



# Manufacturer-Related Product Qualification

for railway rolling stock components



Certificate registration no.: 2002022

Manufacturer

**Jürgens Gießerei GmbH & Co. KG**  
**Lönsstraße 15**  
**48282 Emsdetten**  
**Germany**

## Scope of qualification

| <b>Product groups (PG)/Product</b><br>(see annex 1) | <b>Manufacturing steps</b> | <b>Material group (WG)</b> |
|---|----------------------------|----------------------------|
| PG 4: axle box acc. to DBS 918058                   | Casting EN 1559            | WG G4 GJS EN 1563          |
| PG 7: large casing                                  |                            | WG G5 GJL EN 1561          |
| PG 11: general components                           |                            |                            |

Manufacturer's mark used



## Basis of qualification:

- Evaluation of manufacturing plant and the production processes: June 24 -26, 2020
- Manufacturer declaration from October 10, 2022
- Product testing:  internal /  external
- Audit report no.: HPQ-FE.EF42-22-067-0200 from October 13, 2022

## Remarks to the scope of qualification and general restrictions:

- In acc. with annex 2 to the certificate

Period of validity: **December 2025**

Deutsche Bahn AG  
Qualitätssicherung Schienenfahrzeugteile und  
Produktqualifikation, FE.EF 42

Berlin, October 13, 2022

## Annex 1 – Product groups

| No. LgP   | component  | remark  |
|---|--|---|
| <b>product group 1 – windscreens</b>                              |  |   |
| 340   | End wall window, windscreen (inc. heating system)  |   |
| <b>product group 2 – wheelset components</b>                      |  |   |
| 450   | Wheelset (complete)  |   |
| 452   | Monobloc wheel   |   |
| 454   | Wheel body   |   |
| 455   | Wheel tyre   |   |
| 461   | Axle with/without a central bore   |   |
| 462   | Axle with central bore / boring/drilling   |   |
| 463   | Molybdenum-coated wheelset / molybdenum coating  |   |
| <b>product group 3 – axle box bearings</b>                        |  |   |
| 468   | Roller bearing for axlebox   |   |
| 469   | Roller bearing components: inner ring, outer ring  |   |
| <b>product group 4 – axle box housings</b>                        |  |   |
| 466   | Axle box housing, axle bearing housing   |   |
| <b>product group 5 - springs</b>                                  |  |   |
| 390/419   | Coil springs   |   |
| 395/423   | Laminated suspension spring (complete)/spring leaf (individual)  |   |
| <b>product group 6 – brake discs and hubs</b>                     |  |   |
| 1597-1  | Friction rings and segments for brake discs  |   |
| 1597-2  | Hub  | Raw part, unmachined  |
| <b>product group 7 - housings</b>                                 |  |   |
| 268   | Coupler head/coupling head/coupling head housing/catcher   |   |
| 800   | Gearbox housing  |   |
| 820   | Traction motor housing   |   |
| 843   | Hollow drive shaft, hollow axle  |   |
| 846   | Hollow shaft casing  |   |
| 850   | Gearbox housing  |   |
| 947   | Brake shaft, Hollow brake shaft  |   |
| <b>product group 8 – draw hooks</b>                               |  |   |
| 300   | Coupling hook  |   |
| <b>product group 10 – draw bars</b>                               |  |   |
| 308   | Drawbar, forked drawbar  |   |
| <b>product group 11 – general components</b>                      |  |   |
| 171   | Bracket/bearer/suspension system (power trans-mission between the running gear/truck and the vehicle body) | Vehicle body shell/body shell/vehicle body/structure, Welded-on parts, vehicle body fittings and structures |
| 285   | Central articulated joint, car body articulated joint  | Buffing and draw gear, coupler  |
| 293   | Components such as sleeves, plungers and buffer heads  | Side/self-contained buffers, complete, crash buffers  |
| 295   | Impact protection element (steel, reversible, e.g. annular springs, friction springs)                      | Buffing gear, Impact protection elements  |
| 372   | Solebar, truck side member   |   |
| 373   | Crossbeam  | Chassis/running gear/truck (complete), load-bearing structures  |
| 376   | Suspension rod   |   |
| 377   | Truck bolster/beam   |   |
| 378   | Spring bracket, hollow shaft   |   |
| 397   | Spring suspension, spring bearing, spring guide  | Load bearing structure of the secondary suspension stage  |
| 400   | Spring hanger  |   |
| 401   | Spring bolt  |   |
| 414   | Wheelset bracket   |   |
| 426   | Beam, pneumatic spring bracket   | Pneumatic spring system (complete)  |
| 444   | Yaw damper bracket, rotation damper bracket  | Rotation stabilization system, yaw stabilization system   |
| 447   | Torsion shaft, torsion bar   | Suspension, damping, wheel(set) mounting, Friction torque inhibitor elements                                |
