



Hollow Shaft Torque Control and Monitoring

Torque Functional Test Hollow Shaft (TFT-HS)

The Torque Functional Test system (TFT) is a complete systems solution manufactured by Promess Incorporated for use by both builder and end user. The newest addition to our torque family is the Hollow Shaft series. The Hollow Shaft TFT (**TFT-HS**) series includes sizes ranging from 20 Nm to 300 Nm.

The **TFT-HS** is different than the standard TFT configuration, in that the center of the torque unit is open or hollow. This allows for access to the center of the part that is being tested. This is useful when you need to measure or manipulate the center of the part or work piece during its testing cycle.

The Promess system consists of two main components, the Torque Module and the PRO Motion Controller (PRO-MC). The Torque Module consists of a servo motor, encoder and torque transducer. Torque can be measured in both the clockwise and counter clockwise directions. An angular encoder provides angular position feedback.

The PRO-MC is a single axis controller and monitoring system all in one package. Additional inputs are available for feedback from external analog or digital sensors. The Controller has multiple discrete I/O capability as well as multiple Fieldbus options.

The Hollow Shaft Torque units are intended for intelligent assembly and test applications.



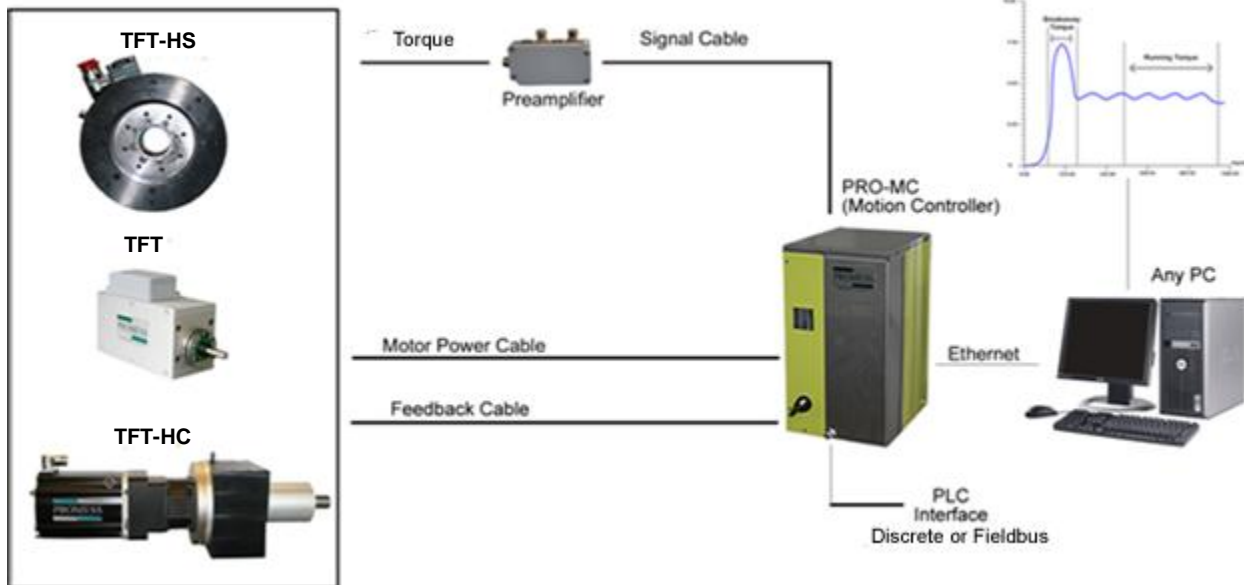
APPLICATIONS:

- Bearing preload testing
- Gear lash adjustment
- Efficiency testing
- Pinion preload setting
- Valve lifter adjustment
- Jam nut assembly

FEATURES:

- Easy Programming
- Flexibility
- Turn to Torque
- Turn to Angle /Position
- Gauging of an external transducer
- Signature Monitoring
- Data Acquisition
- Network Multiple Systems
- Multiple Part Programs

Promess Servo Driven Torque Control and Monitoring System Overview



TFT-HS Standard Sizes

Model Number (Nm)/(RPM)	Torque Capacity Nm / inch lbs.	Max Speed RPM
TFT-HS-20/800	20 Nm / 177 inch lbs.	800 RPM
TFT-HS-50/500	50 Nm / 442 inch lbs.	500 RPM
TFT-HS-100/200	100 Nm / 885 inch lbs.	200 RPM
TFT-HS-150/250	150 Nm / 1327 inch lbs.	250 RPM
TFT-HS-300/100	300 Nm / 2655 inch lbs.	100 RPM

*Other sizes and speeds available upon request.