

High-Hardness Crane Wheels

Controlled tread hardness, ductile core behavior, finish grinding, inspection records, and permanent wheel traceability for severe-duty rail applications.

60 HRC

target surface hardness
where specified

Case depth

project-specific hardening
profile

Traceable

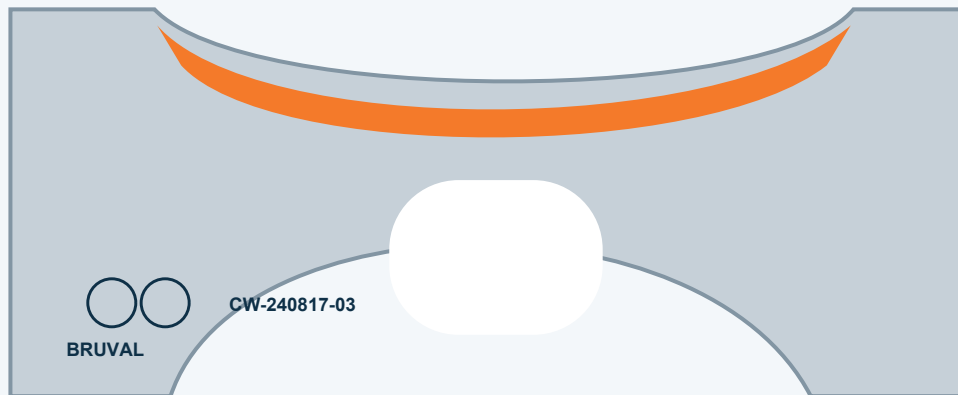
serial, heat-treatment,
hardness, and inspection

Engineered hardness, not only a hard number

A crane wheel needs a wear-resistant tread, controlled transition zones, and a core that can tolerate impact and side loading.

Wheel section concept

The tread receives wear resistance. The wheel body remains tough. Side marking supports traceability without interfering with the running surface.



What should be proven

- **Surface hardness**
 Target up to 60 HRC where the drawing and duty require it.
- **Effective case depth**
 Depth of useful hardness, not only a surface reading.
- **Ductile core**
 Toughness retained for shock load and misalignment.
- **Finish geometry**
 Tread, flange, bore, and bearing seats completed after treatment.

Actual crane wheel workpieces

Use real production photos as the proof layer: machined wheel bodies, assembled wheels, batch production, and measurement activity.



MACHINED WHEEL BODIES

Machining before final coating or assembly

Finished metallic surfaces, hub features, bolt holes, and tread/flare profiles show the real part geometry behind the capability claim.



Painted assembly

Wheel assembled with bearing housing and protected industrial coating.



Batch production

Multiple wheels prepared with protected shafts and consistent geometry.



Measurement support

Inspection and fit confirmation for replacement or reconditioning work.

From drawing to inspection pack

The strong message is not that BRUVAL can machine a wheel. It is that the wheel route can be controlled from requirement review through final records.



Record pack

- Material certificate
- Heat-treatment data
- Hardness readings
- Dimensional report
- NDT / final release if required

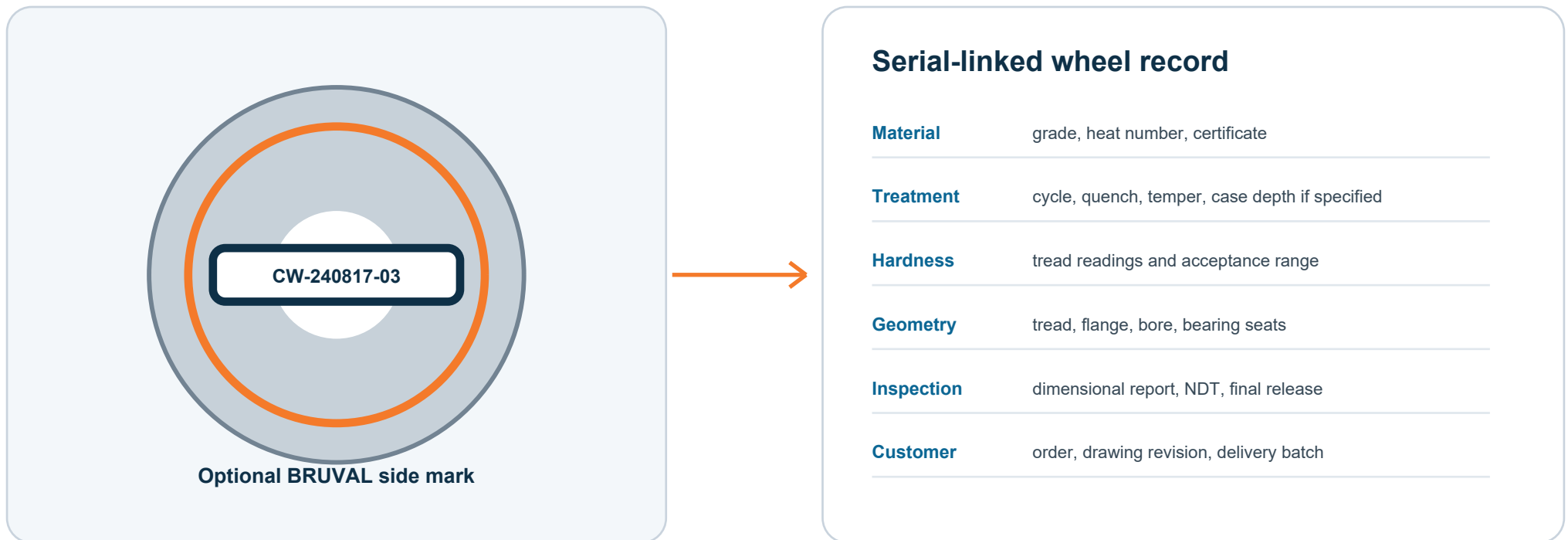


Inspection message

A permanent side mark should link the wheel to material, heat-treatment, hardness, and inspection records. The mark itself identifies; the serial number does the tracing.

Traceability mark: visual signature plus serial code

A groove or side mark can help identify the wheel family, but the stamped serial code is what links the exact wheel to records.



Important: Do not copy a competitor trademark groove. Use a BRUVAL-specific side mark only after engineering checks confirm it does not create a stress concentration or conflict with the customer drawing.

What the website should say

The PDF should connect directly to a website section: short claim, visible proof, and a clear request for drawings and hardness requirements.

WEBSITE COPY

BRUVAL manufactures and reconditions crane wheels for severe-duty rail applications, combining machining, controlled heat treatment, finish grinding, and documented inspection. Surface hardness up to 60 HRC can be supplied where specified by the project requirement.

Inquiry checklist

- wheel drawing
- rail profile
- material / standard
- surface hardness and case depth
- load, speed, duty cycle
- wear photos or failure history

7000 mm

CNC vertical turning diameter

16000 mm

CNC parallel turning length

16000 mm

CNC cylindrical grinding length

80 tons

heat-treatment furnace loading capacity

200 tons

heavy workpiece handling

Recommended call to action

Send the wheel drawing, rail profile, hardness requirement, and current wear pattern. BRUVAL can review the route and return the next technical step.