

FLEXOSTAR MINI

DIRECT LASER SLEEVE & PLATE ENGRAVING SYSTEM

lead
Lead lasers B.V.



**FOR FLEXO,
LETTERPRESS,
SCREEN PRINTING
& DRY-OFFSET**

FLEXOSTAR MINI

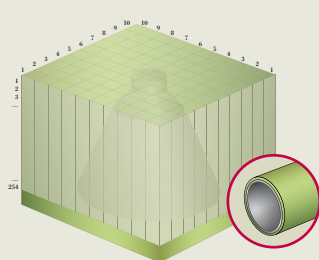
A versatile direct laser engraving system, for processing digital sleeve and plates for a wide variety of printing applications. The ability of FlexoStar MINI to engrave either continuous sleeves, or plates, for narrow web printing, gives the opportunity to utilize a single processor for production of printing forms for Flexible Film, Labels, Cartons, Beverage Cans, Plastic bottles, to name a few.

★★★ FEATURES OF DIRECT LASER ENGRAVING ★★★

Direct Laser engraving, offers a complete digital workflow, from pre-press to printing press, giving users the ability to control dot profile, for optimum graphic quality, and to select sleeve/plate material for maximum printing performance including:

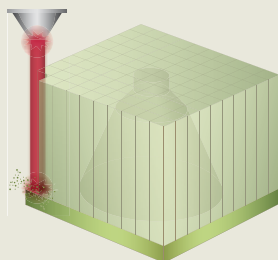
- Direct engraving on Elastomer or Polymer sleeve/plate materials
- Perfect registration plate/sleeve
- No chemical wash-out or thermal processing

★★★ DOT FORMATION IN DIRECT LASER ENGRAVING ★★★



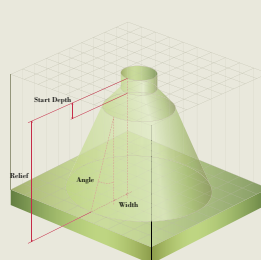
Step 1

- ★ Elastomer/Polymer plate or sleeve
- ★ 3D calculation during engraving
- ★ Resolution 2540 DPI



Step 2

- ★ Laser creates user defined Dot shape, start depth, angle and relief



Step 3

- ★ The perfect dot

The user directly controls the shape of the dot cross section such as:

- dot shoulder angle
- dot shape for optimum printing performance and durability
- height adjustment of highlight dots
- exact control for relief depths (plate floor thickness)

★★★★ DESIGN FEATURES OF FLEXOSTAR MINI ★★★★★

The unique design of FlexoStar MINI uses a single CO2 Laser, combined with a simple “moving optic” format, ensuring cost effective and efficient processing of forms, and simple machine operation, for maximum reliability and performance. This assures the user of:

- ★ *Cost effective sleeve/plate processing*
- ★ *Fast change-over from sleeve-to-plate-to-screen*
- ★ *Predictable and repeatable printing form quality*
- ★ *Easy & reliable performance for operation by semi skilled personnel*

FLEXOSTAR MINI LAYOUT

- Standard model: 1200
- 300 watt, Sealed Tube Co2 “FlexoStar MINI” Laser
- FlexoStar MINI machine bed, complete with universal support shaft for support of sleeves, bridge sleeves & plate cylinders, complete with interlocked sliding doors.

OPERATOR /MAINTENANCE SYSTEM INTERFACE

- Input, 1 bit tif
- Touch screen computer operation including Laser control and engraving software
- Dot Creation, Dot Shaping and Image view software
- Touch screen operator control panel
- Non-contact Laser focusing system for precision beam placement
- Cal-Kwik - Automatic plate material calibration system
- Auto-skip, automatic rapid traverse for non-engraved areas
- On-line remote software access of inspection and control of machine functions

PRINTING FORM OPTIONS

FlexoStar MINI can laser engrave a wide variety of printing forms, supported using a range of sleeves and engraving cylinders for example

- Flexo Sleeves, on universal mandrel or bridge sleeves
- Flexo plates, mounted on sleeves or plate cylinder
- Letterpress/Dry-Offset, mounted on magnetic or plate cylinder
- Rotary screens, mounted on “Screen Kwik-change” system

DIRECT LASER ENGRAVING PRODUCTION

- Image resolutions from 1250 to 5080 dpi for typical screens ranging up to 80 lpcm (200 L/In) plate screening
- Production rate from 0.3 to 0.7 m² / hour depending on relief depth & plate material.

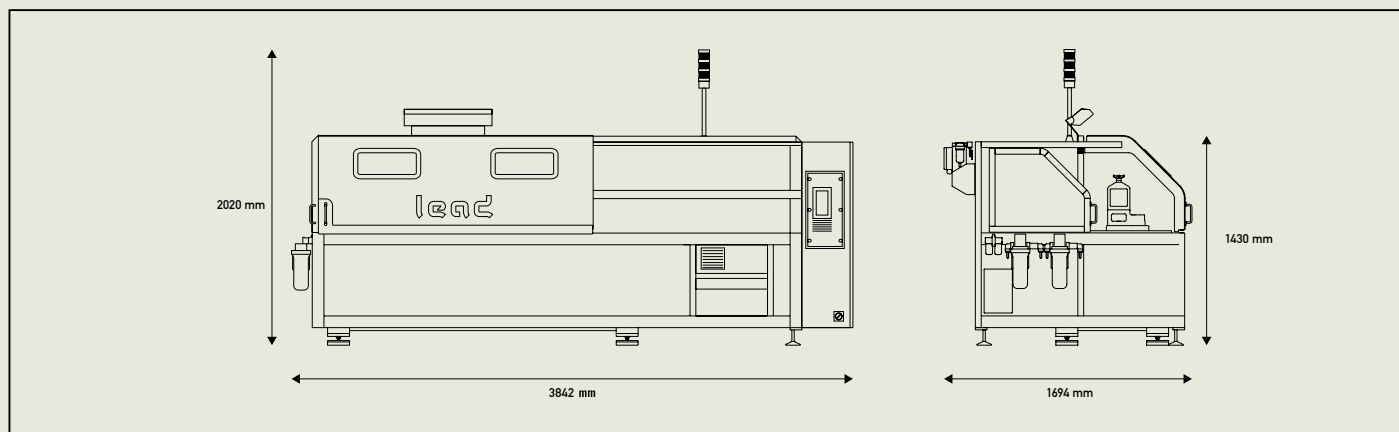
★ LEAD LASERS FLEXOSTAR MINI 300 WATT Co2 ★

Model	1200
Weight	1800 kg (820lbs)
Max Engraving Length	12-1220 mm (0.5-48")
Min-Max Repeat Length	225-1100 mm (9"-43.25")
Overall Machine Length	3700 mm (145.5")
Machine Height	1430 mm (56.3")
Machine Width	1430 mm (56.3")

★★★★ FLEXOSTAR MINI SERVICES ★★★★★

- Power: 3x400 V 50Hz, 18 amp operating current. (Optional USA 415 volt 60Hz)
- Compressed air: 6-9 bar, 200 L/min (90-130psi, 7cfm).
- Cooling water for CO2 laser, provided by External water chiller PC120*
- Dust Extraction, provided by External Dust extraction DFPR02*
- Optic Maintenance, provided by Opti-Clean*

** see Data sheets for Individual specifications*



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