



Launching World's First time, VOC Less Ink Jet Printer for Water Based Ink only



FXIJ-1 AQUA
Ink Jet Printer for Water Based Ink only

Think Laboratory is announcing, VOC less ink jet printer for water based ink with roll to roll on film,"FXIJ-1 AQUA". Web size of 540mm available on standard substrate such as PET is now operatable with simple touch panel for job less than 2,000m which was not profitable job for Gravure Printing. On this touch panel, prepress soft "PACKZ" is equipped to work from design data to final data. FXIJ-1 AQUA works to variable printing for each individual design jobs.

Ink is developed with KAO, chemical company. This VOC less Water Based Ink is safer and friendly to working environment compared with ordinary solvent gravure ink used for food package or UV ink. Water Based Ink with resolution of 600 dpi ink jet printer makes perfect combination to express all in small detail. Quality of ink jet printer output ensures the same quality of what we can achieve with Gravure technology.

More detail will be announced at DRUPA 2016[※] exhibition starting end of May this year with distributing printed samples. We will exhibit FXIJ-1 AQUA at TOKYO PACK 2016, October in Japan. We are preparing to distribute FXIJ-1 AQUA within this year, 2016.

※ drupa 2016 Think booth Hall3 E35

Main Specification

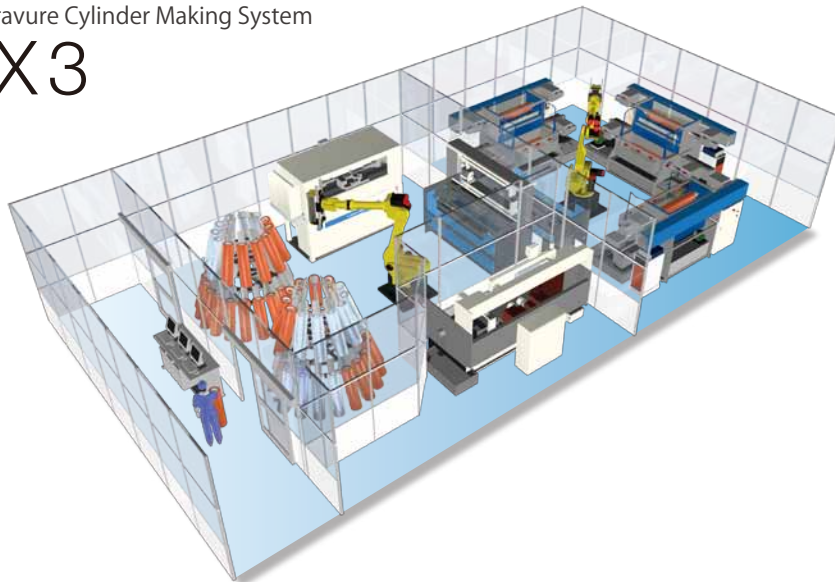
FXIJ-1 AQUA					
	web size	540mm	size	--	
	color	5 colors	weight	--	
	speed	5~30m / min	power	--	



Launching New FX3, highly precised Gravure Cylinder Making System for solvent and VOC less water based ink

Fully Automated Gravure Cylinder Making System

New FX3



Think Laboratory is announcing the new New FX3, a gravure cylinder making system which is capable of solvent and VOC less water based ink, 5 μ cell depth. Fundamental concept of New FX2 is carried over to New FX3 but additionally to keep more constant quality is improved. Quality of cylinder is better than engraving and operated by easy operation. Cylinder with New FX3 makes best standard printing ever in the past.

Some improved points

- 1) TH dot with new highly precise etching unit to control constant high quality depth
- 2) Controlling developing time automatically at MMI with automatic analyzing unit
- 3) Newly developed photoresist[※] does not require drying unit anymore
- 4) Upgraded Cu anodes for controlling additive which leads 20% less use of additive in total
- 5) Changing from Ni to Alkaline Cu to have better constant quality for base steel adhesive
- 6) Variable spray type depending on cylinder size to cut 20% of chemical use
- 7) Automatic cleaning or automatic dosing at B Zone which helps the operator work
- 8) Command the depth at MMI which prevents human error while numbering the etching time

More detail will be announced at DRUPA 2016[※] exhibition. Some features of New FX3 is available after May 2016 and by the end of 2016 will launch total New FX3

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Main Specification

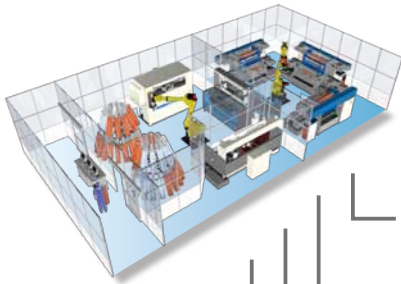
New FX3	Productivity 80 cylinders / 23h (Cu80 μ m / Cr8 μ m)	Size	W10m D16m H3.4m
	Laser Resolution 3200×12800dpi	Weight	--
	※New Photoresist 「TSER2104 E9」	Power	--



Basic concept of Think Laboratory product series

Fully Automated Gravure Cylinder Making System

New FX3



Ink Jet Printer for Water Based Ink only

FXIJ-1 AQUA



cylinder preparation within 2 hrs

2,000 m output / h

same PDF file

joint development with KAO



VOC less water based ink for gravure



joint development with KAO



VOC less water based ink for inkjet printer



ORDINARY FILM, PRINTER, LAMINATOR, BAG MAKING CAN BE USED

Think Laboratory is announcing, "FXIJ-1 AQUA" for anyone from gravure printer, converter, food company to start simply with our new on-demand unit. Prints 2000m within 1h or so faster, cheaper and time shorten than preparing gravure cylinder.

New FX3 is capable of handling same PDF file with FXIJ-A AQUA and printing can be ready within 2 hrs for printing over 2000m. Not only the quality but less ink consumption is achieved by ultra shallow cell depth.

Joint development with KAO of VOC less water based ink can be supplied for both either gravure printing or ink jet printing even with same pigment ink. From small to middle lot of work, ink jet printer is there for your solution. Either way of printing with gravure or ink jet, Think always provides the low running cost with safety operational environment.