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GEAR STRENGTH AND GEAR DURABILITY

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PRODUCT
CATEGORY

The strength of gears are generally calculated by considering the bending strength and surface durability. In the case of using gears under severe conditions, the scoring resistance is also considered.

This section introduces the formulas for strength calculation, based on excerpts from JGMA (Japan Gear Manufacturers Association's Standards). For detailed information, please refer to the following JGMA Standards:

SPUR GEARS

HELICAL GEARS

INTERNAL GEARS

GEAR RACK

CP RACKS & PINIONS

MITER GEARS

BEVEL GEARS

SCREW GEARS

WORM GEAR

JGMA Standards

JGMA 401-01 : 1974 Bending Strength Formulas for

Spur Gears and Helical Gears

JGMA 402-01: 1975 Surface Durability Formulas for

Spur Gears and Helical Gears

JGMA 403-01: 1976 Bending Strength Formulas for

Bevel Gears

JGMA 404-01: 1977 Surface Durability Formulas for

Bevel Gears

JGMA 405-01 : 1978 The Strength Formulas for Worm Gears

Japan Gear Manufacturers Association

Kikai Shinko Kaikan Room No.208, 5-8, Shiba Koen 3-chome, Minato-ku, Tokyo Tel 03(3431)1871 or 1872

Related links:

Strength and Durability of Gears - A page of The ABC's of

Gears / Basic Guide - B

BEVEL GEARBOX

OTHER PRODUCTS

ADVANTAGES OF KHK STOCK GEARS



View this video to witness first hand KHK's strengths as a gear manufacturer.

KHK GEAR MANUFACTURING PROCESS



View this video to learn about KHK's advanced gear manufacturing process.

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