



KPN GRAPHIC

# INKSPEC<sup>®</sup>

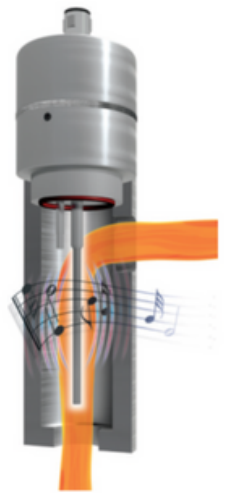
THE VISCOSITY CONTROL SPECIALIST

## WORLD LEADER IN AUTOMATIC FLEXO INK VISCOSITY CONTROL

- The IIS is the best-selling viscometer (several thousand units per year) worldwide.
- Massive penetration of the OEM market.
- Our products influence our competitors.



And many more...



## INKSPEC AWARDED TECHNOLOGIES

- Automatic viscosity control
- Solvent-blending system
- Filters



PLGA 2006



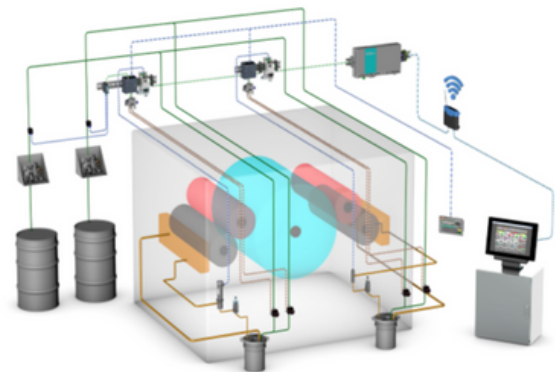
FTA 2007



GAA 2008

## SERVICES

- Worldwide technical product support



LINE OA

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kpngraphics.co.th



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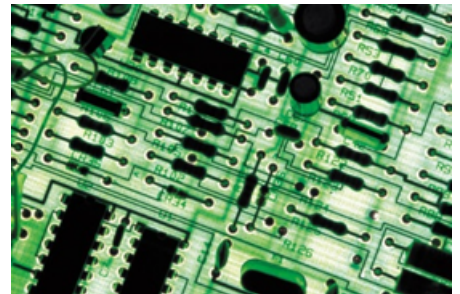


## 30 YEARS OF INNOVATION

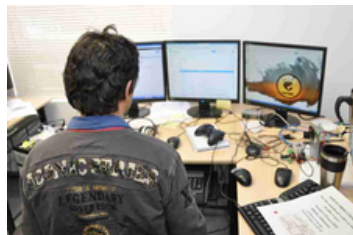
InkSpec is a manufacturer of high technology viscosity controls and is also a research laboratory. The expertise acquired over the last 30 years combined with the creativity of its Research & Development team allows InkSpec to develop its products from a complete perspective. InkSpec designs its own electronic circuits, software, visual operator interfaces and embedded firmware that ensure the functionality of the product.

## DESIGN & PRODUCTION CAPABILITIES

- InkSpec uses certified subcontractors for the production of certain mechanical & electronic sub-assemblies
- Final assembly & quality control is done within the InkSpec facility
- InkSpec has state of the art quality control equipment including a thermal testing room where 100% of electronic components are thermal cycle tested from -10c to +50c for a period of 24 hours



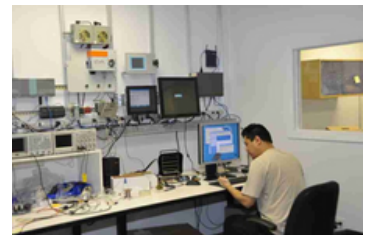
**Machine Shop**



**Software Design**



**Mechanical Design**



**Research & Development**





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## QUALITY SYSTEM



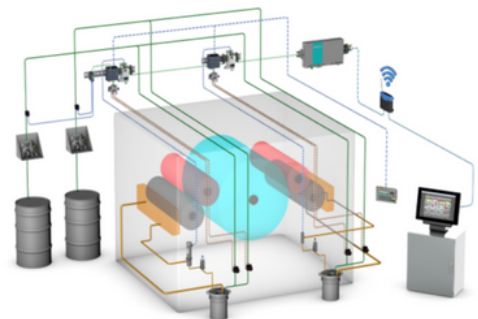
InkSpec follows and respects the highest quality standards throughout the company.

