VANGUARD™
DIGITAL PRINTING SYSTEMS
A Durst Group Company

GROWING YOUR BUSINESS TOGETHER

VK3220T-HS

For more information,
please visit

vanguarddigital.eu

VK3220T-HS

ULTRA-PRODUCTIVE FLATBED
UV-LED PRINTER

GREENGUARD
CERTIFIED INK

The VK3220T-HS redefines the meaning of productivity on a 3.2 x 2 meter UV-LED flatbed. With up to three rows of printheads, print speeds can reach over 360 m²/h. Utilizing 4 picoliter drop size Kyocera heads and a high-speed magnetic drive, there's no compromise on speed to achieve remarkable quality. With the ability to print up to 10cm thick, the only limitation is your imagination.

VK3220T-HS	
Print Head	Kyocera
Qty. of Heads	15 (5 x 3 rows)
Max Print Thickness	10 cm
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print	320 cm x 205 cm
Dimension	563 cm x 329 cm x 154 cm
Electrical Requirements	2 x 220V | 32 A | 1 phase 1 x 220V | 16 A | 1 phase
Air Requirement	6 - 8 bar

SINGLE ROW PRINT SPEEDS

Express	Up to 245 m²/h
Production	Up to 105 m²/h
Quality	Up to 53 m²/h
High Quality	Up to 20 m²/h

DUAL ROW PRINT SPEEDS

Express	Up to 317 m²/h
Production	Up to 225 m²/h
Quality	Up to 98 m²/h
High Quality	Up to 36 m²/h

TRIPLE ROW PRINT SPEEDS

Express	Up to 360 m²/h
Production	Up to 274 m²/h
Quality	Up to 162 m²/h
High Quality	Up to 52 m²/h

VK300D-HS

FLATBED UV-LED PRINTER

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The VK300D-HS is a part of our 6-time award winning VK300D Series. It is a fully featured printer that has revolutionized the industry with a high-speed electromagnetic drive system that propels the carriage at speeds up to 1.8 m per second for an incredible speeds up to 317 m²/h. These impressive advancements ensure your business will outperform any competitor.

The VK300D-HS comes equipped with industrial Kyocera KJ4A print heads that deliver print dots as small as 4 picoliter drop size ensuring tight dot placement for vivid output on virtually any substrate up to 10 cm thick.

Other features include auto height detection, one-touch pin registration, front-to-back and back-to-front printing, liquid cooled LED curing technology, static suppression bars, and reversible vacuum zones. Engineered to grow with your business, the VK300D-HS is available with 2 printheads, and can be expanded up to 10 printheads in the field.

VK300D-HS

Print Head	Kyocera KJ4A
Qty. of Heads	Up to 10
Max Print Thickness	Up to 10 cm
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print Size	157 cm x 320 cm
Dimension	578 cm x 248 cm x 153 cm
Electrical Requirement	2 x 220 v | 32 A | 1 phase 1 x 220 V | 16 A | 1 phase
Air Requirement	6-8 bar

SINGLE ROW PRINT SPEEDS

Production	Up to 139 m²/h
Quality	Up to 56 m²/h
High Quality	Up to 37 m²/h

DUAL ROW PRINT SPEEDS

Express	Up to 317 m²/h
Production	Up to 255 m²/h
Quality	Up to 98 m²/h
High Quality	Up to 49 m²/h

VK300D-HVT

FLATBED UV-LED PRINTER

127.000 3mm holes on the vacuum table for superior vacuum power.

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Built on the same award winning VK300D-HS platform with all the robust functionality, the VK300D-HVT is the big brother of table upgrades. Built with a custom milled aluminum tabletop made specifically for corrugated package printing, this flatbed will have your team producing at an incredible pace without the fear of curled substrates and head strikes. The vacuum table is made up of 127.000 3 mm holes and two adjustable 5.5 kilowatt vacuum blower motors for maximum substrate stability while printing.

VK300D-HVT

Print Head	Kyocera KJ4A
Qty. of Heads	Up to 10
Max Print Thickness	10 cm
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print Size	157 cm x 320 cm
Dimension	578 cm x 248 cm x 153 cm
Electrical Requirement	2 x 220V | 32A | 1 phase
	1 x 220V | 16A | 1 phase
Vacuum Electrical	2 x 380V | 16A | 3 phase
Air Requirement	6-8 bar

SINGLE ROW PRINT SPEEDS

Production	Up to 139 m²/h
Quality	Up to 56 m²/h
High Quality	Up to 37 m²/h

DUAL ROW PRINT SPEEDS

Express	Up to 317 m²/h
Production	Up to 255 m²/h
Quality	Up to 98 m²/h
High Quality	Up to 48 m²/h

VK300D-SS

FLATBED UV-LED PRINTER

GREENGUARD
CERTIFIED INK

127.000 3mm holes on the vacuum table for superior vacuum power.

