vipFLEX

Measurement solution for transparent flexo plates

Packaging Solutions

To successfully implement and achieve reliable results in Prepress and Pressroom, **solutions for all parts of the workflow are required**:
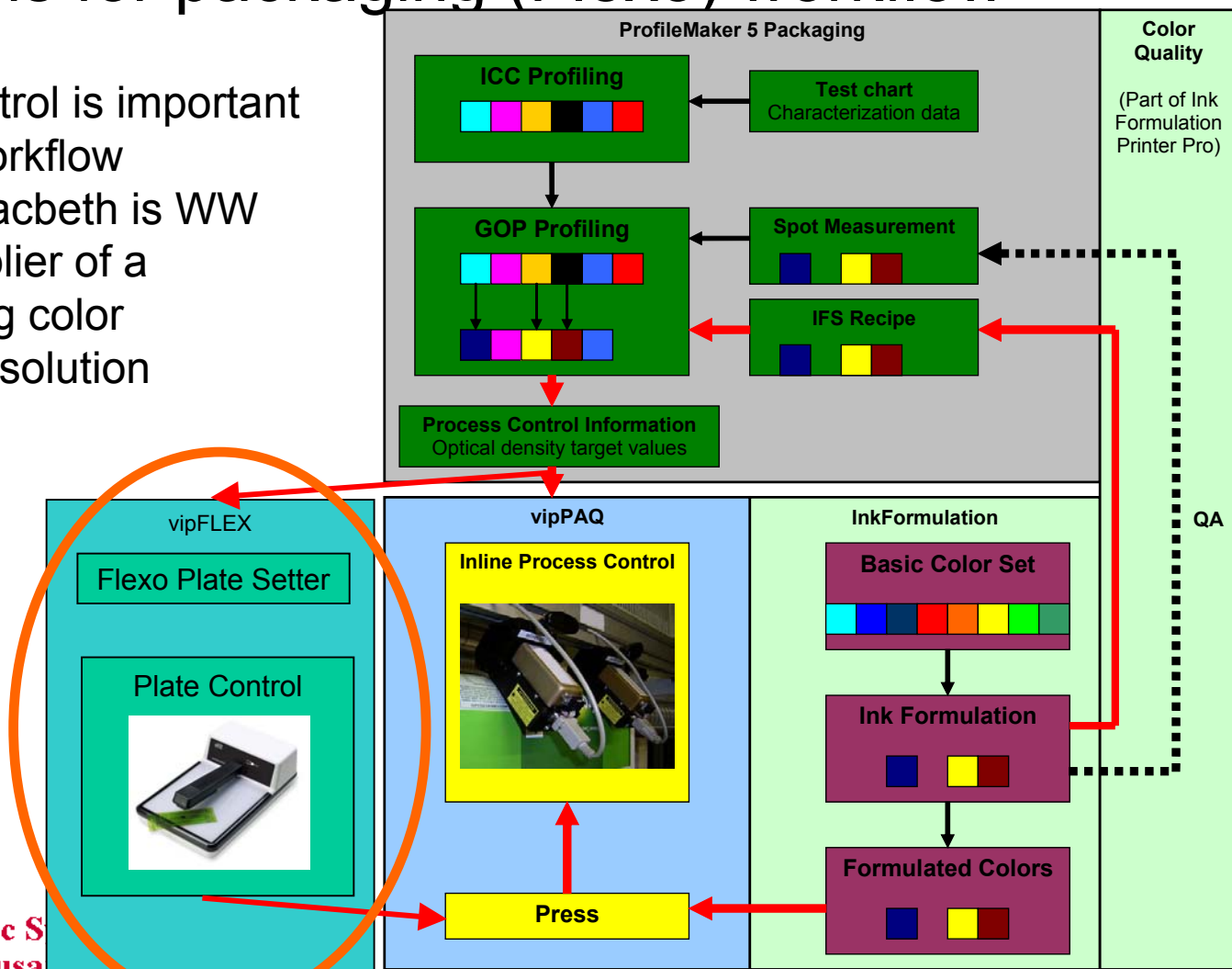
- Prepress/Color Management
- Plate production
  - For Offset printing (aluminum plates): iCPlate II solution
  - **For Flexo printing (flexo plates): New vipFLEX solution**
- Ink Preparation
- Press control
- Quality Control

Solutions for packaging (Flexo) workflow

- Plate control is important part of workflow
- GretagMacbeth is WW only supplier of a packaging color workflow solution

ProfileMaker 5 Packaging

ICC Profiling

Test chart Characterization data

GOP Profiling

Spot Measurement

IFS Recipe

Process Control Information Optical density target values

Color Quality

(Part of Ink Formulation Printer Pro)

