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A Division of General Sullivan Group, Inc.

**Black &
Decker**

APPLICATION

**Bearing Mount in
Spur Gear Housing of
HD 500 Circular Saw**

USA

CASE STUDY

PROBLEM



Old design, requiring pressfit of the bearing into a machined magnesium housing, encountered durability concerns due to axial bearing movement at high temperature and vibration condition.

SOLUTION



Using a USA Tolerance Ring to mount ball bearing into an as-cast magnesium alloy housing, retained bearing during thermal, stall and static conditions.

BENEFITS

Bearing retention under all manufacturing tolerances/
operating temperatures/vibration conditions.

STATUS

Production 1994.

11/00CSPT3

www.usatolerancerings.com

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