**European Standard EN 13980:2002**

**Viscometer Certified Class 1 Div 1 Group C&D (North-America)  
ATEX (Europe), IECEx (Asia, Australia, New Zealand)**

## MAIN COMPONENTS OF AN INKSPEC SOLUTION

- Webox Touch System
- IIS Viscometer
- Central Fluid Dispenser
- Temperature Control
- Magnetic Filters
- The click Module

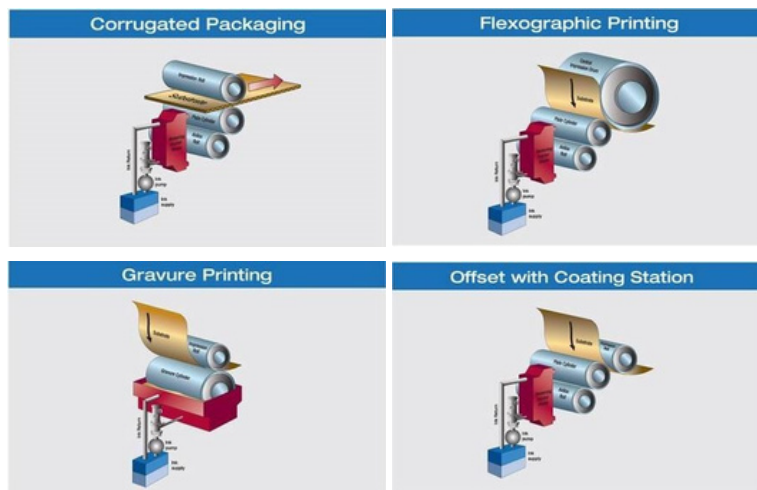


**All of them combined provides you with a complete viscosity control system.**

## MARKET INTEGRATION

- Corrugated Packaging
- Flexographic Printing
- Gravure Printing
- Offset With Coating Station

**We are able to deal with any type of press in the best to worst situation**



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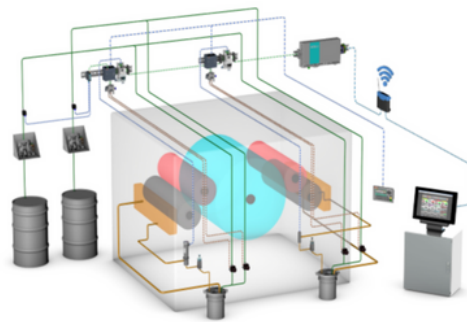


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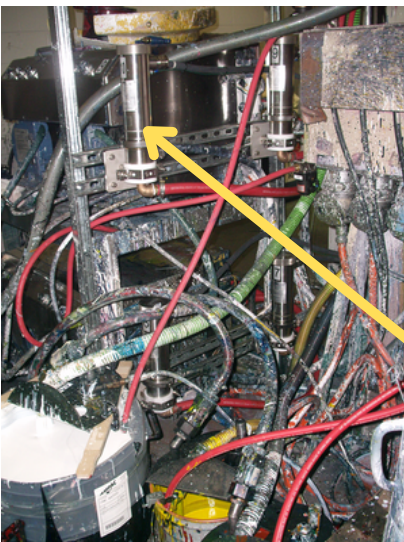
## EXAMPLE OF A CI PRESS INSTALLATION



## IIS VISCOMETER (INTELLIGENT IN-LINE SENSOR)



- Maintenance free and no moving parts
- Award winning and proven reliable technology
- Provides tight control to maintain process quality
- Ready for all kind of inks
- Explosion proof and ready to work in all temperatures
- The IIS is installed directly in-line between the ink pump and the press. The ink flows through the IIS on its way to the press. Immersed in the ink flow in the IIS is a micro-vibrating element. The micro-vibratory frequency is dampened more or less based on the viscosity of the ink or liquid passing through the sensor. This dampening effect is then translated through an electronic signal to reveal a digital reading of viscosity based on the Centipoise scale for thixotropic liquids.



