



# OBERON RTR3300

High-volume 3.3 m roll-to-roll  
UV LED printer

The Oberon RTR3300 creates top-quality prints up to 3.3 m wide at speeds up to 150 m<sup>2</sup>. It comes in a six-color and a four-color plus white version.

**AGFA** 

# Oberon RTR3300

Dedicated 3.3 m high-volume roll-to-roll UV LED printer. Outstanding quality and a unique ease of use.

The Oberon RTR3300 is a dedicated 3.3 m high-end roll-to-roll machine that combines excellent print quality with high throughput and a unique ease of use and a set of smart features for optimized media consumption. As the Oberon RTR3300 relies on UV LED curing, it enables you to print on a wide media mix, while also saving energy, costs and time. It comes in a four color plus white and a six color version.

This sturdy and reliable workhorse incorporates the latest generation of fast-firing Kyocera print heads and is fit for sustained higher workloads. Next to single rolls, the Oberon RTR3300 can also handle dual-roll printing, enabling more efficient printing on smaller media.

## Detailed and vibrant prints

The set of six Kyocera 3.5 picoliter heads guarantees great print quality, with razor-sharp texts as small as 4 point legible sans serif text, and 6 point in negative, and very smooth tonal rendering. The Oberon inks achieve the most vibrant prints with surprisingly low ink consumption.



The Oberon RTR3300 comes in a four color plus white and a six color version. The four color plus white version stands out by its ability to print white in different modes. It thus transforms self-adhesive vinyl, static cling or backlit film into vibrant, multi-layered graphics that grab attention.

## Wide range of media and applications

Execute all your customers' creative dreams, while inspiring them to explore new directions too! Featuring UV LED curing and a water-cooled print plate that keeps the printing zone at room temperature, the Oberon RTR3300 is capable of printing on a wide range of flexible materials, even the most heat-sensitive ones. Save costs and broaden the horizon of your printing applications with Oberon's ability to print on mesh without requiring a liner.



Media that can be printed on include reinforced vinyl, pressure-sensitive vinyl, static cling, clear roll materials, block-out banner, canvas, mesh (with and without liner), fabrics (non-stretchy), paper, backlits, and more.



## White printing for enhanced prints

The Oberon RTR3300 4-color plus white operates with Agfa's latest generation of white inks, which are highly opaque. This means you obtain a qualitative white output with low ink consumption on colored or dark substrates, as well as on transparent material for backlit or backlit/frontlit applications.

## In a nutshell

- ✓ Extremely wide media and applications scope
- ✓ Dual-roll printing option for increased flexibility and convenience
- ✓ Liner-free printing on mesh
- ✓ Skip white capability for more efficient printing
- ✓ Outstanding ease of use
- ✓ Dedicated & certified Agfa-developed inks for the best quality and the lowest ink consumption
- ✓ Powered by Agfa's smart Asanti workflow



## Saving time, money and the environment with LED UV-curing

Relying 100% on fast UV LED curing, the Oberon RTR3300 comes with a number of economic and ecological benefits:

- LEDs have minimal heat output, allowing for printing on heat-sensitive substrates such as self-adhesive, static cling or PVC materials. Limited heat generation also enables very stable calibration.
- LED lamps can be switched on and off instantly, without any degradation of intensity. The result? Faster operations and higher productivity.
- LEDs last for at least 10,000 hours, generating a consistent UV output throughout. This guarantees consistent ink curing, hence consistent image quality.
- LEDs have a low energy consumption.
- There are no mercury disposal costs with UV LED lamps. Also, LEDs don't produce ozone gas that needs to be extracted by ventilation.

