AtéCé
GRAPHIC PRODUCTS

Flenex FW

PRODUCT BROCHURE

High quality, water-washable LAM and analogue plates

FLENEX FW

Overview

The European print market has evolved significantly over the last 10 years, both in terms of customer demand and available print technologies. While downward trends have been common for many commercial print applications, printed labels & packaging continue to see growth.

From a brand owner perspective, the drive is to improve product visibility and shelf appeal in store, while minimising operational costs and maximising production efficiencies. For label converters, this demand is driving the adoption of new technologies, particularly in the flexo process, the predominant technology in Europe for label conversion.

- Brand owners constantly strive to improve product visibility and shelf appeal in a cost-effective manner
- Pressure on printers & trade shops to offer quality and consistency
- Challenge for solution suppliers to address and even anticipate these trends

Flenex FW water-washable plates

FLENEX FW

Flenex FW is a water-washable flexo plate that provides the highest print quality and productivity, while significantly lowering the cost-in-use compared to thermal, solvent or other water-wash plate technologies.

The key benefits of Flenex FW water-washable plates are:

- Total platemaking time under 40 minutes
- Highest flexo quality (200lpi, 1% process dot), depending on the conditions
- More output per shift for class-leading productivity

Technology overview

Flenex FW photopolymer plates contain a special rubber-based compound that offers a number of inherent advantages over other elastomeric materials from which most other flexo plates are made. In particular, rubber is not oxygen sensitive, which minimises the effect oxygen in the air has on the dot shape and the complexity of the system to eliminate oxygen from the plate production process. The other advantages of a rubber-based plate material include:

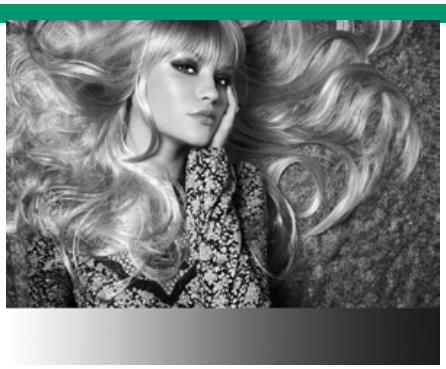
- Reduced dot gain
- Better ink transfer for cleaner, brighter print results
- Faster exposure and washout times
- Much more durable
- Mild washout with water and dishwasher soap
- Reduced plate swell

Compatibility

Flenex FW plates are compatible with leading Flexo LAM CTP devices such as Screen PlateRite FX, Esko CDI, CRON CDI and Xeikon ThermoflexX Series, as well as with the main water-wash processors in the industry, and are capable of reproducing the finest detail.

Flenex FW plates are also suitable for UV, LED UV, water and solvent-based ink applications and varnishing plates for offset applications.

High quality print



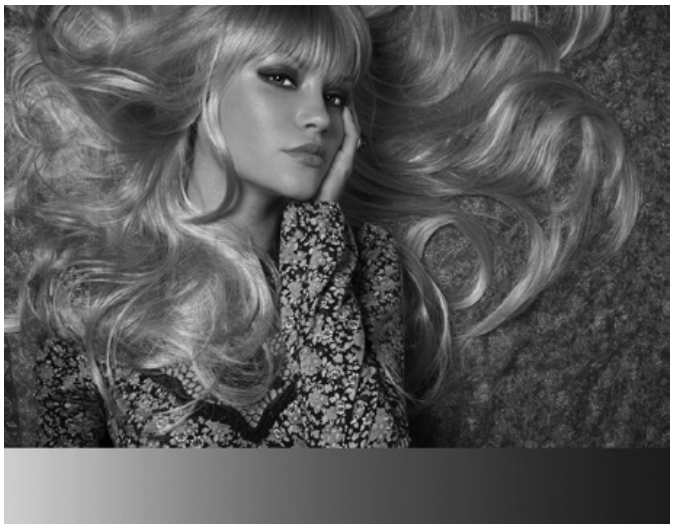
Original image

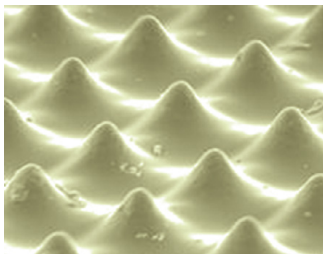
The Flenex FW water-washable plate system does far more than simply eliminate the need for solvents and wicking cloths. It delivers longer runs while producing a consistent 200lpi at 4,400 dpi, 1% process dot structure for superb high quality print, depending on the conditions.

