

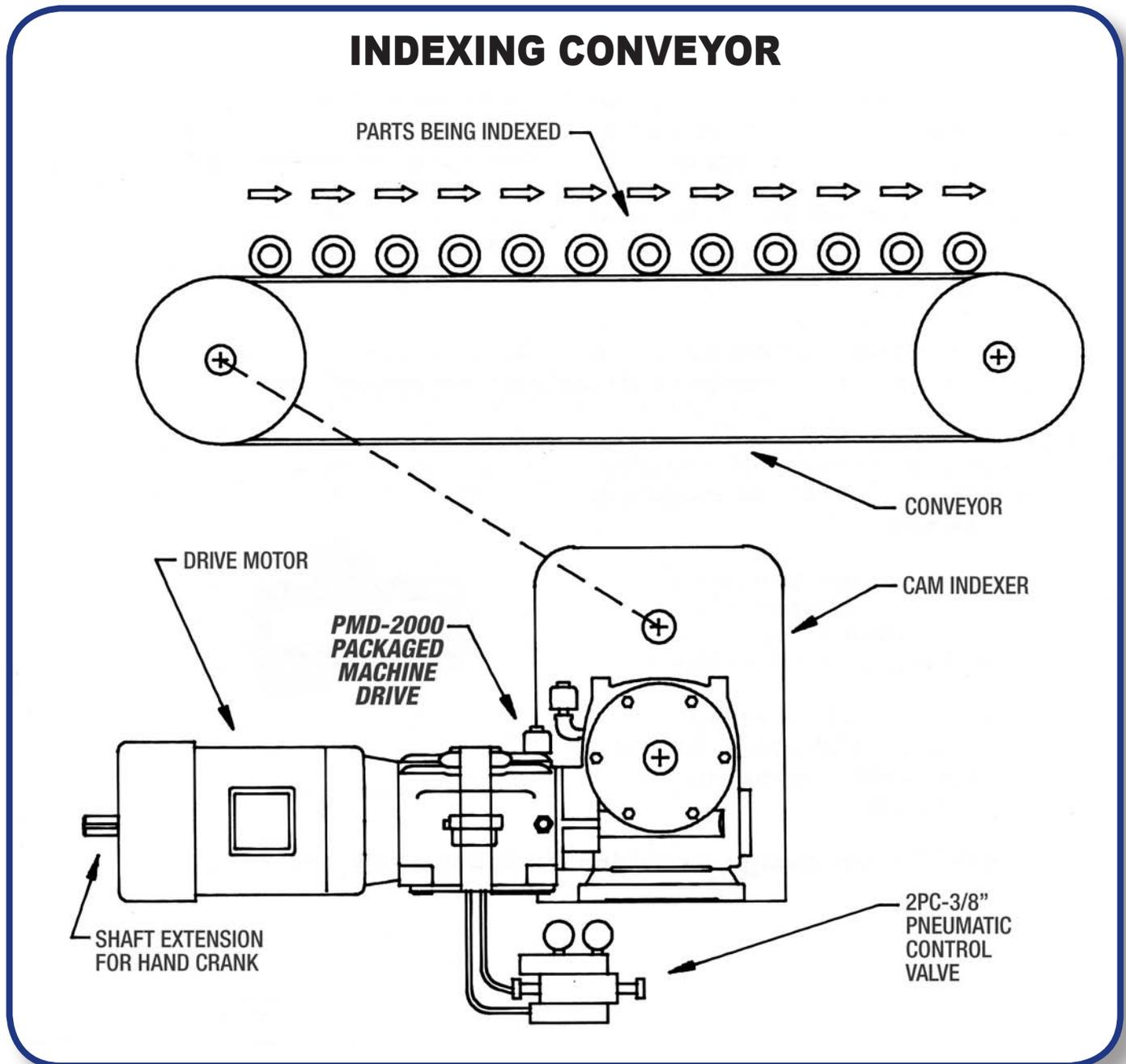
# APPLICATION BULLETIN



**APPLICATION:** Indexing Conveyor

**INDUSTRY:** Appliance Manufacturing

**PRODUCT:** PMD-2000 (Packaged Machine Drive)



## INDEXING CONVEYOR

**WHERE THEY ARE USED:** Where extremely accurate index positioning is required with cycle on demand or an extended dwell time.

**HOW THEY WORK:** The cam indexer will index the conveyor in 12 inch increments plus or minus .005 of an inch which is non-accumulative. The **PMD- 2000** is used to stop the cam at the end of each cycle, while allowing the motor to run continuously. This in a sense, extends the dwell time allowing work to be done to the part.

**PROBLEMS SOLVED:** The **PMD-2000** is an integral Clutch/Brake and Reducer, which allows the motor to run continuously reducing stress and strain on the electrical system and saving energy. The highly repeatable braking characteristic of the **PMD-2000** will continuously stop in the dwell reducing the chance of starting the high loads associated with out of dwell conditions. The brake is also capable of handling the high inertia loads during a panic stop, which may occur out of dwell. By adjusting the actuation pressure, the running torque can be controlled to slip if an overload condition occurs. The coupling and shaft damage between the Clutch/Brake and Reducer is reduced by the integral keyless coupling built into the **PMD-2000**.

### IMPORTANT FEATURES:

- Integral Clutch/Brake and Reducer for a compact drive and simplified mounting.
- Keyless connection between the Clutch/Brake and Reducer reduces shaft or coupling damage.
- Actuation pressure can be adjusted for controlled torque on the clutch and brake.
- Advanced friction materials produce highly repeatable stopping and starting.
- **Oil Shear** design provides high capacity and long service life.



### **FORCE CONTROL INDUSTRIES, INC.**

3660 Dixie Highway Fairfield, Ohio 45014

Phone: 513-868-0900 Fax: 513-868-2105

E-Mail: [info@forcecontrol.com](mailto:info@forcecontrol.com) Web: [www.forcecontrol.com](http://www.forcecontrol.com)