## Multi-layer printing

The multi-layer printing feature enables different printing modes on the four-color plus white version, including:

- **Pre-white:** printing white underneath color (W+C)
- **Post-white:** printing white on top of color (C+W)
- **Sandwich white (C+W+C) or multilayer sandwich white (C1 + W + C2)**
- **High-density color:** printing one color on top of another color for backlit applications (double or triple)
- **Blockout:** three colored layers with white layers in between (C1 + W1 + C2+ W2 + C3)

Print heads can be divided in several parts, and each part can be assigned to a different or identical image, to be used for single-run high density. This means that the Oberon RTR3300 allows to print up to three layers at once, in perfect registration, in one pass. Images come alive. Backlit prints are enhanced when using high-density white on one or more layers.



# Oberon RTR3300

## ROLL-TO-ROLL OR ROLL-TO-SHEET

The Oberon RTR3300 is ideal for long-run roll-to-roll jobs, but can also be used for roll-to-sheet – enabling fast throughput and hardly any material waste. Both single and dual-roll printing are possible.

### PERFECT DROPLET CONTROL

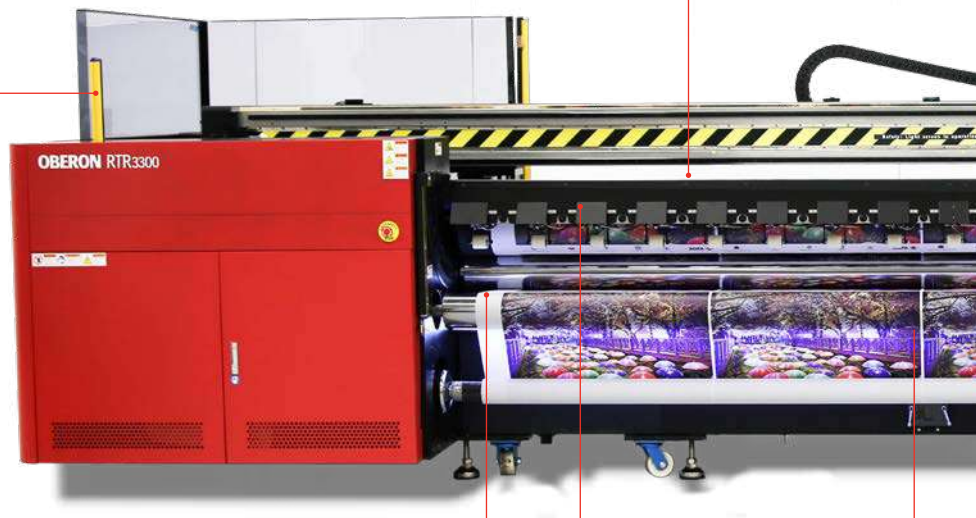
An ionizer bar sees to it that there are no electrostatic loads on the substrate, ensuring optimum ink droplet control and thus the highest print quality.

### REINFORCED BEAM & LINEAR MOTOR

A robust beam in combination with the printer's linear motor see to it that the shuttle moves about flawlessly ensuring accurate dot placement. The linear motor also warrants little maintenance and reduced noise and vibration, for a quieter work environment.

### DOUBLE LIGHT CURTAIN FOR UNINTERRUPTED PRINTING

When an operator accidentally moves into the safety zone, a double light curtain sends the print shuttle back to its home base. The print job keeps retained, ready to be continued as soon as possible. That way, no media or time go to waste.



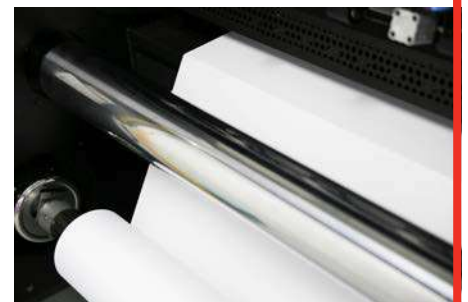
### CONVENIENT MESH PRINTING KIT

The dedicated mesh printing functionality makes printing on mesh (with or without liner) more convenient than ever.



### CONVENIENT MEDIA HANDLING

Thanks to its user-friendly build with carbon fiber shafts, pinch rollers and front & back pedals, a single operator can quickly load and unload the media.



