

Ink Quality Control Systems

Sante Conselvan



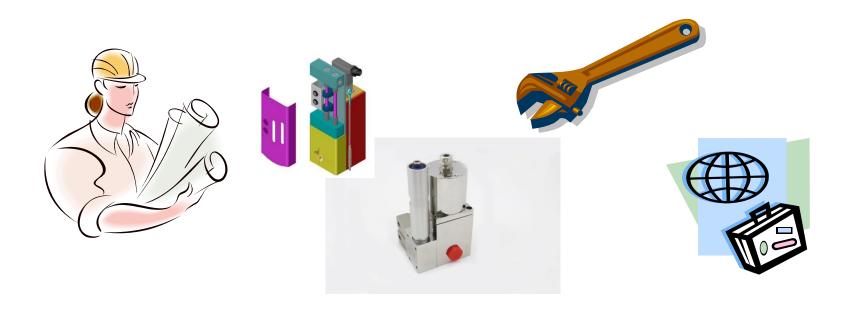
Gama Group

- Private Company
- **Founded 1992**
- GAMA Sr Factory in Robbiate (LC)
- GAMA International srl Sales&Marketing office in Milan
- Up 7.000 installation WW
- Wide Solution Range of Viscosity & Temperature Control System



Gama Products

We project, develop and produce all our solutions





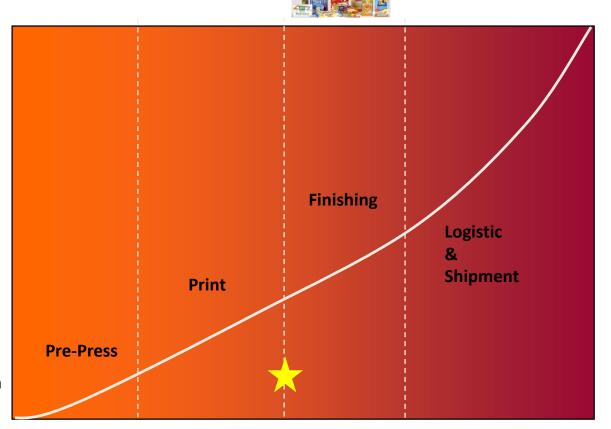
Ink Quality Control System

· Products

- G27
- G30 Cold/Adhesive Viscosity Control
- G20 Solvent Ink Viscosity Control System
- G26 Solvent Ink Viscosity Control System
- G29 Water Ink Viscosity Control System
- G28 Ink Viscosity Control System for Publishing
- G70 Magnetic Filter
- G80 pH Control System
- G90 Temperature Control System



Cost of Quality







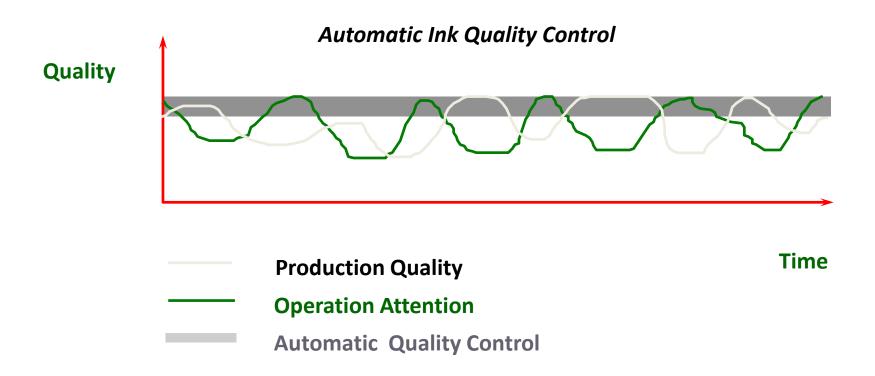


Medicine: keep out of reach of children Dosage and administration: see package insert Do not store above 30 °C Store in the original container (sensitive to light)

