GUHRING

GSS
3001

NEW

New Development 2013

- Automatic length setting
- Simple operation
- Tool management and process analysis

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Induction Shrink Fit Systems

GSS 3001

Work easily, quickly and efficiently ...

The advantages of shrink fit technology:

- **Perfect 360° tool clamping provides extreme clamping force and rigidity**

- **High repeatability**

- **Minimal imbalance thanks to rotational symmetry**

- **Excellent concentricity for symmetrical cutting edge loading – therefore longer tool life**

- **Reduced components, therefore lower costs for purchasing, storage and administration**

You benefit from:

- **High economic efficiency thanks to effective mode of operation**

- **Full transparency due to process analysis**

- **Absolutely user-friendly**

... with each application!

Fume extraction

Vapours produced during the shrink fit process are **removed and filtered under controlled conditions** by the fume extraction system.

Length setting

During the shrink fit process the tool is pre-set to the **required length** with the assistance of an adjustment rod.

Quick cooling

The water-cooled cooling elements cool down the shrink fit chuck quickly and safely. The shrink fit chuck remains clean and dry, **so that it can be applied again without drying and without rusting**. Hot spots remain safely screened during the cooling process in order to prevent burns.

Tool identification Balluff chip

The read and write function of the Balluff chip simplifies **tool identification**. Tool life can be managed.

User-friendly software

Intuitive menu navigation similar to the well-established Guhring TM-Software GTMS via touch-screen monitor (for details see page 5).

Label printer

Print data such as Guhring no., current setting dimension, date, operator etc. on an **adhesive label** for your pre-set tool.

Safe shrink fitting

The minimal heating of the shrink fit chuck ensures **maximum operating safety** on the one hand, on the other the controlled heating ensures the **long life** of the shrink fit chuck.

Important features:

> Setting, shrink fitting and measuring with one system

> Operating system WIN 7

> Stable Beckhoff control system with touch-screen and foil keyboard

> Compact, workshop suited and robust design

> Ergonomic arrangement of all operating elements for comfortable handling

> Label printer for providing pre-set tools with information such as
  Guhring no., setting dimension, Barcode, and much more…

> Setting and measuring accuracy 0.02 mm

GSS 3001

"Good accessibility"

Good accessibility to all machine
components provides excellent
conditions for cleaning and maintenance
purposes, i.e. re-filling coolant by
simple opening of drawer.

Economic: The Speedcooler switches
off automatically when not in use for
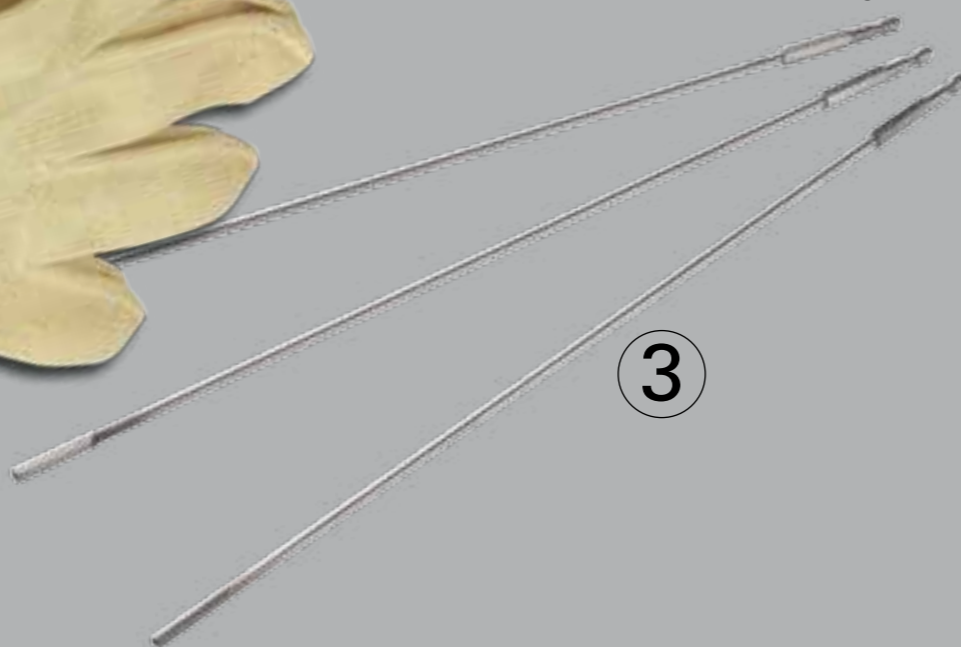a longer period of time.

"Everything has its place"

Stop plates for every diameter
are accessibly stored directly on
the guide column.

GSS Software performance features:

> Intuitive and user-friendly operation thanks to 12" touch-screen and
  Barcode scanner

> Comprehensive management possibilities for your tool, holder and shrink fit
  data as well as the associated parameters

> Analysis of all processes carried out by system (component, cost centre
  or user related; setting up to 5 cost centres possible) to optimise your
  production and for maximum transparency possible

> Software available in different languages

④

① **Additional holder receptacle**

Additional mobile receptacle for cooling of holders

ACCESSORIES

② **Gloves**

Cut and temperature resistant Kevlar gloves, mandatory for all shrink fit applications.

③ **Adjustment rods**

SW 4, 5, 6 and wet
adjustment rods for tool length-setting
in chucks for wet and MQL machining

②

③

④ **Pliers**

For the safe handling of hot tools.

THERMO SECURE
GOLD 3000

Perfect combination:
GSS 3001 + TSG 3000

perfect concentricity
highest balance
maximum operational safety

MQL
BY GÜHRING

SPECIAL TOOLING
SOLUTIONS

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SYSTEMS

TOOL RESTORATION SERVICE

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