THERMOFLEX MID II

EARLY PRODUCTION SPECIFICATIONS

Product Description	• Creo ThermoFlex® Mid II is a mid format, manually loaded computer-to-plate imaging device for digital flexographic and letterpress plates.
Features and Benefits	• Integral load / unload table minimizes potential damage to the LAMS layer of digital plates. Plates of any size and thickness (up to 0.197" / 5 mm) are easily loaded • Multi resolution • High speed imaging • Simple loading unloading
Product Version	• Early Production
Available Configurations	• V Speed
Prerequisites	• Creo Tiff Front End or Brisque version 4.1
Components	

Standard Hardware:	• ThermoFlex Mid engine
	• Monitor, keyboard and mouse
	• External support equipment with enclosures
	  ◦ Debris removal vacuum and filter cabinet (With external venting)
	  ◦ Transformer (for 220-240v countries only)

Optional Hardware	• Internally Vented Debris Removal Cabinet (includes one chemical filter)
Standard Software:	• ThermoFlex Mid controller software version 1.31.350.002 and higher
Documentation Included:	• ThermoFlex Mid II User guide • ThermoFlex Mid II Installation guide • ThermoFlex Mid II Site prep guide • ThermoFlex Mid II Safety guide
Consumables Included:	• One set of device and debris removal filters. The customer must purchase subsequent filters

Media

Media size (max/min):	• Along drum axis:
	  o 47.2"/ 1200 mm maximum
	  o 6"/ 152 mm minimum
	• Around drum circumference:
	  o 40"/ 1016 mm maximum.
	  o 6"/ 152 mm minimum

Media type:	• Qualified Thermal[1] (830nm) IR-sensitive digital flexographic plates and film
Media thickness:	• 0.004” to 0.197” / 0.1mm to 5mm
Light source:	• Infrared laser diode

Imaging

Image area:	• Along drum axis:
	  o 47.24” / 1200mm max
	  o 5” / 127 mm min
	• Around drum circumference
	  o 38.98" / 990[2] mm max
	  o 5” / 127 mm min

Resolution:	• Variable from 2032 – 3556 dpi / 80 –140[2] dpm limited to approved screen sets.
Approved screen sets:	• Contact your Creo representative for the latest approved screen sets.
Halftone Screening	• 2% to 98% at 175LPI line screen and lower

[1] Consult with your Creo representative for the latest list of qualified media

[2] Depends on plate thickness, Full width image coverage at resolution 140 requires optional upgrade

Performance	
Imaging time[3]:	• V speed imaging: 3.02 in/min / 76.8mm/min @ 2540 dpi
Load/Unload cycle:	• Manual load cycle is operator-dependent. • Typical unload / load time is 2.0 minutes
Throughput[3]:	• V speed imaging: 16 minutes for a full size plate @ 2540 dpi 3.3 full size plates/ hour including unload / load time
Accuracy:	• ±0.8 mil / ±20 microns absolute accuracy (at largest plate size)
Environmental Conditions	• 21 to 25° C / 70.5 to 76.5° F • 50 to 60% relative humidity (non condensing)
Electrical and Pneumatic Requirements	
Imager	• 120 V AC or 208 V AC (±10%) • Three phase (star) @ 20A per phase • 4 KVA • 50/60 Hz
Debris Removal System	• Electrical: 200 – 240VAC, 50/60Hz, 12A, 1 Phase
Equipment Dimensions	• 83”x41”x54” / 2110x1030x1370 mm (W x D X H)
Imager	• 83”x41”x54” / 2110x1030x1370 mm (W x D X H)
Debris Removal System	• ”20x”24x36” / 510x600x900 mm (W x D x H)

Weight (approx.)	
Imager	• 2006- lb / 910 kg
Debris Removal System	• 125 lb / 57 kg

[3] Imaging time is dependent on media sensitivity. All values are for media sensitivity of 3000mj/cm². See your Creo representative for med ia-specific imaging times

Floor space:	Total space recommended for equipment is: • 176”/4470mm x162”/4110 mm
Regulatory Compliance	cTUVus File number : 30480964.002 CB File number: 30480964.001
Safety	• 98/37/EC • EN 60204-1: 1997 • EN 292-2:1991/A1:1995 • EN 983:1996 • EN 614-1:1995 • 73/23/EEC • EN60950-1:2001 • IEC 60950-1:2001 • UL 60950-1:2003 • CAN/CSA-C22.2 No60950-1-03
Laser:	• EN 60825-1:1994/A1:2002+A2:2001 (Safety of Lasers) • ICE 60825-1:1993/A1:1997+A2:2001 • 21 CFR 1040.10 (Safety of Lasers)
EMC/FCC	• FCC 47CFR part 15:2004,subpart B, Class A • ICES-003: 2004 Issue 4, Class A • VCCI V-3/2003.04, Class A • EN 55022: 1998+A1(00)+A2(03), Class A • EN 61000-3-2: 2000 • EN 61000-3-3: 1995+A1(01) • EN 61000-3-11: 2000 • EN 55024: 1998+A1(01)+A2(03)
Emissions	• All Creo ThermoFlex devices include a debris removal system to help extract and filter airborne emissions (chemical and/or particulate) that may be released when imaging flexographic media. Extraction and filtration efficacy is media dependant. Please consult a Creo representative for any supplemental air exchange / ventilation requirements.