The VK300D-SS features an upgraded robust vacuum table. Built with a custom milled aluminum vacuum table designed specifically to pull down the most warped substrates. The VK300D-SS reduces the risk of head strikes and offers you peace of mind when printing severely warped materials. The vacuum table is made up of 127.000 3 mm holes and two 3.5 kilowatt vacuum motors for maximum substrate stability while printing.

VK300D-SS

Print Head	Kyocera KJ4A
Qty. of Heads	Up to 10
Max Print Thickness	10 cm
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print Size	157 cm x 320 cm
Dimension	578 cm x 248 cm x 153 cm
Electrical Requirement	2 x 220V	32A	1 phase
	1 x 220V	16A	1 phase
Vacuum Electrical	2 x 380V	16A	3 phase
Air Requirement	6-8 bar

SINGLE ROW PRINT SPEEDS

Production	Up to 139 m^2/h
Quality	Up to 56 m^2/h
High Quality	Up to 37 m^2/h

DUAL ROW PRINT SPEEDS

Express	Up to 317 m^2/h
Production	Up to 255 m^2/h
Quality	Up to 98 m^2/h
High Quality	Up to 48 m^2/h

VR6D-HS

THE MOST REVOLUTIONARY
FLATBED UV-LED PRINTER

The VR6D-HS is the most advanced 127 cm x 254 cm flatbed on the market today. It combines the latest state-of-the-art Ricoh Gen 6 print head technology and high-speed magnetic drive unparalleled speed, resolution and quality.

**GREENGUARD
CERTIFIED INK**

CUTTING-EDGE FEATURES INCLUDE:

- Environmentally responsible LED curing technology
- Static suppressing ionization bars
- 4 vacuum zones
- 5 picoliter drop size
- Support for CMYK + W + V inks
- 127 cm x 254 cm print area
- 3 carriage speeds up to 1.8 m/s

The VR6D-HS can be configured in a number of ways to fit your needs as your business grows. The option to be field upgradeable with up to 10 heads (5 x 2) rows allows you to expand your capabilities and never slows you down.

The VR6D-HS sets a new standard for all UV flatbeds.

VR6D-HS	
Print Head	Ricoh Gen 6
Qty. of Heads	Up to 10
Max Print Thickness	Up to 10 cm
Ink Configuration	CMYK + W + V + Lm + Lc
Max Print	127 cm x 254 cm
Dimension	467 cm x 200 cm x 145 cm
Electrical Requirement	2 x 220 V | 32 A | 1 phase 1 x 220 V | 16 A | 1 phase
Air Requirement	6-8 bar

SINGLE ROW PRINT SPEEDS	
Express	Up to 93 m²/h
Production	Up to 33 m²/h
Quality	Up to 25 m²/h
High Quality	Up to 20 m²/h

DUAL ROW PRINT SPEEDS	
Express	Up to 145 m²/h
Production	Up to 65 m²/h
Quality	Up to 49 m²/h
High Quality	Up to 39 m²/h

VR5D-E

ENTRY LEVEL FLATBED UV-LED PRINTER

Our VR5D-E is the most feature rich, entry level 127 cm x 254 cm true UV-LED fixed table on the market. Utilizing industry-proven, Ricoh Gen5 print heads, you can expect both quality and speed, at an affordable starting price.

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The VR5D-E is field upgradeable, with up to 10 print heads in 2 rows (2x5), for increased production. While pricing is entry level, the VR5D-E is an Industrial printer engineered for worry-free maintenance and ease of operation. High production workflow operating cost is at your fingertips!

The VR5D-E supports CMYK + W + V + Lc + Lm printing while utilizing 7 pL dots for vivid color output on substrates up to 10 cm 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 expand your job applications and grows with your business.

