BLACKMER COMPRESSOR
FLYWHEEL BALANCE PROCEDURES

Each Blackmer compressor flywheel is balanced according to the following procedure.
Flywheels are all single plane balanced to a G26 rating based upon Diameter, and weight, with a maximum speed rating of 6,500 ft. per minute (1,981 meters per minute).

All Sheaves “Flywheels” in the US must meet a minimum of G32 rating which is established by the MPTA (Manufacturers Power Transmission Association). Blackmer “Flywheels” are balanced better than the MPTA standards. The lower the “G” number (i.e. 32, 26, etc.) the more accurately the flywheel is balanced.

Each Flywheel that Blackmer uses will have one of the following physical indications of meeting the balance standard:

1. Drill balance holes on the outer rim of the flywheel
2. A welded weight attachment to the inside of the outer rim.
3. A letter “B” stamped in the outer rim of the flywheel.

Not all flywheels will have welded weights or drill marks on them. This does not indicate that the “Flywheel” is improperly balanced. The only indication of balance may be the letter “B” stamped on the rim as noted above.

Additional information related to proper Flywheel rotation and Balance:

Radial O.D. Runout .016 inches (.406 mm) Total Indicator Reading
Axial Rim Runout .021 inches (.533 mm)
(Note: Axial Runout can be affected by improper torque of the bolts that attach the flywheel to the hub. Torque specifications as noted in the Blackmer IOM manuals should be followed.