

# Game Changing LED UV Hybrid Machine

*Acuity*  
**Prime  
Hybrid**

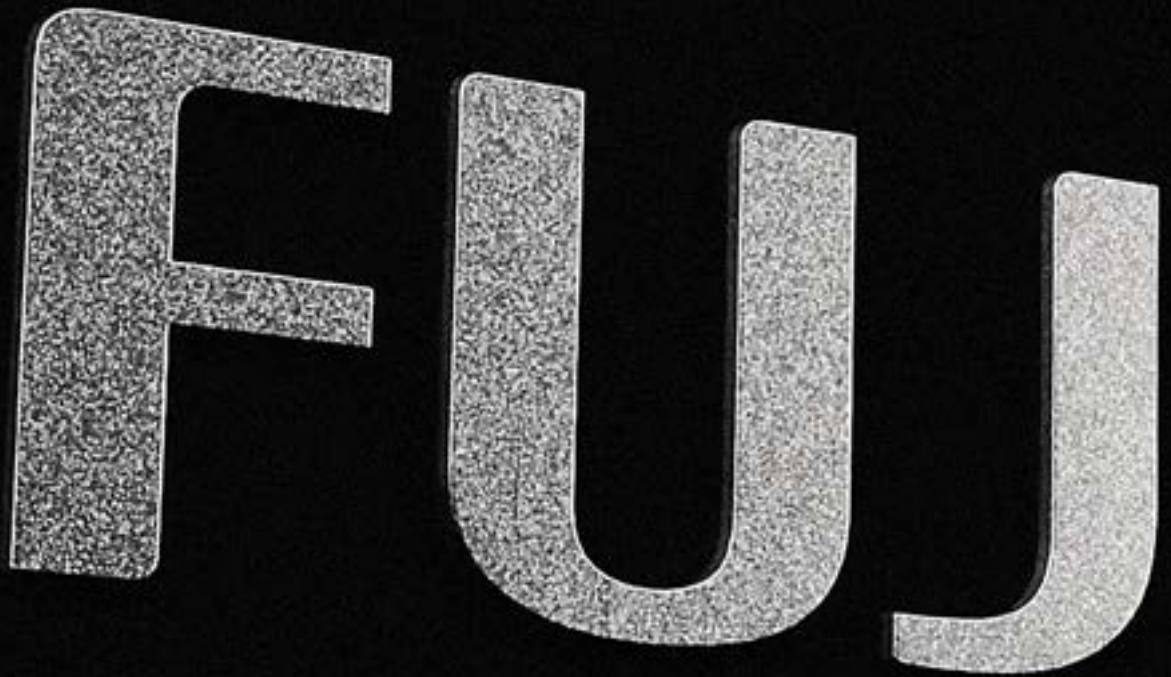


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Product Guide

# Why Fujifilm?

Fujifilm believes that our collective future of print is based on dynamic collaboration. Therefore, you deserve a partner who understands where you have been, where you are currently, and where you want to go. Fujifilm's business is anchored to the traditions of our industry and the historical relationship we have with the print community. When we combine our history of innovation and our commitment to product development with our enthusiasm for our customers' success, together we can achieve any vision you have for your company.

The letters 'FUJ' are rendered in a large, bold, sans-serif font. Each letter has a distinct grainy or stippled texture, giving them a three-dimensional, metallic appearance. The letters are set against a solid black background, which makes the textured surface stand out prominently.

### History of Innovation

The Fujifilm difference is supported by 4 pillars of strength. Our long history and countless milestone achievements are proof of both our longevity and dedication to this amazing industry. Fujifilm grew up in this business and there is no substitute for the collective experiences we have had and the depth to our understanding of the business. Our portfolio truly spans the entire print industry and is purely the result of the other pillars. Our history of innovation drives a culture of progress.

### Global Strength

The culture within Fujifilm is rooted in respect and innovation. The care with which we engage clients and investment in solutions has been critical to our ability to create advances in technology and infrastructure. Being devoted to traditional business processes allows us to align with traditional hierarchy while also being innovative and disruptive. Our approach is born from mutual respect for others and a willingness to drive change.

