

Schnyder Gear Cutting Tools:

more know-how, precision, reliability







Code 🕖 W

in HSS-E* or CARBIDE for Spur and Helical Gears



Dry cutting

With optimized cutting angles in special CARBIDE with AlTiN-Coating; Modul 0.20–2.50

Skiving

In CARBIDE for hard-cutting; Modul 0.50–3.00, negative rake angle up to 20°, Norm: DIN 3972 II, AGMA, BS etc.

Pre-Cutting Modul 1 and larger

To optimize this process careful pre-cutting in soft stage is required. Please ask for pre-cutting Hobs in HSS-E* or CARBIDE with or without protuberance.

W-EV

Involute gears

8 DP-250 DP Norms: DIN 867 U2-N2, 3972 I-II-III, 58400 U1-N1, NF: E22-011, Cétéhor, AGMA, BS 978 Pl. F1-F2, 4582 Quality: DIN 3968 AA-A-B DIN 58413 5-7-9 (Inspection report against request)

Extra Quality: AAA with inspection report

W-KBW

Serrations 8 DP-250 DP Norms: DIN 5481A, SAE, BS 2059 NF: E22-151

🕅 W-ZW

Involute splines 8 DP-250 DP

Norms: DIN 5480, 5481, 5482 ANSI: Involute Splines, Involute Serrations NF: E22–141, E22–144, BS 3550

GEAR CUTTING TECHNOLOGY

Ø W−ZR

Timing belt pulleys Pitch 1.50–20.0 mm Norms: DIN 7721, ISO 5294, HTD, AT, Isoran RPP, BANDO

🕅 W-ZY

Cycloidal gears

Modul 0.06–1.25 Norms: DIN 58425, NHS 56702–56703 a-b-c, 56704, EVJ



Code 🕅 W





GEAR CUTTING TECHNOLOGY

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Code 🕅 F

Cutters in HSS-E* or CARBIDE



GEAR CUTTING TECHNOLOGY









Code 🕅 E





Dimensions: to DIN 58420, AGMA or Specials, as per customers drawings in ASP 23 or CARBIDE





Inspection and QC Services • Specialized Engineering • Metallurgical Services

Our Services

- Cutting sample and prototype Gears
- Grinding or skiving prototype Gears
- Complete tool re-sharpening
- Tool re-conditioning incl. re-coating



The tool's cutting face is resharpened and the entire hob reprofiled; at the same time the residual coating is removed mechanically.

Coatings

The following low-temperature coatings are available:

- TiN Titanium Nitride HV ≈ 2300 = Low friction and antiwelding characteristics
- TiCN Titanium Carbonitrid HV ≈3000
- TiAIN Titanium Aluminium Nitride HV ≈3300 is ideal for high-temperature conditions, e.g. dry cutting
- AlTiN Aluminium Titanium Nitride HV ~3500 with a high aluminium content, only for carbide hobs. For high cutting speeds or hard hobbing.

We recommend these special coatings be applied only on precision ground tools in high speed steels and carbide.

Inspection and QC Services

- Complete measuring of Gear hobs to DIN 3968 and 58413 on our Klingelnberg P26 Equipment
- Complete measuring of spur and helical gears to DIN 3960/62
- Furnishing of inspection reports related to gear technology



*Metallurgical Services

Through many years of in-house heat treating experience, we supply most of our gear cutting tools to the following specifications:

to DIN	to USA/ANSI	Туре
S 2-10-1-8	M 42	CPM M 42
S 6-5-3-8	-	ASP 30
S 6-7-6-10	M 48	ASP 60/CPM 76
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 A selection of various types of carbide, with over 400 different types of blanks from stock, allows us to provide the best possible service.
Please ask for specific Stock-Lists.

Specialized Engineering

- Gear engineering service available on a contract basis
- Service calculations on hobbing machine and gear tool set-ups

Stock Delivery

Standard Gear Hobs are available from stock to DIN 867, 3972 II, 58400 as well as to AGMA 207.06, BS 978, BS 5482 and NF E22–011, E22–141, 151 also for most timing belt pulleys in precision Class A, AA and AAA. Please ask for specific Stock-Lists.





A look behind the scenes ...



Efficiency: At the new location, nine of these modern CNC form-relieved grinding machines are on line.



Environmental protection and security: Microscopic tears must be avoided at all costs in solid carbide grinding. This high-volume cooling and micro-filtering plant has been installed in the basement.



Quality control: The analysis laboratory uses the most modern testing methods.



Represented by: