

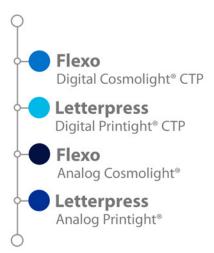




Toyobo is the worldwide leading water-washable printing plate manufacturer for flexographic and letterpress printing.

Toyobo's water-washable 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 is able to 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 1 hour. Toyobo printing plates are offered for both flexo and letterpress in CTP as well as analog versions:



### Toyobo Cosm@light®

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

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

Cosmolight flexo plates plates have a black laser ablation 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, little dot gain and high ink transfer. Toyobo Comolight® CTP plates are, like all other Cosmolight® plates, certified by Esko for HD and FullHD. Cosmolight® will outperform thermal plates and can compete with solvent-based plates on the market.

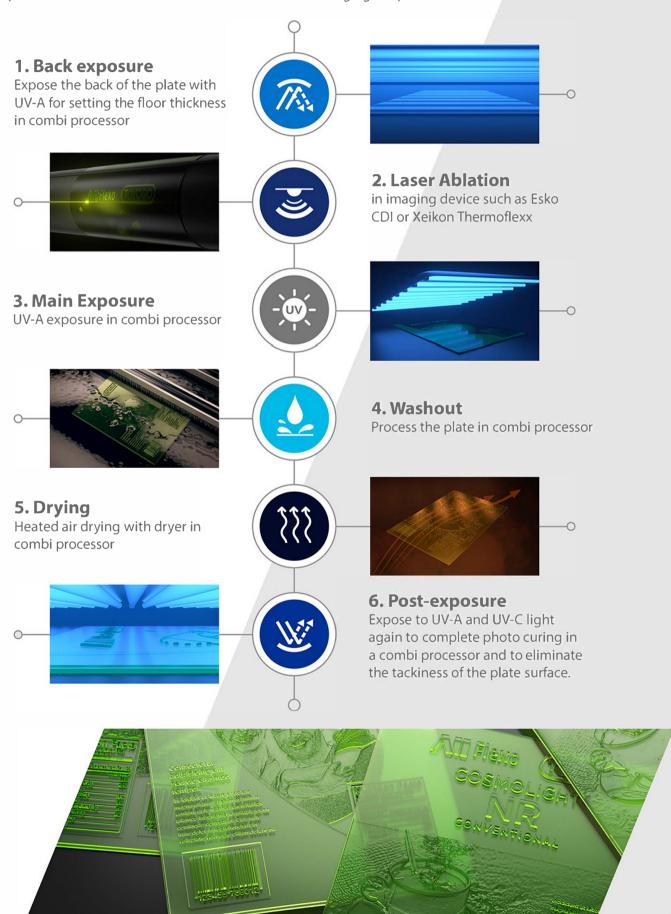
Besides an excellent print quality, Cosmolight® plates do not need the use of hydrocarbon based solvents or even aggressive cleaning chemicals such as sodium hydroxide ('Caustic Soca') in prepress. The only 'chemical' to be used in the entire process is a detergent, similar to dish washing soap. We recommend 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 of as household waste.



### CTP Plate making process:

There are 6 steps is 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.











## TOYOBO Cosm@light®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

Main applications
Cosmolight® QS CTP



**Label Printing** 



Flexible packaging



Paper board printing

**Envelope Printing** 



Cosmolight® QS sets the

standard in high quality flexo

TOYOBO
Cosm@light®QH

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 be used very successfully as an alternative for

letterpress plates.

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** 

Main applications Cosmolight® QH CTP



**Printing Film** 



Harder, smooth substrates



**Shrink sleeves** 



**Barcodes printing** 



Letterpress

# Cosmolight® CTP Specification

SPECIFICATION	COSMOLIGHT QZ, QS & QH					
Thickness	1.14 mm	0.045 in	1.7 m	m	0.067 in	
Hardness	81, 77, 81 respectively		74, 71	74, 71, 76 respectively		Shore A
Base Film	0.125					mm
Plate size	635 x 762	762	762 x 1016		900 x 1200	mm
	25 x 30	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")					



## Testimonials References for Toyobo Cosmolight® CTP



### Mission Labels has been using Toyobo Cosmolight for years in combination with an Aquasupreme.

#### **Dave Humphrey mentions:**

"My personal advice to anyone looking to invest in plate making facilities, is to opt for water wash."

"We are very enthusiastic about the way the Aquasupreme doubles our capacity. It means that we are able to compete and take a much firmer stand in the market. It also means that we have saved a significant amount of costs with this investment."





Cosmolight processing equipment offered by Allflexo B.V.

