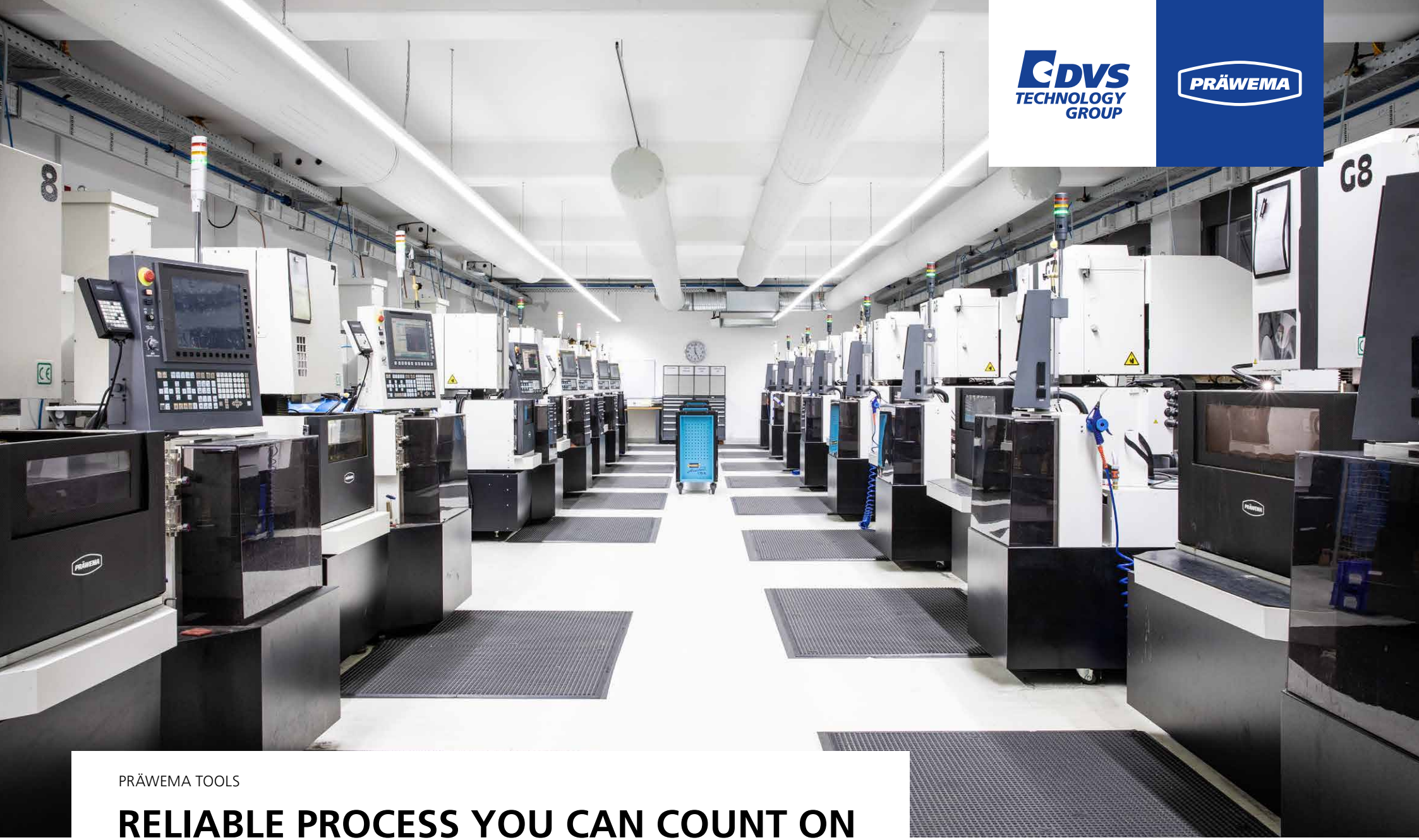


PRÄWEMA TOOLS

RELIABLE PROCESS YOU CAN COUNT ON

Gear Cutting Tools with Highest Performance

PRAEWEMA.COM
DVS-TECHNOLOGY.COM

PRÄWEMA
PRÄWEMA

PRÄWEMA TOOLS

High Output with Low Unit Costs

PRÄWEMA ANTRIEBSTECHNIK GMBH

PRÄWEMA ANTRIEBSTECHNIK GMBH is a company located in Eschwege, in the northern Hesse region of Germany. They produce and develop machinery for the processing and manufacture of gears, with a focus on gearwheels, synchronizing parts, and shafts that ensure the correct torque in vehicle transmissions. The PRÄWEMA technology portfolio includes gear cutting methods such as gear shaving, gear honing, milling of keyways, and back-offs as well as spline milling.

PRÄWEMA has developed the technology of gear honing to a competitive market level, with the result that they are now the market and technology leader with 1000 machines sold. Around the world, the automotive industry relies on highly precise machine tools from PRÄWEMA.

PRÄWEMA TOOLS

The expert team within PRÄWEMA Antriebstechnik is exclusively specialized in the development and production of gear cutting tools for honing and skiving machines as well as special machines within the DVS TECHNOLOGY GROUP.

In addition to gears, customer-specific tools – such as deburring or gear shaving tools – are also developed and manufactured.

MULTI USE TOOLS

SHORT USE TOOLS

SHAFT TOOLS

SWIVEL TOOLS

INSERT TOOLS

DEBURRING AND SPECIAL TOOLS

HOLLOW / STEP-SHARPENED

VARIOSPEEDDRESSERi®

VARIOSPEEDDRESSER®*

Tools
Compelling Variety

