

KES

Calculation of Indentation Force of Bearing and Bush

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1. Scope of application

This standard of design shall be applied to yielding indentation force about indenting steel bearing and bush at hole of the cast iron used in the internal robust engine of the vehicle.

2. Purpose

This standard shall guarantee the reliance of the product by yielding indentation force necessary to indent steel bearing and bush at hole of cast iron frequently used in the internal robust engine of the vehicle.

3. Yielding Indentation force

(1) In the table below, the outer diameter(∞) of housing is infinity and the quality is cast iron(Fe).

(2) If the length of bush is ℓ , the indentation force is yielded by the below formula

$$\text{Indentation force } F = F_1 \times \ell \text{ (kg)}$$

where F_1 is the indentation force per unit mm.