| 467   | Casing sleeves   | Axle box complete (axle roller bearing, wheelset roller bearing)  |
| 484   | Push-pull bar, link rod  |   |
| 485   | Coupling element/coupling rod  | Running gear-vehicle body connection,   |
| 486   | Tensile force articulation system housing  | Articulation, tensile force articulation, lengthwise articulation   |
| 488   | Truck stop block   |   |
| 492   | Truck pivot, central casting pins  |   |
| 497   | Central casting upper/lower  | Truck pivot, central casting, slewing rim   |
| 498   | Slewing rim  |   |
| 501   | Torsion bar (including level), torsion shaft   |   |
| 502   | Drawbar for torsion bar  | Anti-roll system  |
| 503   | Roll bar bearing   |   |
| 509   | Pendulum for torque support  | Drehmomentstütze  |
| 531   | Brake suspension system (e.g. from brake beam inter alia)  | HPQ for components with a supporting/counter-bearing role,  |
| 532   | Damper mounting brackets   | Brackets, suspension systems (Running gear – fittings/auxiliary function)                                   |
| 544   | Tilting crossbeam including suspension   |   |
| 545   | Suspension rod, tilting pendulum   |   |
| 546   | Ball-and-socket joint, articulated joint   | Tilt system   |
| 547   | Truck bolster  |   |
| 548   | Pendulum carrier, pendulum connection  |   |
| 707   | Supporting frame, supporting structure for generator, stator casing  | Main generator system (traction generator)  |
| 821   | Bearing shield: driven and non-driven end  | Drive, traction motor, gearbox  |
| 836   | Traction motor and drive suspension system pendulum  | Traction motor suspension/drive suspension system (complete)  |
| 872   | Connecting rod, coupling rod   |   |
| 874   | Torque dampers   | Rod drive, chain drive  |
| 954   | Brake guide  |   |
| 955   | Brake caliper/brake caliper lever  |   |
| 956   | Bracket  | Brake actuating elements- Brake caliper unit  |
| 957   | Housing  |   |
| 958   | Main suspension/mounting (pins, suspension bracket inter alia)   |   |
| 961   | Main suspension/mounting (pins, suspension lug, etc.)  |   |
| 962   | Lever  |   |
| 963   | Housing  | Brake caliper unit  |
| 967   | Brake drum   |   |
| 978-2   | Brake tie bar, brake flange, brake beam  |   |
| 998   | Integral beam  |   |
| 999   | Tragarm  |   |
| 1000  | Track holder complete, retaining bracket   | Eddy-current magnet (complete)  |
| 1001  | Brake support, braking force support, complete   |   |
| 1005  | Clamp, bracket   | Eddy-current magnet - Suspension/lowering system (complete)   |
| 1008  | Support frame  |   |
| 1009  | Trackholder (complete)   |   |
| 1010  | Trackholder head   | Electromagnetic rail brake (complete)   |
| 1012  | Pull bow, thrust bow   |   |
| 1013  | Driver, driver stem, driver stop   |   |
| 1014  | Suspension stand   |   |
| <b>product group 12 – general components with special testing</b> |  |   |
| 402   | Spring shackle   |   |
| 978-1   | Brake triangles  |   |
| 969   | Brake blocks   |   |
| 304   | Coupling pins, looped coupling links, coupling links, coupling nuts, coupling screws                       | Screw coupling  |
| 311   | Coupling bolt  | Drawbar, forked drawbar   |

**Remarks to the scope of qualification:**

- none

**General restrictions to Manufacturer-Related Product Qualification:**

- This qualification does not cover products which require a separate manufacturer-related product qualification by the applicable Deutsche Bahn standards.
- Required and not yet performed type tests are not covered by this certificate. The evidence of these must be provided in the context of first article inspection of the respective product.
- The certification in according to EN 15085-2 and DB AG directive 951 is necessary for welding of rail vehicle parts.
- Exclusively subcontractors qualified by the Deutsche Bahn AG can be authorized to carry out the heat treatment.

**The following services are subject to charge:**

- re-issuing the certificate because of a change of ownership, a change of the company name or a change in the scope of this qualification
- additional certificates in English (three copies per set)

**Information duties:**

- The issue of a manufacturer related product qualification (HPQ) is always based on the state determined at the time of the audit. All essential changes of processes or manufacturing systems/equipment that are planned or carried out subsequently must always be notified by the manufacturer to DB AG in advance. DB AG shall decide necessary actions in individual cases.
- A violation of the information obligation may lead to the withdrawal of HPQ.
- The qualification may be withdrawn, if quality problems arise that cast doubt on the current status of this qualification or if a manufacturer disregards important conditions of this qualification.