The tool is the interface between the machine and the workpiece. It is the criterion for ensuring process safety. High-quality tools provide consistent quality and reduce production fluctuations. This applies to both new and refurbished tools in original equipment manufacturer quality.

This is particularly true for gear shaving tools, which must achieve the highest gear quality through the rolling process.

PRÄWEMA TOOLS covers the entire technology process in-house, from analysis, design, manufacturing, coating and application technology, and thus guarantees a customer-oriented tool solution for all challenges.

SKIVING TOOLS

- Conical and cylindrical versions
- PM-HSS & carbide
- Hard & soft cutting

**The VSD can be obtained from DVS Tooling; see page 5.*

DEBURRING SOLUTIONS

- Roll deburring
- Customized deburring solutions

MORE TOOLS

- VSDi (internal toothing)
- VSD (external gearing)
  dresses honing ring up to 80 times

The VSD technology for external honing developed by PRÄWEMA Antriebstechnik and manufactured in collaboration with DVS Tooling – also a sister company of the DVS TECHNOLOGY GROUP – can be obtained through DVS Tooling.

Phone: **+49 2372 55 250**
Mail: **info@dvs-tooling.de**
Web: **dvs-technoloy.com/dvs-tooling**

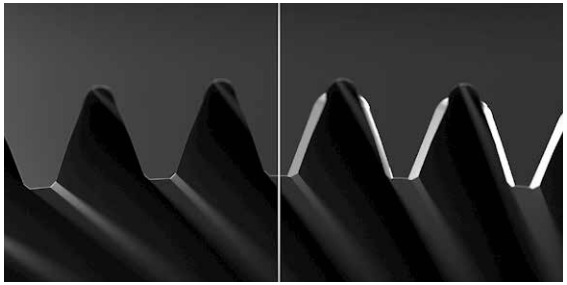
NEW

Internal gear cutting and deburring in one process step.

The new, patented VarioChamfer process from PRÄWEMA allows for gear hobbing and deburring in just one clamping operation, resulting in significantly more efficiency in the manufacturing process. There is no need for removal and turning, and thus no further external solution is necessary.

With VarioChamfer, both planetary gear and hollow wheels can be toothed and deburred in one clamping.

