

Doing it right; the first time;
on time; every time.

Torque Transmission, Fairport Harbor, OH – April, 2005

The Challenge

To have a strong edge over their competition, **Progressive Machine** required very high resolution with constant repeatability, increased productivity, and keep costs down. To lower inertia was a prime requirement and improve control.

The **Blue Falcon** garment screen-printing machine can mass-produce one garment (T-shirt) every 4.3 seconds. The garment design can have up to 20 colors, all applied with a high resolution of .005".

The Solution

Torque Transmission's recommendation is the use of 5 and 8 mm HTD nylon timing pulleys. The result is lower inertia of the drive which results in:

- Increase speed of process
- Shorter acceleration and deceleration
- Less stress on the servo motors
- Greater control that translates into higher color resolution

HTD belt pitch will transmit high torque with high repeatability. The recommendation resulted in a simple design that provides many hours of maintenance free operation at a very economical cost.

The Value to the Customer

- One Source for complete timing pulley drive for the Blue Falcon
- Economical Customization and modification of pulleys to meet Progressive's design criteria.
- Lower inertia of drive means increased productivity and reduced stress on servo motors and other drive components
- The result being faster cycle time with high printing resolution.
- Even though some pulley requirements are non standard, once designed and properly tooled by Torque Transmission ease of reorder and meeting JIT production schedules is done.

For more information call Helen Stauffer at 1-800-544-6642 or e-mail her at Hstauffer@TorqueTrans.com, or visit us at www.TorqueTrans.com.



"Torque Transmission was chosen after evaluation of performance in customer service, quality and cost effectiveness."

**Tim Dunham
Progressive Machine Director
of Sales**