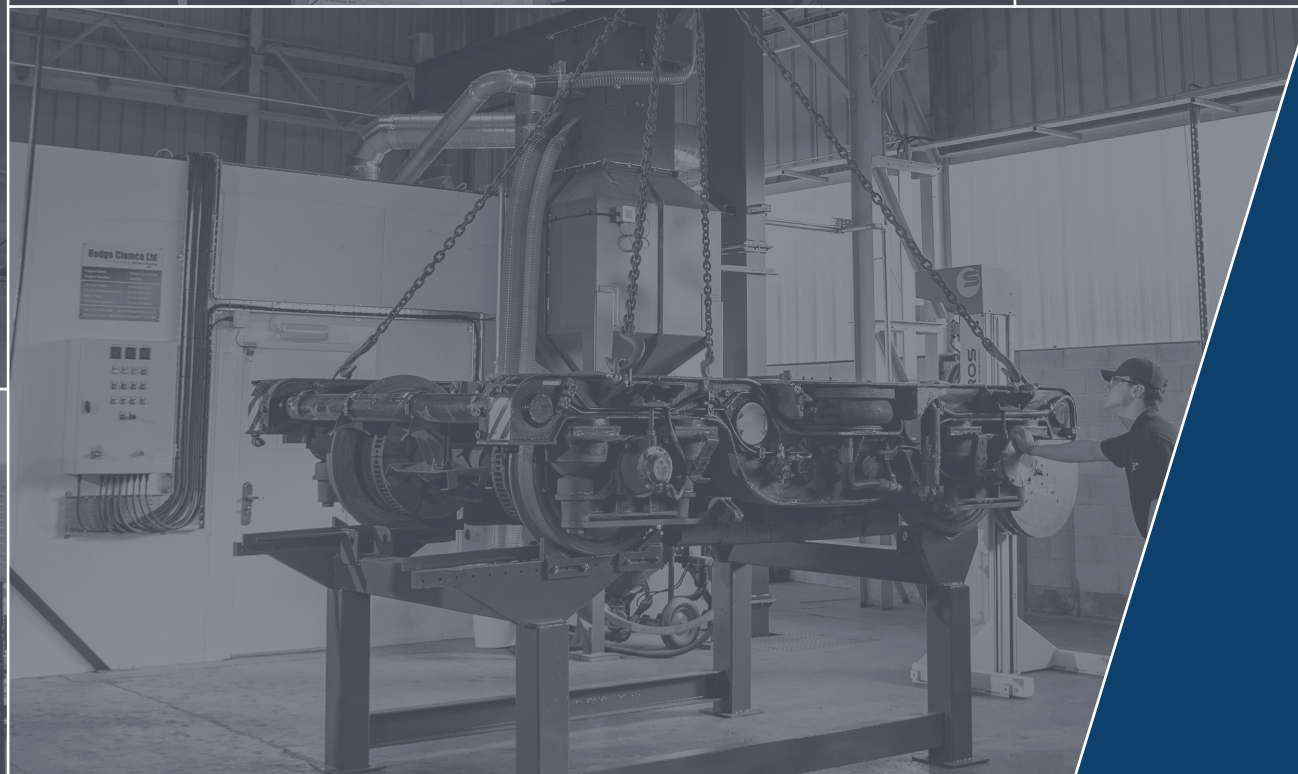




**WILLIAM COOK RAIL**

**COOK**





# A World Class company

"I am proud of William Cook. I built it up almost from scratch. To me the letters WC stand for 'World Class'. I believe we are, and we can prove it to our customers."

Sir Andrew Cook CBE, Chairman

William Cook Rail is part of the William Cook group, whose companies design, manufacture and overhaul components and systems for applications where safety and reliability are critical. Whether public or private sector, UK or worldwide, William Cook customers all have one thing in common; they cannot afford to take risks.

For nearly two centuries William Cook's core competence has been casting steel. Today, most of William Cook's components and systems for defence, rail and other industries still comprise high-specification cast alloys at their core.

