

# Drum Drives - Xerographics

## Drum Drive Overview

Four Drum Drive Motors (stepper motors) receive input from the IOT PWB through the Drum Drive PWB and provide mechanical drive for the four drum assemblies. As the motors start to run, the connecting gears provide drive to the drum drive shafts. An Encoder assembly mounted to the Drum Drive Shaft monitors the velocity of the shaft for correct speed. Sensors in the Encoder Assembly monitor the drum velocity and provide the information to the machine run control. If machine run control detects a drum velocity problem it will disable paper feed and indicate a timing fault problem, shutting down the machine.

**Drum Drive Encoders**  
provides a feedback  
signal to ensure drum is  
operating at the correct  
speed

**Drum Drive  
Motors**

**Drum Drive PWB**

Drum Drive Motors (rear view of machine)