VR5D-E	
Print Head	Ricoh Gen 5
Qty. of Heads	Up to 10
Max Print Thickness	Up to 10 cm
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print	127 cm x 254 cm
Dimension	467 cm x 200 cm x 145 cm
Electrical Requirement	2 x 220 V | 32 A | 1 phase 1 x 220 V | 16 A | 1 phase
Air Requirement	6-8 bar

SINGLE ROW PRINT SPEEDS	
Production	Up to 35 m²/h
Quality	Up to 17 m²/h
High Quality	Up to 13 m²/h
DUAL ROW PRINT SPEEDS	
Express	Up to 60 m²/h
Production	Up to 50 m²/h
Quality	Up to 44 m²/h
High Quality	Up to 30 m²/h

VKR3200-HS

ROLL TO ROLL UV-LED

The robust VKR3200-HS 3.2 meter roll-to-roll UV-LED printer capable of producing up to 269 m²/h utilizing Kyocera's 11 cm wide KJ4A print head and high-speed electromagnetic drive system.

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The KJ4A is a dual channel print head design that supports two colors at a time. The small 4 picoliter drop size ensures tight dot placement for a vividly printed output on flexible substrates up to 2.5 cm 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 + W + V + Lc + Lm The VKR3200-HS also comes standard with liquid cooled LED curing lamps, dual-roll printing capability and an ink-catch for mesh banner, window film, edge-to-edge printing, textile materials and other porous materials.

VKR3200-HS

Print Head	Kyocera KJ4A
Qty. of Heads	Up to 8
Ink Configuration	CMYK + W + V + Lc + Lm
Max Print Width	320 cm
Max Roll Diameter	40 cm
Max Roll Weight	200 kg
Dimension	575 cm x 99 cm x 190 cm
Electrical Requirement	1 x 220 V | 32 A | 1 phase 1 x 220 V | 16 A | 1 phase
Air Requirement	6-7 bar

SINGLE ROW PRINT SPEEDS

Express	Up to 245 m²/h
Production	Up to 105 m²/h
Quality	Up to 53 m²/h
High Quality	Up to 25 m²/h

DUAL ROW PRINT SPEEDS

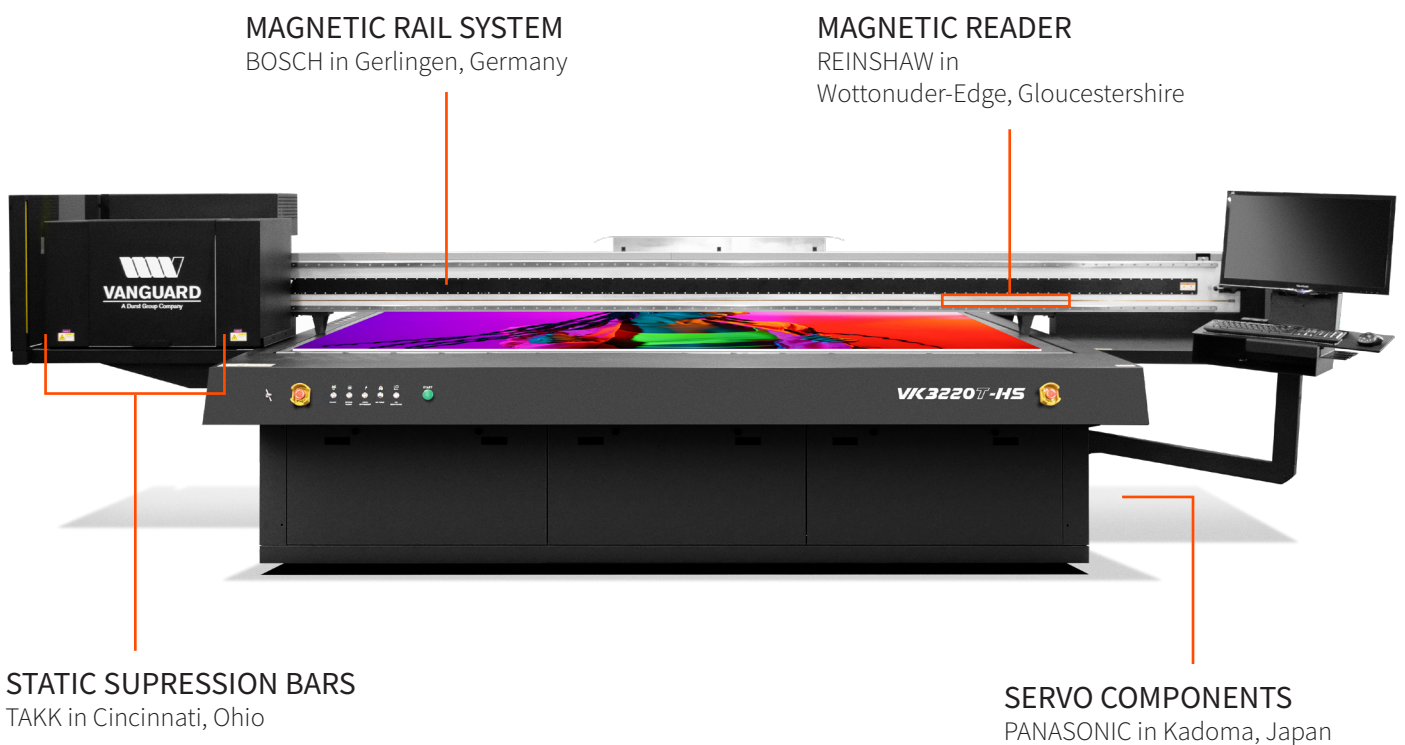|	
Express	Up to 317 m²/h
Production	Up to 225 m²/h
Quality	Up to 98 m²/h
High Quality	Up to 49 m²/h