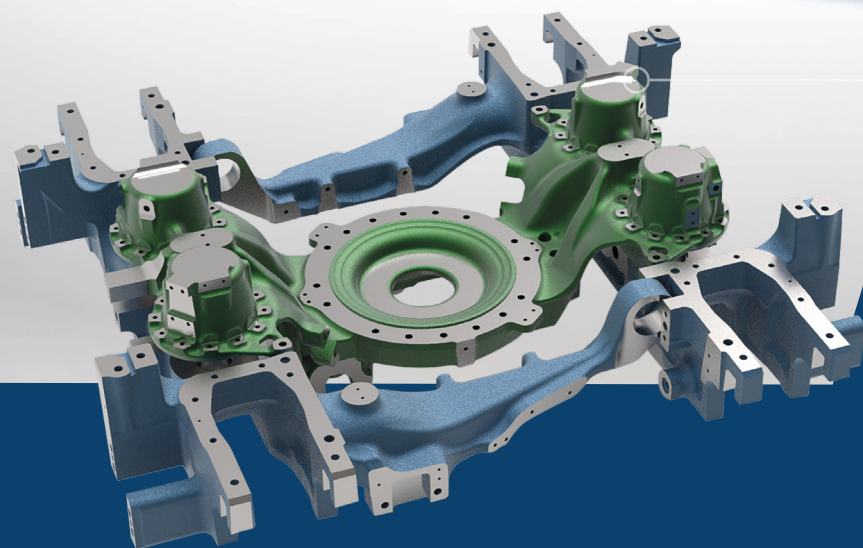
William Cook's three main divisions, employing 500 people, generate revenues of £60m per year. The company's profitability, private ownership and lack of debt permit a consistent programme of investment.

This investment isn't just in William Cook's three advanced manufacturing plants. It's in university research, sponsored students and award-winning apprentices; investment that will keep William Cook World Class.





ALSTOM CITADIS SPIRIT LIGHT RAIL VEHICLE (LRV)



BOLSTER AND HALF-FRAME FOR ALSTOM CITADIS SPIRIT

Alstom selected William Cook Rail to supply safety-critical bolsters and half-frames for its Citadis Spirit LRVs. These complex cast steel components are supplied machined, painted, pressure tested and ready to assemble.



In 2019, William Cook Rail's Citadis Spirit bolster was shortlisted for the UK Cast Metals Federation Component of the Year award.

# Bogie components

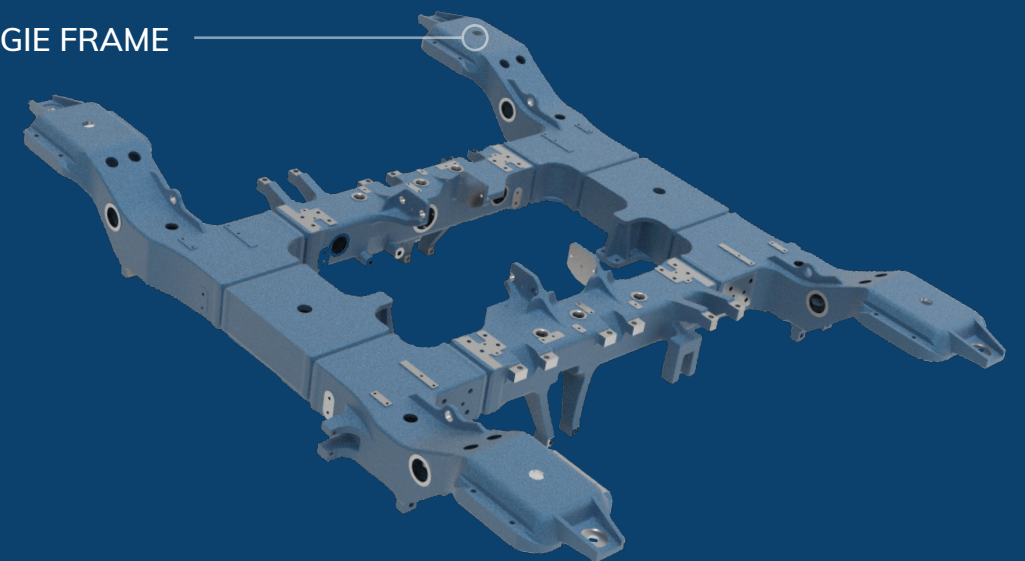
William Cook Rail works with train builders to design and manufacture safety-critical bogie and car body components.

