

KES

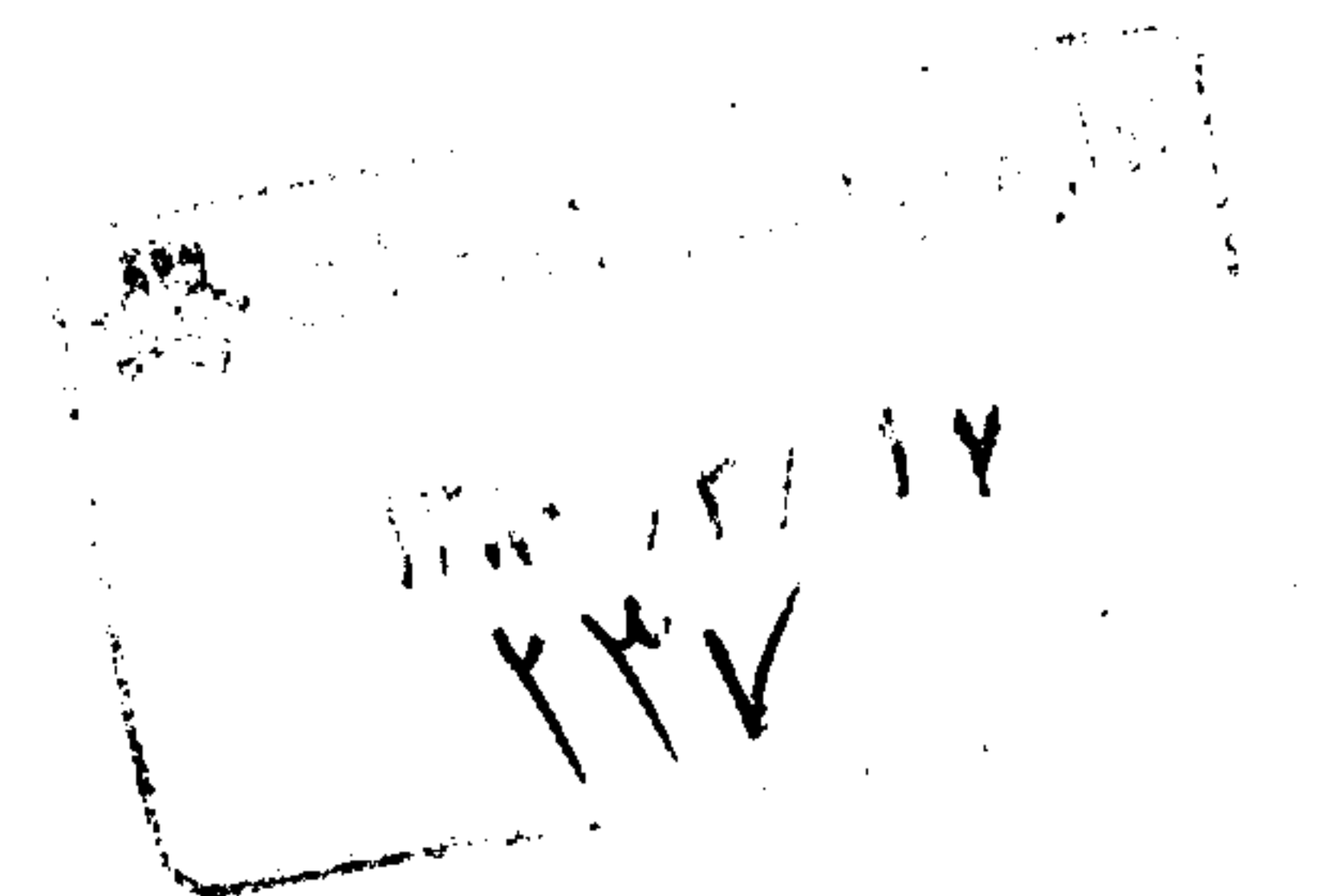
HOB

KES G – D501B

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1. Scope of application

This standard shall be applied to hob for involute spur gear that module is 1 ~ 4 and standard pressure angle is 20° and gear. (Called as 'HOB' below.)

2. Definition of terminology

2.1 Accuracy of flute

(1) Single index error

Difference between the actual pitch and the ideal pitch on nearby the inclined plane

(2) Accumulation index error

Difference between the actual pitch and the ideal pitch on the two inclined faces of random

(3) Centripetal rate

Difference between the straight line passing through the center of testing range (1) on the axial vertical cut end of the inclined plane.

Note (1) Testing range shall be the length of tooth inserting HOB theoretically.

(4) Lead error

Difference between the actual flute line corresponding the length of HOB on testing range (2) of pitch circle part and following flute

Note (2) Testing range shall be the range excepting the incomplete tooth of both side.

2.2 Accuracy of inclined face

(1) Single pitch error

Difference between the actual pitch of cutting blade on the nearby pitch line of the random flute and ideal pitch

(2) Three pitch error

Difference between the actual pitches of some continuous three pitch on the nearby pitch line of the random flute and ideal pitch

2.3 Accuracy

(1) Tooth shape of standard Rack

The tooth shape of standard Rack for HOB shall be figure 3. The tooth part of HOB shall be needed to design the modification part that needed.

(2) Error of tooth shape

Difference between the standard tooth shape and the actual tooth shape

(3) Error of tooth thickness

Difference between the standard thickness and the actual thickness

3. Grade

Grade shall be classified to 0, 1, 2, 3, 4 class according to accuracy.

4. Shape

