

NOWARUN Gear Capability Datasheet

Gear cutting to customer drawing or reverse engineered from a worn sample. The DIN grade is agreed per order because grinding time follows from it.

Capability Summary

Module range	0.5 to 10 on spur, helical, bevel, worm and pulley gears
Gear ring module	1 to 8
Gear precision	DIN 3 to DIN 7 on spiral bevel, DIN 4 to DIN 10 on hobbed spur, worm, pulley and ring gears
Bevel gear systems	GLEASON and KLINGELNBERG
Cutting processes	Hobbing, shaving, shaping, milling, grinding
Materials	Carbon steel, alloy steel, stainless steel, bronze, brass, polymer, customer specified national standard grades
Heat treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface treatment	E-coating, plating, oiling, Geomet, Dacromet, Delta, brushing, polishing, laser engraving
Packing	PP bag, carton, crate, box or to customer specification

Spur Gears

Custom gears transmit torque and rotational motion across mechanical drives, and NOWARUN manufactures them to customer drawings from module 0.5 to module 10. Gears are produced to precision levels from DIN 5 to DIN 10 across carbon steel, alloy steel, stainless steel, and polymer grades. Cutting processes include hobbing, shaping, shaving, and grinding to match the target accuracy, followed by specified heat and surf

Module	0.5 to 10
Gear Precision	DIN 5 to DIN 10
Processes	Hobbing, shaving, grinding, shaping
Materials	Carbon steel, alloy steel, stainless steel, polymer, international standard grades
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface Treatment	E-coating, plating, oiling, Geomet, Dacromet, Delta, brushing, polishing, laser engraving
Packaging	PP bag, carton, crate, box or according to customer requirements
Origin	Hangzhou, Zhejiang, China

Spiral spur gear

Spiral spur gears provide smooth tooth engagement across parallel shafts, manufactured by NOWARUN strictly to your drawing rather than sold from off-the-shelf stock. Available in module sizes from 0.5 to 10, these gears are produced in carbon steel, alloy steel, stainless steel, or polymer to gear precision grades from DIN 5 to DIN 10. Tooth cutting processes include hobbing, shaping, shaving, and grinding to match t

Module	0.5 to 10
Gear Precision	DIN 5 to DIN 10
Processes	Hobbing, shaving, grinding, shaping
Material	Carbon steel, alloy steel, stainless steel, polymer, or customized types to international standards
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface Treatment	E-coating, plating, oiling, Geomet, Dacromet, Delta, brushing, polishing, laser engraving
Packaging	PP bag, carton, crate, box, or to customer requirement
Origin	Hangzhou, Zhejiang, China

Gear Ring

Gear rings transmit torque in planetary gearboxes, slewing assemblies, and machine drives, cut to your print rather than pulled from a standard catalogue. NOWARUN manufactures them from module 1 to module 8 in carbon steel, alloy steel, or polymer, holding gear precision from DIN 5 to DIN 10. Operations include hobbing, shaping, shaving, and grinding, combined with targeted heat treatments and surface coatings to mat

Module	1 to 8
Gear Precision	DIN 5 to DIN 10
Gear Type	Spur gear
Material	Carbon steel, alloy steel, polymer, or customized types from different national standards
Processes	Hobbing, shaving, grinding, shaping
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface Treatment	E-coating, plating, oiling, Geomet, Dacromet, Delta, brushing, polishing, laser engraving
Packaging	PP bag, carton, crate, box or according to customer requirements
Origin	Hangzhou, Zhejiang, China

Slewing Ring

Slewing ring spur gears provide rotational drive and torque transmission for rotating machinery, cut to your print rather than pulled from a standard catalogue. NOWARUN manufactures them across module 0.5 to module 10 using carbon steel, alloy steel, polymer, or foreign standard grades. Gear teeth are produced by hobbing, shaving, shaping, and grinding to achieve gear precision from DIN 5 to DIN 10, complete with spe