The majority of these are complex cast steel components supplied machined, painted and often fabricated into finished frames in accordance with EN15085. William Cook Rail also supplies machined iron and aluminium components to train builders.

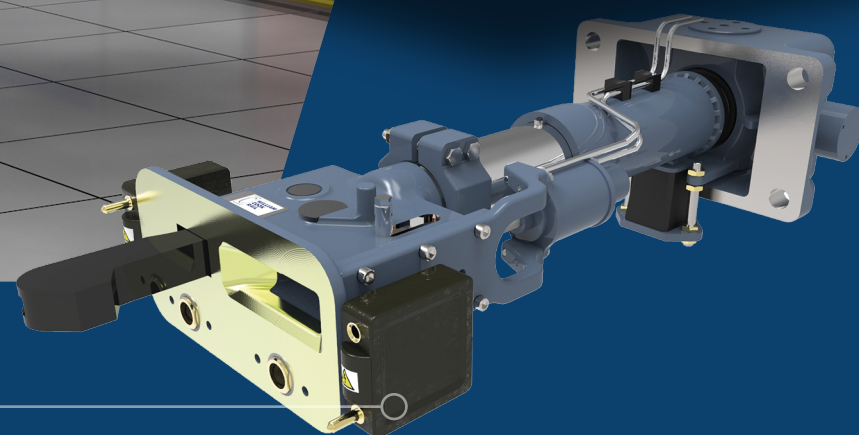
BOGIE FRAME FOR BOMBARDIER ELECTROSTAR

William Cook Rail designed the Series 3 Bogie Frame in cooperation with Bombardier Transportation. Each section is cast and machined in-house before fabrication. To date, 5,500 units have been installed on Electrostar and Turbostar trains, mainly for operators in the UK and South Africa.

BOMBARDIER SERIES 3 BOGIE FRAME







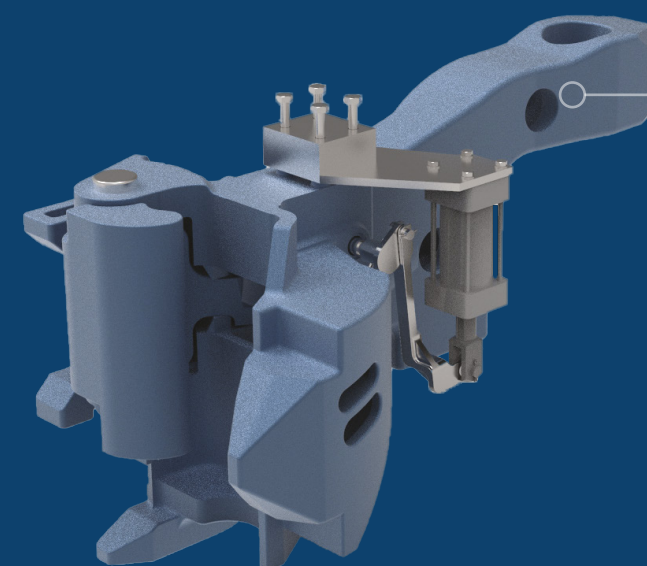
**COMPACT WEDGELOCK COUPLER  
FOR LONDON UNDERGROUND**

William Cook Rail is an Original Equipment Manufacturer of the wedgelock coupler, in service on all London Underground trains.

In 2019, Transport for London selected William Cook Rail as its SME Supplier of the Year for its continued support of London Underground and Tubelines.

# Coupler systems

William Cook Rail designs, manufactures and overhauls a wide range of couplers and drawgear for passenger and freight trains. New couplers are manufactured from scratch using William Cook Rail's in-house foundry, machining, assembly and testing facilities.

