QuadTech® Autotron™ Gravure 2200 Register Guidance System

Publication Gravure	Commercial	Newspaper	Packaging
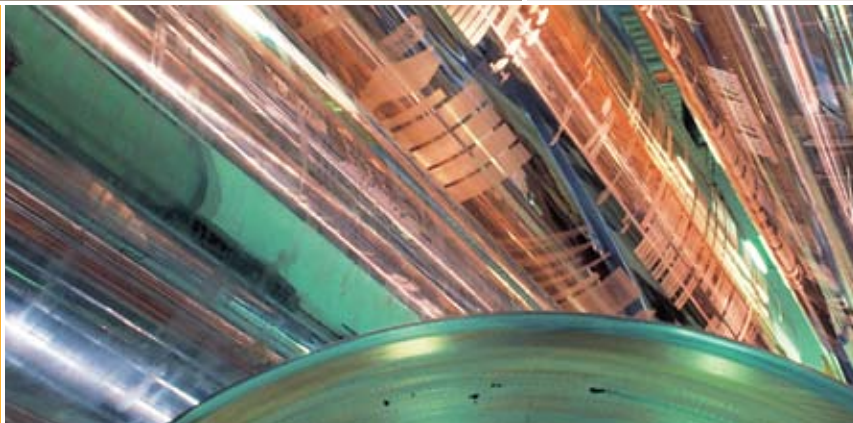
If you're looking for an efficient and affordable way to achieve comprehensive, high-performance register control for publications gravure presses, look no further. The Autotron™ Gravure 2200 Register Guidance System is already speeding makeready, startup, and reel changes for gravure printers around the world.

Dramatic waste reduction

In a single system, the Autotron Gravure 2200 enables fully automatic and comprehensive control over color, backup, ribbon, and slit registration on any gravure press, including the latest ultra-wide web machines – as well as steam and dryer-control capability, for superb fit registration upon startup. The result is minimized waste throughout the printing process.

- Patented, high-speed electronic mark recognition finds register marks within a few revolutions of print first appearing and starts controlling registration immediately.
- A solid-state detector electronically tracks the marks laterally without the need for a motorized head and without risking mark loss during restarts and splices.

- Steam and dryer-control algorithms are optimized to minimize energy costs.
- Optional ribbon control reduces waste copies, bleed-page problems, and general print misalignment, as well as both costly folder jams and downtime – the latter, by ensuring good ribbon-edge alignment from the time the press starts to run.
- Patented ribbon-length head system can automatically compensate for misalignment using marks for fast, hands-free registration … *or* using a feature in normal print, to eliminate the need for register marks and the associated delays.

The unique, patented diode array of the Autotron Gravure 2200 scanning head allows the detection of register marks over a very wide lateral area of the web. This eliminates the delays that can occur with motorized scanning heads.
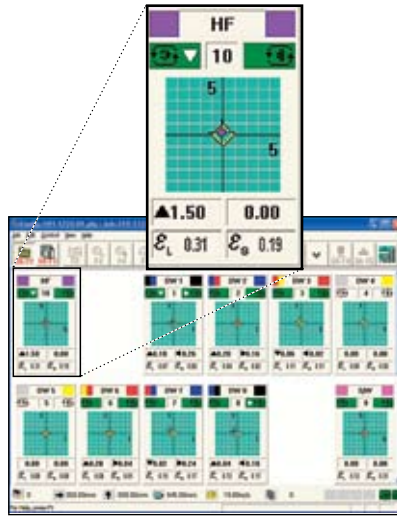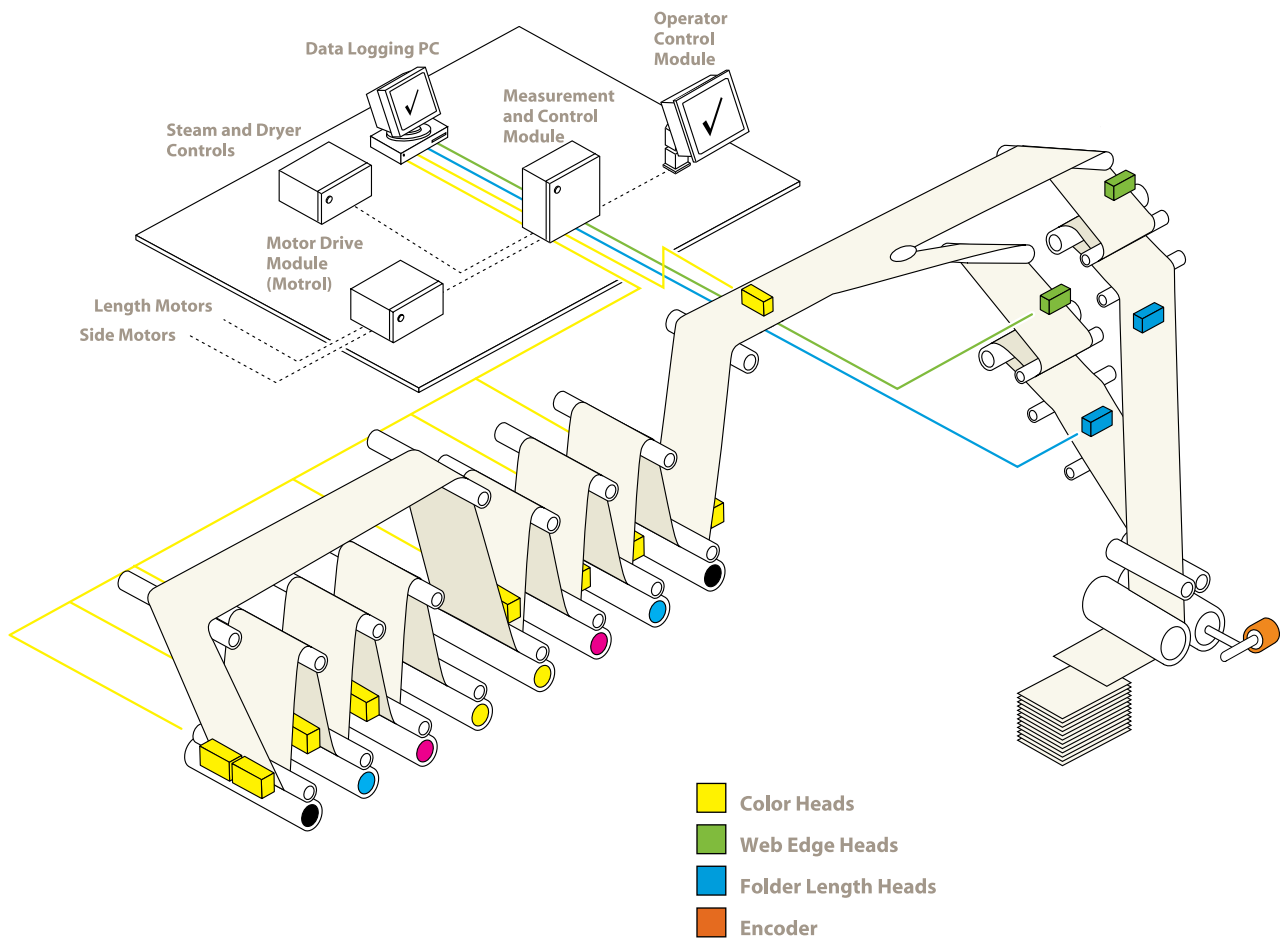
Unusual ease-of-use is standard with the Autotron Gravure 2200 system, thanks to its intuitive, Microsoft Windows®-based interface.

