

TOYOBO

Cosmoslight®
CTP

WATER-WASH FLEXO PRINTING PLATES



**ANDERSON &
VREELAND** INC.

Toyobo Water-wash Flexo Printing Plates



Toyobo is the worldwide leading water-washable printing plate manufacturer for Flexographic and Letterpress printing.

Toyobo's water-wash products are for printers who demand the highest print quality, while at the same time being able to operate in a solvent-free operation, fast processing and limited required processing equipment. Thanks to Toyobo's many resources and experience in chemistry it can continuously develop high performance products for the flexo printing industry. Due to the unique material and structure of the plates, the phenomenal ink

transfer is complemented by a low dot-gain, with press ready plates in under 1hr. Toyobo printing plates are offered for Flexo and Letterpress in CTP as well as conventional analog film-based processing in the following range:

- **Flexo**
Digital Cosmolight® CTP
- **Letterpress**
Digital Printight® CTP
- **Flexo**
Analog Cosmolight®
- **Letterpress**
Analog Printight®

Toyobo Cosmolight®

Toyobo Cosmolight® CTP plates are revolutionary water-wash digital flexo plates that are durable to water-based ink and solvent based UV-ink. Toyobo Cosmolight® CTP plates can be used in all CTP imaging devices. Cosmolight® CTP plates are available in 3 versions:

Cosmolight flexo plates have a black layer mask as well as an oxygen-inhibition layer integrated into the plate, sealing the plate automatically for any oxygen-inhibition effects. The result is an extremely high-quality print due to a flat top dot, small dot gain and high ink transfer. Toyobo Cosmolight® CTP plates are certified by Esko for FullHD. Cosmolight will outperform thermal plates and can compete with solvent-based plates on the market.

Besides an excellent print quality, Cosmolight plates mitigate the use of hydrocarbon based solvents or even aggressive cleaning chemicals such as sodium hydroxide ('Caustic Soda') in prepress. The only 'chemical' to be used in the entire process is a detergent, similar to dishwashing soap. We recommend the use of Cosmosoap to ensure optimum dissolving of the polymer material.

For high-volume customers, we recommend using an Aquasupreme or Cosmoline with optional centrifugal filtration system to remove the polymer particles in solid form, which can be disposed as household waste.

- | | | |
|----|-------------|----|
| 01 | Cosmolight® | QZ |
| 02 | Cosmolight® | QS |
| 03 | Cosmolight® | QH |

CTP Plate making process:

There are 6 steps in the Cosmolight® CTP plate-making process which are described below. The only equipment that is required is a 'combi processor' – a combined washout, exposure & dryer unit such as an Aquasupreme or Cosmoline and a laser ablation device for imaging the plate.





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New! Cosmolight® QZ

Advantages Cosmolight® QZ CTP

Building on many years of experience, Cosmolight® QZ CTP is the latest development by Toyobo's R&D team in Japan. Cosmolight has been developed for the label and wide-web flexo printers which demand the highest possible quality. Being able to outperform high-end solvent plates on print quality and durability, while at the same time reducing processing times, required equipment and operating cost.

Flat top dot

Unmatched ink transfer

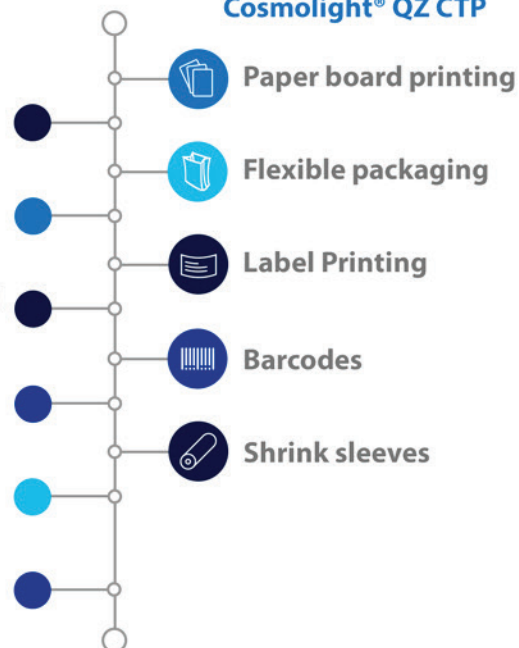
Small dot gain providing (near) 1:1 reproduction