VarioChamfer allows processes to be combined in a small space on the production line, which can save investment costs for an additional machine. All processing steps are carried out in-line in one machine. This is particularly important in the mass production of gearbox components. Thanks to VarioChamfer, for example, a planetary gear can be deburred in less than ten seconds.



Comparison of deburring on the left without and on the right with VarioChamfer.

Flexibility through Competence
Consulting and Development

- PRÄWEMA TOOLS stands for process analysis, development of original tools as well as manufacturing and coating
- Application engineers optimize your process
- Gear skiving tools are manufactured in modules 0.3 to 8
- High-performance tools made of carbide as well as PM-HSS

YOUR ADVANTAGE

- Design of tools for subsequent machining tasks
- State-of-the-art machinery for the production of gear skiving tools, including in-house coating technology
- Individual tool solutions: disposable tools and exchangeable heads for small batch sizes to reduce investment costs
- Independent and local reconditioning service
- In-depth experience in application engineering
- Individual tool trials in the PRÄWEMA network

Thanks to the process chain, PRÄWEMA tools are optimally designed for subsequent hard finishing machining.

For this purpose, PRÄWEMA offers dressing tools for gear hard finishing VSD/VSDi ©, such as PRÄWEMA Powerhoning.

Tool service
Everything from a Single Source

Excellent service begins already with our initial conversation. Already during the process inquiry, PRÄWEMA TOOLS experts are involved in the project planning of the machine tool.

We offer the following services:

- Re-grinding service in original quality
- Speed ensures high tool availability: our service and logistics chain avoids machine downtime
- High flexibility in service to avoid dependencies
- Short-term tool reconditioning, worldwide
- Optional individual call-off contracts

Trust the leading skiving tool manufacturer – we produce more than 6,000 tools a year, making us the tool expert. Our service extends to the USA and China.

Contact us:

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Fax +49 (0) 56 51 12546
vertrieb@praewema.de
dvs-technology.com/praewema-antriebstechnik

Members of the DVS TECHNOLOGY GROUP

DVS MACHINE TOOLS & AUTOMATION

BUDERUS Schleiftechnik GmbH | dvs-technology.com/buderus-schleiftechnik
I.D. grinding – O.D. grinding – Bore honing – Hard turning

DISKUS WERKE Schleiftechnik GmbH | diskus-werke.dvs-gruppe.com
Face grinding – Double face grinding – Special machining

DVS Universal Grinding GmbH | dvs-technology.com/dvs-universal-grinding
Combined hard-fine machining for small and medium size batches

PITTLER T&S GmbH | dvs-technology.com/pittler
Vertical turning center and Pick systems – Gear cutting for complete machining

PRÄWEMA Antriebstechnik GmbH | dvs-technology.com/praewema-antriebstechnik
Gear honing – Gear grinding – Hobbing/Fly-cutting – Chamfering

rbc Fördertechnik GmbH | dvs-technology.com/rbc-robotics
Camera-guided robot automation systems

DVS Service GmbH | dvs-technology.com/dvs-service
Maintenance – Complete overhauls – Repairs

Werkzeugmaschinenbau Ziegenhain GmbH | dvs-technology.com/wmz
Turning & Combined machining of shafts – Motor spindles

DVS TOOLS & COMPONENTS

DVS Tooling GmbH | dvs-technology.com/dvs-tooling
Tool solutions and technology support for PRÄWEMA gear honing

NAXOS-DISKUS Schleifmittelwerke GmbH | dvs-technology.com/naxos-diskus
Conventional grinding tools – CBN and diamond tools

DVS Production

DVS Precision Components (Taicang) Co. Ltd.
Precision powertrain components in series production for passenger cars and trucks on DVS machines

DVS INTERNATIONAL SALES & SERVICE

DVS Technology America, Inc. | dvs-technology.com
DVS Sales & Service in USA, Canada & Mexico

DVS Technology (Taicang) Co., Ltd. | dvs-technology.com
DVS Sales & Service in China

DVS Technology Europe GmbH | dvs-technology.com
DVS Sales & Service in South Europe

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