COMPONENTS

INK PUMPS
KNF in Germany

FILTERS
PALL in Port Washing,
New York

PRINT HEADS
KYOCERA in Kyoto, Japan

MAGNETIC RAIL SYSTEM
BOSCH in Gerlingen, Germany

MAGNETIC READER
REINSHAW in
Wottonuder-Edge, Gloucestershire

STATIC SUPRESSION BARS
TAKK in Cincinnati, Ohio

SERVO COMPONENTS
PANASONIC in Kadoma, Japan

SERVICE & SUPPORT

Factory-trained Technicians

Our factory-trained team is deployed for installations, service requests, in-field upgrades, periodic maintenance and much more.

Service Contracts

Selected partners offer customized service- and maintenance contracts. Simply contact your local dealer for details.

Technical Academy

The Training Workshops at our Customer Experience Center provide our users with the opportunity to take part in an intimate overview of their printer model with operator, applications and maintenance training – all with a hands-on approach. There are also options for on-site training at your facility.

The Vanguard Technical Assistance Center offers:

◉ *Multi-level remote support to maximize customer uptime*

◉ *Phone support with dedicated, factory-trained service engineers*

◉ *The right experience levels to handle all cases*

◉ *Customer Portal, available to all our users, contains:*

- *Access to self-help technical bulletins & procedures*
- *Links for color management and best practices*
- *Supporting video supplements where possible*
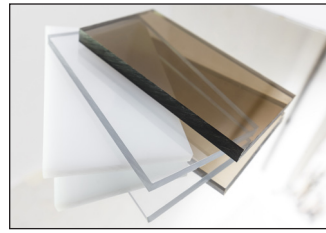- *Printer maintenance schedule*

APPLICATIONS:
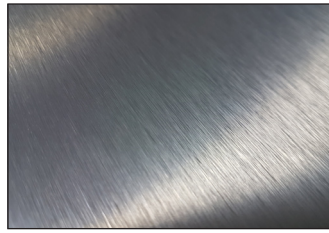
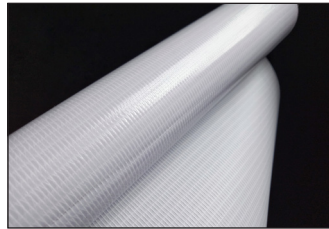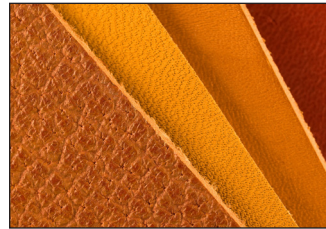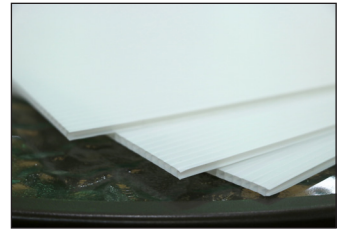|			
PVC	BRUSHED ALUMINUM	ACRYLIC	FOAM CORE BOARD
PORCELAIN	CANVAS	STONE	WOOD
BRICK	VINYL	LEATHER	COROPLAST
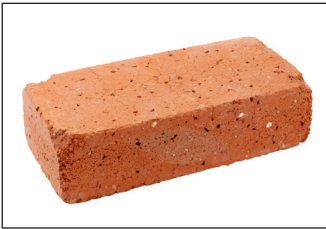
... AND MUCH MORE!

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 font-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 positivity charged substrates.

THE BEST BUSINESS PARTNER TO INCREASE THE GROWTH OF YOUR BUSINESS

Product of the Year - 8 Years in a Row!

Vanguard Digital Printing Systems - A Durst Group Company
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 application.

POWERED BY

durst DURST LSWA SOFTWARE & SOLUTIONS

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VANGUARD™
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