

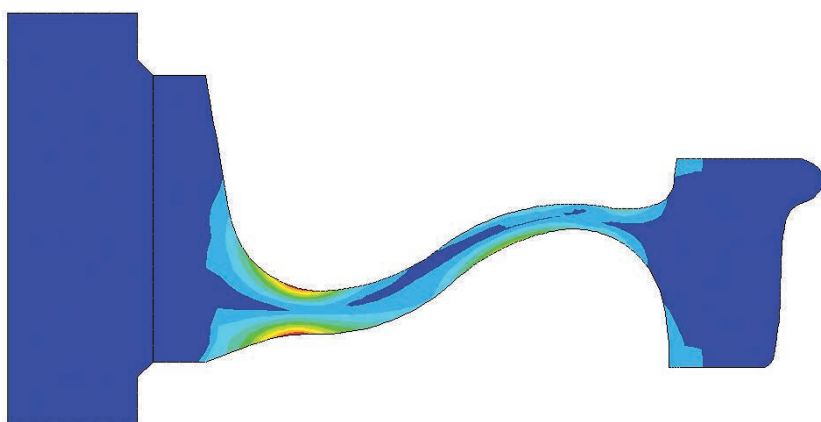
# VHD™ Valdunes Heavy Duty



INCREASED  
PAYLOAD

QUALITY  
AND SAFETY

WHEEL LIFE  
IMPROVEMENT



- **More than 30 years experience** in heavy haul transportation.
- **Partner in the TTCI (AAR-USA)** high performance wheel. **Programs 1 and 2 (HPW1-HPW2).**

- **Wheels have been used for more than 5 years with a good performance.** Experience has been used to participate in the new HPW2 program starting in 2017.

**Tailor-made solutions** from our R&D department adapted to your specific requirements. Hardness and steel grades designed according to your applications.

**Surpass AAR M107/208 requirements** (Class C mod 2, Class C mod 3 and Class D solutions).

**Very high cleanliness** and specially developed steel grades (with targeted micro-alloying).

**Optimized wheel and wheelset** geometries to improve life, reduce wear and weight and improve safety.

■ **MORE THAN 30 YEARS EXPERIENCE**  
IN HEAVY HAUL



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# VHD™ Valdunes Heavy Duty



## INCREASED PAYLOAD

Improved wheelset design can help you **increase both the axle load up to 50 tonnes and wagon payload** by reducing the weight of the wheelset.

## WHEEL LIFE IMPROVEMENT

By working closely with our customers **we have been able to increase wheel life up to an average 1.7 million km.**

## WORLDWIDE EXPERIENCE

Our products are currently in service throughout the world, **giving us a wide experience of all extreme conditions: - 40°C to + 45°C, desert, arctic, tropical, mountain, steep gradients...**

## QUALITY AND SAFETY

Special steels, specific heat treatments and optimised wheelset design not only enhance wheel life and increase payloads **but also significantly improve railroad safety.**

## OUR MAIN REFERENCES

Australia: BHP Iron Ore, FMG, Rio Tinto - Brazil: MRS Logistica, Vale - Canada: Arcelor Mittal Mines, QNSL, Wabush Mines - Gabon: Comilog - Mauritania: SNIM - Saudi Arabia: SAR - South Africa: Transnet - Sweden: LKAB...



OUR BUSINESS SPIRIT  
: INNOVATION & PERFORMANCE

