

## Gear milling

HORN is expanding its range of standardised gear milling cutters for DIN 3972 gear teeth that fall into the reference profile 1 category, now offering products that cover modules 0.5 to 4 entirely.

Between modules 0.5 and 3, HORN provides AS45-grade carbide circular milling cutters from the 613 to 636 ranges, screwed into place on the face side and available with a variety of diameters. Six teeth around the circumference ensure outstanding productivity, even when faced with high-strength materials.

Between modules 3.25 and 4, HORN offers single-row and two-row cutter heads with standardised two-edged S279 indexable inserts. The axial screw connection for the indexable inserts enables high numbers of teeth and a narrow pitch. The indexable inserts are ground with the utmost precision around the circumference and on the face. In cases where fewer teeth are present on the gear wheel, a two-row cutting division is used; this also applies to wider tooth profiles. Thanks to this cutting division, the two-row version of the indexable inserts exerts less cutting pressure on the tool, the workpiece and the machine – resulting in a better-quality product.

*1,173 characters incl. spaces*

## Image captions:



**Image 1:** Module 0.5 to 3 gear milling cutters, screwed into place on the face side.

**Image credits:** Paul Horn GmbH, Nico Sauermann

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