



Morpheus

...flexo printing forms and rotary screens from a single unit



Advantages:

- only two process steps
- high speed engraving
- economical
- error reduction
- excellent repeatability
- easy to use
- quality reproduction over longer runs with flexo and letterpress
- simple changeover
- environmentally friendly



The Morpheus 621x gives the best of both worlds, enabling direct laser engraving of both flexo printing forms and rotary screen cylinders from a single unit. This all-purpose system engraves rubber

and polymer with great accuracy, using a single laser beam to define the dot pattern. It is also ideal for engraving Stork Special Screens® for applications such as textile or wallcovering printing.

Technical specifications

Morpheus 6211 / 6212 / 6213

Laser	CO2 single beam 500W
Resolution	adjustable up to 2540 dpi
Raster	up to 54 l/cm
Surface speed	max. 18 m/sec at 2032 dpi
Revolution speed	100 - 2400 rpm
Productivity	up to 0,8 m ² /h at 1270 dpi up to 0,5 m ² /h at 2032 dpi
Dot shape and steepness	operator controlled
Smallest unsupported dot	20 μ (below surface dot possible)
Engraving depth	operator controlled
Supported data formats	*.tif, *.pdf, *.lyr, *.bmp and others

(*... is depending on material, relief depth, raster and resolution)

Flexo plates

Plate sizes (mounting area)	max. 1206 x 1000 / 1206 x 2000 / 1206 x 3000 mm
Plate thickness	all common formats

Flexo sleeves

Fast changeover system with air pressure inlet

Sleeve outside diameter	from ø 85 up to ø 385 mm
Sleeve length	150 - 1200 mm/ 150 - 2100 mm/ 150 - 3500 mm

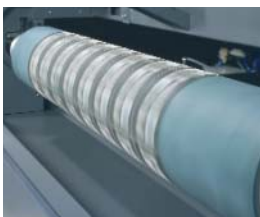
Nickel screens

Textile / Wallpaper	R 518 - R 1168 (Screen length: 300 - 1300 / 300 - 2100 / 300 - 3500 mm)
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Dimensions / Weight 6211	LxWxH: 3605 x 1450 x 1500 mm / 2600 kg
Dimensions / Weight 6212	LxWxH: 4505 x 1450 x 1500 mm / 2900 kg
Dimensions / Weight 6213	LxWxH: 5905 x 1450 x 1500 mm / 3400 kg
Power supply	3x400V - 50Hz - 14 kVA (incl. water cooler, without suction unit)

Engravable materials:

Flexo plates, flexo sleeves and NovaScreens®



Rubber / EPDM / Elastomer



Polymer



NovaScreen®



Polymer-/Letterpress- plate

www.directengraving.com

Stork Prints B.V.
P.O. Box 67
5830 AB Boxmeer
The Netherlands
Tel.: +31 485 59 95 55
Fax: +31 485 59 95 56
info.storkprints@stork.com
www.storkprints.com

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