### Local Partner

Fujifilm Graphic Communication Division (GCD) is full of passionate team members. While globally, Fujifilm invests in Research & Development at a frenetic pace (\$7 million dollars per day), locally, Graphics Communication Division (GCD) embraces a culture of relentless service & support. When it comes to innovation, we develop all our technology in house including printheads, inks, inkjet technology and image processing systems. And there is no better place to witness this than our remarkable Innovation Lab. Located in our North American Headquarters in Hanover Park, Illinois, just 30 minutes west of Chicago, the Fujifilm Graphics Innovation Hub (GIH) is here to showcase for you the newest innovations from Fujifilm's Graphic Communication Division. The GIH demonstrators have industry experience and are experts in the operation and use of our print equipment.

### Broad Portfolio

The Fujifilm portfolio is broad and is the result of our history of innovation, our corporate reach, and our local connections. The breadth of our portfolio aims to fulfill every sector of the print market and continues to grow as our customer's needs grow. We aim to support the most progressive leaders, the maniacally detailed operators, the environmentally conscious, and the creatives that realize the impact that print can have on brand equity.



# Acuity Prime Hybrid at a glance

The Acuity Prime Hybrid can be configured with up to 7 channels, with CMYK as standard, and optional White, Clear and Primer. It produces stunning quality print at droplet sizes down to 7pL. It handles flexible and rigid media up to 2 in. thick and roll media up to 80 in. wide, and benefits from an ultra-reliable and long lasting air cooled LED UV curing system.