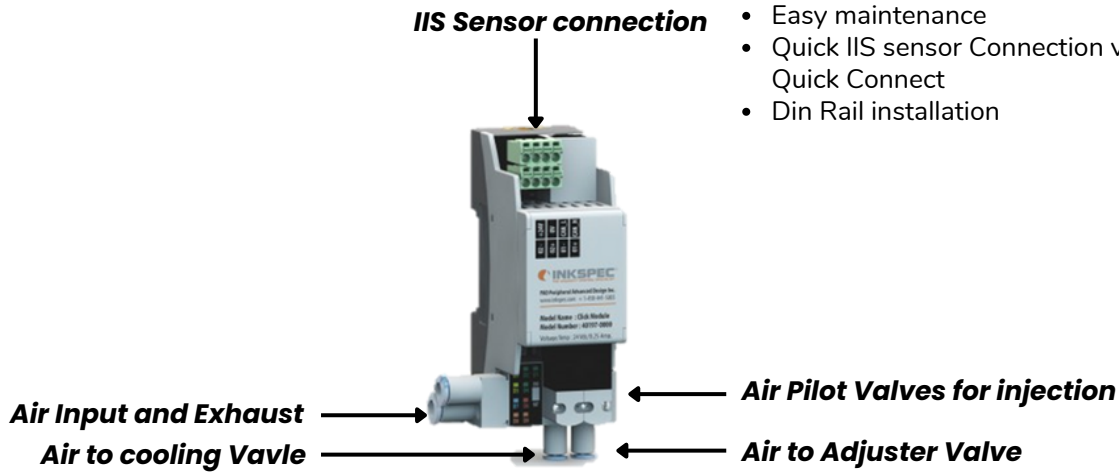
***Our actual IIS***



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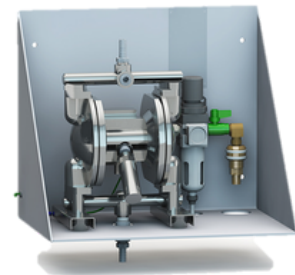
## THE CLICK MODULE



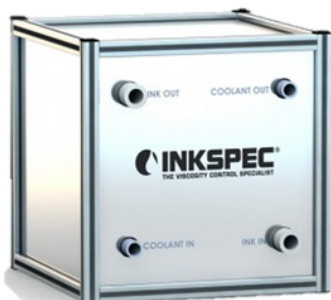
- Quick Installation
- Easy maintenance
- Quick IIS sensor Connection via Quick Connect
- Din Rail installation

## CENTRAL FLUID DISPENSER ( MAY BE CUSTOMER SUPPLIED)

- Consists of a pneumatic double diaphragm pump & an air pressure regulator
- Purpose is to supply the adjuster fluid, at a constant pressure, to ensure extremely accurate dosing and better ink control
- Easy to install (bracket included)



## TEMPERATURE CONTROL CUBE



- Installed in Ink feed line or Ink return line
- Provides high efficiency heat transfer
- Compatible with Water, UV, Solvent or EB inks
- Designed with no obstructions for easy in-line cleaning
- Can be integrated to your InkSpec viscosity control system or as a stand-alone cooling system





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## MAGNETIC FILTER

- Protects anilox rolls from metallic doctor blade fragments
- No flow restrictions (inlet/outlet 1" NPT)
- Powerful rare Earth magnet
- Various strainer sizes available
- No tools required for quick and easy maintenance



## CENTRAL FLUID DISPENSER ( MAY BE CUSTOMER SUPPLIED)



Foaming  
 Press Stoppages due to dirty plates  
 Reduces Colour variations  
 Ink consumption/waste issues  
 Drying issues



Profitability  
 Productivity  
 Client Satisfaction  
 Consistent print quality

## RETURN ON INVESTMENT DISCUSSION

"A shift of 1 second in ink viscosity as measured with a Viscosity cup can result in 50% excess ink lay down..."  
 -PFFC

It can reasonably be assumed that a press stoppage to clean a dirty Printing plate will take about 15 minutes.  
 How often does this happen?!

Let us assume that we can only save you one stoppage per day for a full year. That stoppage could be for a dirty plates, ink colour adjustment or foaming issues.

15 (.25) minutes \* 300 days = 75 hours per year of lost press time  
 75hours X 400\$ = 30,000\$ per press 37,500\$ if 500\$/h

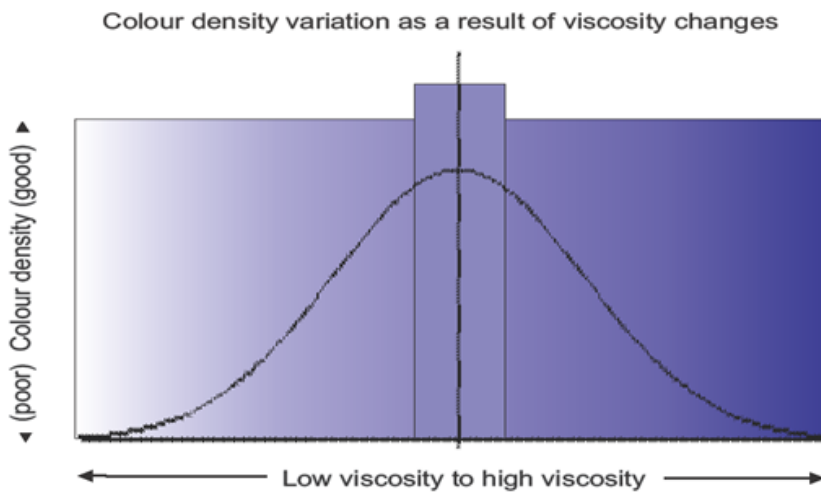




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## RETURN ON INVESTMENT DISCUSSION



*Using automatic viscosity control with the precision of the InkSpec IIS will allow you to hone-in and maintain the ink viscosity at precisely the optimum viscosity setting, producing the desired result.*