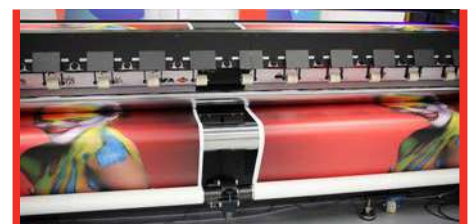
### QUALITY INSPECTION LIGHT BOX

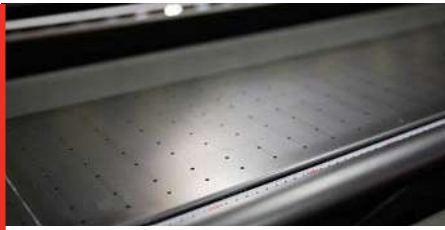
A light box next to the printing area allows for on-the-spot quality inspection of backlit prints.



### SINGLE-OR DUAL-ROLL

Single rolls can be up to 3.3 m wide, while in dual printing mode, rolls can be up to 1.6 m wide. Both single and dual rolls can be 600 mm in diameter and weigh up to 700 kg, depending on the roll width.





### WATER-COOLED PRINT PLATE

In addition to its air-cooled LED curing lamps, the Oberon RTR3300 features a unique water-cooled table that keeps the printing zone at room temperature. This enables smooth processing of any kind of heat-sensitive roll material, including lower cost media.



### DYNAMIC VACUUM

A vacuum system in four zones takes care of flawless media transport and accurate printing. Switch on the zone you need in case of small roll printing. In case of dual-roll printing, each roll gets the right vacuum applied.

### DETECTION & SAFETY SENSORS

Sensors automatically detect the media width and thickness. They also prevent print heads from touching the substrate, thus avoiding any possible damage.



### UV LED LAMPS

Air-cooled UV LED-curing lamps are energy-efficient and enable printing on thin heat-sensitive media, e.g. thin slides, self-adhesive sheets, or stretched ceiling materials made of PVC fabric.



### USER-FRIENDLY INTERFACE

The intuitive GUI provides details about the status of the printer, ink levels, settings and required maintenance. A list shows which jobs are ready to be printed, in queue, or already finished. 'Media recipes' control all parameters for a particular substrate. The multi-queue functionality guarantees effortless job planning in view of the available materials.



### FREE FALL PRINTING

Pinch rollers at the front and back of the transport rollers enable free fall printing. This comes in handy to print on demand and results in optimal media use by printing the maximum of substrate length.



### CLEAN AND ERGONOMIC INK SUPPLY SYSTEM

4-liter containers allow for long uninterrupted printing.



## The perfect match: Agfa-made inks

Specially formulated to print on flexible media, Agfa's Oberon UV LED inks broaden the scope of possible applications. Whatever the medium or intended use – general applications, indoor or outdoor – accuracy and excellent adhesion are a given.

### Vibrant colors, impressive results

Agfa-made UV inks boast a wide color gamut and high color vibrancy, resulting in lively yet natural prints that will impress and inspire every time. Agfa inks are LED cured instantly, delivering consistent high-quality results, batch after batch. What's more, this vividness is created to last, even when subjected to outdoor weather conditions.



### The lowest ink consumption out there

Thanks to Agfa's patented 'Thin Ink Layer' technology, which involves the optimal pigment dispersion of Agfa-made inks combined with Asanti's algorithms, ink consumption per square meter is the lowest on the market. However, this does not mean that the Oberon RTR3300 compromises on quality or performance in any way. Quite the opposite is true – it results in eye-catching prints while also preventing clogging, offering stable jetting performance and helping you save on your budget.