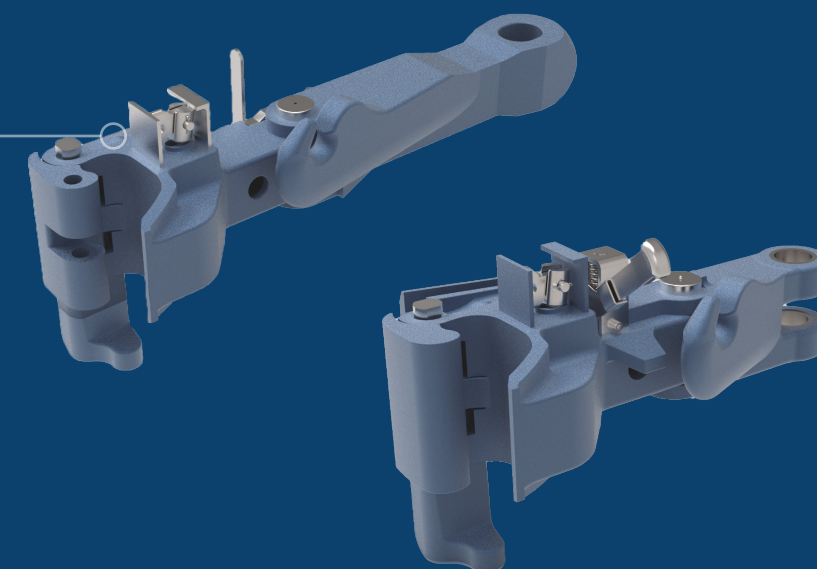


**TIGHTLOCK COUPLERS**

William Cook Rail designs, manufactures and overhauls tightlock couplers for passenger and freight trains. This proven and robust design can be adapted to different types of rolling stock, and supplied with a pneumatic coupling and uncoupling system.

**COMBINATION COUPLERS**

William Cook Rail's innovative combination coupler is compatible with both screw and buckeye couplers, permitting compatibility between different types of rolling stock. William Cook Rail has supplied over 1,000 combination couplers to date.







# Maintenance and overhaul

## for bogies and couplers

William Cook Rail's coupler and bogie overhaul workshops provide maintenance, repair and overhaul services to support train operators.

Services offered include cleaning, shotblasting, non-destructive testing, welding in accordance with EN15085, re-machining, component replacement, painting and rebuild.

William Cook Rail also offers electrical and pneumatic maintenance and repair services for ancillary equipment.

William Cook Rail has overhauled hundreds of wedgelock couplers for London Underground, and thousands of other couplers for UK train operators.

William Cook Rail also maintains buffers, drawgear and associated components.

AFTER  
REFURBISHMENT



BEFORE  
REFURBISHMENT







A1 class Pacific 'Tornado'

# Heritage rail

## Steel castings and overhaul services

Driving wheels, horn blocks, frame stays, cylinders, blast pipes and superheater headers are just a few of the cast steel components required for a steam locomotive construction or restoration project. William Cook Rail can produce these as one-offs without exceptional difficulty or extreme cost.

New build projects which William Cook Rail has supported include A1 class Pacific 'Tornado', B17 class LNER 'Spirit of Sandringham' and P2 class 'Prince of Wales'.

William Cook Rail's bogie and coupler overhaul workshops are also experienced in the refurbishment of heritage rail components such as 'Commonwealth' bogies from the 1950s.

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#### ACCREDITATIONS AND APPROVALS

- |                 |                   |
|-----------------|-------------------|
| ✓ IRIS          | ✓ EN15085         |
| ✓ RISAS         | ✓ ISO 9001: 2015  |
| ✓ RISQS         | ✓ ISO 14001: 2015 |
| ✓ Deutsche Bahn | ✓ ISO 45001:2018  |







**WILLIAM COOK RAIL**

[www.william-cook.co.uk](http://www.william-cook.co.uk)