**7** Ionizer bar that reduces the media surface

**6** Automatic Printhead Maintenance System (APMS)

**5** 4 vacuum zones

**4** Anti-collision protection, with crash sensors

**3** Visible status indicators

**2** Native 7 picoliter, 3 level grayscale printheads

**1**

**1** Status lights for the ink tanks

**13** Front and back table transport of rigid ma





9 Anti-collision protection, with crash sensors

8 Media feed belt for transport of rigid materials

10 Intuitive GUI

aces static on

1

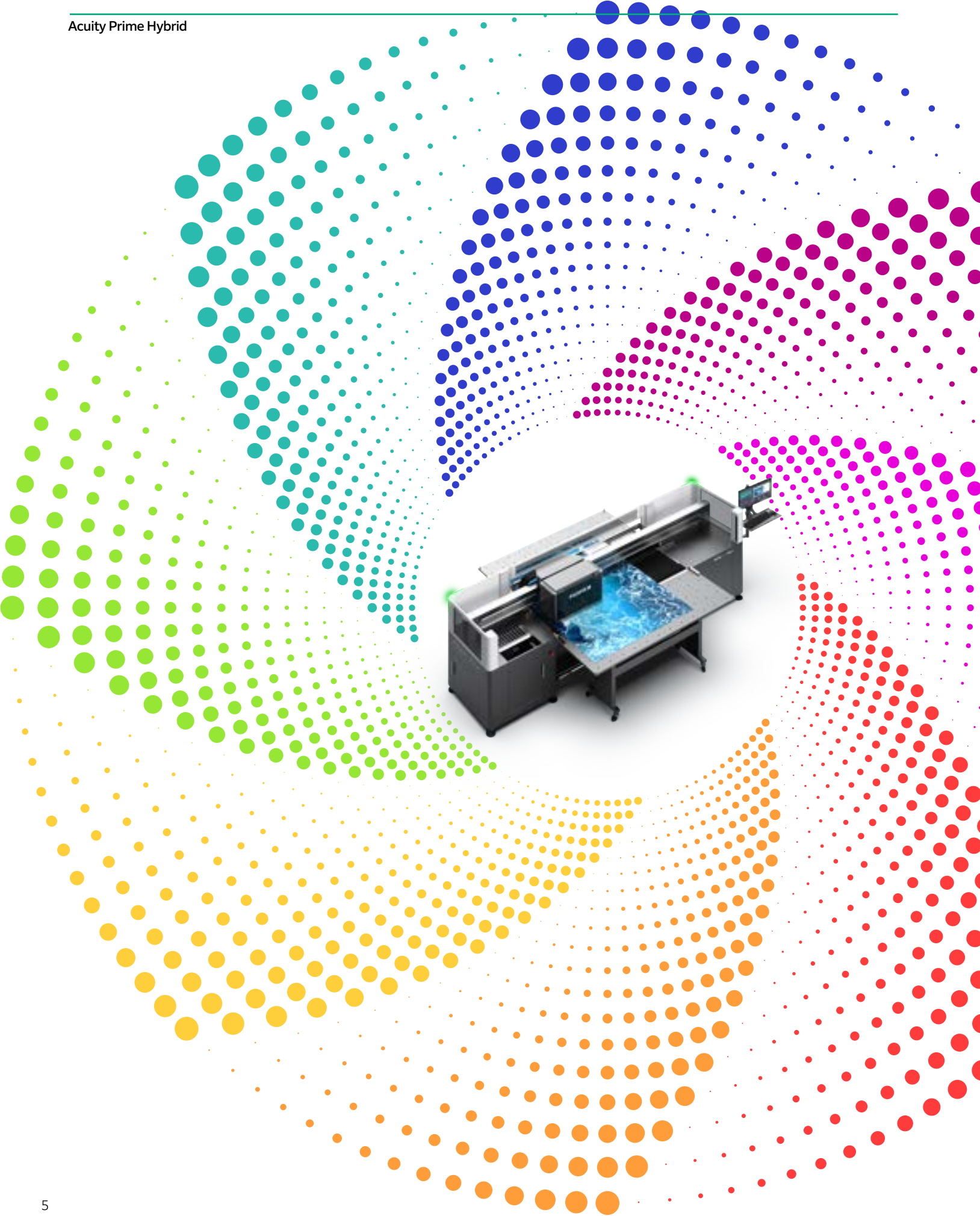
11 Uvijet HM high performance inks

12

12 Prints on heat-sensitive materials because of the low curing temperatures of UV-LED

# Experience the **Acuity** Difference

ables for  
l materials



# What You Get: Versatile Production

## 1 Machine | 2 Functions

### Get the best out of Roll Applications

The Acuity Prime Hybrid boasts a robust media handling system capable of printing rolls weighing up to 220 lbs. The air shafts, media bars and tension control system make loading and tracking on even the most finicky of media a breeze.

### Get the best out of Rigid Applications

From common rigid materials like foamcore, sintra, and coroplast to more difficult material like wood, glass, and plexi, the Acuity Prime Hybrid belt transport system delivers outstanding results each and every time.

### Get the best Adhesion

Trust the Acuity Prime Hybrid for flawless performance and adhesion across an extensive array of diverse and demanding roll media types. This includes clear film, thin backlit films, perforated vinyl, wallpaper, fabric, textile and other materials known for their heat sensitive and challenging production.

### Get the best out of Versatility

The Acuity Prime Hybrid sets itself apart by effortlessly transitioning between rigid and roll-to-roll media. This seamless switch occurs in less than a 10-minute changeover period, guaranteeing minimal downtime and maintaining peak performance levels.

The synergy between this advanced ink technology and the robust industrial construction of the Acuity Prime Hybrid guarantees the feasibility of bold and creative applications.



# Experience the **true hybrid** difference

What do we mean by a 'true hybrid' platform? Aside from the obvious – being able to print to a wide range of both rigid and flexible substrates – what defines a 'true hybrid' printer?

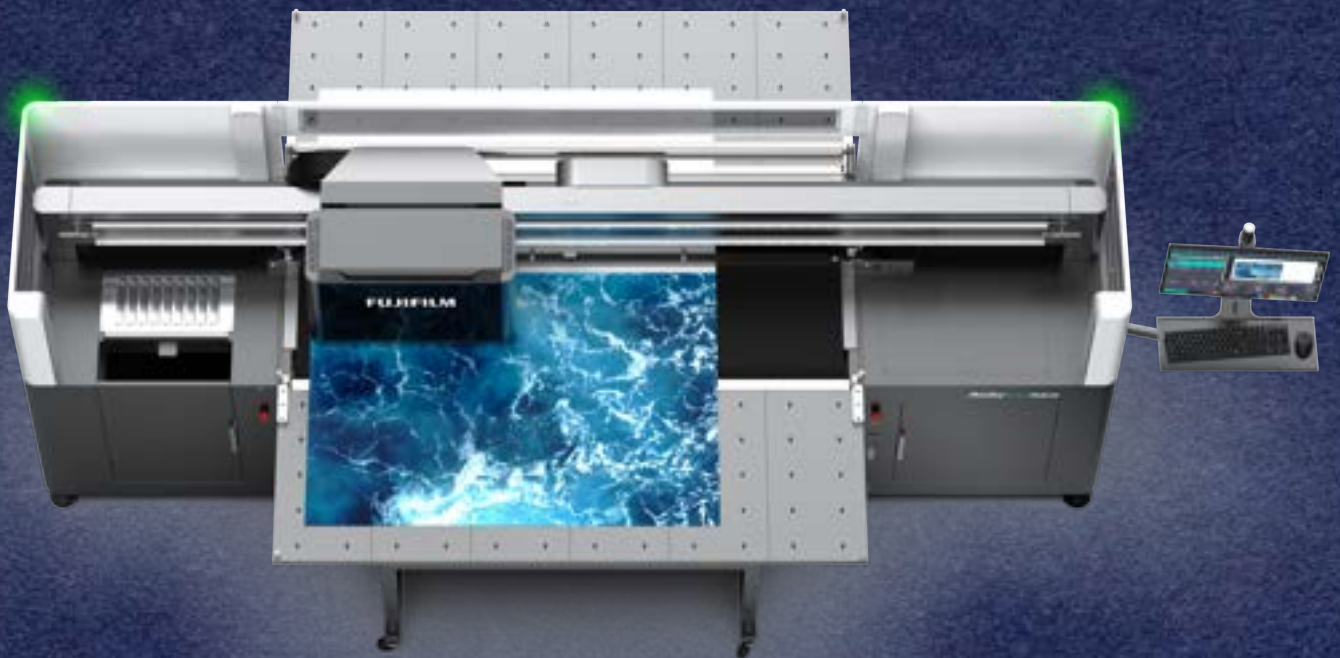
Perhaps we could start to answer that question by first addressing what it is not. It is not a flatbed printer with a roll function bolted on, nor, for that matter, is it a roll-to-roll machine with a flatbed table as an optional extra.

