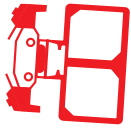




**SUN**  
AUTOMATION GROUP

**RAINBOW GRAPHICS™**  
Chambered Doctor Blade System



Sun's *RainbowGraphics* is a complete flexo inking system to replace your out dated wipe roll, single blade or old chamber blade system. It can also be used to convert letterpress to flexo. It provides:

- Large savings in ink
- Ability to print solids, line and screen
- Quick wash-up for reduced set-up times
- Reduced wash water
- Available up to 220" wide

As a complete system, *RainbowGraphics* includes:

**Chamber and Blades** - Rigid custom extruded chamber body and blade holders with the best available chemical and abrasion resistant coating. Ink flow pattern in the chamber ensures that the chamber cavity is always full to fill the cells of the anilox roll. Chamber body swings open for easy blade change.

**Support Beam** - Heavy beam mounted to follow the movement of the anilox roll to maintain accurate alignment of the blade to the roll for proper wiping action across the entire face of the roll.

**Continuous air loading** - Industrial strength bladder loads the blade to the roll uniformly across its face. Operates at very low pressure (5 to 10 psi)

**Totally enclosed ink system** - The ink is always either in the chamber, the bucket or the plumbing. It is never in an open pan. This keeps the ink free of contamination and minimizes the evaporation of the critical amines in the ink.

**Electronically paced pump** - The pulse rate of the pneumatic diaphragm pump is absolutely controlled electronically. The air pressure is such as to ensure that the pump does not stall under any conditions. There is no need for the operator to adjust the pump rate. Since the pump rate is controlled by the PLC, it operates at the proper speed to supply the chamber during printing and at a higher rate to initially fill the system and to evacuate the ink at wash-up.

**Unique valve system** - Reverses the direction of flow in the supply line at wash up to scavenge all possible ink and to clean all the lines.

**Soap Dispenser** - Supplies a small amount of soap at the beginning of the wash cycle to expedite the wash-up process.

**Electrical control** - PLC controls all aspects of the system operation such as pump speed, wash cycle and valve operation.

**Touch control message screen** - Keeps operator informed of the status of the system at all times and provides access, with password, to adjust operating parameters.

**Ink flow detector** - To warn the operator of absence of ink.

**Ink surge suppressor and filter** - Provides a smooth flow of filtered ink to the chamber.

**Anilox roll drive** - To drive the anilox roll at idle speed when the machine is not running (if required).

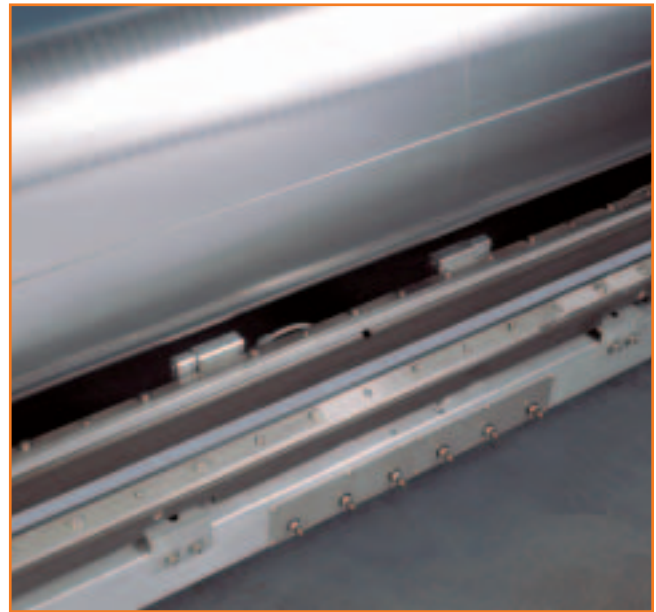
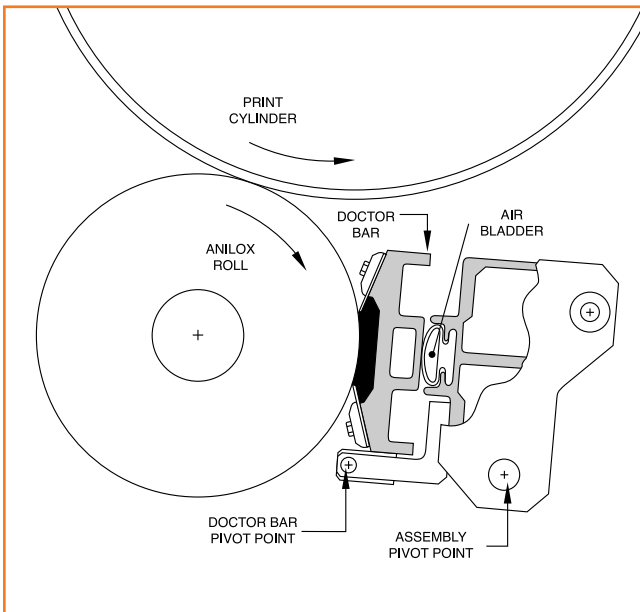
**Manuals and Video** - To train operators and maintenance personnel.

**You need SUN  
to grow.**



# - RAINBOW GRAPHICS™ -

## Chambered Doctor Blade System



### ROI Considerations

<b>FACTOR</b>	<b>QUANTIFIABLE BENEFIT</b>
Set-up time	Two roll system takes 20 minutes to wash-up RainbowGraphics takes only 5 minutes
Ink Cost	Two roll system wastes 7 pounds of ink at each wash-up RainbowGraphics loses only 1 pound
Wash Water Treatment	Two roll system uses 15 gallons of water per wash-up RainbowGraphics uses only 7 gallons
Routine Maintenance	Cost to recover wipe roll once is about \$1,900 Blades and seals for RainbowGraphics cost only \$1,240 per year
Rejections/Returns	Ink film on two roll system varies with speed and roll pressure setting RainbowGraphics maintains the same ink film under all conditions



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