

Alygn**AXIS**

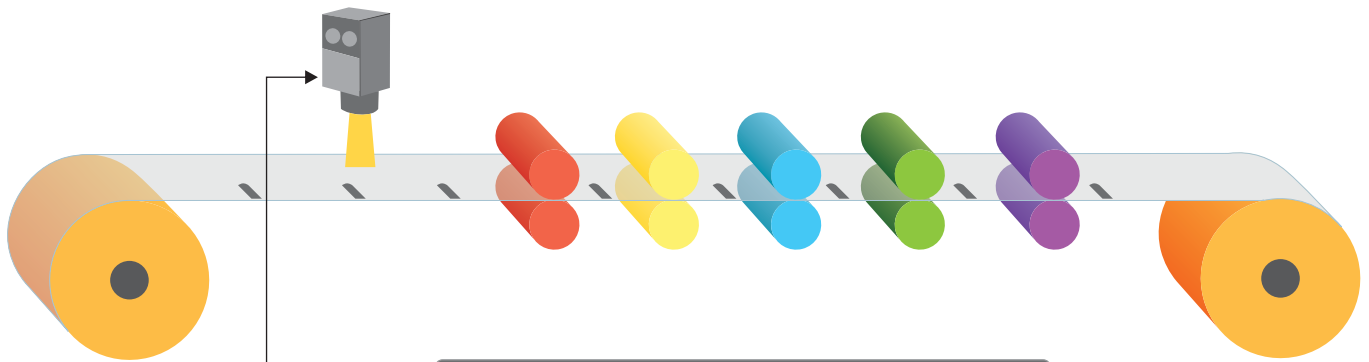
Automatic register control



Fiber optic sensor based sensing and register control for

- Rotogravure printing
- In-line flexo

Setting standards in register control systems



The new generation AlygnAXIS is designed to ensure reliability and accuracy and provide the fastest correction signals (output) among register control systems available in the world. The 'real time' hardware and software ensure consistent performance, accurate measurement and excellent control - enabling printers to set a new benchmark in print quality.

The AlygnAXIS, packed with many novel features, comes with an impressive Graphic User Interface (GUI), which is very user friendly. It has a reduced hardware set which results in longer mean time between failures (MTBF) and additionally our fiber optic sensors are ATEX certified. The system has remote diagnostics, enabling dial-in support to ensure optimum performance.

The new generation AlygnAXIS is an improvement over its highly successful predecessor, the Alygn register control system. Over 500 Alygn register control systems are already in the field, supplied to leading OEMs and end users in India, Europe, China, Middle east and Africa.

Designed for higher productivity, maximum operation flexibility and reduced waste

Reduced start up waste

- Presetting of register compensator roller OR presetting cylinders in case of ELS machines
- Absolute encoder preset

Continuously shows real time register behavior

- Online chart recording

Versatile and adaptable to specific job needs

- Site adjustable option for setting key colour or previous colour as master colour. In key colour setting, the initial adjustment is with the previous colour and at pre-decided speed, the system changes over to key colour.

Minimum wastage and quick 'back to register'

- Adaptive control behavior during dynamic press conditions like splicing and ramp-up

Saves time for repeat jobs

- Provision to save and recall all settings of printed jobs

Possibility to measure and correct differences in print position across width (skew and shrinkage)

- Set points can be adjusted automatically with the matrix camera

Possible to interface with software using OPC-UA protocol to extract and analyse 'real time' production information

- Industry 4.0 compliant software

Easy to operate

- Interactive user interface

Online operation support

- Online diagnostics






Fibre Optic Sensor



Camera Sensor

Hardware	High performance PLC and I/Os with touch screen	High performance PLC and I/Os with touch screen
Software	Multi-lingual user interface	Multi-lingual user interface
Measurement	Single and double channel configurations	High-speed matrix camera with LED flash
Measurement Accuracy	+/- 0.001 mm	+/- 0.005 mm
Certification	ATEX certified sensor:  II 2(G) [Ex op is T4 Gb] IIC. Safe to use when printing with solvent based inks	Possibility to measure various register dot marks configurations and other register patterns
Low contrast mark detection	White light LED in combination with automatic amplification ensures detection of low contrast marks on various printing materials Suitable for use with various register marks like triangles, double triangles, and register marks	Very low contrast marks like transparent varnish and lacquer marks can be measured Automatic code mark search
Quick job set-up	Automatic register mark search and code mark search	Automatic register mark search and code mark search for quicker job set-up