

CRRS



CAPABILITY STATEMENT





About Us

Concept Rail Services (CRS) is a premier provider of comprehensive rail infrastructure solutions, offering a wide range of services from Concept to Completion. CRS combines the proven and tested practices of the rail infrastructure industry with cutting-edge methodology and technological automation and mechatronics.

Our approach focuses on increasing the lifespan of rail assets, lowering maintenance costs, and creating a safer operational environment for everyone. By integrating the expertise of our experienced professionals with innovative solutions, we deliver exceptional value and reliable performance across all our projects.

At Concept Rail Services, our greatest asset is our team. Our people are highly skilled professionals with extensive experience in the rail industry. From engineers and project managers to technicians and support staff, our team is dedicated to delivering quality and innovation in every project. We pride ourselves on fostering a culture of collaboration, safety, and continuous learning, ensuring that our employees are equipped with the latest knowledge and skills to tackle the most challenging rail infrastructure projects.

TRUSTED INNOVATIVE CUSTOMER CENTRIC CAPABLE
CRS

Our Journey

2017

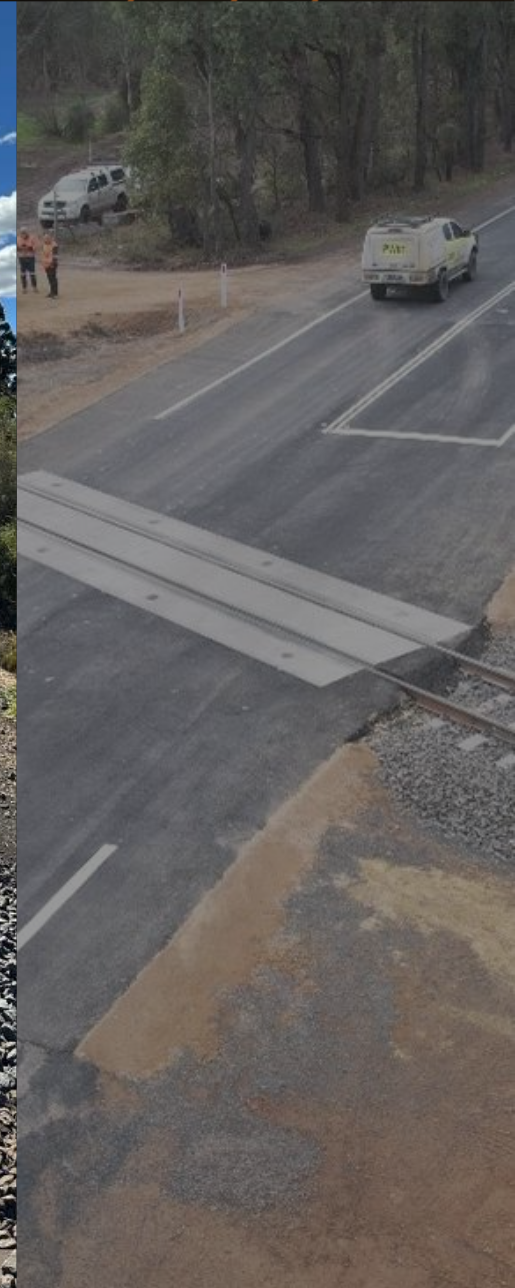
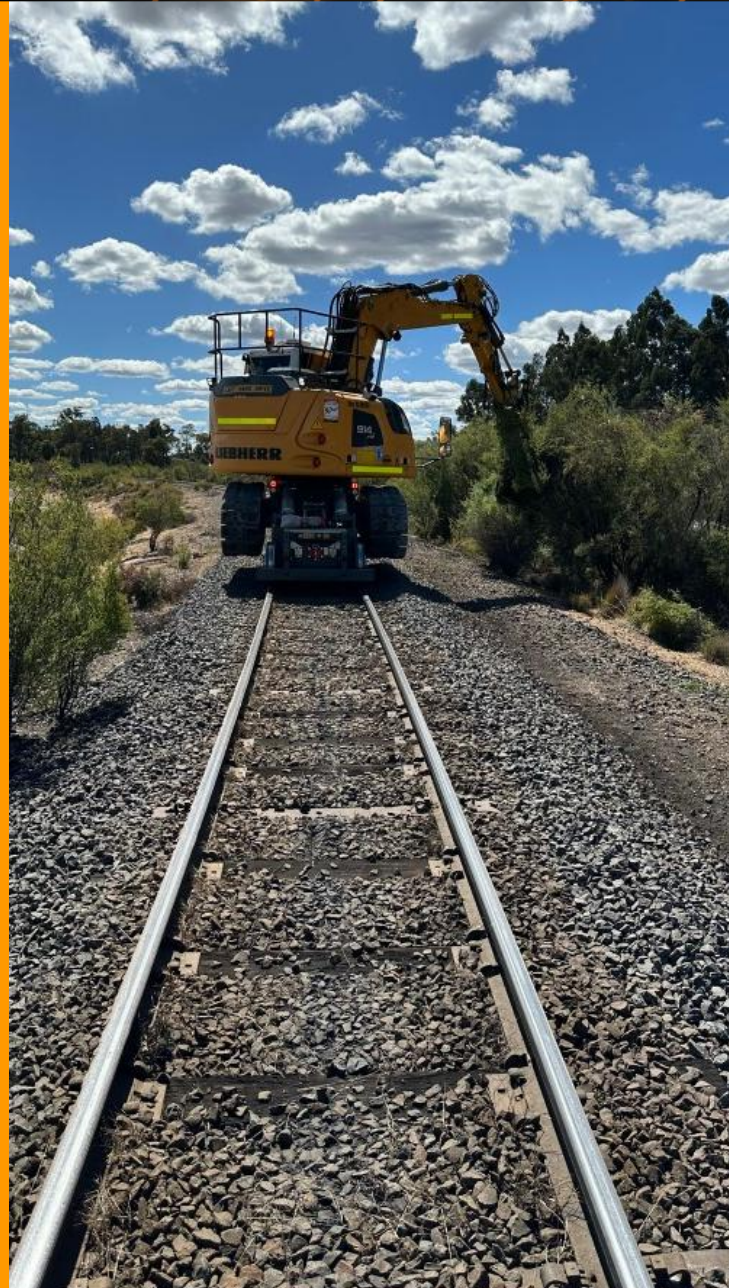
Concept Rail Services (CRS), founded by Graham Oliver, leverages decades of experience to deliver innovative rail solutions. As an independent contractor for large clients, Graham has grown CRS into a versatile small business, adept at enhancing rail infrastructure, maintenance processes, and products.

