

ORALITE®
Engineered to Save Lives



Reflective Solutions

UV digital printing

Technology for the production of traffic signs

ORAFOL
ENGINEERED
FOR EXCELLENCE



ORAFOL – Technology Partner for Traffic Control

ORAFOL is one of the world's leading technology partners for road equipment suppliers and manufacturers of guidance systems and traffic signs.

As a full-range provider, the company offers premium retroreflective films across all reflection classes, advanced printing technologies, and comprehensive services, delivering integrated solutions throughout the entire manufacturing process.

Under the motto “Engineered to Save Lives”, ORALITE® premium solutions ensure maximum visibility, long-lasting performance, and consistent process efficiency. ORAFOL adheres to international standards and certifications, setting global benchmarks in quality and operational excellence.

ORALITE® UV Traffic Sign Printer

UV digital printing—certified and reliable

The ORALITE® UV Traffic Sign Printer, developed in cooperation with Agfa, has been a proven solution for premium conversion of reflective films from the ORALITE range for over 13 years.

The digital printing system comprises the ORALITE® UV Traffic Sign Printer based on the Agfa UV printing systems Anapurna H1650i LED, Anapurna H1650 LED XP and Anapurna Ciervo H3200 LED. In combination with ORALITE® 5019i UV Digital Printing Ink, all three systems enable the production of certified and non-certified, durable traffic signs.

The UV-curing inks used are characterised by high resistance to weathering and mechanical stress. Thanks to the use of modern LED technology, the ink cures immediately after printing, so that the printed films can be further processed without delay.

UV digital printing technology stands for reliable print quality, high efficiency and maximum process reliability.

It also provides the highest level of flexibility, allowing last-minute adjustments and fast response times—ideal for dynamic requirements and time-critical projects.



ORALITE®
UV Traffic Sign Printer XP
eXceptional Performance (Anapurna H1650
XP) for the production
of certified and non-
certified traffic signs.

ORALITE® UV Traffic Sign Printer

The versatile ORALITE® UV Traffic Sign Printer from ORAFOL and Agfa offers the ideal solution for certified and non-certified traffic signs.

This system can be used to produce particularly durable traffic signs; the UV-curing ink can withstand the most extreme conditions.



Technology advantages at a glance

- ✔ Certified, reliable printing solutions
- ✔ High efficiency thanks LED technology
- ✔ Excellent print quality with spot colours
- ✔ Worldwide service support
- ✔ Multiple laminate options
- ✔ Asanti workflow software
- ✔ Low-maintenance thanks to intelligent printhead self-maintenance

Things to Know

UV digital printing with LED technology

- ✔ Suitable for different material surfaces
- ✔ Environmentally friendly, solvent-free
- ✔ Ideal for print-on-demand and series production to be replaced by high volume printing
- ✔ Immediate drying and further processing

Advantages of LED curing

- ✔ Low energy consumption
- ✔ Constant UV output
- ✔ Reduced maintenance and operating costs
- ✔ Mercury-free (RoHS compliant)

Learn more about:
UV digital printing



ORALITE® UV Traffic Sign Printer Express (Anapurna H1650i LED)

Stable entry into certified UV digital printing

The ORALITE® UV Traffic Sign Printer Express, proven on the market since 2018, is the compact entry-level solution for professional traffic sign printing. Optimised print heads ensure significantly higher stability and reduce head errors in the long term— for reliable and economical operation.

Highlights

- ✓ High mechanical stability
- ✓ Sustainably proven print head technology
- ✓ UV LED curing allows immediate lamination

Key technical data

- ✓ Print width: max. 1.65 m
- ✓ Productivity: up to 22 m²/h (4-Pass)
- ✓ UV LED hybrid inkjet printing system

ORALITE® UV Traffic Sign Printer XP eXceptional Performance (Anapurna H1650 XP)

High-end performance in a compact design

The ORALITE® UV Traffic Sign Printer XP eXceptional Performance combines space-saving design with proven stability and quality. It is the ideal solution for users who do not need large-format systems but do not want to compromise on industrial performance.

Highlights

- ✓ Compact construction compliant with the latest EU safety standards
- ✓ High productivity
- ✓ Stable and consistent print quality

Key technical data

- ✓ Print width: max. 1.40 m
- ✓ Productivity: up to 44 m²/h (1 pass)
- ✓ Robust, durable system architecture



ORALITE® UV Traffic Sign Printer XP eXtra Performing (Anapurna Ciervo H3200 LED)

Highly productive large format printing in premium quality

The ORALITE® UV Traffic Sign Printer XP eXtra Performing combines maximum print width (1 or 2 rolls) with excellent print quality and high productivity. The specially developed printer carriage provides additional stability and enables high-gloss print results with consistent precision.