Production Process



Ink Quality Control Systems



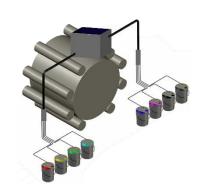




It's a long way to... film Goodbye... container



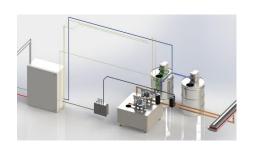




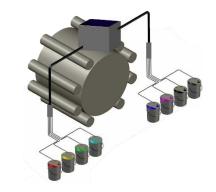


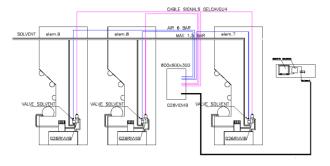


It's a long way to... film Goodbye... container

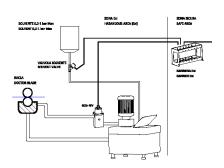








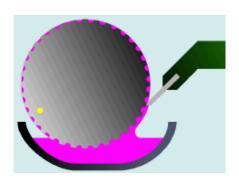




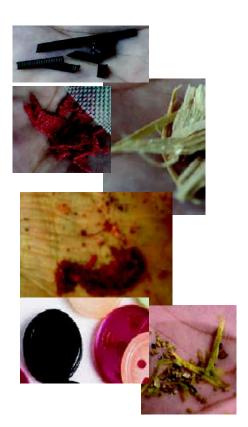


Ink Pollutions











G70 Magnetic Filter



Mesh 20-40-80



G70 Magnetic Filter

Before - After



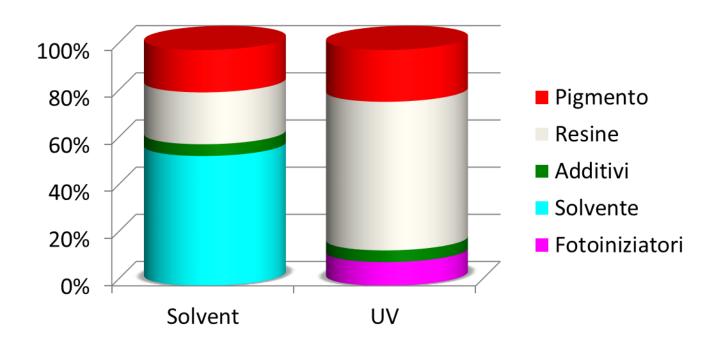








INK



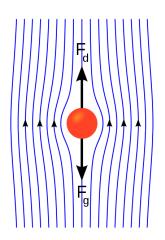


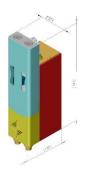
Ink Control Benefits

- Increase the Quality of Printing Process
- Consistent Ink Formulas
- Continue Amount Inks-Solvent-Adhesive
- Save Solvent-Ink (- 20/30%)
- Control the Deviation of the Viscosity
- Control ink Temperature
- Formula Data Base



Viscosity Control System





What is Viscosity?

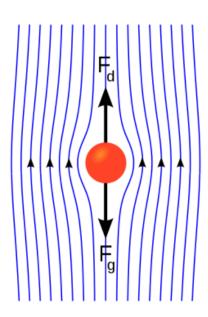
- Viscosity is a property of fluids that indicates the resistance to flow. Depends on the fluid temperature and is usually denoted by the Greek letter μ or more rarely with the letter η to recall the connection with the friction of mechanical
- Drop Ball Misurament Technology
- Ink, Adhesive, Cold Seal and Varnish
- Solvent and Water base
- Gravure & Flexo Packaging





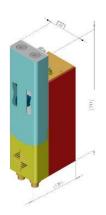
Ink Viscosity Control System

Drop Ball Technology or Old Technology













New Technology Vibration System

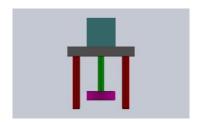








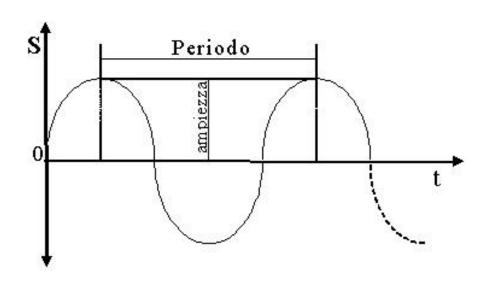








Vibration Measurement Tecnology



$$\rho = \frac{m}{V}$$







Benefits



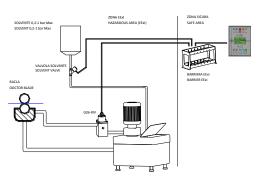


- Sustainability Impact
- Reduce Energy Power
- Compact Unit
- No Mechanical Parts
- No Consumable Parts
- Fast Installation
- Reduce Maintenance
- Water Base Ink Control
- Solvent Base Ink Control

- Increase Quality Printing Process
- Constant Ink Formulas
- Save Ink/Solvent
- Control Deviation Viscosity
- Control Ink Temperature
- Easy to Use
- Reliability
- PH Control
- Data Base