2017-2020

During this period, CRS integrated advanced technologies like CAD, 3D modelling, and FEA, enhancing its ability to handle complex projects across WA with skilled personnel.

2021-2024

CRS continued its expansion by strategically employing industry experts to enhance its service offerings and maintain leadership in rail infrastructure innovation and quality. The development of advanced automation and mechatronics systems laid the foundation for enhanced project efficiency and precision. Sustainability and digital integration became central to CRS operations, ensuring sustainable, future-proof solutions.



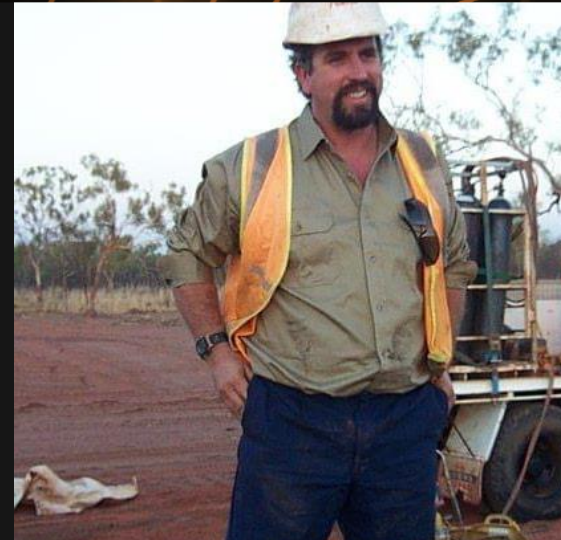
Our Leadership



Graham Oliver is the visionary Founder and Managing Director of Concept Rail Services (CRS), a leading provider of innovative rail solutions. Graham is known for his strategic vision, innovative mindset, and unwavering dedication to quality. His leadership style emphasises collaboration, continuous improvement, and a commitment to excellence.

