

RING GEAR STARTER UPGRADE

COOPER-BESSEMER™ GMV & GMW TWO-STROKE ENGINES

Overview

Component wear in older, complex air-to-head starting system components can result in high maintenance and low starting reliability. Some engines, depending on configuration, are prone to “dead” spots where the torque capability of the air-to-head system is not sufficient to achieve breakaway for engine rolling. In these cases, the engine must be manually barred over to a spot requiring less torque to initiate breakaway. Further, pressurized cylinders add to the breakaway torque requirement. In cases where the existing system does not produce sufficient torque it may be necessary to vent gas to atmosphere in order to initiate cranking.

Solution

Cooper offers turnkey upgrades to pneumatic starting motor systems where a ring gear is installed on the engine flywheel and engaged by a pinion gear on the starting motor shaft to initiate engine roll over. Depending on torque requirements of the specific application up to four (4) pneumatic motors can be installed.

Advantages

- › Requires significantly lower supply air pressure to operate – 100/150 psi versus 250 psi
- › Lower volume requirements – depending on specific application may require as much as 15% less air volume per start
- › Readily available – pneumatic starters not unique per engine make/model as they are used across many engine manufacturers and industries
- › Low maintenance – besides the long life starters themselves, really no other system items require maintenance
- › UX starters available – when starter maintenance is required, this option makes keeping a spare and making the change fast and easy
- › Barring motor option – with the ring gear in place, a small precision barring motor can be easily added and shared between multiple engines

What is included

- › Ring gear for flywheel
- › Starter motor mounting brackets
- › Starter motor(s) with inlet and outlet supply piping
- › Complete installation by Cooper service personnel

LEGENDS DON'T STOP. WE MAKE SURE OF IT.™

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