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Runout Tolerances on No-Twist Mill Bevel Gears

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MORGAN CONSTRUCTION CO.
ROLLING MILL DEPT. MEMORANDUM

TO: As Noted  DATE: 7 June 1967
FROM: M. Knott & R. Wykes

SUBJECT: RUNOUT TOLERANCES ON NO-TWIST MILL BEVEL GEARS

Because of Indiana Gear Works' difficulty in meeting our present runout tolerances on the larger sizes of bevel gear, we have been asked to consider relaxing these tolerances. After due consideration, we believe that the following drawing changes are justified:

(a) Driven Bevels on 8" Housings and First Two 6" Stands

Increase radial runout tolerance to .001". Change axial runout tolerance to .001" and instruct Indiana to mark high point and amount of runout on each gear.

(b) Driving Bevels on Last Four 6" Stands

Increase radial runout to .001" with a note instructing Indiana to mark high point of runout. The mating lineshaft drawing will also carry an additional note for the high point of runout on the bevel gear seat to be marked. Assembly instructions will call for these two high points to be diametrically opposed as far as bolt spacing will allow.

Axial runout - no change.

Ray Smola should mark up two sets of bevel gear prints with these revised tolerances. One set should be sent to Indiana, for Al Kornmann's attention, and one set retained. If Indiana approve our changes, then the drawings should be revised.