Autotron Gravure 2200 is the ideal solution for publication gravure printers whose goals include optimizing color quality and minimizing costs.

Outstanding quality

The Autotron Gravure 2200's superb scanning-head design combines with digital signal processing and auto-adaptive algorithms to deliver fast and accurate control over all critical phases of press operation – starts, restarts, splices, and steady-state running. It also controls all stages of the print process, including Tilt and Fit and color-to-color registration, as well as backup and ribbon control.

- Revolutionary control algorithm automatically adjusts the system to changing press conditions, maintaining an optimized performance profile throughout the print run.
- Tilt and Fit capability provides precise moisture-compensation and tilt-registration control upon startup.

- Optional ribbon control includes both cutoff and sidelay to help your operators maintain consistent quality even during starts, restarts, and reel changes.
- Optional interface to high-speed brushless servo motors enables fast, precise control at speeds up to 20 m/s (3,937 ft/min).
- Backup register control ensures proper alignment of print on both sides of the web to safeguard quality while preventing waste.
- Whatever components you choose, your operators will find it easy to achieve excellent print quality to meet all applicable international standards, including ERA and GAA.

Data Logging PC

Operator Control Module

Measurement and Control Module

Steam and Dryer Controls

Motor Drive Module (Motrol)

Length Motors

Side Motors

Color Heads

Web Edge Heads

Folder Length Heads

Encoder

A sound investment

A solid return on investment is virtually ensured by the Autotron Gravure 2200. That's partly because its modular configuration allows you to incorporate only the automatic control options you need today, without compromising your ability to augment them in the future. And partly because of the productivity improvements and waste reductions it promotes in pressrooms of any size.

- The Autotron Gravure 2200 delivers a high level of automation, letting your operators preset everything from job parameters to scanning-head positions and enabling compensator prealignment.
- It promotes a fast, hands-free makeready, which in turn frees your operators to concentrate on other aspects of pressroom operation.
- It's easily controllable via an intuitive touch screen running on the Microsoft Windows® operating system.
- The system can be quickly configured to suit any press applications – and to amass a wealth of detailed press-management information in support of continuous improvement initiatives.

At QuadTech, we're leveraging the knowledge we've gained from our printing heritage and our unmatched resources to develop innovative solutions for the challenges you face every day.

For details, give us a call today.

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Specifications

Performance:

Measurement resolution	0.01 mm
Maximum operating speed	20 m/sec (3937 ft/min)
Cylinder speed range	12-1440 revolutions per minute
Cylinder size range	200 - 2200 mm circumference
Maximum number of controlled units	40
Maximum number of motors	80

System Requirements:

Voltage	110V/220V +/- 10%
Power consumption	2 kVA
Frequency	50 or 60 Hz
Phase	Single Phase

Process Technologies:

Scanner sensor type	Custom array
Registration mark type	Mini Marks Ahead

Environment:

Temperature range	5° C - 50° C (41° F - 122° F)
Maximum humidity	90% Relative Humidity

Interface Capability:

	Siemens
	ModBus - Tilt and Fit
	Pacific Scientific

User Interface:

Type	Universal Touch Screen/Keypad
Maximum number of operator control stations	1 or 2 Independent Deliveries
Operating System	Microsoft Windows®
Communication means	Ethernet

Certifications:

	Meets CE Standards
	ATEX Approved
	Factory Mutual Certified

Options:

Software	Length Register Roller Pre-Positioning
Hardware	Motorized Bars
	Multiple Encoders

Specifications subject to change without notice.