QA

vipFLEX

Flexo Plate Setter

Plate Control

vipPAQ

Inline Process Control

InkFormulation

Basic Color Set

Ink Formulation

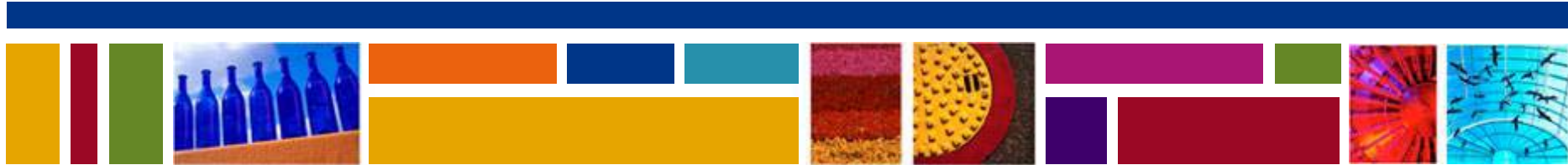**Formulated Colors**

Press

Customer Needs

- Cost and time waste
  - Stopping the press, caused by insufficient quality of the printing plate production process, can be avoided before extensive amounts of paper and inks are wasted

- Output quality
  - Improve quality.
  - Give quality assurances to end customer

- Meeting ISO standards
  - The measurement values may be documented to meet traceability recommendations of ISO

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Value Propositions

- Quality control of exposed and developed printing plates
  - **Early recognition of mistakes**
    - Avoid future problems in production process
    - Save time: No restart of the same job
    - Save ink and paper by running the press only with checked plates
  - **Obtain a quality proof of job**
  - **Reduce waste** of plates through a reduced number of iterations to obtain a corrected plate
- Reduced setup time for the Flexo CTP machines. Used to quickly calibrate Flexo CTP devices
- **Traceable data**, as with the PlateQuality Flexo Software all measurements are automatically stored

Description

The vipFLEX solution included in each package:

- vipFLEX measurement device
  - Desktop flexo plate reader for transparent flexo plates

- New: PlateQuality Flexo Software
  - Database software for plate quality assurance
  - Same look&feel as PlateQuality Software for iCPlate II

- New: vipFLEX Target
  - Tool that allows to check the accuracy of the vipFLEX device at customer site.

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vipFLEX Capabilities

- Measurements on the **all transparent flexo plate types** (90 % of all flexo plates).

- Supports **AM and FM screening** (FM limited to the highlights and shadows) , as well as "**Samba**" (Hyprid) screening on flexo plates.

- Beside **flexo plate**, screen measurements on **paper, film and aluminum plates** (offset) can be analyzed.

- **All needed parameters** for plate analysis are available: Dot area, dot size, screen ruling, edge factor, mottling and visual analysis.

- The **Micrometer** feature makes it possible to measure in the image. Therewith, e.g bar codes can be analyzed.
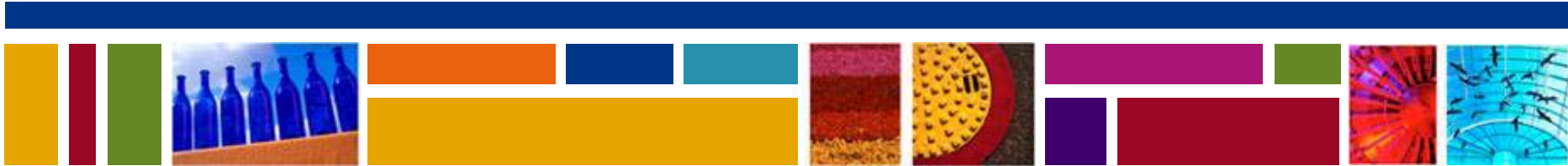
vipFLEX Technology

- Sensor   RGB camera 640 x 480
- Resolution Sensor   10'000ppi
- Pixel size: 2.5 x 2.5 micrometer

