



The new digital Flexo production

The Flexolaser is a dedicated imager for flexo applications. Sleeve and plate handling are optimized to lower waste and increase productivity. The Flexolaser family is designed to achieve the highest quality output at lower costs. Fiberlaser technology is used in the Flexolaser for ablation of the LAM layer on digital flexo plates. The maintenance-free design of fiber-lasers mean low service costs, extended service life, reliability and continuous production. The open network interface accepts TIFF data from any standard RIP-Program or Server.

New Software Concept

- MultiPlate software controls the output to the Flexolaser and can be installed on any Mac or PC workstation in the network. The Software accepts 1-bit TIFF data from any RIP for output to the Flexolaser.
- MultiPlate software is also used to fill the plate with different jobs and to optimize the coverage of the plate.

Broad Format Range

- No format problems with the Flexolaser:
 - Type piccolo for label and narrow web applications.
 - Type medio for medium format flexo plate production.
 - Type largo for plate formats up to 160 cm.
- Flexolaser accommodates all available digital flexo plate thicknesses.
- Custom-made forms can be delivered on request. Waste material is minimized and throuput is maximized.

Through the use of a high power laser, information is exposed into the LAM layer. The superior fiber-laser technology results in:

- High resolution output of flexo plates.
- Dot gain substantially reduced for all tonal values.
- Highlights can be printed down to 1% even at high resolution.
- Perfect vignettes due to accurate dot control.

Laser Unit

- Fiber-laser technology with nominal power from 10–50W.
- Laser spot size $\leq 13\mu\text{m}$
- Easy loading of plate material.
- Max. resolution 2'540 dpi.

Technical Data

	FL piccolo / fx	FL medio	FL largo / Xlargo
Recording technique:	Rotating external drum, plate held by vacuum		
Printing plates:	Digital exposable photopolymer flexo printing plates and sleeves, all thicknesses, all brands		
Drum circumference:			
total:	640 mm	≤ 930 mm	≤ 1320 mm
exposable:	635 mm	≤ 920 mm	≤ 1300 mm
Drum width:			
total:	790 mm	≤ 1300 mm	≤ 1700 mm / ≤ 2100 mm Xlargo
exposable:	762 mm	≤ 1270 mm	≤ 1650 mm / ≤ 2000 mm Xlargo
Light source:	10/20/35 W Fiber Laser	20/35/50 W Fiber Laser	35/50 W Fiber Laser
Resolution:	(2032), 2540 dpi	(2032), 2540 dpi	(2032), 2540 dpi
Laser spot size:	≥ 13 μm	≥ 13 μm	≥ 13 μm
Line screen:	≤ 80 Lines/cm (≤ 200 lpi)	≤ 80 Lines/cm (≤ 200 lpi)	≤ 80 Lines/cm (≤ 200 lpi)
Imaging speed:			
Budget:	≤ 1.0 m ² /h @ 2032 dpi	≤ 2.0 m ² /h @ 2032 dpi	≤ 3.0 m ² /h @ 2032 dpi
Productivity:	≤ 2.0 m ² /h @ 2032 dpi	≤ 3.0 m ² /h @ 2032 dpi	≤ 5 m ² /h @ 2032 dpi
Speed:	≤ 3.5 m ² /h @ 2032 dpi	≤ 5 m ² /h @ 2032 dpi	≤ 5 m ² /h @ 2032 dpi
Power supply:	3x380 V≈, 10 A	3x380 V≈, 10 A	3x380 V≈, 10 A
Dimensions:	1.70 x 0.95 x 1.20 m	2.50 x 0.95 x 1.35 m	3.00 x 0.95 x 1.50 m
Weight:	800 kg	1500 kg	2000 kg
Humidity:	≤ 80 %, non condensing	≤ 80 %, non condensing	≤ 80 %, non condensing
Operating temperature.:	15 °C – 28 °C	15 °C – 28 °C	15 °C – 28 °C
Exhaust air	yes	yes	yes
Sleeve Version:	yes	yes	yes
Hybrid Version:	no	yes	yes
Input Data Format:	Separated 1 bit TIFF	Separated 1 bit TIFF	Separated 1 bit TIFF
Network/Internet:	yes	yes	yes
MultiPlate:	yes	yes	yes