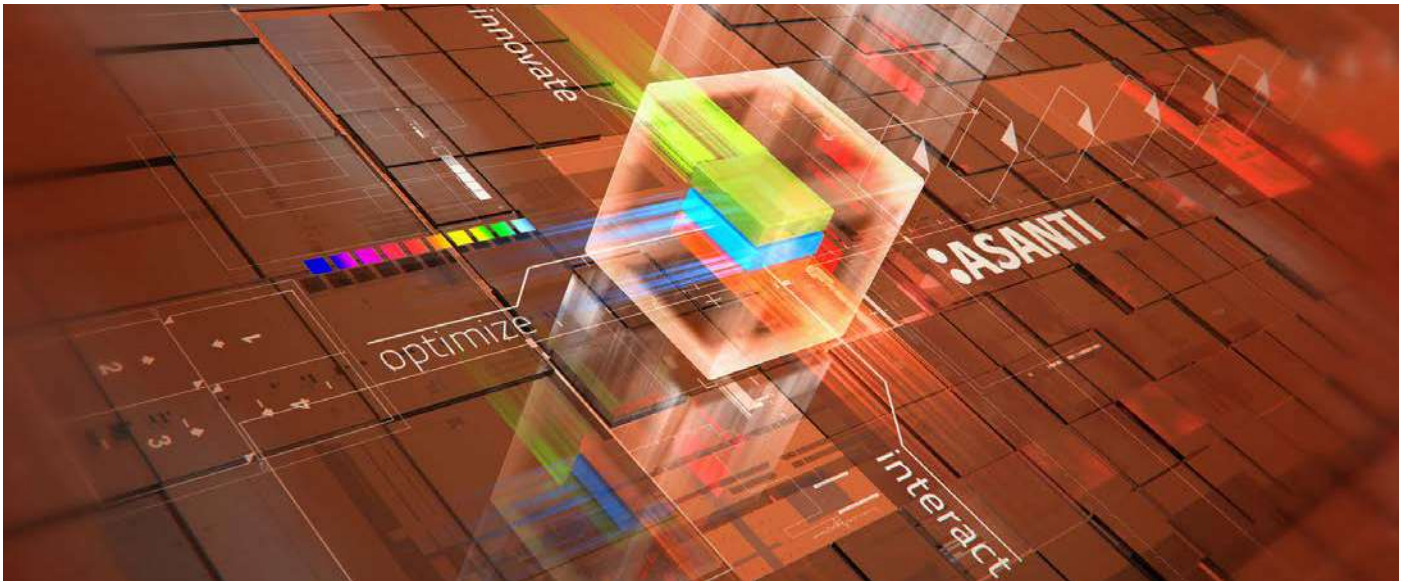
### Advanced white printing and ink management

The Oberon RTR3300 supports high-productivity white printing in multiple modes. Thanks to its stirring functionality, the engine keeps the white ink in motion. Ink lines in the main ink supply chain are under constant circulation – all the way to the temperature-controlled printer heads – limiting the risk of clogging.

### Compliant to industry norms

The ink sets used in the Oberon obtained the highest category of GREENGUARD Gold certification, which means they meet some of the world's most rigorous chemical emissions standards and can be used in sensitive indoor environments like schools or healthcare facilities.





# Dedicated Sign & Display workflow software

## Simplify & automate

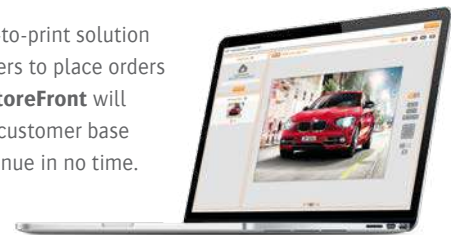
The Oberon RTR3300 is driven by Agfa's wide-format workflow software Asanti, which controls the entire printing process from prepress to production and finishing. As such, it simplifies, optimizes and automates as many steps as possible, offering you a high-performance solution for increased productivity.

Moreover, Asanti's smart imaging algorithms help optimize your ink consumption, and consequently, reduce your costs and environmental footprint. Asanti's comprehensive integration of file handling, color management and preflighting guarantees smooth, error-free jobs ready to send to the appropriate wide-format output devices.

