

PRODUCT SPECIFICATIONS

▼ Media

Chrome and Copper Gravure Cylinders (20 - 200 lpcm | 50 - 500 lpi)

Minimum roll/cylinder diameter: 3.25" / 82 mm

▼ Cell Evaluation

Volume calculation in cm³/m² or BCM

- Cell Volume Cell depth Cell screen count Cell opening & height
- Cell wall width Cell angle Channel width Engraving angle

Geometric measurements

Averaged readings over n sections across the roll

▼ Image Analysis

Images are taken by the camera and transferred via USB to the PC. The image analysis and calculations are done by the dedicated *Gravure QC*

Software based Vibration detection and suppression (4 levels)

Digital Zoom range 1:1 up to 6:1

▼ Variance of Readings

Volume readings:

typically better than ± 2% @ 12cm³/m² | 8 BCM

.gcp format (incl. 2D/3D info); JPEG and BMP (bitmap export)

1 co-axial and 2 x 9 radial white light LEDs (SW-controlled)

OPTIONS

▼ Software Options

Cylinder Management System (CMS)

Additional QC Applications (see separate brochures): FlexoPlate/Sleeve Analysis and Anilox Analysis

▼ Calibration / Maintenance / Service

ACP AniCAM Certification Package for X/Y/Z and Volume calibration

Annual Service Contract | GTM Online Training and Support

▼ Hardware Options

Stylus Holder + Stylus inspection application software

TECHNICAL SPECIFICATIONS – ANICAM

▼ Electronics

Mono CMOS camera with 640 x 480 pixel resolution.

USB2.0 Control via PC

External ac power supply

▼ Lenses

Three lenses (x04, x10 and x20)

▼ Dimensions

AniCAM: 21 x 12.5 x 21 cm (W x D x H)

AniCAM Case: 40 x 30 x 16 cm (W x D x H)

▼ Weight

AniCAM: 2.9 kg / 6.5 lbs

AniCAM with Case: 5.4 kg / 12.0 lbs

▼ Environmental conditions

Temperature: 16° - 32° C / 60° - 90° F

Humidity: 40% - 60%, non-condensing

▼ Minimum PC-requirements Intel or AMD processor, 2+ GHz, 4+ GB RAM, 1024 x 768, 24-bit Display, USB2.0, 150+ GB hard disk space

Windows 7 / Windows 8 / Windows 10

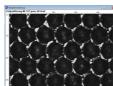
12 months return to base. Software upgrades FOC for 12 months.

ADDITIONAL QC APPLICATIONS

FLEXOPLATE ANALYSIS



flexo plates and sleeves (dot hight,



for 2D and 3D measurement of Anilox rolls (volume, depth, wall width, opening, screen count, angle, distances etc.).

ANILOX ANALYSIS for 2D- and 3Dmeasurement of





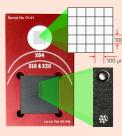








OPTIONAL: ANICAM CALIBRATION & CERTIFICATION PACKAGE (ACP)



An accurate X/Y/Z and mathematically proven volumetric measurement system, enabling Troika AniCAM users to test and calibrate their AniCAM systems in-house.

The ANICAM CERTIFICATION PACKAGE consists of an application designed to allow users to carry out mechanical, optical and electronic tests and subsequently a full Calibration & Certification of their unit that leads to self-certification and address ISO-requirements. The package uses a calibration tool for the X & Y axis calibration tests and calibrated spheres for Z-axis and volume calibration.

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Your authorised local Troika dealer:



