



## **ECLIPSE® Anilox Roll Laser Cleaner**

Advanced Cleaning Technology for Your Valuable Rolls and Cylinders

### **TECHNICAL DATA SHEET**

On-Press, Portable System: **GC-PORTABLE**

#### **Key Benefits Include:**

- Chemical and Waste Free
- No cleaning media required, so no “consumable” to purchase
- Low cost operation – only requires electric (no compressed air, no water required)
- Fully Automated – can leave unattended
- Meets or exceeds OSHA requirements for industrial laser system

#### **Designed to Clean:**

- Rolls/Sleeves/Cylinders – Most kinds including anilox, gravure, chrome and steel rolls.
- Surfaces - Virtually any line screen, engraving, pattern or complex geometries without any damage to cells, walls or landings.
- Residues – Water, UV and solvent-based inks, various coatings, cross-linked materials, adhesives and other residues.

#### **Proprietary Circular Scan Pattern:**

- Our exclusive circular scan laser is a “hot-spot” free generating light beam.
- Our solid-state diode style laser is a built-to-last; no flash lamp
- Laser LINEAR cleaning speed is about 1-6” (25.4 mm – 152.4 mm) per minute depending on residue type and buildup.

#### **Unique Eclipse® Features:**

- Quick & Easy laser assisted focus
- Multi-stage filter system
- “Tunability” – easily fine tune cleaning parameters by controlling the laser pulse frequency, RPM and scanning speed, roll surface speed, and the number of cleaning cycles.

#### **Safety Features:**

- Key control and password protected PLC
- Touch screen indicator icons
- Emergency stop
- System default to zero power
- OSHA Compliant
- System sensors for air flow
- System sensors for filter life
- LED status indicator light

#### **Laser Safety:**

- Industrial laser safety training required for all Eclipse® operators
- Do not use the laser near flammable materials or gasses.
- The safety procedures contained in the ANSI Z 136.1 American National Standard for the Safe Use of lasers and/or the IEC 60825-14 Users Guide should be followed.





**Work Space:**

- Laser Safety Officer (LSO) must be designated to supervise the use of this system and ensure proper protocols are followed.
- Proper signage is required
- Proper partitions/barriers in place
- Proper ventilation/fume extraction in use when laser system is operating (supplied by OEM)
- Proper eyewear must be provided to and worn by everyone inside the workspace.

**System Maintenance and Service:**

- Uses a solid-state diode style laser designed to operate at full strength with an average life of 100,000 hours.
- Included special crystal lens cover to protect actual lens.
- Fume extractor filters - this system will automatically indicate when filters need to be changed out.
- Warranty - A full 1-year warranty is offered with purchase of machine. Any warranty and service issues will be responded to within a 24-48 hour time period. The system has a USB port for remote access through a laptop for system updates and remote diagnostics.

System Specifications	On-Press, GC-Portable System
Max Overall Anilox Length	240" (6096 mm)
Max Anilox Diameter	16" (406 mm)
Min Anilox Diameter	4" (101.6 mm)
Max Anilox Weight	N/A (2,000 lbs. [907 kg] for portable cart option)
System Foot Print	24" L X 48" H X 30" D (610 mm X 1220 mm X 762 mm) Optional Roll Cart – Size determined by customer needs
<b>Fumex</b> AIR FILTRATION SYSTEMS <b>Filter Specifications</b>	
Pre-Filter #1	35% @ 5 microns
Pre-Filter #2	MERV 11 (85% @ 3 microns)
HEPA Filter	99.97% @ .3 microns
Gas/Odor	Blended bonded carbon
Filter Replacement Notification	Yes
<b>System Details</b>	
Average Power	50W
Wavelength	1064nm
Operating Temperature	0-40 °C (32-120°F)
Storage Temperature	-10 - 60 °C (14-140°F)
Operating Humidity	10%-95% (Non-condensing)
Input Voltage	110V ±10% 50-60Hz ± 6%
Input Voltage Fuse	120V @ 10A
Power Draw	< 10A @ 110V AC
Minimum Calculated OD for Laser Goggles	OD ≥ 4.56 @ 1064nm
Minimum Recommended OD for Laser Goggles	OD ≥ 6 @ 1064nm
Laser Class	Class IV