- Visionary leader with a focus on innovative rail solutions
- Expertise in integrating advanced technologies in rail projects
- Strong advocate for sustainability and digital integration
- Proven track record of expanding and enhancing service offerings

Graham's leadership and expertise, have been instrumental in the success and growth of Concept Rail Services, making it a trusted name in the rail industry.



Graham Oliver

Founder & Managing Director



✓ **30 + Years of Rail Experience**

✓ **50 + Major Rail Project
Successfully Delivered**

✓ **150 + Minor Rail Project
Successfully Delivered**





Our Mission

Concept Rail is committed to delivering tailored, innovative solutions that prioritise safety, sustainability, and client satisfaction. We partner with clients to understand their needs, exceed expectations, and future-proof our solutions to extend the asset life of rail infrastructure. Our integrated services span from concept to maintenance across all project phases.

Our Values

Client Partnership: Building strong, collaborative relationships to meet client needs.

Innovation: Embracing cutting-edge technologies for future-proof solutions.

Safety: Maintaining the highest safety standards.

Sustainability: Committing to practices that minimize environmental impact.

Excellence: Striving for quality and outstanding results in every project.

Integrity: Conducting business with honesty and transparency.

Teamwork: Fostering a collaborative and inclusive environment.

People & Culture: Empower our people to excel through inclusion, safety, and integrity, fostering growth, and collaboration.

Our Services

At Concept Rail, we ensure the comprehensive delivery of rail infrastructure projects, from initial design and feasibility studies to construction, installation, and ongoing maintenance.

Design & Feasibility

Rail Designs (concept, detailed alignment).

Track Layout & Rail Bridge Designs

3D modelling & Finite Element Analysis.

Site Assessments, and Risk Analysis.

Technical & Economical Feasibilities

Engineering & Fabrication

Structural & Mechanical Engineering

Fabrication (Custom. Prefabrication)

Quality Control

Welding and Assembly

Project Management

Design and engineering management

Value Management

Procurement

Contractor Management

Project & Cost control

Planning & scheduling

Risk management

Construction & Installation

Rail and Road Construction

Track Installation

Civil Works

Slab Track Installation

FRP Concrete

Concrete remediation and Grouting

Maintenance & Renewal

Track maintenance

Infrastructure Renewal

Inspection & Monitoring

Emergency Repairs

Specialized Services

Automation & Mechatronics

Level Crossings

Slab Track Design

Flashbutt Welding Yards

Rail Provisioning Yards

Our Solutions & Technology

Our **patented Heavy-duty Level Crossing Modular System** features a unique sub-structure that separates vehicle loads from track loads, engineered using Finite Element Analysis (FEA) for maximum durability. This design ensures longevity and reliability under extremely heavy traffic, while addressing common issues of existing crossings to offer improved functionality and performance.

Our **Flash Butt Welding Yard Technology** features an automated production line for strict compliance with industry standards and an integrated system for secure, efficient production. It enhances safety by reducing worker exposure to hazards and improves energy efficiency through advanced energy management and passive building design, contributing to sustainability targets.



Increase

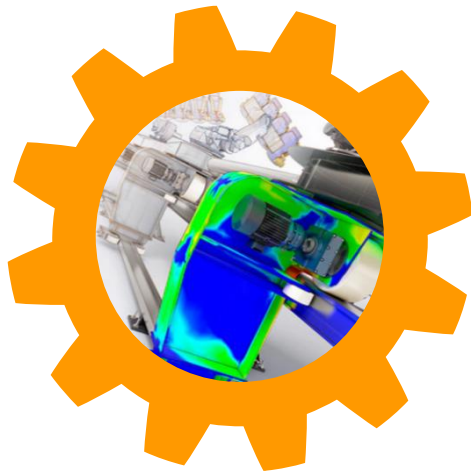
in production and operation efficiency.

Increase

In safety performance.

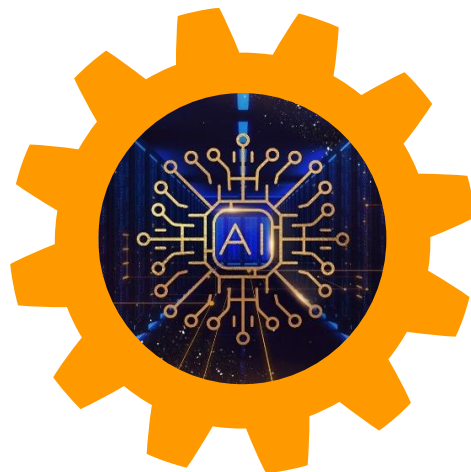
Reduction

in power usage using passive vs. traditional methods.



