VANGUARD
DIGITAL PRINTING SYSTEMS

GROWING YOUR BUSINESS TOGETHER

Vanguard Digital Printing Portfolio

Fixed Table Flatbeds

VK300D-HS VK300D-HVT VK300D-SS

VK300D-HVT
120,000 1/8" holes on the VK300D-HVT & VK300D-SS vacuum table for superior vacuum power.

VK300D-HS

Built on the 4-time award winning series, the 5' x 10' VK300D-HS LED UV fixed table flatbed is the best 5' x 10' digital flatbed printer, period! This fully featured printer revolutionizes the industry with a high-speed electromagnetic drive system that propels the carriage at speeds up to 2.2m per second for an incredible 60 boards per hour. This impressive advancement ensures your business will out produce any competitor.
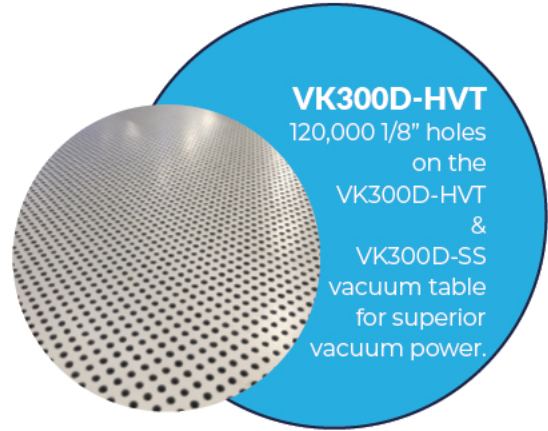
The VK300D-HS comes equipped with industrial Kyocera KJ4A print heads that deliver print dots as small as 3.5pl ensuring tight dot placement for vivid output on virtually any substrate up to 4" thick. Other features include auto height detection, one-touch pin registration, front-to-back and back-to-front printing, water cooled LED curing technology, ionization bars, 6 reversible vacuum zones and supports CMYK, LC, LM, W & V. The VK300D-HS is engineered to grow with your business and is field expandable up to 10 print heads via 2 print rows.

The VK300D-SS

The VK300D-SS is the exclusive table upgrade of the VK300D-HS manufactured with a customized honeycomb tabletop made for wood, aluminum and other hard to hold down substrates. The SS version utilizes an enhanced suction system that employs 120K 1/8th inch holes, 2 independent vacuum zones and 2 - 5hp Spencer blowers to smooth out the most warped material for improved, uninterrupted printing.

VK300D-HVT

The VK300D-HVT is the big brother of table upgrades. Built with a custom milled aluminum tabletop made specifically for corrugated package printing, this table will have your team producing at an incredible pace without the fear of curled substrates and head strikes. The table is made up of 120K 1/8th inch holes and 2 – 7.5 HP Spencer blowers for maximum substrate stability while printing.

VK300D-HS VK300D-HVT VK300D-SS

Print Head	Kyocera KJ4a
Qty. of Heads	Up to 10
Max Print Thick.	4"
Ink Config.	CMYK+LcLm+W+V
Max Print Area	62" x 125"
Machine Dim.	18'7" x 8'3" x 4'9"
Electrical Req. *	2x 220v	30A	1 Phase
Air Req.	80-100 PSI

Single Row Print Speeds	
Express	N/A
Production	1,500 Sq ft/h
Quality	600 Sq ft/h
High Quality	400 Sq ft/h

Dual Row Print Speeds	
Express	N/A
Production	2,900 Sq ft/h
Quality	1,150 Sq ft/h
High Quality	800 Sq ft/h

*VK300D-HVT & SS Additional Electrical Requirements: 2x 480 | 20A | 3Phase

VKM600T-HS

VKM600T-HS

The VKM600T-HS is the most advanced 4' x 8' flatbed on the market today. It combines the latest state-of-the-art Konica Minolta 1024aSHE print head technology and high speed magnetic drive for delivering unparalleled speed, resolution and quality.

Cutting-edge features include environmentally responsible LED curing technology, static eliminating ionization bars, 4 vacuum zones, 6-12-18 picoliter drop size, support for CMYK, LC, LM, W, V inks, a 50" x 99" print area, and so much more.

The VKM600T-HS can be configured in a number of ways to fit your needs as your business grows. The option to be field upgradeable up to 15 heads/3 rows allows you to expand your capabilities and never slows you down.

The VKM600T-HS sets the standard for all UV flatbeds.

