

Designed with you in mind

David Brown Santasalo delivers demanding designs, such as the direct drive of planetary gear units with a high performance torque motor. The geometric connection dimensions on the output are designed to match the individual conditions of your machine.

With extremely high quality standards, we are able to fulfil the requirements of certification agencies to ensure traceability of parts and to document quality characteristics in accordance with your specific requirements.

Aftermarket expertise

Using our extensive engineering expertise, David Brown Santasalo can re-engineer any gearbox to upgrade performance and increase availability. We are able to design and manufacture new, upgraded parts for any brand or model, including Lohmann, Kissling, Flender, SEW and Sumitomo.

Upgrading an older gearbox not only reduces the risk of failure but can also deliver significant performance improvements.

Key features

- Improved gearbox performance
- Establish root cause of failure and engineer performance improvements
- Rework older gearbox models to current and future standards
- Reconfiguration of your gearbox to engineer out any original design flaws
- Gearbox upgrades to suit a change in your process, duty cycle or working environment
- ISO 9001 accredited facilities





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GearWatch Condition
Monitoring:



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Cement
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Mining & minerals
Oil & gas
Panelboard
Power generation
Rail
Rubber
Ski
Sugar
Water & wastewater

Ski Industry Applications

Custom designed gear systems for
Cable Railway and Ski Lifts

David Brown Santasalo has longstanding gearing expertise in designing, manufacturing and servicing gearboxes in critical ski lift applications.

Drawing on 285 years of combined engineering heritage, we deliver gear systems for modern gondola style ski lifts as well as chair lifts and ski tows.

Our performance driven technology embodies the design of our gearboxes to ensure they withstand the most extreme environments, -40 to +40 degrees.



Bevel-Helical Planetary Gears

David Brown Santasalo's Bevel-Helical Planetary Gear is custom designed with multiple gear types available, as well as with single or dual adjustable input stages, as required.

The key features David Brown Santasalo gearboxes deliver include:

- Customer specific designs
- High reliability
- Low noise and vibration
- Performance in ambient temperatures of -40°C to +40°C
- Low weight
- Easy service and maintenance
- Optional features such as recoil stop, brake or auxiliary drives



Technical Data	
Drive:	Bevel-Helical Planetary Gear Box
Gear Box Size:	P3K 081 / P3K 091 / P3K 111
Motor Power:	max. 600 KW
Output speed n2:	18 rpm – 23 rpm
Nominal output torque:	max. 300 KNm



Rope ways designed around you

In addition, David Brown Santasalo delivers rope way gearboxes designed to our customers' exact operating requirements. These Bevel-Planetary designs have two input shafts for main and auxiliary drive, as well as an integrated back stop system.

Technical Data	
Drive:	Bevel-Planetary Gear Box
Gear Box Size:	P3K
Motor Power:	1.558 KW
Output speed n2:	27,5 rpm
Nominal output torque:	572 KNm



Proactive asset management

To help keep repair and maintenance costs to a minimum, we provide asset management services that proactively look after your gearbox and ensure maximum operational capacity. Catching potential problems early can prevent gearbox failure and with our asset management services, we work with you to develop a regular maintenance regime.

Key features

- Services available for industrial gearboxes in any industry or application
- Gearbox problems identified and solved before failure occurs
- Maximises your equipment's availability and minimises total cost of ownership throughout the life of your gearbox
- GearWatch remote condition monitoring service

Designed to withstand strong ambient conditions from -40°C to +40°C, our gearboxes are renowned for their reliability