Highlights

- ✔ Highly transparent print quality
- ✔ Innovative carriage design for maximum stability
- ✔ Ideal for high production volumes

Key technical data

- ✔ Print width: 3.20 m or 2x 1.235 m
- ✔ Productivity:
 - min. 46 m²/h (4 pass)
 - 2 rolls (graphic up to 46 m²/h)
 - up to 70 m²/h (1 pass) 2 rolls

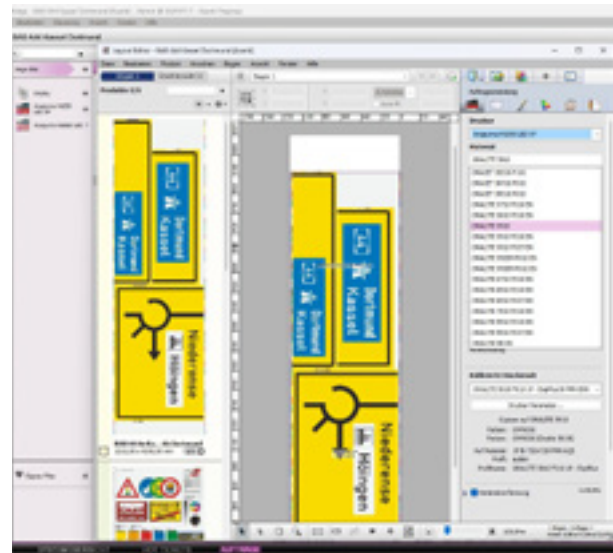
Asanti Workflow Software

Automated. Precise. Productive.

The Asanti Workflow Software controls the entire printing process, ensuring maximum process reliability. It is always compatible with the latest Windows versions, guaranteeing smooth operations.

Advantages

- ✔ Predefined traffic sign profiles
- ✔ Simple media compensation
- ✔ Spot colors for reduced ink consumption
- ✔ High post-processing compatibility
- ✔ Optional: true shape nesting and dashboard





	Anapurna H1650i LED ORALITE® UV Traffic Sign Printer Express	Anapurna H1650 LED XP ORALITE® UV Traffic Sign Printer XP eXceptional Performance	Anapurna Ciervo H3200 LED ORALITE® UV Traffic Sign Printer XP eXtra Performing
Technical data			
Media width	165 cm	140 cm	320 cm
Print width	165 cm	140 cm	320 cm
Printing on multiple plates	min. A2, landscape format	min. A2, landscape format	min. A2, landscape format
Media thickness up to 45 mm	0.2 - 45 mm	0.2 - 45 mm	0.2 - 45 mm
Dual roll option	Not available	Not available	Double shaft with differential
Media weight (RTR)	up to 50 kg	up to 50 kg	up to 2 x 50 kg
Media diameter (RTR)	up to 36 cm	up to 36 cm	up to 36 cm
Print speed			
ORALITE® Reflective Materials - 1-Pass	-	44 m ² /h	up to 70 m ² /h with 2 rolls
ORALITE® Reflective Materials - 4-Pass	22 m ² /h	22 m ² /h	min. 46 m ² /h with 2 rolls
ORAJET® Non-Reflective Materials - 4-Pass	22 m ² /h	22 m ² /h	min. 46 m ² /h with 2 rolls
ORAJET® Graphic Materials - 4-Pass	28 m ² /h	28 m ² /h	min. 46 m ² /h with 2 rolls
Text quality			
Positive text quality: ORAFOL ink 6 pt	+	+	+
Negative text quality: ORAFOL ink 8 pt	+	+	+
Dimensions and weight of the device			
Weight in kg	1020	2000	3800
Dimensions (W x H x D) in metres	3.910 x 1.660 x 1.470	3.900 x 1.950 x 1.800	5.805 x 1.990 x 2.075
Power supply			
Europe: 380V 3-phase star connection with neutral conductor (3x32A*) 50Hz	+	+	+
USA: 230V 3-phase delta connection with neutral conductor (3x32A*) 60Hz	+	+	+
RIP system integration/workflow software			
Integrated production solution with Asanti RIP 7. Preset media/ink profiles for the production of traffic signs (Asanti)	+	+	+
Ease of use			
Touch screen monitor as control panel	+	-	+
User interface Agfa (11 languages)	+	-	+
Network connection RJ45 1GB, 2x USB 3.0	+	+	+
Roll holder with pneumatic expansion clamping heads/shafts	+	+	+
Maximum roll length (in metres)	50	50	2 x 50
Monitored ink tank volume (in litres)	4	6	CMYK: 6 LC/LR: 4
Remaining media length	+	+	+
Step & repeat function on the printer (vertical and horizontal)	+	+	+
Queue function	+	+	+
AGFA Production Dashboard	Optional in ANSANTI 7	Optional in ANSANTI 7	Optional in ANSANTI 7
Time and cost savings in daily use			
Ink shelf life up to 18 months	+	+	+
Dimmable LED curing, 80% energy cost savings, ozone-free technology	min. 10,000 hours	10,000 hours	10,000 hours
Particularly durable components for maximum service life with minimum maintenance	+	+	+
Automatic spray cleaning for up to 75% ink savings during cleaning	+	+	+
Fewer cleaning sequences	+	+	+
Shutdown option for up to 10 pressure-free days*	+	+	+
Service			
Universal supplier ORAFOL—everything from a single source: printers, ink and reflective films from ORAFOL = one point of contact for the customer	+	+	+
Warranty agreement and service agreement (optional)	+	+	+
ORAFOL service hotline E-Mail: service@orafol.de Telefon: +49 3301 864-309	+	+	+

*Prerequisites: waste tank emptied, power supply secured, printer turned on.



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