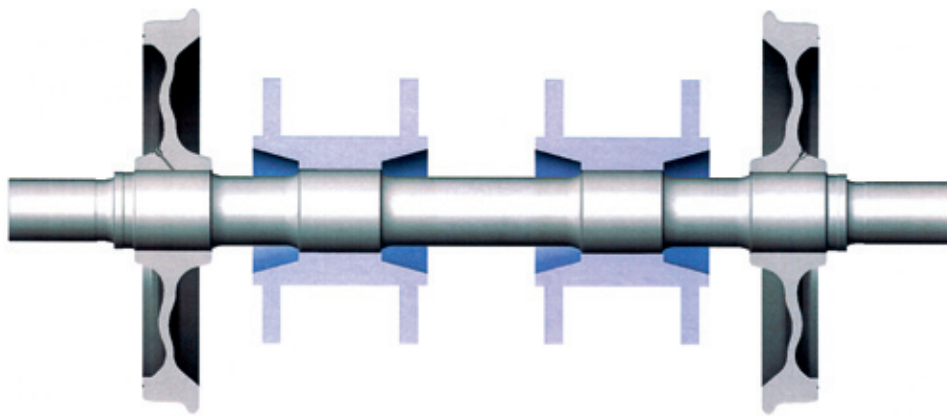


VHiS™

Valdunes High Speed™

HIGH SPEED TRAIN



OVER 360 KM/H

HIGH RELIABILITY
AND SAFETY

PROVEN PROCESS

Unique service record

on main high speed train lines
(from 250 km/h up to 360 km/h).


Control of the steel shop process
(steel cleanliness) and automatic
NDT inspection (\varnothing 1 mm).

Noise reduction solutions
from 200 to 360 km/h.

Decreased maintenance
downtime through increased
wheel life (1.5 to 2.5 Mkm)
and quality improvements.

EN 13262 and TSI
compliance. CE approval.



 VHiS™ : the high speed wheel



GHH-VALDUNES

www.ghh-valdunes.com

VHiS™

Valdunes High Speed™

HIGH SPEED TRAIN



BACKGROUND

As early as 1975 we were developing **new metallurgy**, steel cleanliness and quality assurance procedures to overcome problems of rim shatter defects and of tread on the first high speed trains in France. We have built on this experience to become the **world leader in high speed train wheel manufacturing**.

SOLUTIONS

- Homogenous continuous casting process.
- High cleanliness steel grade.
- Homogenous heat-treatment and machining to rectify wheel run-out.
- NDT control and steel cleanliness inspection.

WORLDWIDE EXPERIENCE

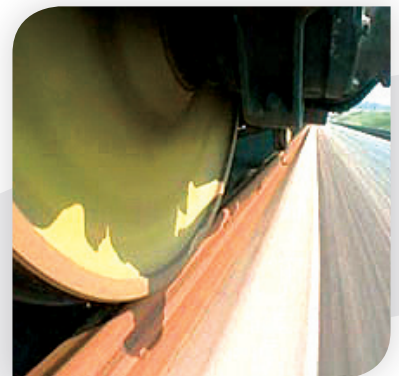
More than 25 years of knowledge and experience with more than 120'000 VHiS produced **for all main projects** (TGV, ICE, Talgo350, Acela).

BENEFITS

- Improved safety.
- Increased wheel life.
- Reduced downtime.
- Reduced life cycle cost.
- Reduced track wear.

OUR MAIN REFERENCES

Europe: TGV Duplex, PSE, Est, Nord, Thalys, Eurostar, ICE, AVE - Asia: KNR (Korea), MOR (China) - North America: Amtrak...



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