

Subject: Application Overview	Product: F7 and G7 Drives	Doc#: AO.AFD.62
Title: Extrusion		

Application Details:

The extruder main drive motor supplies power to the extruder screw providing the force necessary to push the raw material through the die.

Yaskawa AC drives are digitally controlled drives, designed to develop high torque at low speeds. Since the extruders are often started with the barrels full of dense material; such as plastic, they need to quickly develop a large amount of torque to overcome the inertia.

The precise control of speed offered by the Yaskawa AC drives allows the operator of the extrusion machine to repeatedly produce product that are within design tolerances. This reduces cost and waste and saves precious resources.

Other benefits of the Yaskawa AC drives include built-in application expertise. If the operator accidentally enters a value outside of the upper or lower speed limits, the Yaskawa drive continues to keep the speed within limits. Acceleration and deceleration controls allow the operator to easily change from hard to soft mixtures.

Other features are designed to protect the equipment. Overtorque and Undertorque controls protect the motor from overload if the mixture's consistency changes. The drive will automatically restart following a momentary power loss or fault.

