

## Application: Coatings for Architectural Moulding

**Makor successfully installs finishing plant with UV LED profile curing line from Phoseon Technology**



Makor Curing Tunnel  
Model KUREX LED



FireJet™ FJ200 UV  
LED Light Source

At the beginning of 2014 Makor has successfully installed a high technology finishing plant for architectural mouldings at the company BERGENE HOLM in Norway.

The main request from BERGENE HOLM was to have a universal and high performance line in terms of compatibility with various types of profiles (indoor, outdoor, narrow, wide, etc.), very high production speed and low down time for set-up and maintenance.

The installation included the implementation of a drying tunnel that utilizes UV LED curing technology from Phoseon Technology. The tunnel includes five of Phoseon's FireJet™ FJ200 air-cooled UV LED light sources with peak irradiance of 8W/cm<sup>2</sup>.

[Makor Case Study](#)



### November 2014 ISSUE

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## Technology: Advantages of UV LEDs for Manufacturing

UV LED embraces many of the advantages of traditional UV curing for manufacturing processes. It offers advanced capabilities beyond traditional UV curing. First is low heat. UV LEDs do not generate any infrared output that is translated into heat. This is extremely important on manufacturing lines where the introduction of heat changes the chemical properties of the adhesive or coating. This heat can lead to material warping, lack of adhesion and eventually scrap. UV LEDs are a 'cool' light source; the only heat is due to UV energy being generated.

[Delivering Dramatic Process Improvements](#)

## Phoseon Lighting the Way: FireJet™

The Phoseon [FireJet](#) is an air cooled small form factor UV LED curing lamp with peak intensities up to 12W/cm<sup>2</sup>. The FireJet™ is ideal for UV Inkjet wide format systems and is capable of curing at the highest speeds for small, medium and grand format digital printing systems. It's also ideal for many adhesive and coating applications.

Product Name	Emitting Window	Dimensions L x W x H (mm)	Weight (kg)	Peak Irradiance (W/cm <sup>2</sup> ) @ Wavelength (nm):		Key Features
				365	385/395/405	
<b>FireJet™</b>						
<b>FJ200</b> 	75	77	1.1	4	8 or 12	<ul style="list-style-type: none"> <li>• Scalable</li> <li>• High Irradiance</li> <li>• Digital/Analog Control</li> <li>• Intensity Control</li> <li>• High Performance Curing Applications</li> </ul>
	150	152	2.2			
	225 x 20mm	228 x 136 x 253	3.3			
	300	303	4.4			
	375	378	5.5			
<b>FJ100</b> 	75	78	0.5	4	6	
	150 x 20mm	152 x 52 x 147	1.0			
	225	227	1.5			

Learn more about Phoseon's [UV LED curing products](#)

## Phoseon in the Press

[Phoseon to Highlight UV LED Curing at the Shanghai Optical Lens & Camera Module Expo](#)

[Phoseon Presents UV LED Curing Solutions for Digital Printing at IMI European Conference](#)

[Fermac Launches New Digital Printing Machine at Glasstec with UV LED Curing from Phoseon](#)

[FLARE Displays New Automated Screen Printer with Phoseon's UV LED Curing Solution](#)

[GPE Ardenghi Srl Introduces New Screen Printer with UV LED Curing from Phoseon](#)

[Phoseon Continues to Drive Growth Worldwide](#)

[Phoseon Displays State of the Art UV LED Curing Solutions at The Inkjet Conference™](#)

[Phoseon Technology Exhibits at IMI Ink Jet Technology Showcase](#)

[Phoseon Technology Presents at NIP30/Digital Fabrication and Digital Printing 2014](#)

[Stanza Machinery Debuts UV LED Curing Systems at the International Woodworking Fair](#)

[Dubois Displays New Edge Coating System with UV LED Curing at the Woodworking Fair](#)

[Phoseon Technology Exhibits UV LED Curing Solutions at Touch Taiwan 2014](#)

Read Phoseon [press releases](#)

## A Brilliant Display By Phoseon: Events

### Upcoming Events

#### LOPEC

Munich, Germany

March 3-5, 2015

<http://www.lopec.com/>

#### European Coatings Show

Nuremberg, Germany

April 21 -23, 2015

<http://www.european-coatings-show.com/en/>

[Learn more about UV LED curing events](#)

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