



Gear Cutting Tools



www.stcgeartools.com

COMPANY PROFILE

FORMATION

The Company was Established in the year 1977 with necessary structure to manufacture Gear Cutting Tools and Broaches.

TEAM

We have a team of highly managed professionals to understand the needs of our customers. We keep in mind the goals and strategies of the company and work in that direction to achieve our goals

PRODUCTS

Full range of products contains the following:

HSS HOB CUTTER

SOLID CARBIDE HOB

HSS SHAPER CUTTER

GEAR SHAVING CUTTER

BROACHES

FORM MILLING CUTTER

SPECIAL FEATURES

Each tool is produced according to the industry standards. The cutting tool thus manufactured is heat treated by proper SALT BATH process to ensure uniform heating and longer tool life.

STANDARDS

The standards we follow are BIS, BS, DIN, ANSI, JIS etc as per our customer specifications and choice.

HSS HOB CUTTERS



STC Manufacture and Export Hob Cutters in standard and non-standard profiles. Gear hobs are used to cut all types spur, helical, involute, bevel and worm gears.

Product Information:

- ✓ Material: HSS -M2/ M35/ASP2030/ASP2052/S390
- ✓ Accuracy classes for hob cutters are A/AA/AAA.
- ✓ Module range for hob cutters ranges from 0.5 to 25.
- ✓ Can be supplied in all types of PVD Coatings.
- ✓ Special features like Topping, Semi-topping, Pre grinding and Pre-shaving are provided as per requirement.
- ✓ Single start and Multiple start thread can be manufactured for Spur and Helical gears.

HSS HOB CUTTERS

HSS Hob Cutters are manufactured by us according to the gear data offered by customer in standard and non -standard pitches. The premium grade material used for gear hobbing ensures high durability and performance.

We Manufacture;

Standard Gear Hob

Pre Shaving Hob

Pre Grinding Hobs

Pre Skiving Hob

Shank Type Hobs

Involute Spline Hob

Parallel Spline Hob

Chain Sprocket Hob

Serration Hob

Timing Pulley Hob

Worm Gear Hob

Special Profiles Hob

Spline Gear Hob

Rack Hob Cutters

SOLID CARBIDE HOBS



Product Information

STC Manufacture and Export Solid Carbide Hobs. It is mainly used when cutting speed is higher than 300-400m/min or when small modules are required. In certain uses Solid Carbide is preferred to steel hobs where higher speeds are required.

- ✓ Grade Material for Carbide Hobs is 'K' and 'P' having different compositions.
- ✓ 'K' hobs are used for large scale productions and 'P' hobs are used after Resharpener.
- ✓ Accuracy class upto 'AAA'.
- ✓ Can be supplied in all types of PVD Coatings.
- ✓ Module ranges from 0.15 to 3.

HSS SHAPER CUTTER



STC Manufacture and Export HSS Shaper Cutters. Shaper cutters can be supplied by us according to gear data offered by our customers .Our range of Shaper cutters includes Disc Type, Shank Type, Hub Type, Helical Shaper, Timing Pulley, Chain Sprocket, Skiving Shaper Cutter.

Product Information

- ✓ Material : HSS in in M2, M35, ASP2030 and ASP2052 grades.
- ✓ Module Ranges from 0.25mm to 22mm
- ✓ Maximum Diameter range :220mm
- ✓ Accuracy Class as per 'A' and 'AA'
- ✓ Coating Material : TiN, TiCN, ALTiN, ALCRONA.
- ✓ Profile : Topping, Semi-toppling, Protuberance, Flat or Fillet Roots can be provided if required.

We Manufacture;

- ▶ Disc-type Shaper Cutter
- ▶ Shank-type shaper cutter
- ▶ Hub Type Shaper Cutter
- ▶ Helical Shaper Cutter
- ▶ Timing Pulley Shaper Cutter
- ▶ Chain Sprocket Shaper Cutter



GEAR SHAVING CUTTERS

We are Manufacturer and Exporter of GearShaving cutters in Standard and non- Standard profiles. We also provide Shaving Cutter Resharpening Service.

The available Material for Shaving Cutters are HSS, HSS-CO, PM-HSS. These cutters are available in both standard and non-standard profiles.



Product Information

Available in Material: Conventional and Power Metallurgy High Speed Steel.

Module range from 1 to 10

Diameter : 100 to 300mm.

All cutters are supplied with inspection report and lead test charts.

We Manufacture;

- ✓ Conventional Shaving Cutter
- ✓ Underpass Shaving Cutter
- ✓ Diagonal Shaving Cutter
- ✓ Plunge Cut Shaving Cutter



BROACHES

STC Manufacture and Export all types of Broaches in all Standards. It can be manufacture in Push Type and Pull Type Broaches in Conventional as well as power metallurgy High Speed Steel.

Product Information

Material: HSS M2,M35,M42, ASP-2030

Available in Both Inch and Metric sizes.

Available in all types of Surface Coatings.

