



CMS - Cylinder Inventory Report

Filter: Show All - No Filters

Sorted by: Cylinder ID (Ascending)

Report generation date: 07/06/2013

Page 1 of 2

Site:	Highworth
Job count:	5

Job name:	_Unassigned
Cylinder count:	2

Cylinder ID	Last profiled	cm3/m2	Trend / Variance	Depth	Trend	Distance
6679	23/05/2013	6.7	0.0 / 0.0	26	0	0
8081	23/05/2013	7.8	0.0 / 0.0	28	0	0

Job name:	'Brand A' Soap
Cylinder count:	4

Cylinder ID	Last profiled	cm3/m2	Trend / Variance	Depth	Trend	Distance	Comments
7014-C	03/06/2013	10.9	-2.7 / cm3m2	10.9	-2.7 / 0.3	40	-4 54500
7015-M	03/06/2013	8.8	-1.8 /	8.8	-1.8 / 0.0	32	-5 54500
7016-Y	03/06/2013	11.4	-1.7 /	11.4	-1.7 / 0.0	38	-4 41000
7017-K	03/06/2013	7.5	-1.3 /	7.5	-1.3 / 0.0	27	-4 54500

Job name:	TastyBisc Belgium
Cylinder count:	2

Cylinder ID	Last profiled	cm3/m2	Trend / Variance	Depth	Trend	Distance	Comments
Cyan	24/04/2013	0.0	0.0 / 0.0	0	0	0	
Magenta	25/04/2013	2.3	2.3 / 0.0	18	18	0	

Job name:	ABC Chocolate
Cylinder count:	4

Cylinder ID	Last profiled	cm3/m2	Trend / Variance	Depth	Trend	Distance	Comments
100-Black	23/05/2013	7.7	0.0 / 0.0	28	0	0	
101-Cyan	23/05/2013	12.3	0.0 / 0.0	45	0	0	
102-Yellow	23/05/2013	13.0	0.0 / 0.0	44	0	0	
103-Magenta	23/05/2013	10.2	0.0 / 0.0	42	0	0	

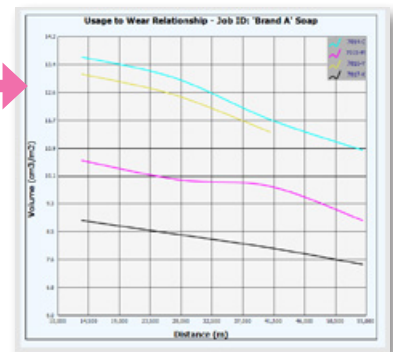
The *Cylinder Management System* provides detailed information on the condition of each cylinder in a job.

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

Measurements can be made at up to five positions across the width, recording *depth*, *volume*, *opening*, *height*, *wall* and *channel*.

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

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



Graphs visualise the wear of individual cylinders or a set of cylinders used for a particular job.

WHY USE THE CYLINDER MANAGEMENT SYSTEM?

The *Cylinder Management System* has been developed as a result of discussions with a selection of representative gravure printers worldwide. It became apparent that the strongest desire of most printers is to maintain the desired colour accuracy (*delta-E*), hence reducing the press setup time.

All these savings can now be achieved giving confidence that the cylinders are genuinely clean and the user is proactively aware of the condition for de & rechroming. Also that they match the desired depth and volume and they are within the maximum acceptable tolerance.

The CMS application can ideally be used to compare historical readings (*of for example good cylinders*) against current cylinder conditions. **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.**

Every cylinder in your inventory can/should be transferred/entered into the CMS data base. This is done automatically when using the *Troika AniCAM 3D Scanning Microscope* and the corresponding *Gravure QC application*.

An *individual Cylinder Report* provides detailed information on the condition of each cylinder – including

- **BASIC CYLINDER INFORMATION:** ID, Width, Supplier, Date of delivery, Screen Count, Wall width, Opening, Height, Channel
- **GENERAL AND DATE-RELATED COMMENT FIELDS**
- **A VISUAL REPRESENTATION** (*image*) of the original and current surface of the cylinder.
- **WEAR OVER TIME**
- **VARIANCE** (*Volume and depth difference across the cylinder*)
- **GRAPHICAL AND NUMERIC TRENDS** (*comparison between current and reference reading of the cylinder in depth and volume*).

INDIVIDUAL CYLINDER REPORT

Job ID: 'Brand A' Soap Cylinder ID: 7014-C Date Received: 08/04/2012 Comment: Wear beyond limits DE:RE

Screen: 600 LPI Screen Angle: 38 Deg Stylus Angle: 120.0 Deg Cylinder Width / Diameter: 1720 mm / 140 mm

Job History: - [4] General history: - [2]

Date	Revolutions	Distance (m)	Date	Type	Comments
21/05/2013	30000	13500	17/04/2009	Damage	Scratched - 9mm at cog end
06/05/2013	31000	14000	21/12/2008	Cleaned	Bicarb wash
05/04/2013	30000	13500			
04/03/2013	30000	13500			
Totals:	121000	54500			

Reference:

Date: 04/03/2013 - 11:47 - Operator: PJ

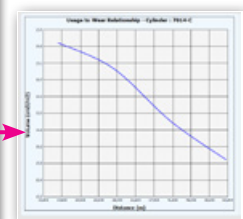
Position	Depth	Volume	Opening	Height	Wall	Channel
Left	44	13.7	172	46	21	17
Middle	43	13.5	171	46	21	18
Right	44	13.6	172	46	21	17
Average	43	13.6	171	46	21	17

Subsequent readings: - [3] Import: CMS

Date: 21/05/2013 - 14:10 - Operator: HR

Position	Depth	Volume	Opening	Height	Wall	Channel
Left	40	10.9	165	46	24	17
Middle	39	10.8	162	46	25	18
Right	40	10.9	164	46	23	17
Average	39	10.9	163	46	24	17

- The top section contains the basic cylinder parameters.
- The cylinder Width/Diameter entries are used for calculating the printed meters after the job is printed.
- The Job History and General History windows show date-related information.



Graphical Wear Analysis

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

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