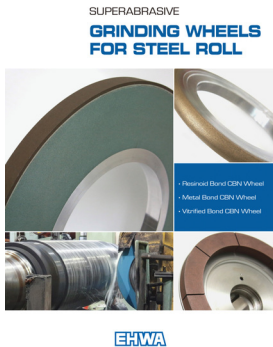


Steel rolls and hardened materials



Original document: grinding tools for steel rolls

Consider the application and tool together

EHWA presents grinding wheels for steel rolls and other demanding roll materials. The documents distinguish CBN designs with resin, metal and vitrified bonds. Carbide rolls are treated with their own tool/material assignment.

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
Steel and HSS rolls	CBN grinding tools matched to the process
Resin bond	Design for corresponding roll-grinding tasks
Metal bond	Bond variants with different use characteristics
Vitrified bond	Coordination of removal and dressing
Carbide rolls	Diamond tool in the illustrated example

Tool features and benefits

The catalogues describe high grinding performance, longer useful life, form retention and consistent surfaces. Bond and specification place different emphasis on cutting action, finish and tool life. An economical solution considers roll quality, machining time and useful stock removal together. An isolated comparison factor does not replace this process assessment.

From your application to a tooling solution

Please state roll material and hardness, dimensions, machine and grinding strategy. For existing wheels, the form, full specification, coolant and dressing conditions are useful. Steel and carbide rolls are not assigned the same abrasive design merely because their geometries are similar.

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

- [Steel rolls and hardened materials - ehwa steel-roll 2023](#) · Original PDF, 11 pages.
- [Steel rolls and hardened materials - ehwa steel-roll 2023 2](#) · Original PDF, 11 pages.
- [Steel rolls and hardened materials - GRINDING-WHEELS-FOR-STEEL-ROLL E new](#) · Original PDF, 8 pages.
- [Steel rolls and hardened materials - EB319-NEW-COATED-GRADE-FOR-HARDENED-STEEL web](#) · Original PDF, 1 page.

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