Flat top dot structure

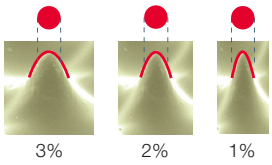
The rubber-based compound means a 1% flat top dot can be achieved without complex systems to eliminate oxygen, and results in lower dot gain. In addition, better ink transfer produces noticeably cleaner and brighter print results.

Solvent plate (round-top-dot)



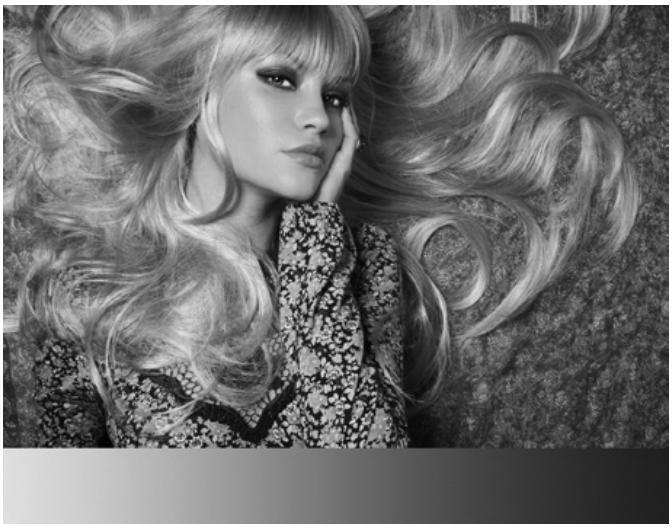


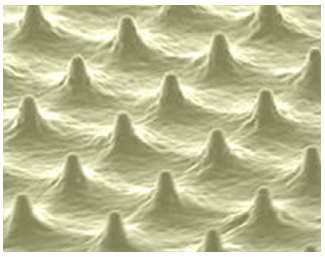
Round-top-dot



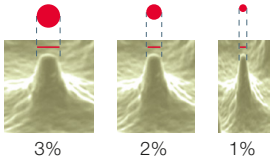
Poor gradation

Flenex FW plate (flat-top-dot)





