# Heavy Haul Wheels High Hardness Micro Alloy Wheels

**Railway Rolling Stock** 

Engineered

MCLYCOP

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### Heavy Haul Wheels Overview

Comsteel have been in Heavy Haul from the beginning. Since 1918, Comsteel has been developing and innovating new products to meet the needs of the Australian Rail & Heavy Haul Industry. We have been there for every step of the development of the world's heaviest railways achieving 40+ tonne axle loads.

#### The supplier of heavy haul wheel solutions

- Significantly increased wheel performance with high hardness Micro Alloy wheels
- Dramatic decrease in critical wheel failures
- Significant improvements in material macro cleanliness <1mm equivalent FLH compared to AAR 1.6mm
- Improved fracture toughness
- Improved resistance to spalling.



#### The local partner to the Australian heavy haul industry

Comsteel understand what it takes in Steelmaking and design to arrive at the quality required for the demanding Heavy Haul applications.

Minimising wear and maximising performance with high hardness and improved fracture toughness. Comsteel continues to research and develop products for Axle loads beyond 40 tonne to meet and exceed the demands of Heavy Haul into the future.

Micro Alloy, clean steel technologies combine with tailored heat treatment to produce the right solution for safe and reliable Heavy Haul operations.

#### Customers

BHP Billiton, Fortescue Metals Group, Rio Tinto - Pilbara Iron, Roy Hill

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Brinell Hardness BHN 388 MAX 363 MAX 341 MIN 321 MIN CLASS C MICRO C Fracture Toughness MPa\*m 1/2 47 41 CLASS C MICRO C Yield Strength MPa 855 MPa 760 MPa CLASS C MICRO C Tensile Strength MPa 1240 MPa 1150 MPa CLASS C MICRO C







If you're interested in exploring Molycop's products and services, we're here to help.



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