AlygnAXIS

Real Time Responsive Register Control

Fiber optic sensor and matrix camera based sensing and control for

- **Rotogravure Printing**
- **Central Impression Flexo**
- **In-line Flexo**
- **Offset Printing**

Setting standards in register control systems

AlygnAXIS

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 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 150 Alygn register control systems are already in the field, supplied to leading OEMs and end users in India, Europe, and China.

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 presetting**

Continuously shows real time register behavior

- **Online chart recording**

Versatile and adaptable to specific job needs

- **Use key colour OR previous colour measurement mode with automatic changeover between the two**

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**

Machine and production efficiency monitoring; easy traceability of printed jobs

- **Provision to generate reports on jobs printed – quality, quantity with date**

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: Ⓔx 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 rectangle marks	Very low contrast marks like transparent varnish and lacquer marks can be measured Automatic register mark search and code mark search for quicker job set-up
Quick job set-up	Automatic register mark search and code mark search	Automatic code mark search

To supplement online diagnostics and operation support, A.T.E. has a team of well trained service engineers to ensure optimum performance of the equipment.

With deep domain knowledge built over three decades in the print and packaging field, A.T.E. is reckoned as a reliable source for quality products to quality manufacturers.

A.T.E. is the first and the only company in India to develop automatic colour register control systems for printing machines. About 150 Alygn register control systems are successfully operating all over the world. A.T.E. also has the capabilities to develop customised solutions for very demanding and complicated applications using measurement and control technologies. A few of such customised systems have already been supplied to Europe, which is a testimony to A.T.E.'s expertise in the field.

A.T.E.'s dedicated team of experts are continuously focused on learning, leading to ongoing upgradation of algorithms and the software, which are systematically transferred to our installed base.

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V4, Oct 2019