

The Purge Tray

The purge tray motorisation is controlled by the purge clutch (Y21). The purge tray has two sensors :

- The paper present sensor
- The tray path sensor

The Purge Clutch (Y21)

The purge clutch controls the motorisation of the sheets on the purge tray path.

The Paper Present Sensor (B27)

The paper present sensor is used for status reporting. When the purge tray is used for jam diversion, it is useful to be able to report to the FFIU the fact that paper is present and should be removed and thrown away.

The Registration/Offset Generation Module

The registration/offset generation module consists of the following:

- The registration clutch (Y92)
- The table movement motor (M32)
- The table movement home sensor (B35)
- The table exit sensor (B36)

The registration/offset generation module registers the sheet to a registration edge using a patented system of toroidal belts and fan suction. The module can assume different positions depending on the actual registration positions of the sheets⁽⁴⁾ , and the desired offset to be generated.

⁽⁴⁾ These positions are paper-size dependent as per IOT specs.

The Registration Clutch (Y92)

The registration clutch controls the motorisation to the registration and output area.

The Table Movement Motor (M32)

The table movement is a stepper motor. It creates the sideways movement of the table through a multiple-entry screw, with backlash control.

The table movement motor is capable of an accuracy and repeatability of 0.1 mm.

The table movement motor operates in 150 ms and is capable of creating an offset during the inter-sheet gap without the need for skipped pitches.

The table position is under control of the FFIU.

The Table Movement Home Sensor (B35)

This sensor is used to position the table at home position during setup.

The Table Exit Sensor (B36)

This paper path sensor is used for jam detection and timely side-wise movement.

The Output Diverter and Bypass Exit

The output diverted consists of :

- The output diverter solenoid (Y37) and
- the bypass exit sensor (B42)

The Output Diverter Solenoid (Y37)

The output diverter is operated by a solenoid (Y37). The output diverter directs the sheet to stacking module or to bypass exit.