Helical Broaches up to length 800 mm length can also be manufacture.

Can be supplied in all Standards i.e. ANSI,JIS,DIN and so on.

We Manufacture;

- ✓ Helical Broaches
- ✓ Round Broaches
- ✓ Spline Broaches
- ✓ Keyway Broaches
- ✓ Serration Broaches
- ✓ Pull & Push type Broaches



GAUGES



STC Manufacture and Export Spline Gauges to check internal and external profiles errors. Gauges are designed by us according to tolerance limits.

Product Information:

- ✓ Material: Made from Carbon Steel, Power metallurgy steel and special high alloy powder metallurgy steel.
- ✓ Measuring Range: 5mm to 500mm.
- ✓ For checking dimensions Go and No Go Gauge is reliable.
- ✓ All the thread checks are design and made with inspection certificates and gauges drawings.
- ✓ In addition, Spur and Helical Gauges can also be supplied and Manufactured.

We Manufacture;

- ✓ Spline gauges
- ✓ Involute Spline gauges
- ✓ Ring gauges
- ✓ Plug gauges
- ✓ Serration gauges

FORM MILLING CUTTERS



STC Manufacture and Export form Milling Cutters which is specifically designed for milling special profiles. Can be supplied in Single, Multi and Interlocking profiles.

All types of Coatings are available to maximize the durability and performance of cutters.

We Manufacture;

- ✓ Form Milling Cutters
- ✓ Rack Milling Cutters
- ✓ Worm Milling Cutters
- ✓ Carbide Milling Cutters



