Rigid productivity by design

Océ Arizona 6100-Series

you can

Canon

As Display graphics print service providers strive to increase revenues and grow their business they face a number of key challenges:

- Delivering **high production** output without compromising on the image quality
- Having the **flexibility** to support a wide range of media and applications
- Handling **high volumes** and short lead times

Pushing the boundaries in rigid media print production

Purpose designed for graphics professionals and built without compromise, Océ Arizona 6100-Series dedicated high volume flatbed systems set new standards in high quality productivity, versatility and ease of use. Fast, efficient and easy to use with true flatbed architecture, they offer high quality print productivity for a wide variety of applications, with the ability to print on almost any rigid media or object.

Ideal for sign and display graphics print service providers with a production potential in excess of 30,000m^2 per year, the Océ Arizona 6100-Series offers a host of enhanced features and technological advances and includes two new models: a 6-colour Océ Arizona 6160 XTS and a 7-colour Océ Arizona 6170 XTS.
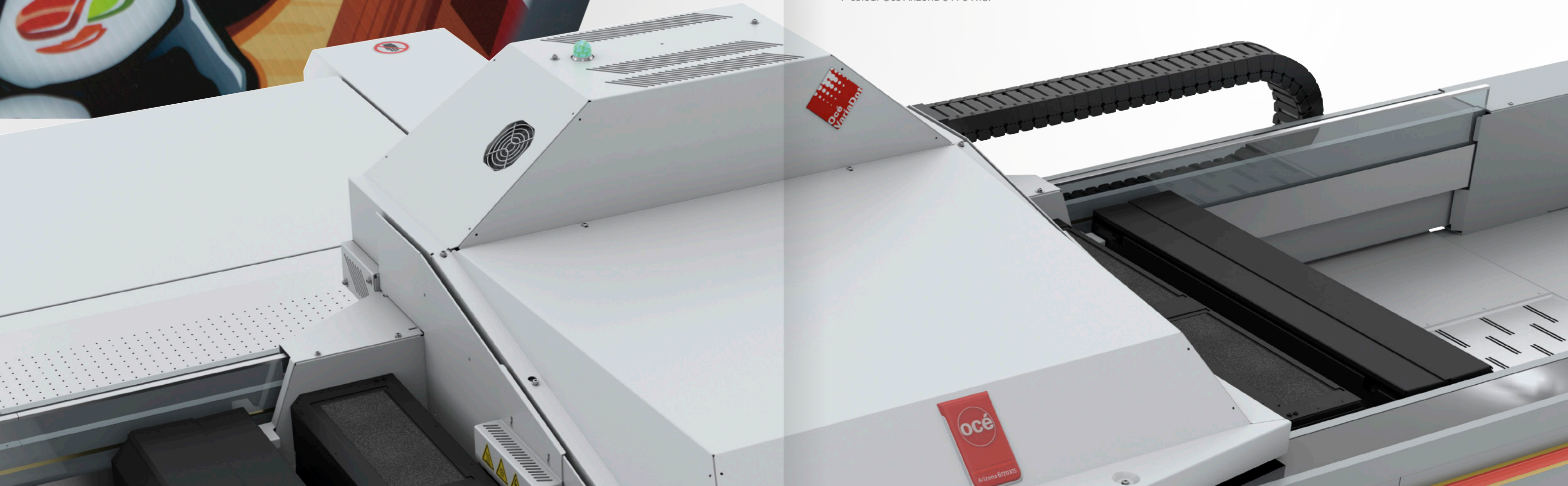
Both new models include an enhanced 6 colour Océ VariaDot™ imaging technology, automated printhead maintenance, pneumatic registration pins and a high flow and high pressure vacuum system for best-in-class image quality, productivity and print reliability. The Arizona 6100-Series offers an excellent return on investment and is fully backed by Canon service and support – offering a complete solution to help you grow your graphics display business securely and profitably.

High productivity without compromising on print quality

Impressive print speeds up to 155m^2 per hour

True flatbed architecture for versatile rigid media applications

Excellent reliability for non-stop printing

Innovations for outstanding customer benefits

The Océ Arizona 6100-Series incorporates a range of innovative technologies to reliably deliver outstanding print quality, excellent end-to-end productivity, smart flexibility and versatile media handling.

Exceptional quality

New 6 colour Océ VariaDot™ Imaging technology

The Océ Arizona 6100-Series represents a new step in the award winning Océ VariaDot™ imaging technology – creating a breakthrough in high quality productive inkjet printing. The new 6 colour VariaDot Imaging Technology combines light colours (Light Cyan and Light Magenta) with variable dot size printing and even improves the "near photographic" print quality as is offered by all Océ Arizona printers.

