

# JETVARNISH 3D WEB 400

## WEB-FED DIGITAL SOLUTION FOR EMBOSSED HOT FOILING AND 2D/3D SPOT UV COATING

### TECHNICAL SPECIFICATIONS

<b>Printing speeds</b>	Up to 42m/mm (depending on application) Speed will vary according to printing parameter used	<b>Motorized Rewinder</b>	<ul style="list-style-type: none"> <li>Servo-motorized unit 850 mm (33.5") maximum roll diameter capacity</li> <li>Standard inside core diameter: 3"</li> <li>Pneumatic 3" chuck</li> <li>Maximum supported roll weight: 120 kg (264 lbs.)</li> </ul>
<b>Supported web widths</b>	From 100 mm (3.93") up to 420 mm (16.5")	<b>Options</b>	<p><b>Corona substrate treatment module:</b> In-line system made to optimize varnish adhesion on complex printed substrates.</p> <p><b>UV flexo station:</b> An integrated flexo station for full-size sleeve coating.</p> <ul style="list-style-type: none"> <li>Apply a UV primer coating prior to finishing</li> <li>UV dryer included</li> <li>Equipped with an anilox cylinder 15 cm<sup>3</sup>/m<sup>2</sup></li> <li>Additional anilox cylinders are available as upgrade options</li> <li>Anilox Roller compatibility from 4 to 20 cm<sup>3</sup>/m<sup>2</sup></li> <li>Automatic filling of Coating/Primer from an external tank</li> <li>Doctor Blade system</li> </ul> <p><b>Variable Data Printing:</b></p> <ul style="list-style-type: none"> <li>Manage and edit files on the workstation</li> <li>Full variable data (text, graphic, image) for both 2D/3D spot coating and hot foiling areas</li> <li>Integrated barcode (1D/2D) reader system and controller</li> <li>Raster Image Processor (RIP)</li> </ul> <p><b>400mm Printing Area Extension:</b> Extends the printable width from 350 mm (13.8") up to 400 mm (15.7"). Engines configured with optional print engine will require two Printing Area Extension options.</p> <p><b>Automatic Foiling Function:</b> This function is dedicated to the iFOIL W400. It allows to activate or deactivate the hot foiling in the middle of a production.</p> <p><b>Die cutting unit:</b> A semi-rotary die cutting unit to finish labels in-line.</p> <ul style="list-style-type: none"> <li>21" magnetic cylinder included</li> <li>Automatic registering system</li> <li>Format in semi-rotary: 100 mm (3.93") up to 420 mm (16.5")</li> <li>Gap master system for die height adjustment included</li> <li>Two working modes: Cutting &amp; Bypass</li> </ul> <p><b>Rewinder Dual Shaft:</b> Dual shaft motorized rewinder. Max. diameter 600mm (23.6"), 3" pneumatic chuck and max. supported weight 120 kg (264 lbs.)</p>
<b>Finishing width</b>	Standard image width is 350 mm (13.8") Maximum image width is 400 mm (15.7") with option	<b>Operating environment</b>	<p><b>Temperature:</b> Min. 18° C (64° F) to Max. 30° C (86° F)</p> <p><b>Relative Humidity (RH):</b> Min. 30% to Max. 50% RH</p> <p><b>Air Quality:</b> Environment without dust is mandatory to preserve the varnish against particle pollution</p>
<b>Image dimensions</b>	<p><b>Length (feeding direction):</b></p> <ul style="list-style-type: none"> <li>From 50 mm (1.96") to 980 mm (38.6") in Standard Mode (according to the substrate/shape)</li> <li>From 50mm (1.96") to 530 mm (21") in VDP Mode (according to the substrate/shape)</li> </ul> <p><b>Width (cross direction):</b></p> <ul style="list-style-type: none"> <li>Up to 350 mm (13.8") with standard configuration (according to the substrate/shape)</li> <li>Up to 400 mm (15.7") with optional Printing Extension Kit installed (according to the substrate/shape)</li> </ul>	<b>Dimensions and weight</b>	From 5.53 m (18') up to 8.27 m (27') x 1.91 m (6.3') x 2.13 m (7') Clearance requirements: 1 meter on all 4 sides Max. Weight: 4,220 kg (9,303 lbs.)
