

Dressing tools for turbine applications



Turbine components as an application example

Consider the application and tool together

EHWA presents profiled rotary dressers for turbine blades in aerospace, power-generation and shipbuilding applications. The roll is designed around the workpiece contour and prepares the grinding wheel for subsequent profile machining.

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
Turbine blade	Workpiece with a functional profile geometry
Profiled rotary dresser	Contour transfer to the grinding wheel
Creep-feed grinding	Stable dressing performance as the described process objective
Drawing-based design	Roll and grinding wheel matched together

Tool features and benefits

The original document states high tool precision, long useful life and stable dressing performance in creep-feed grinding. These properties connect the roll profile with grinding-wheel and component quality. A matched solution can reduce tool changes and rework. Profile accuracy, surface quality and process time are compared together.

From your application to a tooling solution

Selection requires the component drawing, material, grinding wheel, machine and profile requirements. In existing production, the current dresser, dressing strategy and quality records are useful. Tool pictures distinguish dresser and workpiece; the rotary dresser is not a grinding wheel working directly on the blade.

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.

EHWA Europe · Technical consulting

info@ehwadia.de · +49 (0) 6173 - 99 77 80

[Request tool selection](#)

Further original documents

- [Dressing tools for turbine applications - Turbine](#) · Original PDF, 2 pages.

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