

Dressing for gear machining



Dressing roll for a gear grinding wheel profile

Consider the application and tool together

In gear grinding, the dressing tool transfers the required contour to the grinding wheel. EHWA presents precision dressing tools for gear machining. Workpiece profile, grinding method and machine determine the required dresser geometry.

This edited overview provides an introduction to the tool family. Complete original tables and illustrations remain accessible through the source links. You can move from the described operation directly to a technical discussion of your application.

Applications and tool assignment

Application or feature	Tool and assignment
Gear profile	Precision-profiled dressing tools
Single Cone	Cone form of the illustrated tool family
Single Taper Disk	Disk form of the illustrated tool family
Profile matching	Workpiece, grinding wheel and dresser considered together

Tool features and benefits

The document emphasizes raw-material control, precisely finished dressers and the resulting gear profile. Consistent dressing can support profile accuracy and repeatable grinding conditions. Dressing quality is therefore assessed together with the resulting component quality. The dresser works on the grinding wheel; the gear receives its contour in the subsequent grinding process.

From your application to a tooling solution

State gear data, grinding-wheel design, machine and dresser mounting. For an existing process, dressing cycle, tolerances and current quality findings are useful. The original drawings and tool forms remain accessible as a basis for technical discussion.

Start with the information already available. An existing tool, a photo or a drawing is often a useful starting point. Also discuss your goal: replacing an existing design, improving surface quality or reducing tool changes and machining time. Comparisons record quality, time and useful output together; missing information can be added during the technical discussion.

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[Request tool selection](#)

Further original documents

- [Dressing for gear machining - Gear 2026 QR](#) · Original PDF, 2 pages.
- [Dressing for gear machining - Gear-Grinding-Dresser Eng web](#) · Original PDF, 6 pages.

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