Flat-top-dot

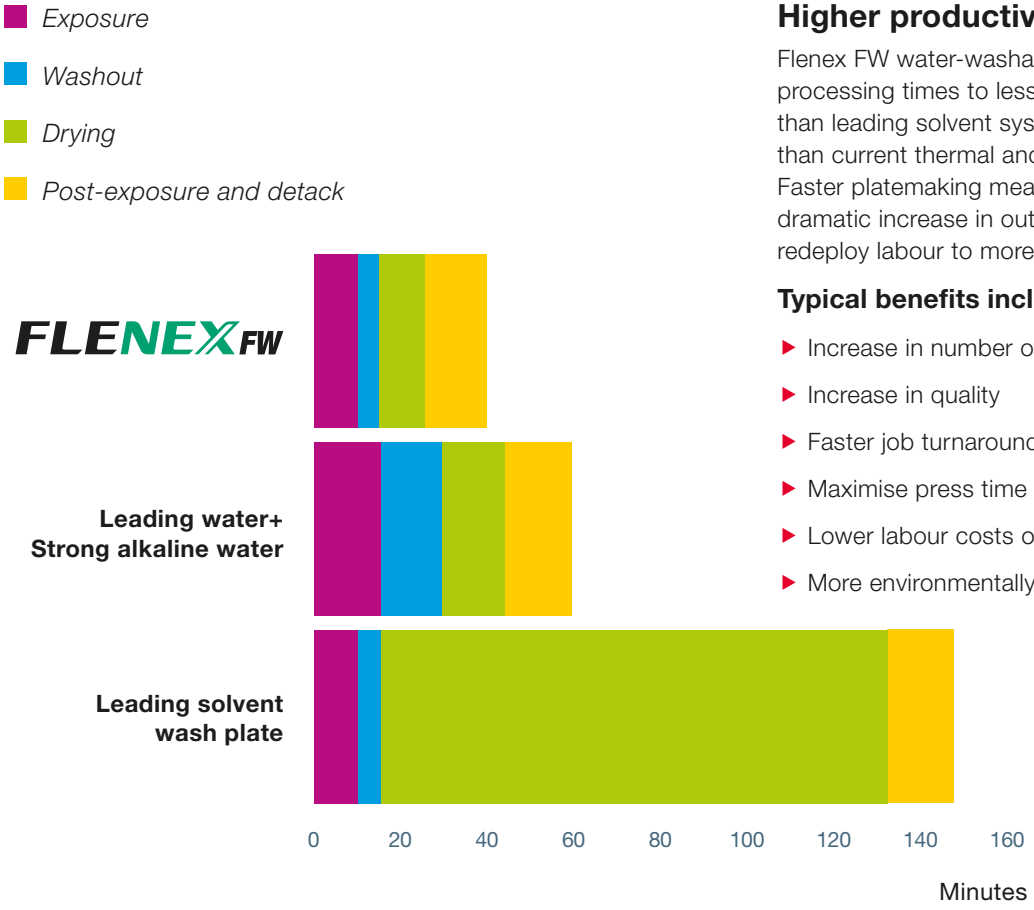


High gradation

The benefits of higher image quality

- **Opportunity to grow higher quality, high end business**
- **Crisper, cleaner edges and bright colours**
- **More consistent print results**

Flenex FW benefits your business



Higher productivity

Flenex FW water-washable plates reduce platemaking processing times to less than 40 minutes, 300% faster than leading solvent systems and 1.5 times faster than current thermal and water-wash technologies. Faster platemaking means more time on press and a dramatic increase in output per shift, freeing you to redeploy labour to more value-added activities.

Typical benefits include:

- Increase in number of plates produced
- Increase in quality
- Faster job turnaround
- Maximise press time
- Lower labour costs or opportunity to redeploy
- More environmentally friendly plate making

Lower cost-in-use

Because of the simplicity of Flenex FW plate processing, the expense of higher-cost solvent and thermal processors as well as potential upcharges on associated consumables is avoided. The Flenex FW system therefore represents the lowest cost in use for the production of flexo plates. Here is a simple comparison of the costs of solvent and thermal systems:

Additional costs of solvent systems

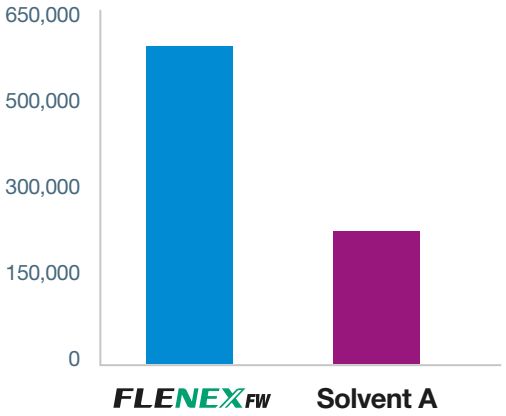
- Solvent used to process the plate
- Film or nitrogen consumables
- More expensive solvent processing equipment
- Energy use
- Waste disposal and associated regulatory and safety costs

Additional costs of thermal systems

- Thermal wicking cloth and thermal processing
- More expensive thermal processing equipment
- Waste disposal and associated regulatory and safety costs

More durable

Flenex FW is proven to deliver significant improvements in plate durability and reductions in plate swell, thanks to its unique technology. This means each plate is able to perform longer on press than competitive plates. This increases overall press uptime and results in longer print runs and greater overall profitability.



Flenex FW	Solvent A
590,051	262,467
Cartons	
OMET	
Coated Paper	
55 m/minute	
Digital 1.14 mm	

Flenex FW plates are more than twice as durable as solvent-based plates.

