



## GEAR SHAPER **CUTTER**

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## PRODUCTS

01

skiving cutter (hob cutter)(various module skiving cutter)

02

Small module( diametral pitch ) gear shaper cutter (small module ( diametral pitch ) involute and harmonic gear shaper cutter)

03

Skiving cemented carbide ( carbide alloy ) gear cutter (Medium and small module Skiving cemented carbide ( carbide alloy ) gear cutter)

04

Shaving cutter (Axial and radial gear shaving cutter)



05

Helical pinion gear shaper cutters (various moduleshelical pinion gear cutter)



06

Straight gear shaper cutter (virous modules straightgear shaper cutter for involute, sprocket, spline)



07

Carbide alloy gear cutting hob(Medium modulus carbide hob)



08

High speed dry cutting hob (medium modulus high speed dry cutting hob)

## PRODUCTS

| name                                   | machining modulus range |                      |         |                                                          |
|----------------------------------------|-------------------------|----------------------|---------|----------------------------------------------------------|
| Skiving/turning cutter                 | M0.25-M8                | HSS-PM               | DIN-AA  | Inner and outer gear ring                                |
| Skiving/turning cutter                 | M0.25-M5                | Cemented carbide     | DIN-AA  | Inner and outer teeth, tempering, gear ring              |
| Small module gear shaper cutter        | M0.1-M1.25              | Cemented carbide/HSS | DIN-AA  | Inner gear ring, step gear                               |
| gear shaving cutter (Axial and radial) | M0.8-M6                 | HSS-M2               | DIN-A   | Large number of external gears                           |
| helical gear-shaper cutter             | M0.3-M8                 | cemented carbide/HSS | DIN-AA  | Inner gear ring, step gear                               |
| Straight teeth gear-shaper cutter      | M1.5-M16                | Cemented carbide     | DIN-AAA | Inner gear ring, step gear                               |
| Small module hobbing cutter            | M0.15-M4.5              | cemented carbide/HSS | DIN-AA  | High precision shaft and disc type inner and outer gears |
| High speed dry hobbing cutter          | M0.8-M4                 | HSS-PM               | DIN-AA  | High speed gear hobbing machine                          |



skiving cutter (hob cutter)

(powder metallurgy steel)

mainly made with Powder metallurgy steel, our products are mainly used for reducer, harmonic reducer, auto gear, wind power gear ring, etc.  
The cutting tool type are mainly lever type and bowl type Gear



Carbide alloy skiving cutter

0.1~4.5

0.1~4.5 module Medium and small module skiving cemented carbide ( carbide alloy ) gear cutter  
The cutting tool type are mainly lever type and small bowl type Gear.



Harmonic skiving/turning cutter

Mainly used in advanced intelligent harmonic reducer, steel wheel, flexible wheel, teeth efficient processing.  
Tool type: taper shank.



Unequal thickness skiving/turning cutter

It is used for machining the outer circle, root circle, pitch, tooth thickness and all kinds of special-shaped outer gears on the same circumference. Main processing: automobile synchronizer gear hub, gear ring, all kinds of special-shaped transmission gear processing. Cutter type: disc type. Bowl type.



Small module gear shaper cutter

0.1~0.5

0.1~0.5 mainly used for reducer products  
The cutting tool type are mainly lever type and small bowl type Gear



Harmonic Pinion Cutter

Mainly used for high precision harmonic reducer products  
The cutting tool type are mainly lever type and small bowl type Gear



Rectangular spline gear shaper cutter

Mainly used for the tooth processing of spline connecting head of various transmission parts, such as the transmission parts with rectangular contour shape.  
Cutter type: disc type, bowl type, Morse taper shank.



Helical Gear Shaper Cutter

Various modules segment helical pinion gear cutter, The profile of the cutter is composed of convex angle, trimmed edge, chamfered angle, full cut, full arc and modified shape. Mainly used for auto gear, step gear etc.  
The cutting tool type are mainly disk type, lever type and small bowl type Gear.



Straight Gear Shaper Cutter

Various modules segment involute, triangle spline, rectangle spline, sprocket, belt wheel and other straight gear shaper cutter. The profile of the cutter is composed of convex angle, trimmed edge, chamfered angle, full cut, full arc and modified shape.



Sprocket Shaper Cutter

Mainly used for all kinds of connecting chain driving wheels and tooth shape processing. The tooth shape standard can reach American standard, German standard and Japanese standard.  
Cutter type: disc type, bowl type, taper shank



Removal, combination, unequal thickness gear teeth shaper cutter

Used for gear on the same circle, root circle, pitch, tooth thickness are not the same, and all kinds of shaped shape of the external gear, tooth low speed gear shaping processing.  
Main processing: automobile synchronizer gear hub, all kinds of special-shaped transmission gear processing



Carbide alloy gear cutting hob

0.1~4.5

0.1~4.5 module Medium and small module skiving cemented carbide( carbide alloy ) gear cutter  
The cutting tool type are mainly lever type and small bowel type Gear.



High Speed Dry Cutting Hob

Used for various kinds of high-precision, large volume external gear hobbing, various kinds of shaft involute gear hobbing, high-efficiency, energy-saving, first choice of high-precision, large volume gear processing tool.



Powder metallurgy hole type hob

Mainly used for efficient dry cutting, hobbing of external gear and shaft gear.  
Tool shape categories: before shaving, before grinding, rough cutting, rectangular spline, triangular spline, sprocket, double arc, etc.



Gear Shaving Cutter

Mainly divided into axial gear shaving cutter, radial gear shaving cutter.  
Mainly used to improve precision of gears, tooth surface quality, and is used for batch and large amount of medium-precision gear



Standard Gear

Mainly used for the detection of involute gear, and the precision is mainly national standard level 4 and level 5

## norma-NGC/ schneeberger-norma-ngc



A new generation of multi-function compact 5-axis cutter grinder. The balance between the latest dynamic control technology, high precision standards and the well-designed machine structure makes this machine an ideal solution to the challenges of grinding a wide range of tools.



## Schneeberger-gemini -NGM/ gemini-NGM



The machine is manufactured by Swiss Schlieber machine Tool Manufacturing Company, which has 115 years of manufacturing history of high-precision tool grinders for various types of gear shaper grinding. The precision dimension stability of this equipment is very excellent in the grinding of cutter profile, and the profile size can meet the DIN AA grade standard.