Machines like this have their place, but that place is really only in environments where additional functionality is needed only occasionally. In today's print marketplace – where being able to accommodate and deliver as broad a range of work as possible is paramount – these 'halfway hybrids' are often no longer good enough.

With a true hybrid, you get exceptional performance, whether printing to rigid or roll-fed media, as the machine is designed with both in mind, rather than one of those simply being a bolt-on extra. And if the build quality of the machine is good enough, then that exceptional performance remains consistent even over very long jobs, whether roll-to-roll or rigid media, providing the ultimate flexibility.



Easily **switch** from  
roll & rigid



Or set it up and **run**

# The Benefits of **UV LED** Curing

Experience all of the benefits of UV LED Curing with the Acuity Prime Hybrid



- Instant cure (no outgassing)
- Never miss a deadline: Finishing and delivery the same day
- Print on almost any materials up to 2" thick | Up to 80" wide
- Great with heat sensitive materials
- No primer needed (but have it if you need it)
- Low ink cost (because we only need 4 colors)
- Sellable even in draft mode
- Thin ink layer - keep your ink costs down
- Low energy consumption

# Superb dot reproduction and bright vivid colors

**Color is the most important aspect of an ink; prints with rich color have more impact and are more saleable. What's more, a printer needs a wide color gamut for faithful reproduction of images and to match spot colors.**

Our Uvijet inks feature Fujifilm's proprietary Micro-V dispersion technology. This enables high concentrations of color pigment to be effectively dispersed and stabilized, resulting in brilliant results in the final printed product.

## **Reassuringly consistent results**

To achieve high quality images and beautiful, vibrant colors time and time again, not only must the inks be of an exceptionally high standard, the formulations must be ultra-consistent. Our Uvijet inks are manufactured to incredibly exacting standards. Quality assurance at our award-winning ink manufacturing facility is second-to-none; we only use raw materials that are consistently of the highest grade, which helps to ensure that every batch of ink we create is exactly the same as the last.

## **Micro-V dispersion technology**

Micro-V is a unique Fujifilm technology that breaks down pigment particles and ensures they are held in stable dispersion in the ink. It enables high concentrations of color pigment to be effectively dispersed and stabilized, resulting in an ink with high color intensity that resists both agglomeration and gravitational settling – so the ink has high color strength as well as being stable and reliable.

A proprietary Fujifilm dispersion technology is used to coat the individual pigment particles that are separated during the dispersion process. This coating gives the particles a tendency to repel each other and therefore prevents pigment agglomeration. A molecular bonding agent is used to provide a link between this dispersion coating and the ink binder, or 'vehicle', in order to stabilize the pigment particle in the fluid and prevent gravitational settlement.

After Micro-V dispersion, pigment particles have an average particle size of less than 200 nanometres – 0.2 microns. They start roughly the size of a grain of salt and are ground down in size to smaller than a human cell.

