

Castings for the rail & rolling stock industries

Steloy Castings (a proudly South African supplier and B-BBEE contributor) has a track record spanning more than 20 years in the supply of high quality castings to the rail and rolling stock industries, with a customer base that includes first, second and support tier manufacturers, including Transnet and general engineering support works.

Steloy supplies a variety of static cast components, some of which include cannon boxes, axle boxes, horn frames, u-tubes and links.



Typical examples of cast rail industry components

CASTINGS	MATERIAL
U-tubes	CME138
Cannon Boxes	CME138
Adaptors	BS3100-A2
Traction Links	BS3100-A2
Horn Frames	ARM-M201 Grade C
Head Section	ARM-M201 Grade C
Seat (Bolster Springs)	BS3100-A2
Bolster	BS3100-A2

Components are produced in a range of alloys as listed in ASTM A148 and addressed in more detail in:

- Association of American Railroads Mechanical Division (AARM M201)
- Spoonet Rolling Stock (RS/C/190)
- British Standards (BS3100)



Please consult the Steloy Castings Material Catalogue or website for a full breakdown of our range of 220 materials.

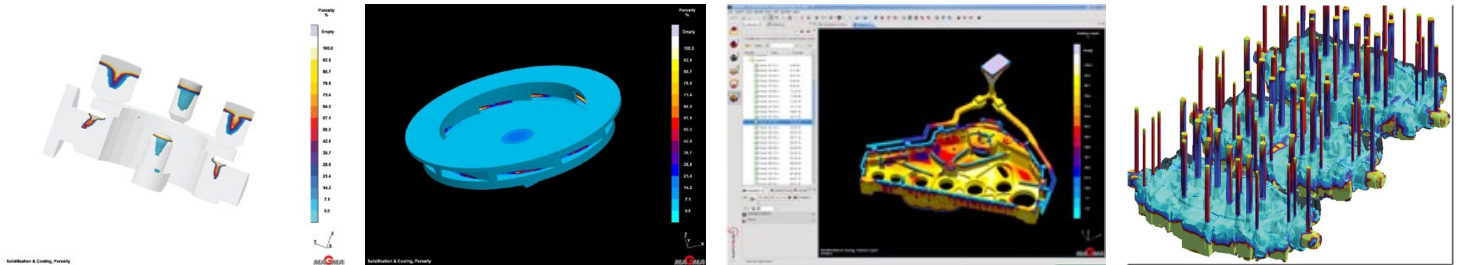


Quality Assurance Control and Certification

Quality Assurance is conducted within the framework of Steloy Castings' ISO 9001:2008 accreditation.

To ensure absolute conformance to the specified quality criteria, the following QC techniques are employed:

Radiographic Testing (RT)	According to ASTM E94 Practice, with typical acceptance criteria in accordance with ASTM E446 and ASTM E186
Magnetic Particle Inspection (MPI)	According to ASTM E709 Practice, with typical acceptance criteria in accordance with ASTM E125
Liquid Penetrant Examination (LPE)	According to ASME Section V Part 6 Practice, with typical acceptance criteria in accordance with EN1371 (formerly DIN1690 Part 2)
Visual Inspection	According to ASTM A802 (including the use of Scrata Comparators)
Ultrasonic Examination (UT)	According to ASTM E609 Practice
Welding	Conducted in accordance with procedures qualified as per ASTM A488
Dimensional Tolerances	ISO 8062 maintained as standard on all as-cast dimensions



Steloy's one-stop service offering to the rail industry includes:

- Drawing analysis
- Draughting of manufacturing drawings
- CNC pattern making
- Simulation of all first-of-a-kind castings with advanced Magmasoft simulation software, to enhance quality and reduce lead times
- Moulding, casting and fettling
- Heat treatment (incl. annealing, normalising, quench and tempering)
- Non-destructive testing
- Machining



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