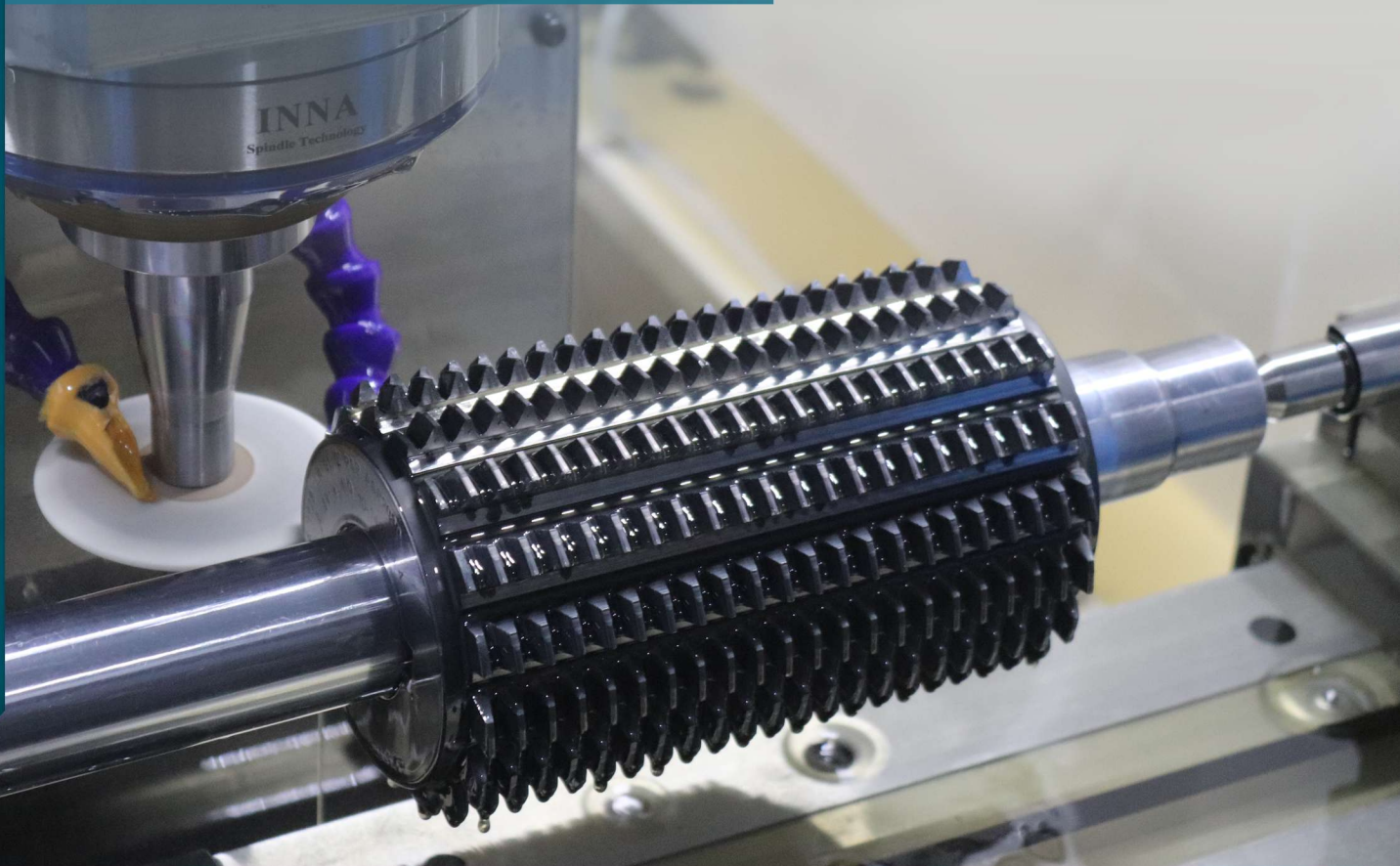
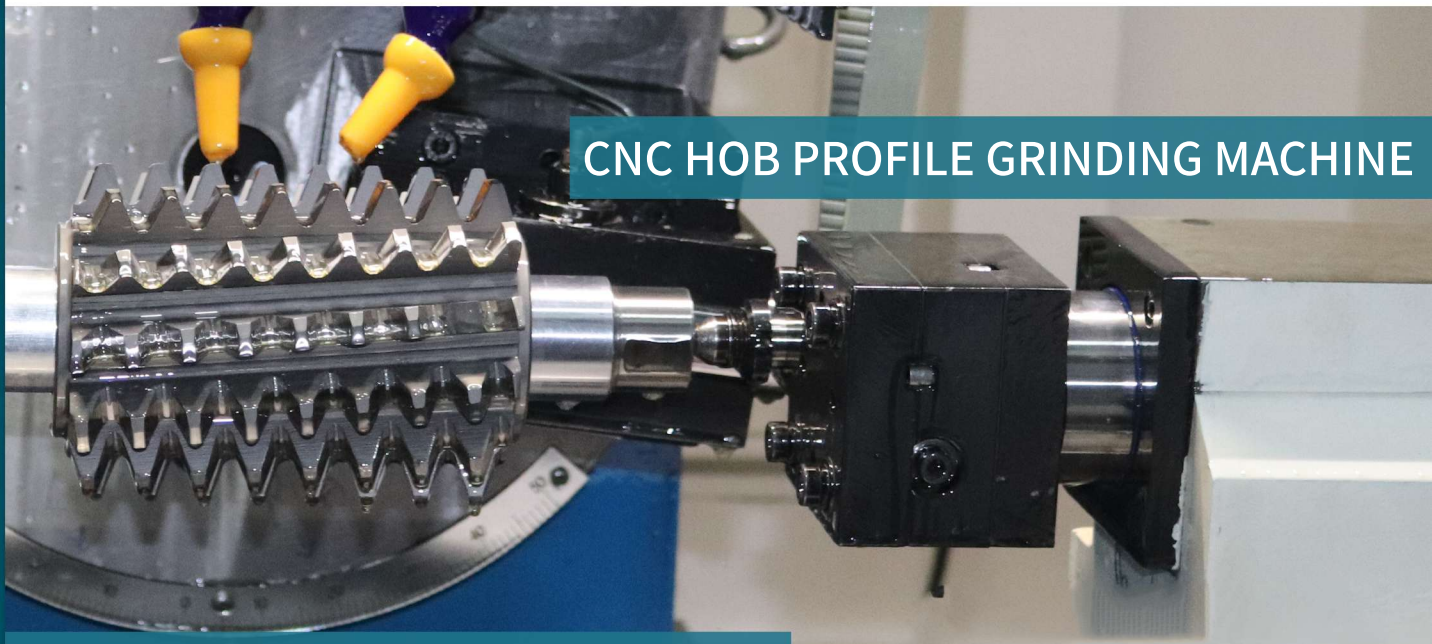
Product Information

- ✓ Hole Diameter : 16mm to 32mm
- ✓ Manufactured in ground and Un-ground forms from a wide range of materials.
- ✓ Available in standard and non-standard sizes.
- ✓ Outside Diameter ranges from 50 - 125mm.

INFRASTRUCTURE

CNC HOB PROFILE GRINDING MACHINE

CNC HOB SHARPENING MACHINE



CNC KLINGELNBERG P26 MEASURING MACHINE



Klingelberg P26 Measuring Machine is used to inspect the cylindrical gears, pinion type cutters, shaving cutters, worm wheel hobs, bevel gears etc.

It completes a wide range of measurement tasks in a single clamping, suitable for coordinate gear tooth and roughness measurements.

It has a versatile scanning 3D tracer head with digital measurement acquisition in all directions.

We ensure adherence to our very strict specification of quality standards.

HOB CUTTER RE-PROFILING



We, at **Super Tools Corporation** provides you with various services like which includes Re-profiling of Hob Cutter. Gear hobbing is the most common manufacturing process which is used for gears of almost all sizes.

HOB CUTTER RE-SHARPENING

CNC Hob Resharpener Machine is suitable for grinding hob cutters and Spur Gear Shaper Cutters. The machining data can be directly input by touching screen, and full control settings can be realized for automatic operation. AA hob accuracy can be achieved with appropriate parameter settings.



SERVICES

GEAR SHAVING
CUTTER
RE-SHARPENING



PVD COATINGS





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