

REISHAUER

Gear Grinding Technology

Small Spindle Attachment



MACHINE

AUTOMATION

TOOLING

TECHNOLOGY

DIGITAL

SERVICES

Upgrade-module for maximum flexibility



Swiss precision. Made by Reishauer.



Since it developed the world's first generating gear grinding machine, and with its constant drive for innovation, Reishauer has had a decisive influence on modern gear manufacturing. Reishauer's high-tech gear grinding machines, pioneering digital applications, economical tools and modern clamping devices make the manufacture of hard-wearing, efficient, low-noise gears possible.

Precision through innovation

With increased gear qualities and gears with interfering contours, the technical demands on the grinding process increase. In order to offer you the productivity of generating grinding with Reishauer-level precision, we have developed an upgrade-module for our universal machines RZ 410 to RZ 1000. With this, we enable efficient generating grinding of gears with interfering contours.

Small diameter grinding worms for universal grinders

Electromobility is constantly growing and requires high-precision ground gears, which are installed in compact transmission designs. Gears for electric drives are therefore often designed as shafts with two gears, which results in design-related interfering contours for grinding. Given the resulting space restrictions, generating grinding with standard size grinding worms may not be possible.

Maximum flexibility on one machine

For companies that want to cover a wider range of gear designs with just a few machines, the Small Spindle Attachment expands the range of services and offers new possibilities.



The upgrade module for the Reishauer RZ 410 to RZ 1000 uses a corundum grinding worm, reduced in diameter to 140mm ($d_{f, \min}$ 67mm), making the advantages of the generating grinding process available for extended applications. It thus fills the gap between our highly productive RZ 126/160 KWS 4.0 twin-spindle models and the profile grinding process.

In addition to increased flexibility, particular emphasis was placed on cost-effectiveness: Existing clamping devices and dressing wheels can continue to be used without restriction.

The conversion from main to attachment spindle can be carried out by experienced fitters in less than 45 minutes. The grinding wheels can be replaced in just under five minutes.

The Small Spindle Attachment...

- ... enables efficient generating grinding of gears with interfering contours
- ... expands the range of workpieces to be ground
- ... uses the same machine working range for diameter and number of teeth
- ... fulfills machining accuracy 5 according to ISO / DIN
- ... covers the module range 1 – 4 mm (other module ranges on request)
- ... requires less than 45 minutes changeover time
- ... is suitable for models RZ 410 to RZ 1000, also with optional loader

The Small Spindle Attachment can be retrofitted to the Reishauer RZ 410/550/1000 from year of manufacture 2014, starting with machine number 75 345 (RZ 410/550) or 75 931 (RZ 1000).

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