



# DAVIS-STANDARD®

Where your ideas take shape.



## EXTRUSION TECHNICAL SERVICES

## ETS AC Conversion Pack

### Overview

When it comes to operational efficiency, AC drives and motors offer significant advantages in terms of power savings, ease of maintenance, and long-term reliability. Davis-Standard's DC to AC conversion packages are priced to provide a timely return on investment, while improving machine performance. These packages are available for all extruder brands. Find out how our ETS AC Conversion Pack can improve your machinery operation.

### Available in 20 hp to 500 hp packages

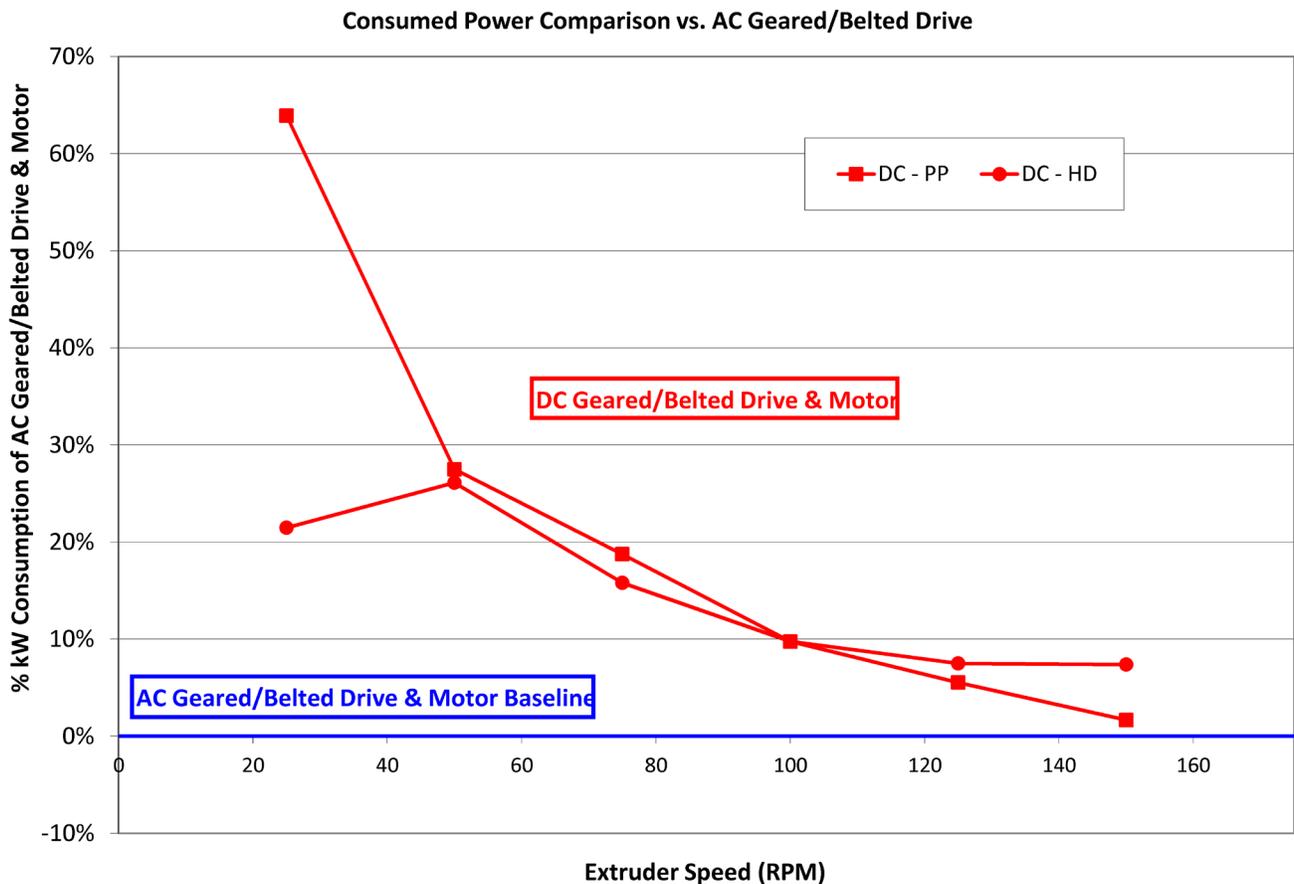


### Features

- Smaller, lighter and less expensive than DC motors
- Energy efficient design
- Conventional, low-cost, three-phase AC induction technology
- Minimal maintenance and improved accessibility
- Better suited for high speed operations (over 2500 rpm)
- Motor enclosures available for unique operating environments (wet, corrosive, explosive)
- Greater durability for varied application loads for prolonged periods
- Return on investment in two to three years in energy savings alone\*

\*Some states and power companies offer immediate investment returns.

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## DC ENERGY CONSUMPTION vs EXTRUDER SPEED

### NORMALIZED vs AC DRIVE SYSTEM

In operating range, a 100 RPM, DC system consumes 5 to 15% MORE power than an AC system.

This chart details the results of AC and DC motor trials in our Davis-Standard technical center. Trials were run on a 2 1/2-inch (64 mm) 30:1 smooth bore extruder.

The DC and AC motors and drives were installed on the 2 1/2-inch machine. The same extrusion screw timing was used to run HDPE 0.3 MI and PP 20 MFR materials. A fluke power analyzer was used to record and capture the power data.