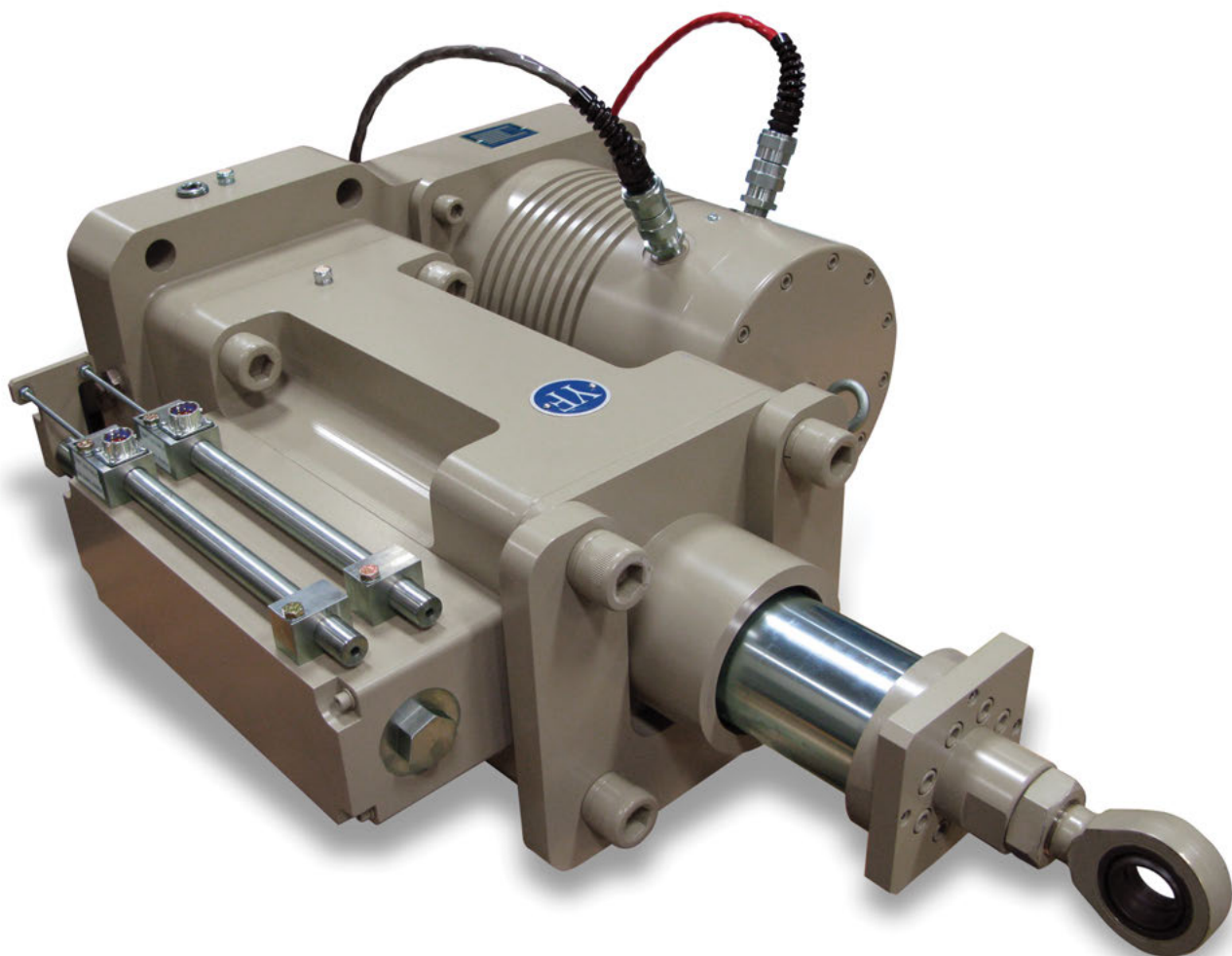


8650 Series Electric Nozzle Guide Vane Actuator



The Young & Franklin 8650 Series Electric Nozzle Guide Vane Actuator (ENGV) is an electromechanical actuator (EMA) for positioning the nozzle guide vanes (NGV) of a turbine output section. The actuator is available with forces up to 22,500 lbf. and various stroke lengths.

The 8650 Series ENGV features a sealed gear-train lubrication system, is self-contained and requires minimal maintenance. The entire assembly has been tested to over 20 years at temperature and load.

8650 Series Electric Nozzle Guide Vane Actuator Specifications:

Peak Force	Up to 22,500 lbf. (100 kN)
Total Stroke	Up to 7.008 in (178 mm)
Slew Rate	Up to 0.4 in/s (10 mm/s)
Fail-Safe Mode	Fail-in-Place with Failsafe Electric Brake
Mounting Type	Bolted
Operating Temperature Range	-40° to +266°F (-40° to +130°C)
Command	4-20 mA Position, -8 to +8 mA Triple Redundant Velocity
Ingress Protection	Available in IP54 and IP65
Mean Time Between Service	96,000 Hours
Maintenance Interval	8 years (Gear-train oil change only)
LVDT Wiring	6.56 ft (2 m) Flying Lead or MIL Connector
Motor Wiring	32.8 ft (10 m) Jacketed Cable
Service Life	20 Years
Environmental	MIL-STD-810 - Shock and Vibration
Certifications	Class 1 Div 2, Group B, C & D, T3 Ex db ib IIB+H2 T3 Gb