Among other possibilities that Asanti offers are the creation of personalized productivity modes and job parameter reporting for increased control. 'Media recipes' control all parameters for a particular substrate.

## Web-to-print

As a cloud-based web-to-print solution that enables print buyers to place orders online 24/7, **Asanti StoreFront** will help you expand your customer base and increase your revenue in no time.



## Easy file sharing

The Oberon RTR3300 integrates perfectly with **PrintSphere**, Agfa's cloud-based service that offers a standardized way for production automation, easy file sharing and safe data storage.



## Extreme productivity. Extreme quality.

Reach new heights in printing quality and productivity for all your inkjet signs and displays. Go beyond current printing standards and produce extremely vivid prints at dazzling speeds. Experience the best of both worlds with Agfa. Outstanding quality has never come at a swifter pace.

Enter a new era of extreme productivity and quality with Agfa's inkjet printing solutions!

## Technical specifications

MODELS		
	<b>OBERON RTR3300 6-COLOR</b>	<b>OBERON RTR3300 4-COLOR + WHITE</b>
MEDIA & PRINTING SPECIFICATIONS		
<b>Print width (min-max)</b>	Single roll: 61-330 cm (24"-130") Dual roll: 61-160 cm (24"-63") Optional dual-roll kit available with support for two rolls	
<b>Borderless printing with mesh kit</b>	Up to 330 cm media width (130")	
<b>Media thickness</b>	Minimum: 0.2 mm (0.08") / Maximum: 3.0 mm (0.12")	
<b>Maximum roll weight (including shaft)</b>	160 kg (180kg) over 3.3 m or 0.5 kg/cm media width	
<b>Maximum roll diameter</b>	36 cm (14.17")	
PRODUCTIVITY		
<b>Draft mode</b>	224 m <sup>2</sup> /h (2411 ft <sup>2</sup> )	
<b>Express mode</b>	150 m <sup>2</sup> /h (1615 ft <sup>2</sup> )	
<b>Production mode</b>	85 m <sup>2</sup> /h (915 ft <sup>2</sup> )	
<b>Standard mode</b>	43 m <sup>2</sup> /h (463 ft <sup>2</sup> )	
<b>High-quality mode</b>	25 m <sup>2</sup> /h (269 ft <sup>2</sup> )	
PRINT HEADS & INKS		
<b>Print heads</b>	6 Kyocera high-frequency print heads	4 Kyocera high-frequency print heads
<b>Ink</b>	6 x CMYKcLm 1470 LED cura-ble inks GREENGUARD Gold certified	4 x CMYK + 2 x W Oberon 1470 LED curable inks (White is a factory-installed option.) GREENGUARD Gold certified
IMAGE & TEXT QUALITY		
<b>Image quality</b>	From express mode to high-quality mode	
<b>Text quality</b>	4 point legible sans serif text, and 6 point in negative	
ENGINE DIMENSIONS & WEIGHT		
<b>Printer dimensions (W x H x D)</b>	6620 x 1960 x 2040 cm (21.7 ft x 6.5 ft x 6.7 ft)	
<b>Printer weight</b>	4600 kg	
<b>Floor space</b>	9.62 x 4.36 m (31.5 ft x 14.3 ft)	
ROOM CONDITIONS		
<b>Temperature</b>	18-26°C (61-77°F)	
<b>Relative humidity</b>	35-70%	
ELECTRICITY & COMPRESSED AIR		
<b>Europe</b>	400 V 3-phase star connection with neutral wire (3 x 30A) 50/60 Hz	
<b>USA</b>	230 V 3-phase delta connection without neutral wire (3 x 30A) 50/60 Hz	
SYSTEM INTEGRATION RIP/WORKFLOW SOFTWARE		
Integrated solution with Asanti & PrintSphere; other RIPs on request Oberon RTR330 media/ink profiles standard on board with Asanti		
APPROVALS		
CE, FCC, NRTL, ROHS		

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