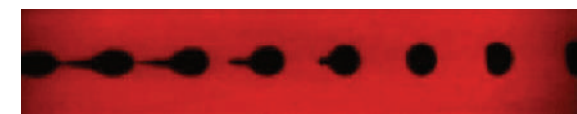
As the demands on your production increase, the need for high quality print doesn't change. But these demands have been amplified as additional code content is added to meet internal business needs or external requirements.

The Videojet 1620 UHS is engineered to deliver high quality codes up to the limits of its capability – giving you confidence in the codes you print.



Highly legible customer information in a small space

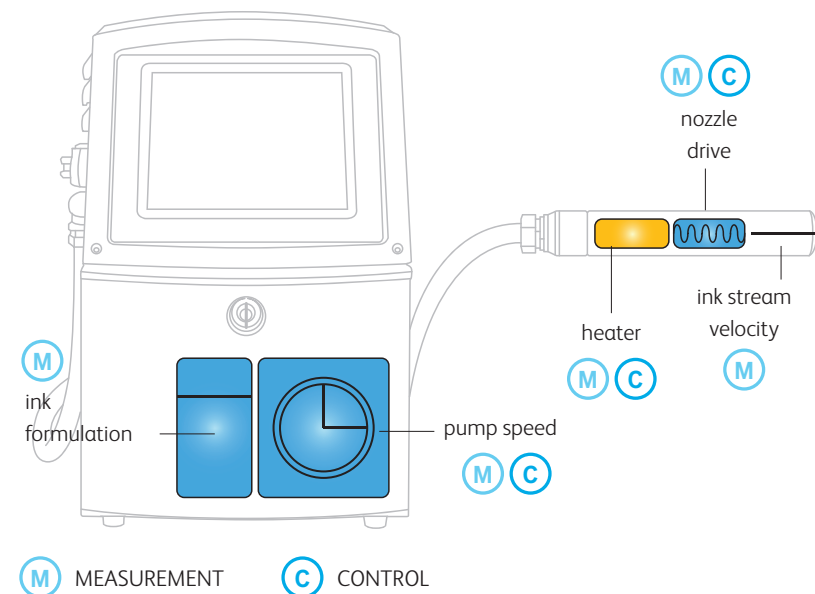
The Videojet 1620 UHS printer generates up to 100,000 individual drops per second. Generating the drops is the easy part... rendering them into high quality codes is what sets the Videojet 1620 UHS apart.



The **Videojet Precision Ink Drop™** System combines unique ink chemistry, advanced high frequency printhead design, and sophisticated software algorithms that modify the flight path of individual ink drops for optimal code quality.

But code quality alone is insufficient if you can't maintain it throughout your production runs. **Videojet's Dynamic Calibration™** applies some of the industry's most sophisticated measurements and controls to adjust jetting parameters automatically. As ambient temperature and humidity change throughout the day and across the seasons, you can count on the same great print quality.

## Videojet Precision Ink Drop™ System and Dynamic Calibration™



# A system-based approach to print quality

### Ultra High Speed (UHS) inks for high speed applications

Videojet UHS fluids and the 1620 UHS printer have been exhaustively tested as a system for over 2 years at the extremes of print speeds and environmental conditions. Designed for optimal drop formation, Videojet UHS fluids are held to the highest quality control standards. The result? Superior drop placement at superior speeds.



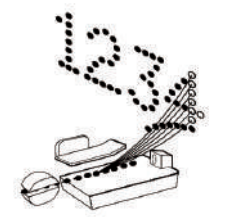
### High frequency printhead

Generating over 100,000 drops per second, the high frequency 50 micron printhead was designed specifically for tighter drop placement. Although operating at 25% higher frequency than the legacy technology, the new UHS printhead delivers consistently better print quality under the most extreme operating conditions.



### Advanced software

The key to the system, Videojet's advanced software algorithms control the printer hardware to create optimal ink drop break off and modify drop flight path. Advanced processing yields one simple yet important objective – consistently high quality codes.



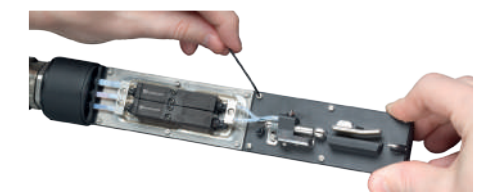
## Simple operation enhances uptime

Everything about the Videojet 1620 UHS printer is designed for limited and simple interactions so you can focus on production. The Smart Cartridge™ fluid system significantly reduces waste, mess, and mistakes. And when it's time for planned maintenance, the modular core system gets you right back to production.



### Modular core:

The advanced core design enables the 1620 UHS printers to perform up to 14,000 hours between planned maintenance. The core is customer-replaceable, and includes all system filters and common wear parts.



### Modular printhead design:

Automatic set-up, calibration and adjustment helps ensure consistent performance with minimal operator intervention. The printhead is easy to clean and provides long runs between cleanings, with fast, easy startup even after extended shutdown.

## Peace of mind comes as standard

Videojet is a world leader in industrial coding and marking solutions, with more than 345,000 coders installed worldwide. Here's why...

- We leverage over 40 years of globally gained expertise to help you specify, install and utilize the most cost-effective solution; one best suited to your operations.
- We deliver a wide range of products and technologies that deliver tangible results across an extensive range of applications.
- Our solutions are highly innovative. We are committed to investing in new technologies, research and development and continuous improvement. We stay at the forefront in our industry, to help you do the same in yours.
- We have earned a reputation for both the long-term reliability of our products and excellent customer service, so you can choose Videojet and relax.
- Our international network includes more than 4,000 staff and over 175 distributors and OEMs, in 135 countries. So wherever and whenever you're ready to do business, we're ready to serve.

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