Very stable small halftones even during long-run printing

Non-tacky

Long lasting

Main applications Cosmolight® QZ CTP



Printed on film with
Cosmolight QZ



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Cosmolight® QS

Advantages Cosmolight® QS CTP

Very fast processing times

Durable for water based and solvent based inks

Existing CTP devices can be used

Flat top dot

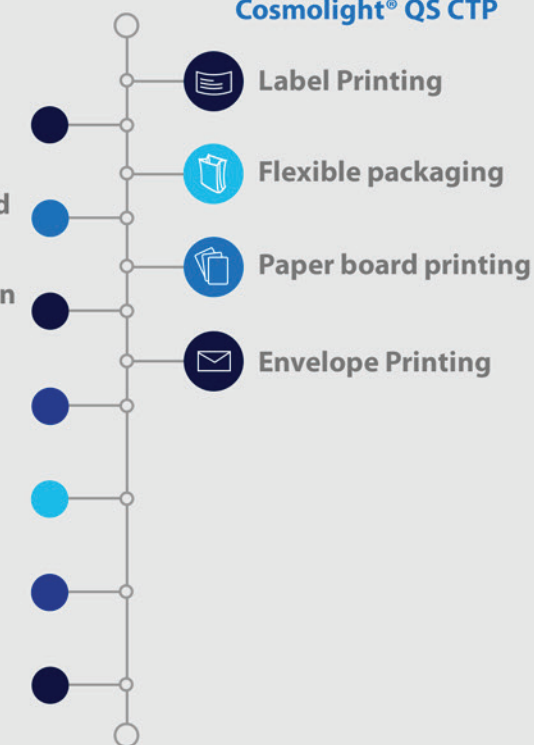
Very stable small halftones even during long-run printing

Non-tacky

Long lasting

Cosmolight QS sets the standard in high quality flexo printing.

Main applications Cosmolight® QS CTP



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Cosmolight® QH

Advantages Cosmolight® QH CTP

Very fast processing times

Durable for water based and solvent based inks

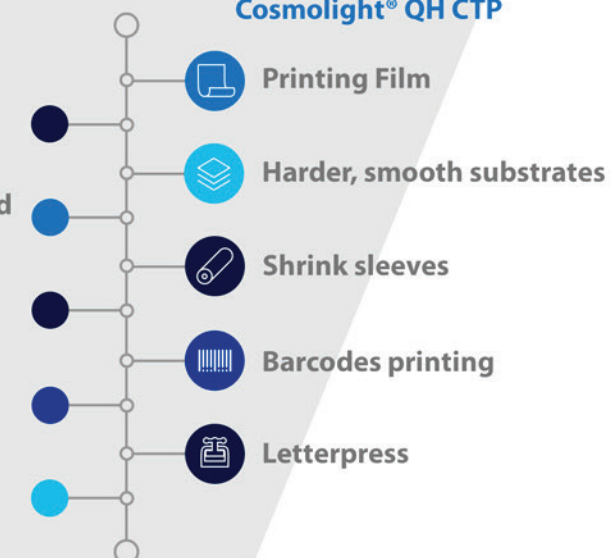
Flat top dot

Very stable small halftones even during long-run printing

Long lasting

Cosmolight QH is Toyobo's harder CTP plate. QH is available in 1.14mm and 1.7mm thickness. Cosmolight QH is good for printing harder, smoother substrates such as film and shrink sleeves. QH can also very successfully be used as an alternative for Letterpress.

Main applications Cosmolight® QH CTP



Cosmolight® CTP Specification

SPECIFICATION	COSMOLIGHT QZ, QS & QH				
Thickness	1.14 mm	0.045 in	1.7 mm	0.067 in	
Hardness	77		71		Shore A
Base Film	0.125				mm
Plate size	635 x 762	762 x 1016	900 x 1200	mm	
	25 x 30	30 x 40	35 x 47	in	
Screen Image	200 lpi / 1~95%				
Min Fine Line	0.03 mm (0.001")				
Min Isolated Dot	0.20 mm (0.008")				