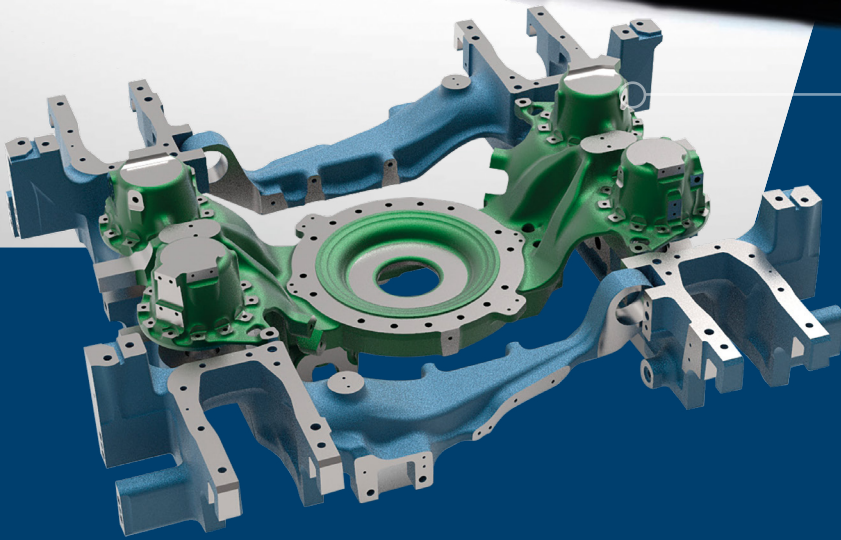




WILLIAM COOK RAIL



ALSTOM CITADIS SPIRIT
LIGHT RAIL VEHICLE (LRV)



BOLSTER AND HALF-FRAME FOR ALSTOM CITADIS SPIRIT



**COMPONENT
OF THE YEAR
FINALIST 2019**

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

In 2019, the Citadis Spirit bolster was shortlisted for the UK Cast Metals Federation Component of the Year award.

Bogie components

for trains and metros

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

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

ACCREDITATIONS AND APPROVALS

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



ALSTOM



SIEMENS



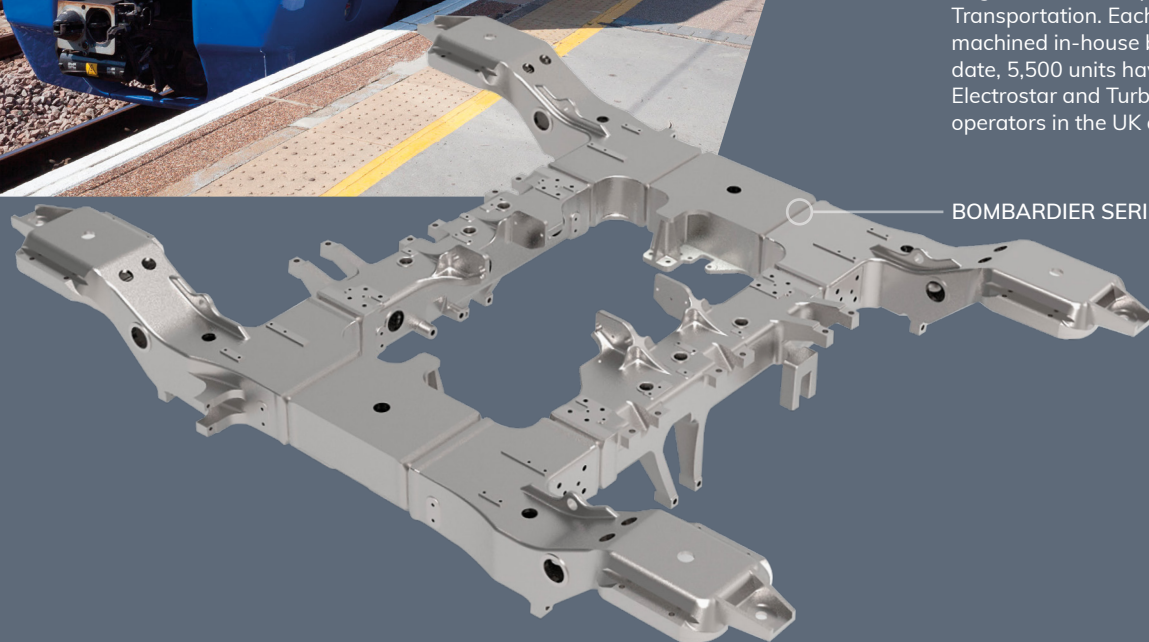
STADLER





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

WILLIAM COOK RAIL

Incorporating **CWE** | Transforming Rail Performance

Bogie maintenance, repair and overhaul

William Cook Rail's world-class design and manufacturing capabilities for safety-critical components are now complemented by CWE's dedicated maintenance, repair and overhaul services.

- Coupler, drawgear and buffer overhaul
- Bogie overhaul and repair
- Non-Destructive Testing and 3D scanning
- Repair welding in accordance with EN15085
- Cleaning, shotblasting and painting
- Freight wagon overhaul and repair
- Dedicated railway sidings
- Electrical and pneumatic overhaul and repair
- Reverse engineering and component manufacture

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