ANICAM GRAVURE QC

FOR ACCURATE VOLUMETRIC AND DEPTH MEASUREMENT

















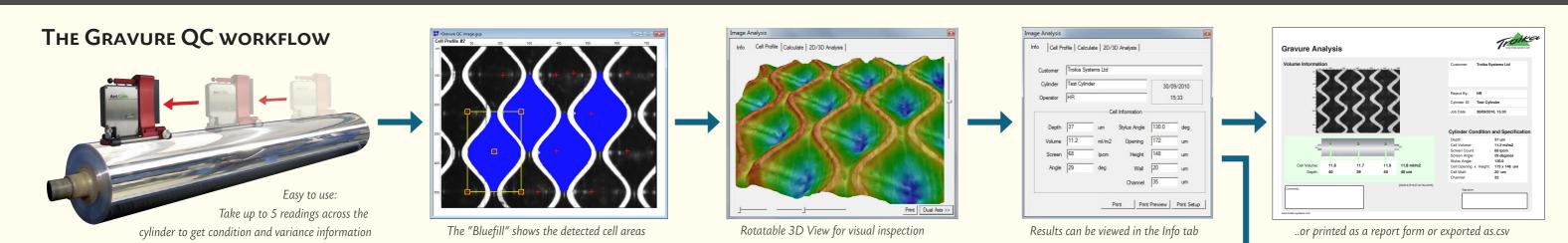


Volume, Depth, Openings, Wall, Channel and Consistency of Gravure Cells

PLUS: CYLINDER MANAGEMENT SYSTEM (CMS) FOR CONTINUOUS CONTROL OF YOUR CYLINDER INVENTORY







7016-Y

EASY TO USE AND PORTABLE QUALITY MANAGEMENT SYSTEM

The AniCAM 3D Scanning Microscope is a very professional instrument – it's operation is really simple: To take a reading simply place the portable camera system on top of your gravure cylinder, select the appropriate setup and click the 3D Scan button. The readings are shown in the Info section, where you also enter the Job name, cylinder-ID and operator name. The system generates a report which can be printed or the data can be exported to the CMS Cylinder Management System.

WHY GRAVURE CYLINDER QUALITY CONTROL?

The AniCAM Gravure QC was developed for gravure printers where Management and Quality Control of their cylinders is desired. In particular for inhouse recording of cylinder data, condition during use, and to enable financial planning for refurbishing or replacement.

ENGRAVERS

Measuring the actual opening, depth and volume on copper and subsequently chrome cells is becoming more important for quality control purposes during the manufacturing process.

Engraving mechanically with styluses or using a laser – it is important to analyse the engraving results regarding shape, depth, angles and consistency.

Variations can lead to considerably different depths and volumes which cannot be detected when making theoretical calculations.

PRINTERS

Using the AniCAM System and Gravure QC application helps to establish the quantity of ink required for a job. The quality of worn, refurbished or replaced cylinders can be compared to the original, important when establishing the characteristics for print.

Knowing the condition and wear of each cylinder in the inventory enables the printer to schedule refurbishing and replacements of cylinders.

Knowing that the cylinders have been properly cleaned and do not hold ink or varnish residue can save many hours of press set up time.

Knowing the actual volume measurements can help establishing better deltaE's and consequently less press set up time.

X/Y-Axis Micro-Adjusters



The X/Y MICRO ADJUSTERS have been devel- Exact Y-positioning: The Y-axis adjustoped to allow users to move the analysis head ment turns the wheels of the AniCAMs of the camera laterally up to 10 mm (±5 mm) feet. As a unique feature this assures a along the x-axis and across the y-axis by turn- constant distance of the whole measuing the feet to assist in finding special engrav-ring area to the camera - regardless the ings.



amount of movement.

STYLUS ANALYSIS OPTION



Stylus angle measurement: Simple stylus mount and software to check the angle and condition of the stylus. The hardware mount supports OHIO, HELL and MDC styluses. The software allows the visual representation of the stylus for condition and to measure the angle to ±0.1 degree.

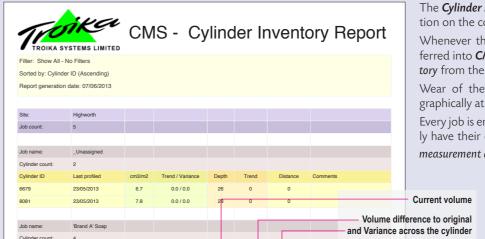
OPTIONAL: CYLINDER MANAGEMENT SYSTEM (CMS)



The CMS application can ideally be used to analyse the wear of all cylinder.s in the inventory.

The left example shows the history of a single cylinder

- The results of the reference readings across the width are displayed in this area.
- All subsequent readings will be displayed individually and averaged below the reference reading.
- The reading dates can be selected by the drop-down-header.



10.9

-1.8 / 0.0

-1.7/0.0

-13/00

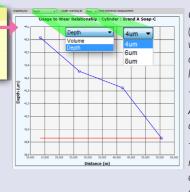
The Cylinder Management System provides detailed information on the condition of each cylinder in a job.

Whenever the cylinder is measured, the readings are transferred into CMS, which builds a cylinder and volume/wear history from the AniCAM Gravure QC application.

Wear of the cylinders can be monitored numerically and graphically at relevant points in the cylinders life.

Every job is entered with its job name, its cylinders subsequently have their own unique ID, screen count, date received and all measurement details.

> If the printer is fully aware of the condition of his cylinder inventory he will be able to improve the press set up time, reduce ink matching and improve production and profitability.



Depth difference to original

Graphs visualise the wear (depth or volume) of individual cylinders or a set of cylinders used for a particu-

The Depth Usage-to-Wear Analysis lets you select one of three warning values.

The values describe the maximum acceptable difference to the initial Reference depth readings. This value is marked with a red line.