- Illumination   RGB (auto selection)
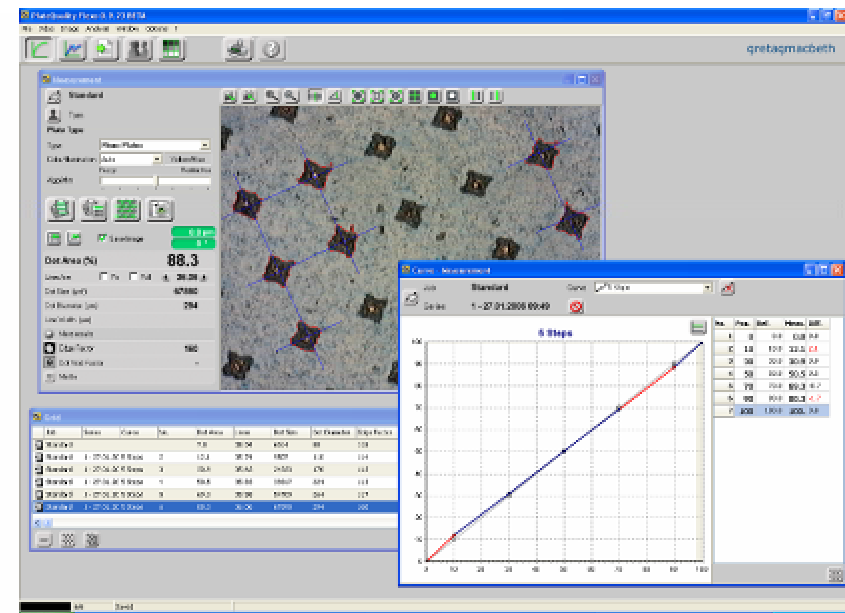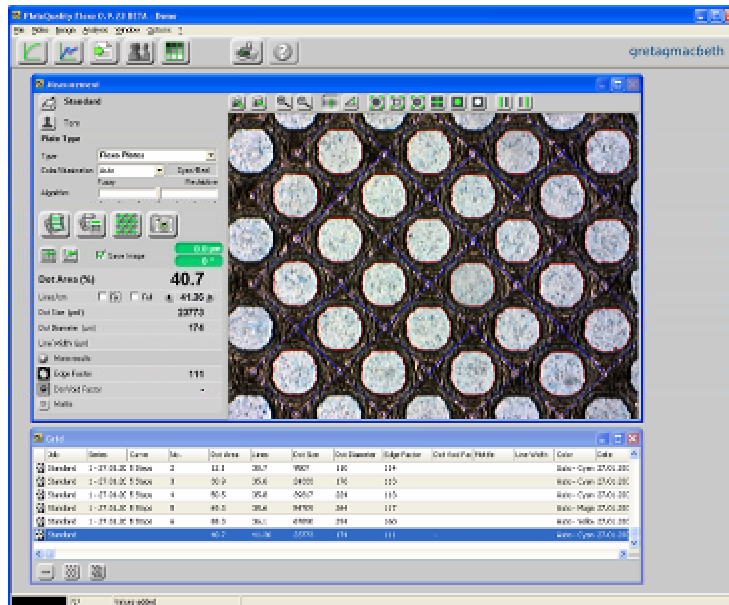
- Measurement area   1.5 x 1.1 mm

- Interface   USB
- Power Supply   USB (Standard)

PlateQuality Flexo Software (1)

Flexo plate quality assurance software with unique capabilities for fast and flexible quality control in flexo plate production

- Stores, visualizes, and documents both individual measurements and plate characteristic curve measurements
- Both measurement values and plate images are stored in a database

PlateQuality Flexo Software (2)

Benefits

History Tracking / Data Management:

- Automatic storage of measurement values and images in a database to **document and trace** all measurements.

- Contains job, customer, reference and measurement value database, to classify and order the data. This helps to **find and trace measurement data fast and easy**.

- All associated and relevant data, as plate type, screening, imager, chemistry data and more can be stored for a **traceable documentation**.

- **All types of control wedges are supported**, as the reference curves with the tolerance specification are customizable.

Data Processing:

- Measurement data and images can be **exported for a more in-depth analysis**.

- Measurement data and images can be **printed in multiple layouts** for documentation

PlateQuality Flexo Software (3)

System requirements:
- Pentium III 700 MHz or higher
- Windows 2000 or XP
- Min. 64 MB RAM, Min. 50 MB free hard disc space
- 2 USB ports (Dongle and device)
- Monitor with 24 bit color or more and a resolution of 1024 x 768 pixels or more

Miscellaneous:
- Supported devices:
  - FAG vipFLEX, current vipflex 334 only
  - Supported languages, incl. Help:
  - English, German, French, Italian, Spanish, Chinese, Japanese, Russian
- Protection:
  - The software is dongle protected and is delivered with an USB dongle.

Demo Version (not dongle protected):
- For demo, the software can be used without a measurement device.
- Can be downloaded from our website: www.gretagmacbeth.com

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vipFLEX Target

vipFLEX Target allows to check the accuracy of the vipFLEX device at customer site.

Description

- The vipFLEX Target tool set is a reference plaque with a 9 step wedge and is valid for two years.
- To store and track the measurements the target is supported by the PlateQuality Flexo software.

Benefits

- The iCPlate Target gives the user the assurance that the iCPlate II measures correctly.
- **Support of ISO 9000** process with the possibility to store the data and to print out reports.