Fujifilm pioneered UV inkjet printing, and has the highest number of patents for UV inkjet ink



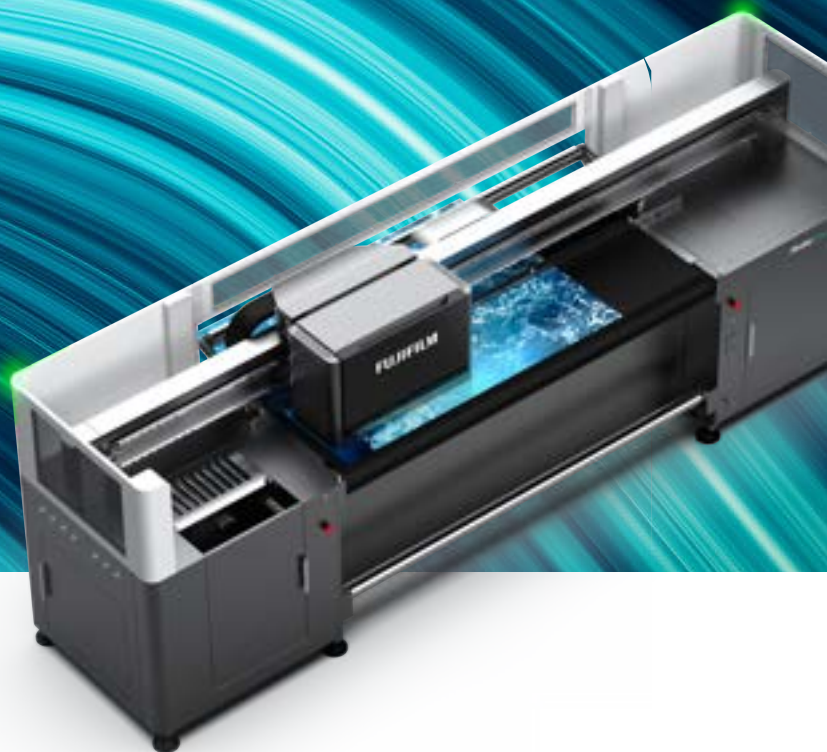
# Acuity Prime Hybrid



## Technical specifications

Acuity Prime Hybrid		
<b>Ink</b>		Uvijet HM ink
<b>Color</b>		CMYK plus White, Clear and optional primer
<b>Maximum printable width</b>		80 in. (2.05 m)
<b>Productivity</b>		Up to 1,518 ft <sup>2</sup> /hr
<b>Maximum printable length</b>	<b>Rigid</b>	Max 53 in. (1,350 mm) when 1 table is connected Max 83 in. (2,120 mm) when 2 tables are connected
<b>Maximum media weight</b>		99 lbs/ft <sup>2</sup>
<b>Maximum roll diameter</b>	<b>Roll</b>	12.6 in. outer diameter
<b>Maximum media weight</b>		220 lbs/roll
<b>Maximum media thickness</b>		2 in.
<b>Printer size</b>		14 ft x 3.25 ft x 5 ft (without the table) 14 ft x 8.3 ft x 5 ft (with the table)
<b>Recommended operational area</b>		26 ft x 18 ft (8 x 5.53 m) * this is only when 2 table is connected on either side
<b>Compressed air</b>		>0.2 MPa. 0.6 MPa is recommended (40L/min air flow capacity)
<b>Weight</b>		Printer - 3,307 lbs (1500 kg) Each table - 207 lbs (94 kg)

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## Acuity Prime Hybrid Speeds

Roll Media			
Smoothing modes	33	66	100
Sketch	1518	1242	1173
Draft	990	786	657
Express	657	570	431
Production	463	409	301
Quality	301	291	205
Fine Art	237	226	151

\*Speeds in ft<sup>2</sup>/hr

Rigid Media			
Smoothing modes	33	66	100
Sketch	43	29	28
Draft	25	19	17
Express	17	14	11
Production	11	11	8
Quality	8	7	5
Fine Art	5	5	3

\*Speeds in ft<sup>2</sup>/hr and based on a 4 ft x 8 ft board

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# An Acuity for everyone



**Acuity Prime**



**Acuity Prime Hybrid**



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**Acuity Ultra R2**



**Acuity Ultra Hybrid LED**



**Support you can  
count on**



# Service & support essentials

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**Our commitment to delivering unrivalled service and support helps to build the long-term customer relationships that are a hallmark of partnering with Fujifilm.**

- Professional installation
- Operator training
- Color management
- Workflow and RIP software integration
- Professional services
- Online support portal
- Strategically located support team



Find more information at:  
[print-us.fujifilm.com](https://print-us.fujifilm.com)



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