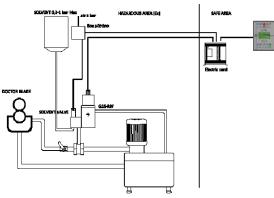


G20 Viscosity Control System



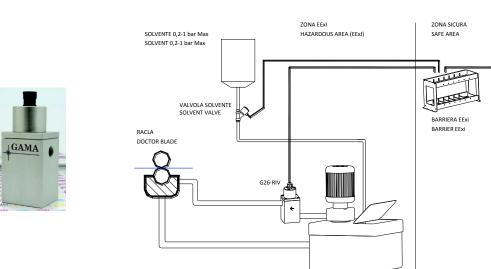








G20 Viscosity Control System

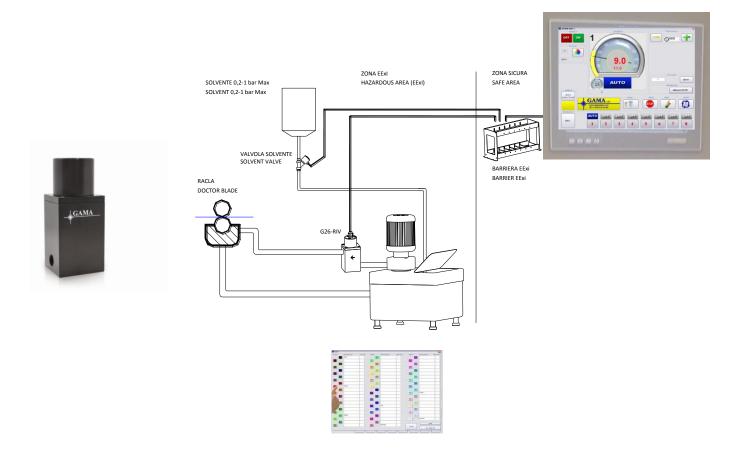








G26 Viscosity Control System





NEW SolutionsVIS-G29 Water Base Ink





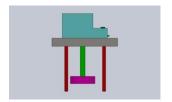
G29 Water Base Ink

Torsion-Vibration Technology











G29 Water Base Ink

- pH e viscosity are linked
- when viscosity increase, il pH decrise
- pH is lowered and the resin are separated from the solution before the ink is printed
- anilox cells occlusion
- increase the tendency to accumulation of ink on the edge of graphic element, hight light and shutting)
- ink hard to dry

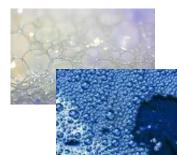


Water Base Ink pH-Temperature Control System

- pH Control
- Temperature
- Viscosity
- Reduce Foam
- Increase Quality of Printing Process
- Improve Press Speed
- -Ideal pH 8-9
- Ideal Viscosity 16-22"
- Ideal Ink Temperature 22°/25°







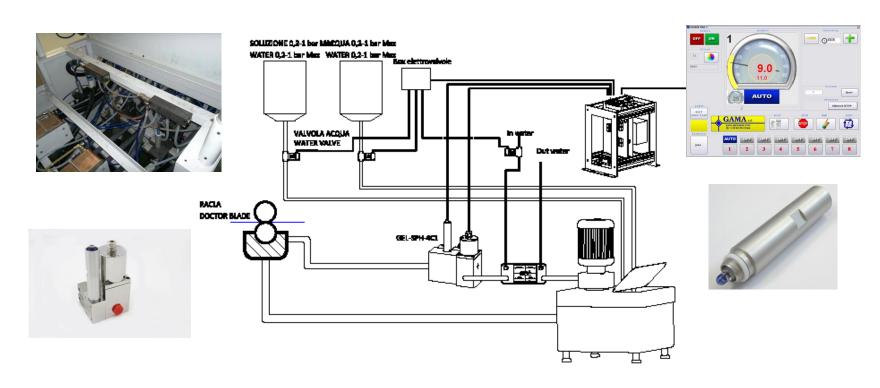






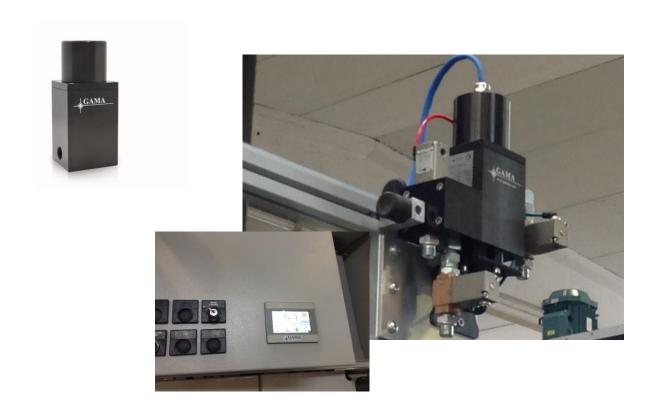
VIS-G29

pH and Temperature Control System





VIS-G30 Adhesive - Varnish





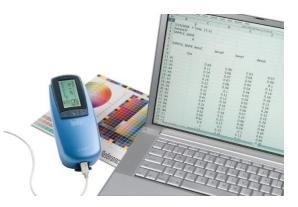
Viscosity & Density Line Control













Post Sales



Service Support





Hot Line for Info - Modem



Specialist to Dealer/ Client



Thanks for the Attention

Q&A

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