



HYBRID UV PRINTER

The ESS S3208 is a hybrid UV printer engineered for high-speed, large-format production on both rigid and flexible substrates. It incorporates Ricoh Gen6 industrial printheads with variable droplet technology (5–7 picoliters), enabling precise ink placement, smooth gradients, and high-definition output across demanding applications. Its CMYK + White + Varnish ink configuration supports multilayer printing, allowing the creation of white underbases, textured varnish finishes, and durable color layers with strong adhesion.

The system features a robust industrial structure with automatic media height detection and independent negative pressure control for color and white channels. According to the technical panel on page 1, it integrates water-cooled LED UV curing, a corrosion-resistant printhead assembly, and a silent linear guide system for stable, low-vibration operation. These components ensure consistent output quality, extended printhead life, and reliable performance during long production cycles on a wide variety of rigid and flexible materials.

In terms of productivity, the performance chart on page 0 indicates speeds of up to 78 m² per hour in draft mode, 52 m² per hour in production mode, and 39 m² per hour in quality mode. The printer supports a maximum print width of up to 3.20 meters and configurable head setups ranging from two to twelve printheads, depending on the required production capacity. It operates on a 220V industrial electrical system and supports media thicknesses up to 10 mm for flexible materials and up to 60 mm for rigid substrates.

TECHNICAL SPECIFICATIONS

PRINTING SYSTEM	
Technology:	Hybrid UV inkjet printing with LED curing
Number of printheads:	Configurable from 2 to 12 printheads
Ink configuration:	CMYK + White + Varnish UV inks
Maximum print width:	Up to 3.20 m
PRINTING SPEED	
Draft Mode:	Up to 78 m ² /h
Production Mode:	Up to 52 m ² /h
Quality Mode:	Up to 39 m ² /h
Note:	Speeds vary depending on print configuration, substrate, and ink layers
FORMAT & MATERIALS	
Compatible materials:	Rigid and flexible substrates
Maximum roll weight:	Not specified in source
Supported file formats:	Not specified in source
Software:	Compatible with Windows 7/10 (x64) environments
POWER & ELECTRICAL	
Total power consumption:	Up to 30 A
Heater power consumption:	Not specified in source
Electrical requirement:	AC 220V (±5%), 50/60 Hz, 18 A
Frequency:	50–60 Hz
WORKING ENVIRONMENT	
Operating temperature:	15–30 °C
Humidity:	Not specified in source
DIMENSIONS & WEIGHT	
Dimensions (L x W x H):	Not specified in source
Weight:	Not specified in source
Warranty:	One-year warranty