<b>Substrate types</b>	From 50 microns up to 300 microns (µm) <ul style="list-style-type: none"> <li>Coated, uncoated and textured paper</li> <li>Self-adhesive labels</li> <li>White or transparent synthetics, PP, PE, POPP, PET</li> <li>Light cardboard / folding carton</li> <li>Shrink film: PVC, PETG</li> </ul>	<b>Technical requirements</b>	400 V - 3Ph 240 V - 1Ph Oil-free dry air 8 bar - 400 L/mn
<b>Wide compatibility</b>	Compatible with the overall web-to-web printing technologies, narrow web digital presses and the traditional offset or flexo narrow web presses	<b>Printing press compatibility list</b>	Narrow web printing presses <b>Digital:</b> (Konica Minolta, HP Indigo, Epson, Xeikon, EFI, Durst, etc.) <b>Offset:</b> All manufacturers and technologies: UV, H <sub>2</sub> O or waterless <b>Flexo:</b> All manufacturers and technologies: UV or water-based
<b>Unwinder</b>	<ul style="list-style-type: none"> <li>Maximum roll diameter capacity: 850 mm (33.5")</li> <li>Standard inside core diameter: 3 inches</li> <li>Maximum roll weight: 120 kg (264 lbs.)</li> </ul>	<b>Speed will vary according to printing parameter used.</b> <i>Confirm substrate/lamination/toner/metallic film compatibility with Konica Minolta.</i>	
<b>AIS Smartscanner</b>	The AIS Smartscanner an artificial intelligence-driven scanner, scans each application to be finished, automatically adapting the application of bonding varnish according to substrate deformation (skewing, partial or total stretching, partial or total contraction and X and/or Y offsets). The colour cameras bring more accuracy for job acquisition and web edge detections. Registration tolerance ± 200µm.		
<b>Main Spot UV coating and embossing print engine</b>	<p>This station uses exclusive DoD inkjet technology for producing Spot UV coating. Any defined label area can receive Spot UV coating with or without raised 3D texture effects. A simple grey level TIFF file designed by prepress controls the surface area and the thickness of the varnish applied over the printed roll.</p> <p><b>Varnish thickness:</b> From 7µm to 116µm of varnish thickness (from 2D flat coats to 3D raised effects)</p> <p><b>In-line drying:</b> Integration of three complementary technologies: LED, IR, UV</p> <p><b>UV varnish:</b> Gloss varnish. 99 GU</p> <p><b>Varnish Canister:</b> 18 liters</p> <p><b>Recommended Varnish Type:</b> UV Clear Varnish (batch D)</p>		
<b>Chiller station</b>	Equipment comes with a chiller to cool down heat sensitive substrates		
<b>Optional Spot UV coating and embossing print engine</b>	<p>This station uses exclusive DoD inkjet technology for producing Spot UV coating, which does not adhere to hot foil stamping. This optional module enables varnish + foil stamping in a single pass.</p> <p><b>Varnish thickness:</b> From 7µm to 116µm of varnish thickness (from 2D flat coats to 3D raised effects)</p> <p><b>In-line drying:</b> The module is equipped with high-power LED drying technology</p> <p><b>UV varnish:</b> Gloss varnish. 99 GU</p> <p><b>Varnish Canister:</b> 18 liters</p> <p><b>Recommended Varnish Type:</b> Anti-Foil LED Varnish</p>		
<b>iFOIL W400 hot foiling station</b>	<p>The hot foiling station adds luxurious effects and brand value to label and packaging products. Any defined label area can receive digitally-controlled foil with or without raised effects.</p> <p><b>Production Speeds:</b> Up to 42m/mn (depending on application).</p> <p><b>Foil rolls:</b></p> <ul style="list-style-type: none"> <li>Foil width supported: 320 mm (12.6")</li> <li>Foil roll core diameter: 1" and 3" as a standard feature</li> <li>1" Core: Foil Films up to 400 m long</li> <li>3" Core: Foil Films up to 2,000 m long</li> </ul>		



KONICA MINOLTA

KONICA MINOLTA BUSINESS SOLUTIONS U.S.A., INC.  
100 Williams Drive, Ramsey, New Jersey 07446

CountOnKonicaMinolta.com