

Engine Start Equipment



**For Proven
Starting Power**


Hilliard

Electric Start System



- High density permanent magnet motor and VFD
- 150 and 300 HP gear box mountable models available
- Input power 380 to 480 V 3-phase AC 50-60 Hz
- Motor speed range 0-5000 RPM
- Oil-cooled motor
- Commercial power electronics
- Small unit envelope and weight ratio
- Includes a Hilliard overrunning clutch



Gear Drive/Speed Increaser



- Straight or right angle
- Precision-cut gears for high efficiency
- Large and small ratios available
- Output speeds up to 8,500 RPM
- Integrated high-speed overrunning clutch available
- Spur gear and bevel gear designs
- Synthetic or mineral oil cooling lubricant
- Apply to electric and hydraulic motors

Hydraulic Starter Assembly

- Variable and fixed displacement types
- SAE mounting, spline shafts
- Typical operating pressures up to 5000 psig (350 bar)
- High-speed operation
- High starting torque efficiency
- Different sizes for different applications
- Suitable for open and closed loop circuits
- Supply includes overrunning clutch



24-VDC Electric Starter



- 24 volt DC power
- Solenoid actuated Positork drive
- Output torque up to 80 ft lb
- Splined output for gas turbine applications
- SAE 3 mounting flange, multi-position
- CW and CCW direction of rotation

Hydraulic Starter Drive

- High-speed overrunning clutch contained in housing
- Operating speeds up to 16,000 RPM
- Torque sizes available: 925 ft lb (1255 Nm), 650 ft lb (881 Nm), 275 ft lb (373 Nm), 75 ft lb (101 Nm)
- Lubrication path isolated from hydraulic motor and engine
- Integrated oil supply and drain connections
- Automatic disengagement
- Oil cooled with .25 gpm



Pneumatic Starter



- Operates on any pressurized gas (0-220 psig)
- Break-away torques up to 3,700 ft lb
- Output speeds up to 12,000 RPM
- For industrial gas turbine or reciprocating engines
- Standard and custom interfaces available
- Helical rotor design
- Positive displacement
- Roller-ramp overrunning clutch to pre-engage the starter to the turbine
- Dynamically balanced, gas tight
- Delivers rated torque at 0 RPM

Other Starter System Products

AC Start System

Stored Air Start System

Air Motor

Continuous-Duty Air Motor

Motion Control and Filtration Solutions

Since The Hilliard Corporation was established in 1905, it has been a reliable source of quality industrial products such as:



Duplex Filter



Filter Vessels



Portable Filter Cart



Overrunning Clutch



Enclosed Overrunning Clutch



Dry Seal Gas Block & Bleed Filter



Turning Gear



Gas Filter



Vent Mist Eliminator



HILCO Cartridges

The Hilliard Corporation reserves the right to change specifications and dimensions at any time. Please contact the factory for the most current information.

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