

Wear parts for grinding machines and measurement



Transmission components as an application example

Contact surfaces with a defined function

Wear parts support, guide or contact the workpiece. EHWA describes designs for centreless and cylindrical grinding machines, bearing manufacture and measurement. Their function differs from that of the grinding wheel: contact geometry, support, friction and wear behaviour are decisive.

A suitable contact surface can support consistent workpiece guidance and longer service intervals. Design connects machine geometry with the component and its surface. The product area includes PCD, PCBN, carbide and ceramic; material selection is assigned to the actual contact task.

Components and application locations

Component family	Catalogue application	Contact surface task
Centerless blades	Centreless grinding	Workpiece support and guidance
Support shoes and V-blocks	Workpiece support	Defined contact with the component
Backing plates	Bearing manufacture	Support and contact geometry
Gauges and measuring contacts	Measurement	Contact for dimensional inspection
Dead centres	Machine components	Design matched to mounting and workpiece

Select material and surface together

The Wear Parts sheet describes PCD wear resistance and polished contact surfaces to reduce friction. For ceramic, the source names chemical resistance. These properties are used as design objectives and assessed against workpiece material, loading and media used.

A wear-resistant surface alone does not determine the correct geometry. Blades, shoes and V-blocks need a contact position suited to the component and machine. For replacement parts, a drawing, mounting details and previous contact marks are particularly useful.

Comparison considers wear-part dimensional change, workpiece surface condition and service life together. The new design should support the required component quality throughout its use; this does not establish a general lifetime.

Catalogue example: support and contact

The product sheet shows centerless blades and support shoes and V-blocks as work-rest parts. The supplementary Wearless excerpt shows bearing backing plates, dead centres, special gauges and guide blades. These are different contact components whose shapes are adapted to the application.

For a support blade, the workpiece contact surface and machine fastening are considered together. A gauge also has a measurement function. These examples help assign a drawing to the correct component family and discuss material and surface requirements in detail.

Your technical enquiry

Send a drawing, material designation, machine and mounting details, and the intended result. For existing processes, the current tool specification, machining data and a description of the wear pattern help. Mention the topic and relevant catalogue page. We discuss the tool design and next steps with you.

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- [Submit a technical enquiry](#)

Sources and complete catalogues

- [Wear Parts - materials and applications](#), PDF page 2; [HQ source](#).
- [Wearless - backing plates, shoes, measuring and guiding components](#), PDF pages 2-4; printed pages 199-201; [HQ source](#).

This thematic overview is a compact introduction to these applications. The linked original catalogues contain further designs, tables and technical information.