Advanced Design & Analysis Tools

Concept Rail Services utilises cutting-edge CAD tools and software, such as SolidWorks, for precise design and engineering of rail infrastructure components. Finite Element Analysis (FEA) is used to simulate and optimise the performance of our designs, ensuring resilience and efficiency.



Integration of IoT & AI

Concept Rail Services is at the forefront of integrating Internet of Things (IoT) and Artificial Intelligence (AI) solutions to enhance rail operations. These technologies enable real-time monitoring, predictive maintenance, and data-driven decision-making, significantly improving operational efficiency and reducing maintenance costs.



Safety & Compliance

At Concept Rail Services we integrate comprehensive risk assessments and advanced safety features into our designs, adhering to the highest rail safety standards and ISO compliance. By thinking like rail asset owners, we enhance on-site safety with automated welding processes and robust structural designs, protecting field workers and the public.



Sustainable Practices

Concept Rail Services integrates eco-friendly materials, energy-efficient equipment, renewable energy sources, and robust waste management systems to minimise their environmental footprint and promote sustainability across their operations.

OUR PROJECT PORTFOLIO

RAIL TRAIN DROP CAR PROJECT

2021-2022

FMG I Design Services I WA

SCOPE: CRS developed the concept design for rail handling from the existing rail train into a detailed engineering, design and construction basis of design for use with a remote control either in manual or program mode.

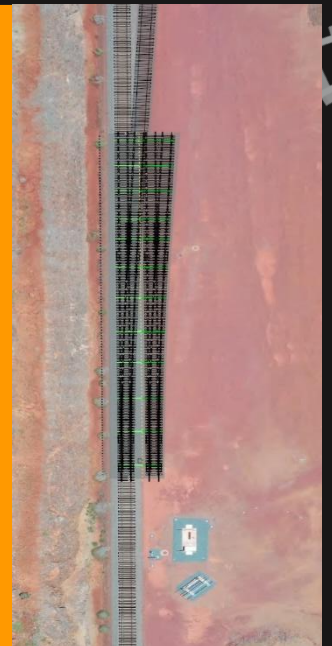


PRECISION TURNOUT INSTALLATION PROJECT

2021

FMG I Design & Construct Services I WA

SCOPE: Development of a precision roller system for accurate turnout installation. Significant increase in accuracy of turnout installations, streamlined efficiency reducing time and labour costs. Operational benefits and reduced maintenance needs.



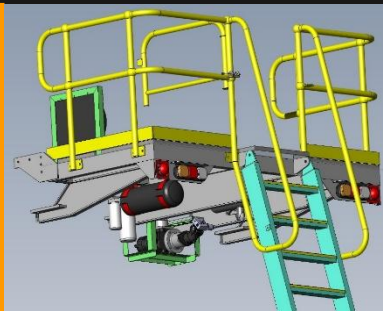
OUR PROJECT PORTFOLIO

FLASHBUTT WELDING PLATFORM PROJECT

2021

Martinus Rail | Design Services | WA

SCOPE: CRS designed and developed a flash butt platform with hydraulic air compressor & air quenching system. To improve onsite capability and improve weld quality with safety, quality and efficiency.

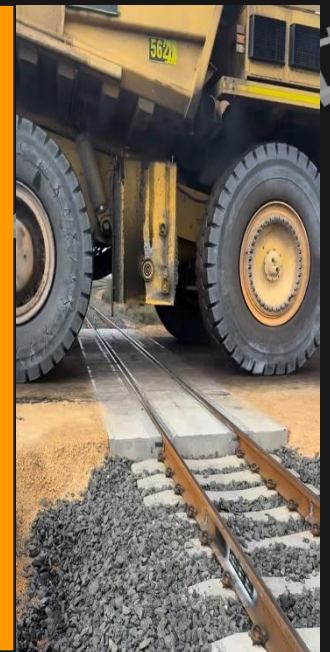


HEAVY HAUL PRECAST EMBEDDED RAIL LX PROJECT

2023-2024

Griffin Coal Design & Construct | WA

SCOPE: CRS was engaged to design, construct and install reinforced precast concrete level crossing for heavy haul road and rail intersection and associated road and rail works. Works were conducted in live operating mine site conditions.



