

Gear Cutting Hobs

Gear cutting hobs are designed for gear cutting, spline cutting, and thread milling operations. These tools come in a range of sizes and profiles, including cylindrical, tapered, and shank-mounted options.



Overview

High-Precision Gear Cutting Solutions

Our gear cutting hobs are engineered for demanding industrial machining applications, offering exceptional durability and precision. Available in various materials including HSS, Powder-Metal-Steels, and Carbide, these tools are designed to handle diverse cutting conditions from wet to hard materials. With extensive customization options for profiles and modules, our hobs deliver reliable performance for gear, spline, and sprocket manufacturing.

Technical Specifications

Dimensions

10 mm

Min Outside Diameter

500 mm

Max Outside Diameter

650 mm

Max Length

Quality Grades

AA • A

Material Options

HSS, Powder-Metal-Steels, Carbide

Coating

Oerlikon - Balzers

Module Range

m0.2 - m45

Design & Customization

Available Profile Modifications

- Chamfer
- Root fillet
- Tip relief
- Protuberance
- Topping
- Semi-topping

Keyway Options

- Longitudinal keyway
- Transverse keyway

Flank Profiles

ZK, ZI, ZN, ZC

Operational Capabilities

Compatible Conditions

Wet • Dry • Soft • Hard

Available Hob Types

Hob Category

Involute gear hobs

Pre-shaving / Pre-grinding / Pre-skiving / Pre-finishing hobs

Solid HSS / Solid Carbide hobs

Insert Blade hobs

Involute Spline / Serration hobs

Parallel side spline hobs

Roller chain sprocket hobs

Worm-gear hobs