VKM600T-HS	
Print Head	Konica 1024a
Qty. of Heads	Up to 15
Max Print Thick.	4"
Ink Config.	CMYK+LcLm+W+V
Max Print Area	50" x 99"
Machine Dim.	16'10" x 7'3" x 4'9"
Electrical Req.	2x 220v | 30A | 1 Phase
Air Req.	80-100 PSI
Single Row Print Speeds	
Express	N/A
Production	800 Sq ft/h
Quality	352 Sq ft/h
High Quality	274 Sq ft/h
Dual Row Print Speeds	
Express	N/A
Production	1,280 Sq ft/h
Quality	576 Sq ft/h
High Quality	384 Sq ft/h
Triple Row Print Speeds	
Express	N/A
Production	1,760 Sq ft/h
Quality	800 Sq ft/h
High Quality	544 Sq ft/h

Vanguard Cutting Edge Technology

ALIGNGUARD
Air assisted pin registration provides precise media alignment with every print.

PRESSUREGUARD
Provides stability within the negative pressure system which increases the life cycle of critical components.

CUREGUARD
Precisely adjustable LED curing technology allows you to print to more substrates with greater control.

ACCUGUARD
A metal raster strip provides the most accurate dot placement in the industry.

PRINTGUARD
Reduce time and waste with pinpoint accurate print resuming after a crash sensor has been reset.

NOISEGUARD
Twin mufflers reduce the noise level of the powerful media vacuum pumps.

BANDGUARD
Virtually eliminate chromatic banding, allowing you to print at faster speeds and better quality.

TIMEGUARD
Increase productivity and reduce labor by accurately printing from front to back and back to front.

MEDIAGUARD
Measure media thickness with our auto-height detection system in just a matter of seconds.

STATICGUARD
Be proactive by reducing static charges on acrylics and other positively charged substrates.

VR5D-E

VR5D-E

Our VR5D-E is the most feature rich, entry level 4' x 8' true LED UV flatbed printer on the market. With industry-proven, dual-color, Ricoh Gen5 print heads, you can expect both quality and speed, up to 12 boards an hour, at a very affordable starting price. The VR5D-E is also field upgradeable, up to 10 print heads in 2 rows (2x5), for increased production. While pricing is entry level the VR5D-E is an Industrial, High Production Printer engineered for worry-free maintenance and ease of operation. High production with low operating cost is at your fingertips!

The VR5D-E supports CMYK W V printing while utilizing 7-14-21 pl dots for vivid color output on substrates up to 4" thick. Other features include auto height detection, one-touch pin registration, front-to-back and back-to-front printing and 4 reversible vacuum zones. The end result is a versatile printer that helps you increase your job applications and grows with your business.

VR5D-E

Print Head	Ricoh Gen5
Qty. of Heads	Up to 10
Max Print Thick.	4"
Ink Config.	CMYK+LcLm+W+V
Max Print Area	50" x 99"
Machine Dim.	15'4" x 6'7" x 4'9"
Electrical Req.	2x 220v	30A	1 Phase
Air Req.	80-100 PSI

Single Row Print Speeds	
Express	428 Sq ft/h
Production	322 Sq ft/h
Quality	274 Sq ft/h
High Quality	180 Sq ft/h

Dual Row Print Speeds	
Express	648 Sq ft/h
Production	535 Sq ft/h
Quality	476 Sq ft/h
High Quality	320 Sq ft/h

VKR3200-HS

VKR3200-HS

The robust VKR3200-HS 3.2 meter (126") true roll-to-roll UV LED printer is capable of producing 3000 sq.ft.hr. utilizing Kyocera's 4.25" KJ4A print head and high-speed electromagnetic drive system. The KJ4A is a two-channel print head design that supports two colors at a time. The small 3.5, 7, 11 picoliter drop size ensures tight dot placement for a vividly printed output on sub-strates up to 1" thick. These advanced features make it the fastest and most accurate printer in its class.

The VKR3200-HS is field expandable up to two rows of heads for a total of 8 and supports CMYK, Lc, Lm, plus W. This robust 3.2m / 126" roll-to-roll flatbed is powered by the Kyocera KJ4a 4.25" printhead which has an astonishing 2,656 nozzles and is capable of jetting 3.5, 7 & 14 picoliter dot sizes so you can achieve near continuous tone quality. The VKR3200-HS also comes standard with water cooled LED curing lamps, dual-roll printing capability and an ink-catch for mesh banner, window film and other ports materials.