It creates banding-free prints at dazzling production print speeds and delivers even smoother colour transitions in quarter tones, like skin-tones. The Océ Arizona 6170 XTS adds an additional ink channel for white ink printing. White ink extends the application set with some interesting high value applications, such as printing on none white substrates, printing on transparent media using white spot or flood layers or printing frontlit / backlit applications using the Arizona Day-Night print strategy.

Active Pixel Placement Compensation

The flatbed table is measured and mapped to determine the table and system flatness and pixel placement is actively adjusted to ensure that every pixel is placed on the media where intended - for accurate, uniform print geometry over the entire flatbed table. Active Pixel Placement Compensation delivers extra-sharp lines, text and images over the entire flatbed table.

Produce almost **200 boards** (size 1.25 x 2.5 m) in a single 8 hours shift.

Banding-free prints at dazzling production print speeds

Productivity by design

High quality production speeds

Designed from the ground up as a rigid media productivity platform, the Arizona Océ 6100-Series features almost 27,000 piezoelectric nozzles for fast, reliable inkjet print production – 2.5 times faster than the fastest Arizona printer on the market today. It offers print speeds up to 155 m²/h and delivers excellent and predicatble print quality at production print speeds up to 100 m²/hr.

It means that you can produce almost 200 boards (size 1.25 x 2.5 m) in a single 8 hours shift.

To improve on the "near photographic" Arizona print quality at these kinds of speeds the Arizona 6100-Series incorporates a carriage that 'floats on air'. The carriage contains up to 42 printheads and weighs almost 100 kg, yet moves at constant speeds approx 1.4mm over the surface of the media. Two carriage beams are used to move the carriage over the flatbed table. To print on rigid media of different thickness (up to 50,8 mm) the two carriage beams move up and down to position the carriage precisely and accurately above the rigid media.

Innovative use of glass in the design and construction of the carriage beams gives the beams the required flatness needed to move the carriage smoothly and accurately at a very precise and constant height over the width of the complete flatbed table. The carriage is attached to the glass beams by means of air-bearings. The air-bearings produce a thin layer of air between the porous surface of the air-bearings and the glass beams. The carriage floats on a thin layer of air, eliminating any possible mechanical noise that can sometimes be picked up when using traditional bearing techniques.

Continuous printing

An extra-large, dual origin flatbed table with two independent print zones allows for non-stop production of standard size 1.25 x 2.5 m boards, with simultaneous printing and media loading/unloading. Pneumatic registration pins in both print zones ensure quick, repeatable and easy loading of rigid media in perfect register every time. Continuous printing of mixed jobs is also possible – with single sided or double-sided prints in perfect registry.

Efficient operation

The Océ Arizona 6100-Series is extremely efficient to operate – thanks to the true flatbed architecture. Boards are loaded and, after printing, unloaded from the same side of the printer. There is no need to walk around the printer for these repetitive tasks. It also only requires a single operator to load/unload boards of 2 Océ Arizona 6100-Series printers.

Automatic Printhead Maintenance

An innovative Automated Printhead Maintenance System (APMS) eliminates the need for operators to perform daily manual maintenance. It provides completely hands-free printhead cleaning in less than 25 seconds per colour. Maintaining all 6 colours takes less that 3 minutes and your production is ready to take off. The APMS automatically cleans the printheads and removes the ink purged out of the nozzles with the help of vacuum. This way all of the nearly 27,000 nozzles in the Océ Arizona 6100-Series are cleaned and kept in perfect condition. It ensures consistent nozzle performance, print after print, and maximised uptime – Without the need for manual cleaning by the operator, avoiding a lot of mess and hassle. The system can be activated for a single colour to save valuable time.

Superb, flexible media handling

The Océ Arizona 6100-Series incorporates a range of innovative technologies to reliably deliver outstanding print quality, excellent end-to-end productivity, smart flexibility and versatile media handling.

True flatbed architecture

Each Océ Arizona 6100-Series printer uses the undisputed best architecture for rigid media printing applications - a true flatbed design. The media is held stationary on a flat surface by a vacuum system, ensuring accurate registration even on multiple imaging passes.

The true flatbed architecture enables you to print on a wide range of media, objects or applications, such as:

- Odd shaped, heavy, smooth or pre-cut media
- High value, multi-layer applications in perfect register
- Unusual media or objects
- Print edge-2-edge on media or objects
- Double-sided prints in perfect register
- Large images tiled over multiple boards with perfect geometry
- Media or objects of any size up to 2.5 x 3.05 meters

Unlike pinch roller or belt-drive systems, there is also no need to clean the drive system of excess ink between prints.

