

# Acetal 1 Air Motors

## FOOD PACKAGING MACHINES

### PROBLEM

A food packaging equipment manufacturer needed a reliable washdown-duty air motor solution for one of its small packaging machines.

### SOLUTION

Small, yet powerful Huco Dynatork air motors were chosen to meet the application requirements. These compact air motors are capable of precisely starting and stopping a roll of printed plastic bags used to package a wide variety of meat, poultry and cheese products. Offering high torque at variable low speeds, Dynatork air motors consume up to 80% less air than vane motors, providing significant cost savings even at maximum torque.

Supplied with an acetal housing for the washdown environment in this food processing application, the units are also available in aluminum as standard or cast iron for harsh environments. The motors excel in constant start-stop applications under load, displaying characteristics similar to stepper motors.

By comparison, an electric motor will often burn out and a vane motor will stall out when subjected to these conditions. The operating principle is simple. Via an integral rotary valve, air up to 100 psi is supplied to each of three pistons. The free floating pistons transmit torque on start-up that can be adjusted via a pressure regulator.



### HIGHLIGHTS

- Super elastic flexible rubber element of 55° shore "A" hardness
- Nominal torque capacity: 2,390 in.lbs. (6,549 in.lbs.)
- 5,000 RPM max. speed
- Nominal angular displacement: 2-3° (4-6° max.)

### Regal Rexnord

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