

Rail maintenance



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DT Infrastructure (DTI) is a trusted partner in rail maintenance, operating on critical rail networks across Australia. As a specialist multi-disciplinary engineering, construction and maintenance company, we provide industry leading expertise and services for maintaining and enhancing Australia's rail networks.

Our experience spans metropolitan and regional rail systems, where we consistently deliver safe, reliable and efficient outcomes. With dedicated teams, advanced equipment and a focus on innovation, safety and quality, we tailor our services to suit the requirements of a wide range of maintenance and project needs. Using both proactive and reactive services to mitigate safety and efficiency risks and rectify any defects that may occur, we can sustain the performance and integrity of our clients' most critical infrastructure.

Local knowledge, national reach

Every railway is different and each client requires a tailored approach. At DTI's core are focused leaders who understand the unique challenges of their regions. By combining this local insight with the scale and resources of a national provider,

we provide flexible and fit-for-purpose solutions that adapt to our clients' evolving needs. Our long-term relationships across the sector are built on trust, collaboration and consistent delivery, ensuring we remain a partner of choice across Australia.





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We provide comprehensive maintenance services across the full rail asset lifecycle. Our expert teams deliver preventative and corrective solutions to optimise safety, reliability and performance, supported by rigorous safety standards and technical excellence.

Our services include:

- track inspection, assessment and reporting
- emergency response, recovery and repairs
- re-railing and major or minor renewals
- overhead line electrification (OHLE) maintenance and construction
- signalling design, installation, maintenance and support
- safety assurance and systems engineering
- asset management and lifecycle optimisation
- asset planning, engineering and delivery support.



Major and minor project delivery

No job is too small or big. Our dedicated rail team have the skills, knowledge and resources to deliver works safely and to a high standard with a focus on ensuring optimal outcomes for our clients.

Our project capabilities include:

- track renewals, upgrades, TSR removal
- signalling and communication system improvements
- major station redevelopments and refurbishments
- level crossing upgrades and grade separation
- formation repair
- overhead line renewals and traction power solutions
- complex signalling system overhauls and design.



Engineering at our core

Engineering excellence is at the centre of our rail maintenance capability. Our in-house experts combine Australian experience with international innovation from our parent company, Gamuda Berhad, to provide solutions for even the most complex rail systems. Leveraging technologies such as predictive maintenance and data analytics, we enhance safety, efficiency and asset longevity. By integrating advanced engineering with practical delivery expertise, we reduce downtime, improve operational performance and support sustainable rail systems for the future.



National rail plant

Our large fleet of specialist rail equipment means our clients benefit from a more efficient and cost-effective delivery model. This is backed by a highly skilled team of technicians with in-depth knowledge of rail plant products and industry practices both across Australia and internationally.

To support projects nationwide, we maintain strategically located maintenance and plant equipment facilities in:

- Maddingley, VIC
- Henderson, WA
- Pilbara region, WA
- Spreyton, TAS

Our ONRSR accredited fleet covers the full spectrum of rail plant capabilities, including:

- resurfacing plant
- plain track and turnout renewal
- ballast cleaning and distribution
- flash butt welding
- OHW Hi-Rail crane trucks
- Hi-Rail EWP'S
- Hi-Rail excavators
- Kirow Tracklayer
- TRT units
- transportation, removal and installation
- sleeper renewal.

Resurfacing: tamping, ballast regulating

We deliver high-quality track resurfacing to restore and maintain safe geometry, stability, and ride quality. By combining modern tamping and ballast regulating technology with skilled operators, we extend track life and ensure reliable network performance.

Plain track and turnout renewal

Our team provides efficient installation and maintenance of plain track and turnouts, using specialist methods and advanced equipment to meet the unique challenges of both metropolitan and regional rail environments. Our capability ensures safe, reliable, and timely renewals, even in constrained or remote locations.

Flash butt welding: mobile and hi-rail

With a proven dataset of more than 10,000 welds, we deliver high-quality flash butt welding services to support strong, durable rail connections across a range of environments. Our expertise ensures weld longevity, efficiency and performance that outlasts conventional methods. Our mobile and excavator-mounted solutions provide flexibility for mainline, yard and off-track works, minimising disruption and maximising productivity.

Transportation, removal and installation

Our transportation, removal and installation capabilities ensure rail and associated components are moved and installed safely, efficiently and with minimal disruption, even under live overhead line equipment. With proven reliability, our systems deliver flexible solutions for a wide range of rail environments.

Sleeper renewal: tripp sleeper, tie inserter, extractor, sleeper changing

We provide efficient and safe sleeper renewal to maintain track stability and load transfer from rails to ballast. Our machines deliver high-speed extraction and insertion of both timber and concrete sleepers, ensuring minimal disruption and precise placement.

