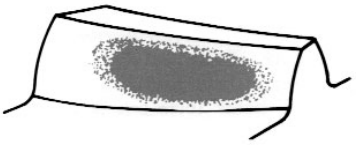
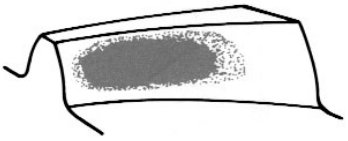
ARROW GEAR COMPANY

BEARING PATTERN



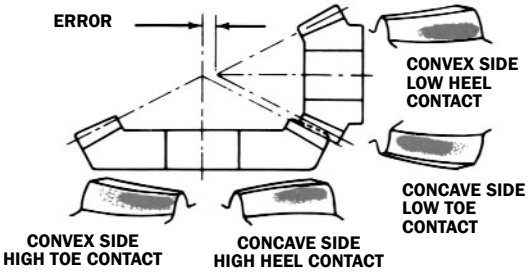
Desirable Bearing Pattern



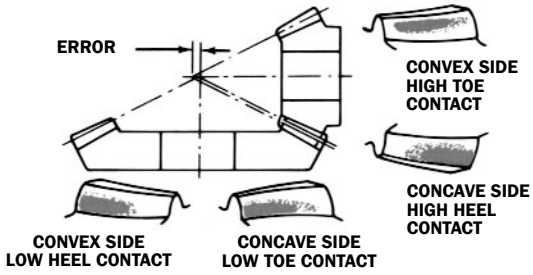
Using a suitable marking compound, check the bearing pattern. If the markings on the gear set have been followed, the pattern will conform to accepted standards.

Gears are cut with a contact pattern about half the length of the tooth, the location slightly favoring the toe end of the tooth. Under load the pattern will shift somewhat toward the heel of the tooth, and will thus become more central. Under no circumstances must the pattern be concentrated on the ends of the teeth.

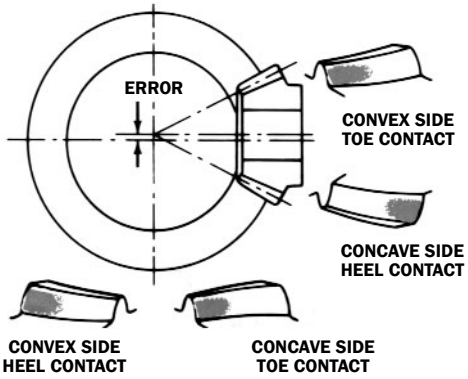
PROFILE ERROR
To correct: decrease mounting distance



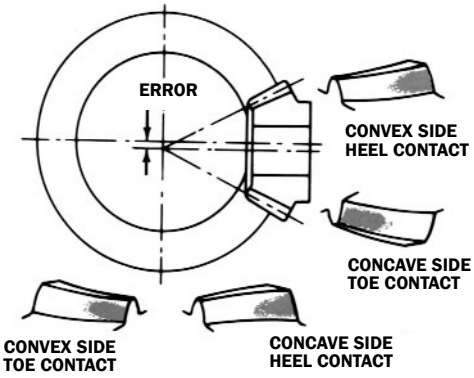
PROFILE ERROR
To correct: increase mounting distance



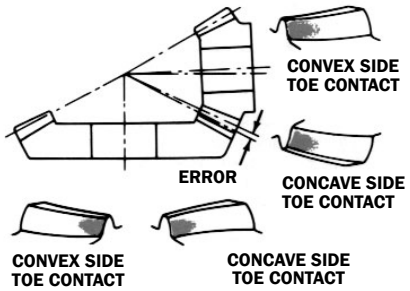
CROSS CONTACT
To correct: move pinion down



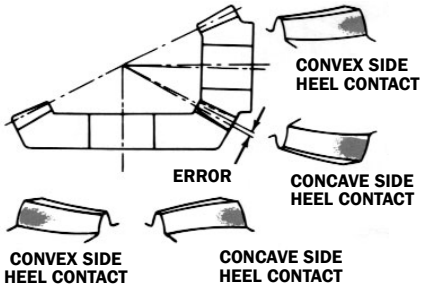
CROSS CONTACT
To correct: move pinion up



SHAFT ANGLE ERROR
To correct: decrease shaft angle



SHAFT ANGLE ERROR
To correct: increase shaft angle



(Note: Pinion member is left hand in all illustrations.)

All Illustrations: Courtesy of The Gleason Works.