Fujifilm and sustainability

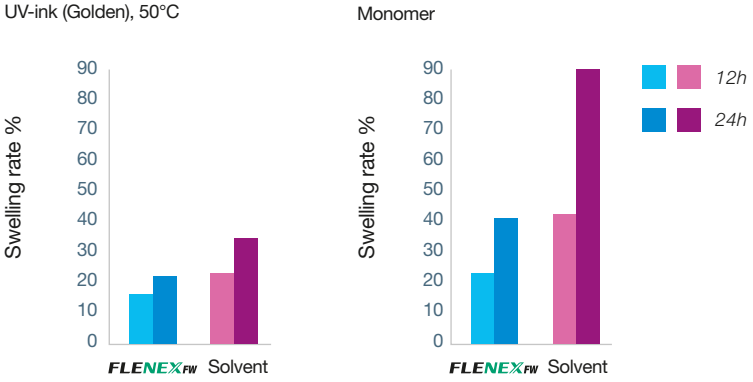
Fujifilm's basic approach to Corporate Social Responsibility (CSR) is to contribute to the sustainable development of society by putting into practice the Group's Corporate Philosophy: "Our overarching aim is to help enhance the quality of life of people worldwide with leading-edge, proprietary technologies, achieving this vision through sincere and fair business activities."

Fujifilm has a long history of responsible and sustainable business development, acknowledged regularly through its inclusion in the Dow Jones Sustainability and FTSE4Good global indices, and is proud to publish its results in an annual Sustainability Report.

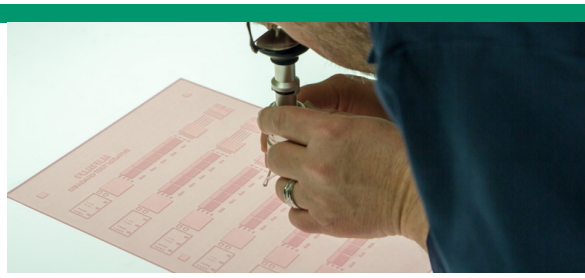
Less impact on the environment

The processing of Flenex FW plates is accomplished with only a mild detergent. Not working with solvents is a huge benefit from a health and safety perspective.

Plate Swell



In 12 and 24 hour plate swell tests, Flenex FW resulted in 25% to 45% less swelling compared to solvent plates.



Specifications

Main applications	Flexible packing, stickers/labels, envelopes, cartons, paper/plastic bags, varnish coating				Varnish coating
Plate types	Analogue plates	Digital plates			Analogue / digital plates
		FW-L	FW-L2	FW-FP	
Support	Polyester film 0.125 mm	Polyester film 0.125 mm	Polyester film 0.125 mm	Polyester film 0.188 mm	Polyester film 0.250 mm
Thickness	1.14 mm	1.14 mm	1.14 mm	1.14 mm	0.95 mm
	1.70 mm	1.70 mm	1.70mm	1.70 mm	1.14 mm
	2.54 mm	2.54 mm			
	2.84 mm	2.84 mm			
Size*	610 x 762 mm	533 x 508 mm	635 x 762 mm	635 x 762 mm	850 x 1070 mm
	762 x 1016 mm **	635 x 762 mm	762 x 1016 mm	762 x 1016 mm	900 x 1200 mm
	900 x 1200 mm **	900 x 1200 mm **	900 x 1200 mm	900 x 1200 mm	
	1067 x 1524 mm **	1067 x 1524 mm **	1067 x 1524 mm	1067 x 1524 mm	
Hardness (Shore A)* **	74/77/82 (°) 1.14 mm	74/77/82 (°) 1.14 mm	77 (°) 1.14 mm	78 (°) 1.14 mm	80 (°) 0.95 mm
	62/68/74 (°) 1.70 mm	62/68/74 (°) 1.70 mm	71 (°) 1.70 mm	71 (°) 1.70 mm	78 (°) 1.14 mm
	62 (°) 2.54 mm	62 (°) 2.54 mm			
	62/67 (°) 2.84 mm	62/67 (°) 2.84 mm			
Ink compatibility	Water-based ink	Water-based ink	Water-based ink	Water-based ink	Water-based/UV varnish
	UV ink	UV ink	UV ink	UV Ink	
				Solvent ink	
	Water-based/UV varnish	Water-based/UV varnish	Water-based/UV varnish	Water-based/UV varnish	

* The number of sheets per case may vary by product grade. Please contact your Fujifilm representative with any questions

** Only available in 1.14 and 1.70 mm thicknesses

*** Fujifilm measurements

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