VKR3200-HS

Print Head	Kyocera KJ4A
Qty. of Heads	Up to 8
Ink Config.	CMYK+LcLm+W+V
Max Print Width	3.2m / 126"
Max Roll Dia.	15.75"
Max Roll Weight	440 lbs
Machine Dim.	18' 10" x 3' 9.3" x 5' x 11"
Electrical Req.	2x 220v	30A	1 Phase
Air Req.	80-100 PSI

Single Row Print Speeds	
Express	N/A
Production	1,500 Sq ft/h
Quality	600 Sq ft/h
High Quality	400 Sq ft/h

Dual Row Print Speeds	
Express	N/A
Production	2,900 Sq ft/h
Quality	1,150 Sq ft/h
High Quality	800 Sq ft/h

Single Pass UV Press

VSP2400

VSP2400-RTR

VSP2400

The VSP2400 is Vanguard Digital's newest Single Pass Rigid UV printer press – delivering exceptional speed and quality!

Ultra high-resolution "waterfall" inkjet technology produces amazing images at speeds up to 23,040 sq.ft.hr. The VSP2400 is built with variable drop grayscale technology that simultaneously jets eight-drop sizes for breathtaking detail and quality.

The VSP2400 prints traditional materials including foam-board, recycled paper, coroplast, etc. A wide array LED-curing system provides maximum instantaneous curing at the lowest electrical cost possible. Print boards up to 49" wide x 104" long with auto-loading and precise pinpoint registration. An optional material auto-feeding and stacking unit is available for hands-free productivity.

VSP2400-RTR

Vanguard Digital introduces its newest Single Pass printer to its line, the VSP2400-RTR. The VSP2400-RTR is a dedicated roll printer utilizing state of the art Konica Minolta 1800i Greyscale printheads, firing a dot as small as 3.5pl. The VSP2400-RTR is capable of printing paper and plastic based substrates up to .033mm thick, as speed up to 150' per minute.

	VSP2400	VSP2400-RTR
Print Head	Konica Minolta 1024i	Konica Minolta 1024i
Qty. of Heads	108	108
Max Print Thick.	1.18"	Customizable
Ink Config.	CMYK	CMYK
Max Print Area	49" x 104"	Customizable
Machine Dim.	17'6" x 8' x 7'2"	5'3" x 9'8" x 7'8"
Electrical Req.	380V | 3 Phase	380V | 3 Phase
Air Req.	included	included
Curing System	LED Technology	LED Technology
Single Row Print Speeds		
Express	N/A	N/A
Production	28,320 Sq ft/h	8,850 Sq ft/h
Quality	N/A	N/A
High Quality	18,897 Sq ft/h	1,968 Sq ft/h

Vanguard Digital's single pass printers use proprietary waterfall technology that lays the ink down on to the substrate as it passes below the substrate. Precise dot control and robust engineering results in outstanding quality for mass production.

The drum feeding system allows for non-stop printing with auto-roll seaming at widths up to 32", and customizable to accommodate widths up to 49". The robust 6 color UV ink system allows the material to dry instantly after printing, while offering a matte or gloss finish.

The VSP2400-RTR was designed for the production printing of polybags, wallpaper, banners, and other flexible substrates at production speeds and outstanding quality.

The possibilities are endless with this astonishing high production printer!

VANGUARD

THE BEST BUSINESS PARTNER TO INCREASE THE GROWTH OF YOUR BUSINESS

Product of the Year – 4 Years in a Row

2019 Product of the Year SGIA — UV Hybrid/Flatbed High Volume Prod. Class

2018 Product of the Year SGIA — UV Flatbed (under $100,000)

2018 Product of the Year SGIA — UV Flatbed ($100,000–$200,000)

2018 Product of the Year SGIA — UV Flatbed + White ($100,000–$200,000)

2017 Product of the Year SGIA — UV Flatbed ($100K – $200K)

2016 Product of the Year SGIA — UV Flatbed ($100K – $200K)

Vanguard Digital Printing Systems is building a proud history of adapting products to meet their family of clients' needs by defining the market through ever evolving innovation, technology, quality, and speed. We don't force our clients to adapt to our equipment, but rather, we adapt our equipment to fit the needs of our clients' unique applications.

VAN•GUARD / van•guärd / noun:
A group of people leading the way in new developments and ideas.

VANGUARD
DIGITAL PRINTING SYSTEMS

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