

Rotary dressers for turbine blades

Custom EHWA rotary dressers for aerospace, power-generation and marine turbine blades, including four profile-contact arrangements.

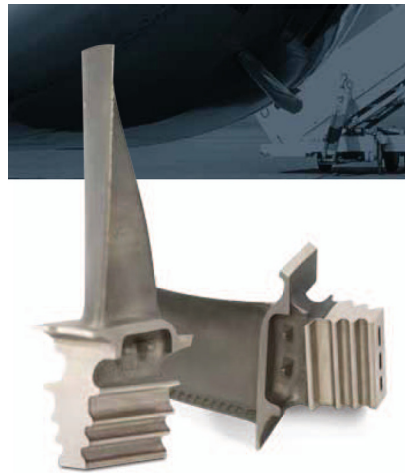
Match the workpiece profile and rotary dresser

Profile accuracy and stable dressing performance in creep-feed grinding

EHWA develops rotary dressers around your workpiece contour. They profile the grinding wheel for subsequent turbine-blade machining. The programme combines custom geometry, high precision, long tool life and stable dressing performance in creep-feed grinding.



EHWA rotary dresser for turbine blades.



Turbine blades with different profile and attachment areas.

Turbine blades for three application sectors

Sector	Profile-machining application
Aerospace	Blades for aerospace turbines
Power generation	Blades for power-generation turbines
Shipbuilding	Blades for marine turbines

The design is matched to the blade profile and grinding-wheel contour. The photographs show turbine and aircraft-engine applications.



Aircraft-engine application photograph from the turbine programme.



Further aircraft-engine application photograph.

Custom roll design and precise profiling

EHWA identifies three connected benefits:

Tool feature	Application benefit
Roll design based on the workpiece	Match the dressing contour to the blade profile
Long tool life and high tool precision	Consider useful life and precise profile machining together
Stable dressing performance in creep-feed grinding	Support consistent profiling during the creep-feed grinding process

Contour, grinding wheel, mounting and dressing strategy are designed together. Drawings and inspection records help match profile quality, surface requirements and dressing intervals.



Detailed view of a profiled rotary dresser.

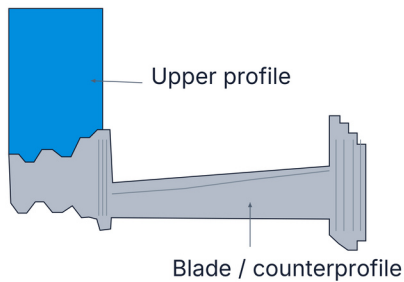


Rotary dresser and turbine blade shown as separate tool and workpiece examples.

Four profile-contact arrangements

Four contact positions illustrate profile machining. Blue shows the upper profile; grey shows the blade/counterprofile. The arrangement is matched to your workpiece drawing.

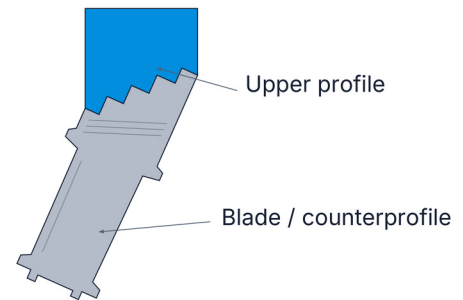
Horizontal profile contact



Schematic illustration

Profile contact 1: horizontal blade body with a raised profile area at the side.

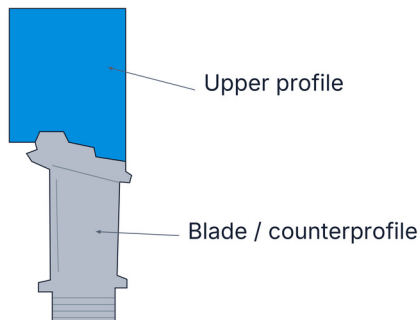
Inclined profile contact



Schematic illustration

Profile contact 2: inclined blade body with a stepped profile contact.

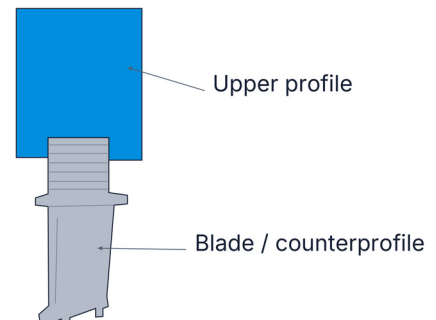
Asymmetric profile contact



Schematic illustration

Profile contact 3: near-vertical blade body with an inclined, asymmetric upper contact area.

Central stepped contact



Schematic illustration

Profile contact 4: straight blade body with a central, symmetric stepped contact.

Profile dimensions, radii and contact positions follow your component and tool drawings.

Discuss your turbine application

Provide the blade drawing, material, machine, mounting and grinding wheel. Add your existing rotary dresser, dressing strategy and required profile and surface quality. Inspection records, wear patterns and dressing intervals support the comparison. Together, we match the design to your production process.

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