Future proof

Océ Arizona 6160 XTS printers are at any time easily expandable with one additional ink channel for white ink application support. An API (application programming interface) allows for easy integration with third-party automation systems such as third-party automated media load/unload systems.

Unmatched reliability and ease-of-use

Pneumatic registration pins ensure quick, repeatable, easy loading of rigid media in perfect register every time. Combined with a high-flow vacuum system for effective pull-down of even warped rigid media, it takes only seconds to load the largest boards. The high-pressure vacuum also exerts a strong holding force on the media for reliable hold-down during printing.

Canon – your perfect long term partner

We offer a total solution for the display graphics market to support your investment and help you grow your business securely and profitably. This includes printing and finishing hardware, software, consumables, service and financing.

Rest assured with Canon Service & Support

Our specialist technicians are professionally trained to work with every product in our range and – with vital spare parts readily available to keep your machines running. We also employ a worldwide team of Applications Specialists – printing experts with intensive training and years of experience – to assist you with training and applications support before and after your equipment is installed. So you can invest your energy in exploring new business opportunities.

Specifications: Océ Arizona 6100-Series

	Océ Arizona 6160 XTS	Océ Arizona 6170 XTS
PRINTER		
Machine type	High-volume UV Flatbed printer	
Printing method	Piezoelectric inkjet	
Number of nozzles	6 x 636 nozzle printheads per channel, 6 colour channels, 22,896 nozzles in total	6 x 636 nozzle printheads per channel, 7 colour channels, 26,712 nozzles in total
Image technology	Océ VariaDot® grayscale imaging technology	
Print resolution	6-42 picolitres resulting in near-photographic image quality and perfect 6-pt text	
PRINT MODES - MAX M²/HR		
Express	155	
Production	100	
Quality	72	
INK SYSTEM		
Colours	Océ IJC261 UV curable inks: Black, Cyan, Magenta, Yellow, Light Cyan, Light Magenta in 3 litre, quick-exchange pouches	Océ IJC261 UV curable inks: Black, Cyan, Magenta, Yellow, Light Cyan, Light Magenta in 3 litre, quick-exchange pouches White in a 2 litre, quick-exchange pouch
SYSTEM DESIGN		
True Flatbed	True flatbed architecture designed and build for optimised printing on rigid or sheet media or objects	
Media size	2.50 m x 3.05 m x 50.8 mm	
Print area	2.51 m x 3.06 m, edge-to-edge printing (full bleed)	
GEOMETRIC ACCURACY		
Line width	±0.8 mm max error, measured over 2.5 m	
Line length	±1.0 mm max error, measured over 3.05 m	
Line straightness/width	0.7 mm max error, measured over 2.5 m	
Line straightness/length	0.7 mm max error, measured over 3.05 m	
Diagonal Error	1.0 mm max error, measured over 3.05 m x 2.5 m	
INTERFACE & SOFTWARE		
Interface type	10/100/1000Base-T	
Production Management Software	TBD	
Image Processing Software	ONYX® Thrive™ v11.1 or greater	
OPERATING ENVIRONMENT		
Electrical	Three-phase, 200-240 VAC 50/60Hz 30A (Delta) OR Three-phase, 347-415 VAC 50/60Hz 20A (Wye)	
Continuous Power Consumption	9.6 kW (max)	
Compressed Air (supplied by customer)	Customer must provide pressure-regulated, clean, dry air by use of: - Coalescing filter - Air regulator (set to 105 psi / 723 kPa) - ½ inch OD air tubing − connects air regulator to printer Flow requirements: - Pressure (max): 120 psi / 827 kPa - Peak flow: 340 l/m at 100 psi / 690 kPa - Continuous flow: 1 ft3 at 100 psi / 28 l/m at 690 kPa	
Temperature	18˚ to 30˚ C	
Relative humidity	30-70%, non-condensing (certain media may require a smaller RH operating range)	
Room Ventilation	TBC	
Operating Altitude	2000 m	
Dimensions (printer only)	5.72 x 4.82 m	
Table height range (Min/Max)	0.895 to 0.915 m	
Overall height	1.48 m	
Weight (printer only)	1,815 kg	
CONSUMABLES		
mediaguide.oce.com	Visit our online guide to find the right media for your printer and application, including matching Océ color profiles	
OPTIONS & UPGRADE PATH		
Options	Colour Channel Upgrade - Add colour channel functionality to the printer at any time	None
Upgrade path	Field upgradeable to an Océ Arizona 6170 XTS model configuration - Adds White ink functionality for transparent, backlit and non-white media applications	None

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