Module	0.5 to 10
Gear Precision	DIN 5 to DIN 10
Processes	Hobbing, shaving, grinding, shaping
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface Treatment	E-coating, plating, oiling, Geomet, Dacromet, Delta, brushing, polishing, laser engraving
Material	Carbon steel, alloy steel, polymer, customized foreign standards
Packaging	PP bag, carton, crate, box or according to customer requirements
Location	Hangzhou, Zhejiang, China

Spiral Bevel Gear

NOWARUN produces custom spiral bevel gears cut to the GLEASON or KLINGELNBERG system to match the exact driveline geometry of your machinery. Parts are manufactured to customer drawing across module 0.5 to 10 in carbon steel, alloy steel, or polymer. Achieving gear precision from DIN 3 to DIN 7, every set undergoes processes including milling, grinding, and application-specific heat treatment.

Module	0.5 to 10
Gear Precision	DIN 3 to DIN 7
Gear System	GLEASON and KLINGELNBERG
Processes	Milling and grinding
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Material	Carbon steel, alloy steel, polymer, or customized types to international standards
Packaging	PP bag, carton, crate, box or to customer requirement

Crown Gear

Crown gears are manufactured to customer drawings across module 0.5 to module 10 for angular driveline configurations. NOWARUN machines them from carbon steel, alloy steel, polymer, or foreign standard grades to precision levels between DIN 4 and DIN 10. Cutting methods include hobbing, shaping, shaving, and grinding, supported by in-house heat treatment and plating to match your equipment requirements.

Module	0.5 to 10
Gear Precision	DIN 4 to DIN 10
Processes	Hobbing, shaving, grinding, shaping
Heat Treatment	Carburizing, carbonitriding, QT, quenching, tempering, induction hardening
Surface Treatment	Various plating
Material	Carbon steel, alloy steel, polymer, customized foreign standard grades
Packaging	PP bag, carton, crate, box or according to customer requirements
Origin	Hangzhou, Zhejiang, China

Worm Gear

Worm gears provide smooth speed reduction and high ratio torque transmission across perpendicular non-intersecting shafts. NOWARUN manufactures custom worm gears from module 0.5 to module 10 in bronze, brass, copper, and custom alloy grades from different international standards. Teeth are cut using hobbing and grinding to achieve gear precision from DIN 5 to DIN 10 depending on design requirements. All components are

Module	0.5 to 10
Gear Precision	DIN 5 to DIN 10
Materials	Bronze, Brass, Copper, or other customized type from different standard
Processes	Hobbing, Grinding
Treatment	According to your drawing
Packaging	PP bag, Carton, Crate, box or according to customer's requirements
Origin	Hangzhou, Zhejiang, China

Pulley

NOWARUN manufactures custom toothed pulleys to customer drawings across carbon steel, alloy steel, stainless steel, polymer, and aluminium categories. Tooth profiles are produced through hobbing with precision ratings from DIN 5 to DIN 10, followed by assembly and heat or surface treatment as specified on your print. Parts are built as contract OEM components rather than sold off the shelf.

Gear Precision	DIN 5 to DIN 10
Teeth Type	Wide range of standard
Processes	Hobbing and assembly
Material	Carbon steel, alloy steel, stainless steel, polymer, and customized national standards
Category	Aluminium
Heat Treatment	Carburizing, nitriding, induction, quenching and tempering
Surface Treatment	Various plating
Packaging	PP bag, carton, crate, box or according to customer requirements
Manufacturing Type	OEM to customer drawing

MIM Gear

NOWARUN produces small module gears using metal injection moulding technology from stainless steel, iron-based steel, and various alloy-based steels. Manufactured strictly to customer drawings rather than sold from a catalogue, these MIM gears provide net-shape complex tooth geometry for applications across diverse industries. The process suits production where conventional gear cutting or multi-axis machining of int

Manufacturing Technology	Metal injection moulding (MIM)
Gear Type	Small module gear
Material Options	Stainless steel, iron-based steel, various alloy-based steel
Production Basis	Custom made to customer drawing
Packaging	PP bag, carton, crate, box or to customer requirement
Origin	Hangzhou, Zhejiang, China