

Case Study



Printflex finds
value for money in
AlygnAXIS
register controls

INDUSTRY

Print and Packaging

Background

Printflex Laminators LLP is a fast growing flexible packaging company. Based in Kanpur, they have specialised in supplying to the food products and other fast-moving consumer goods sectors. Their greenfield converting project was set-up about 5 years back by Mr Mukesh Awasthi and Mr Brijesh Awasthi who have a combined experience of more than 40 years in the print and packaging sector.

Printflex has a high quality Pelican press, which is their primary producer of rotogravure printed substrates. Other machines at Printflex include laminating, slitting, doctoring, inspection, and pouching.

The Pelican 8 colour rotogravure printing press is a well-engineered machine with the latest in drive and control technology, which ensures consistent printing under steady state conditions. However, during dynamic conditions such as acceleration, deceleration, or roll changeover, each substrate – be it film, paper, or foil – has unique quirks. This results in a shift in register on some or all colour stations, leading to quality issues and wastage.

Automatic colour register control system is, therefore, an essential equipment on all rotogravure presses to avoid quality issues and consequent wastages, and it allows the operator to focus on other critical areas during the print run.

Choice of register controller

Along with the Pelican press, Printflex zeroed in on AlygnAXIS register control system manufactured by AxisValence, a business unit of A.T.E., which is well accepted for quality and reliability.

About the AlygnAXIS register controller

Fibre optic sensors accurately measure the registration mark of every colour in relation to the key or master colour. The special algorithms compare the position of every colour in relation to the key or master colour and proactively give appropriate correction commands. **This ensures that the registration is spot-on during the entire print run, including in the acceleration, deceleration, and splicing phases.** Thus, the wastage is minimal and the throughput exceeds expectations. Pre-register setting is an added option which makes the job start-up easy for the operator.

The AlygnAXIS system broadly comprises a user-friendly GUI, industrial computer, appropriate colour mark sensors, and machine encoder which all digitally communicate with each other in ensuring that the register control system is an ideal foil to the Pelican press. The automatic mark recognition, pre-setting, online chart recording, mode selection of previous or key colour and other features make the operation of the complex printing process simple and user-friendly.

Testimony from the Printflex partners



Mr Brijesh Awasthi
and Mr Mukesh Awasthi

“We are very happy with A.T.E.'s AlygnAXIS. We have no register-out issues and hence it is value-for-money. With reduced wastage and increased productivity, it has been a profitable investment for us. The pre and post-sales support from A.T.E. has been timely and technically optimal”