Micro Gravure® . . . exclusively by Yasui Seiki

- THE BEST coating system for ultra-thin liquid coating
- The patented small diameter of our "Micro Gravure®" rolls (plus the super-high precision of our machines!) gives excellent, really uniform thin coated layers.
- Continuous, uniform and thin coated layers from 0.007μ (70Å) dry or 0.7μ wet to 40μ wet are made with Micro Gravure® every day - - - no other system can match ours!

How does it work?
A small diameter gravure roll is half submerged in a supply tray. It rotates in a ‘reverse’ direction to the web. The roll picks up solution from the tray. A doctor blade removes excess solution from the roll. The solution is delivered to the ‘puddle’, and then transferred to the web. There is no 'backing roll'.

Why are ‘Micro-gravure®’ rolls so small in diameter?

Comparison of roll diameters and Footprints

Ordinary large diameter gravure roll shows:
- large contact area
- unstable ink
- unstable coating

Small diameter gravure roll has advantages such as:
- very small contact area
- very stable bead of ink
- uniquely stable, glossy and uniform coating

Coating Applications

Electronics: Photo Resist, Photo Mask layers, ITO, Hard coat, laminations, Diffusion screen, Silicone Release, Clear conductive polymer layers, PSA, Various layers for LCD, OLED

Optical: Anti-Reflective AR coatings, Adhesive for optical laminations, Hard coat

Bloomington Facility and Office: 601 S Liberty Drive Ф Bloomington, IN 47403
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Tabletop **Mini-Labo™** Test Coater

This *versatile* bench-top test coating machine provides *High Quality* coated web samples

**Wet Coating Thickness*: 0.7 μ to 40 μ  
**Dry Thickness*: 70 Å (0.007 μ) to 40 μ

This test coater is built to the *same* exacting standards as Yasui Seiki standard size lab and production “liquid-on-web” coaters

**Specifications**

**Mini Labo Base Model (700mm frame)** - includes 1 Micro Gravure coating roll: $35,900 (additional options available)

- Power: Standard 3-wire 110 VAC Outlet, 10 Amps.
- Web: Thin (1.6 μ) PET to 7 mil (175 μ) thickness PET, paper, cloth, plastic webs, foils 5μ to 125μ thick, up to 140 mm width. Maximum roll OD 200 mm.
- Cores: 3 inch standard cores, paper, plastic or metal, core width up to 150 mm.
- Coating: Optional coating widths of 80 mm, 100mm and 120mm.
- Web Speed: 0.2 to 2 m/min standard, optional speeds up to 1 to 10 m/min
- Unwind/coating web tension and winding web tension adjustable

***NEW for 2011***

**Mini Labo Deluxe** - $90,900

- **Micro Gravure® and Slot Die**
- 4 **Drying units @ 150 C**
- 120 mm wide coating
- 1 to 10 m/min coating speed

**Includes:**
- **Pressurized Tank**
- **Footage Counter**
- **Exhaust Blower**

*Note: Actual coating thickness depends on solution and web properties, and ratio of **Micro Gravure®** roll speed to web speed.*

* *Mini-Labo™* is **NOT** intended for use in areas requiring “Explosion Proof” design  *Mini-Labo™* design © 2002-2009

[http://www.mirwecfilm.com/coating/minilabo.htm](http://www.mirwecfilm.com/coating/minilabo.htm)

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