

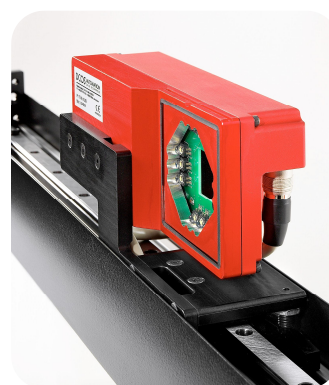
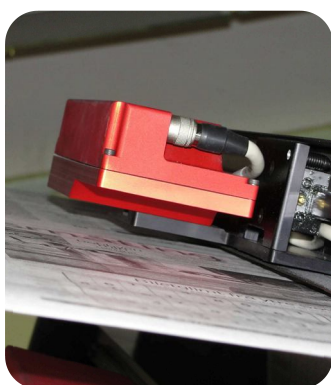
# Inspection

## DRCS inspection systems

**DRCS is a closed-loop inspection system developed in-house for the offset printing industry. It operates together with the other DCOS systems as well as a standalone application. DRCS has been developed for three main purposes, reducing start-up waste, maintaining good quality and reducing ink consumption during a complete production run.**

The DRCS inspection system includes different scanning products for various applications and purposes. The system is designed to search, find and analyze specific printed register patterns in order to measure and evaluate deviations in the printed product online, immediately after the print.

The DRCS products have been developed by a unique technology that provides market-leading performance when it comes to rapidity of finding marks and measuring resolution. The system is designed for web speeds of up to 20m/s. As the competition on the market grows, DCOS stand in the frontline and offer designed products with excellent performance. Our focus is to increase customer efficiency and lower costs with an intelligent closed-loop inspection system.



## DRCS – PRODUCTS

The 4th generation of intelligent scanners developed by DCOS team operates in newspaper and commercial printing; the system includes following products, briefly explained below.

APPLICATION	PTC4	CTC4	CRC4
Ribbon control (Center print)	STD		
Cut-off control	STD		
Web-guide (Center paper)	OPT	OPT	OPT
Color-to-Color register		STD	STD
Fan-out register (open loop)			STD
Fan-out register (closed loop)		OPT	OPT
Color control			STD
Water control			OPT
Dot gain			OPT
Print defect detection			STD

*STD = Standard, OPT = Option*

**PTC4 Scanners** – Mounts as close as possible to the folder and controls the web position in all directions from the print or the paper edge. Motorized transport bar comes as an option.

**CTC4 Scanners** – Mounts as close as possible to the last printing unit in order to handle all common deviations between individual colors. Motorized transport bar is available as an option.

**CRC4 Scanners** – With the aid of a motorized transport bar the intelligent scanner swipes the whole paper width to pick up online data. The collected inspection data provides the basis for many adjustment options such as; Color, color register, fan-out and water. The scanner mounts as close as possible to the last printing unit.

### BENEFITS & FEATURES

- **Multi-functionality within only one unit.**  
The CRC4 scanner handles multiple functions to gain efficiency and lower costs.
- **Multiple frames per revolution.**  
Multiple frames during the startup process results in less wastage of paper.
- **High intensity LED's results in better contrast.**  
Optical angle calculations and adjusted intensity results in a higher density tolerance.
- **Small and compact design.**  
The compact design with a maximum height of 60mm makes it possible to mount scanners between idle rollers.
- **The scanner s reads on an unsupported web.**  
The selection of optical lens improves insensitive tolerance.