OUR PROJECT PORTFOLIO

MRWA RAIL PRECAST LX PROJECT

2023-2024

Griffin Coal | Design & Construct | WA

SCOPE: Design, construct and install of reinforced precast concrete level crossing. For road rail intersection Shotts WA, Coalfields Highway, rail and road works in accordance with relevant MRWA standards including track signalling, resurfacing and drainage.

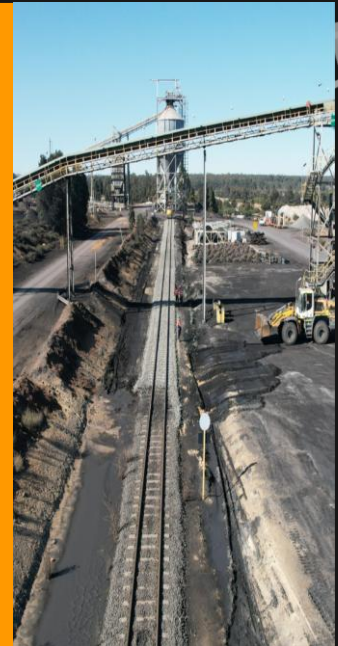


TRACK RENEWAL & MAINTENANCE

2023-2024

Griffin Coal Design & Construct | WA

SCOPE: Numerous track work projects including rerails, resleepering, asphalt level crossings, and track renewals. Track performance and safety improvements. Achieved a reduction in maintenance costs due to durable and reliable track upgrades.



OUR PROJECT PORTFOLIO

FLASHBUTT YARD PROJECT

2024

FMG | Design Services | WA

SCOPE: Concept design for flash butt welding yard, buildings, structures, electrical components, plant, and machinery. Including the introduction of robotic and automated production material handling of rail which improves production efficiency

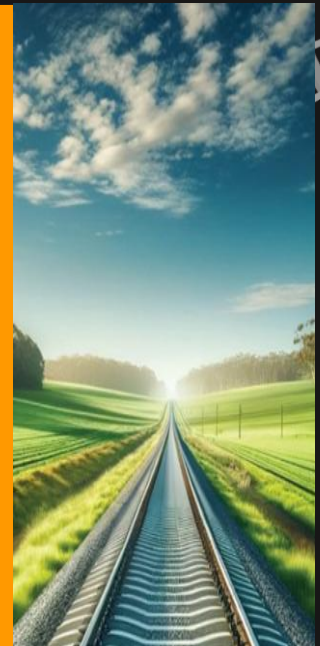


RAILWAY SPUR PROJECT

2024

Green Steel WA | Design Services | WA

SCOPE: Design 5km track extension, 5 turnouts & 1 catchpoint. For new railway spur to Green Steel WA development and basis of design documentation. CRS are continuing to work with Green Steel WA on the development approvals and technical specifications.



Why Us



Our People

Highly skilled and dedicated professionals committed to delivering excellence in every project.



Our Capability

Comprehensive services across the entire rail project lifecycle, from design to maintenance.



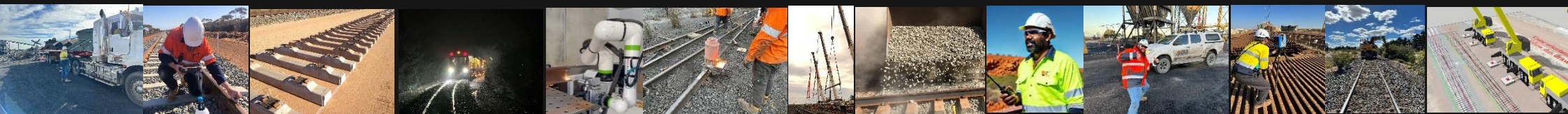
Our Experience

Decades of proven success in delivering complex and large-scale rail infrastructure projects.



Our Innovations

Cutting-edge technologies and innovative solutions that enhance efficiency and safety.



Our Timely Delivery

Reliable project management ensuring on-time and within-budget completion.



Our Value for Money

Cost-effective solutions without compromising on quality or safety.



Our Partnerships

Strong collaborative relationships with clients and stakeholders for seamless project execution.



Our Specialised Services

Tailored solutions addressing unique challenges in rail infrastructure and operations.