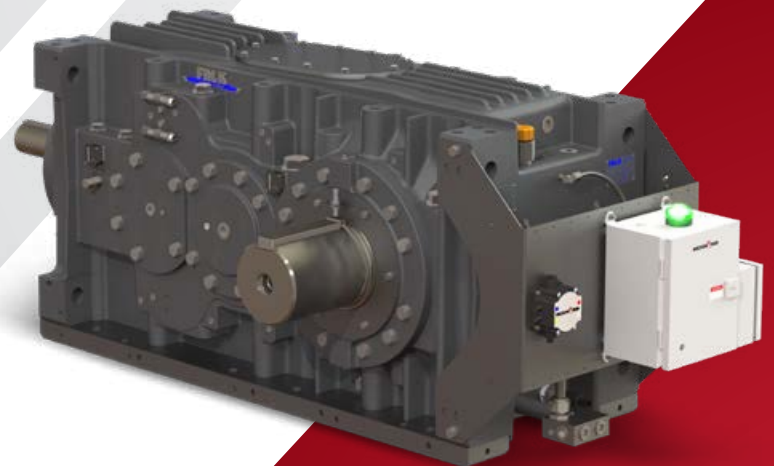




OUR INNOVATION MOVES

Smart Condition Monitoring System

FOR FALK A-PLUS, Y-UNIT,
AND V-CLASS GEAR DRIVES



Download the most up-to-date version
at rexnord.com/documentation



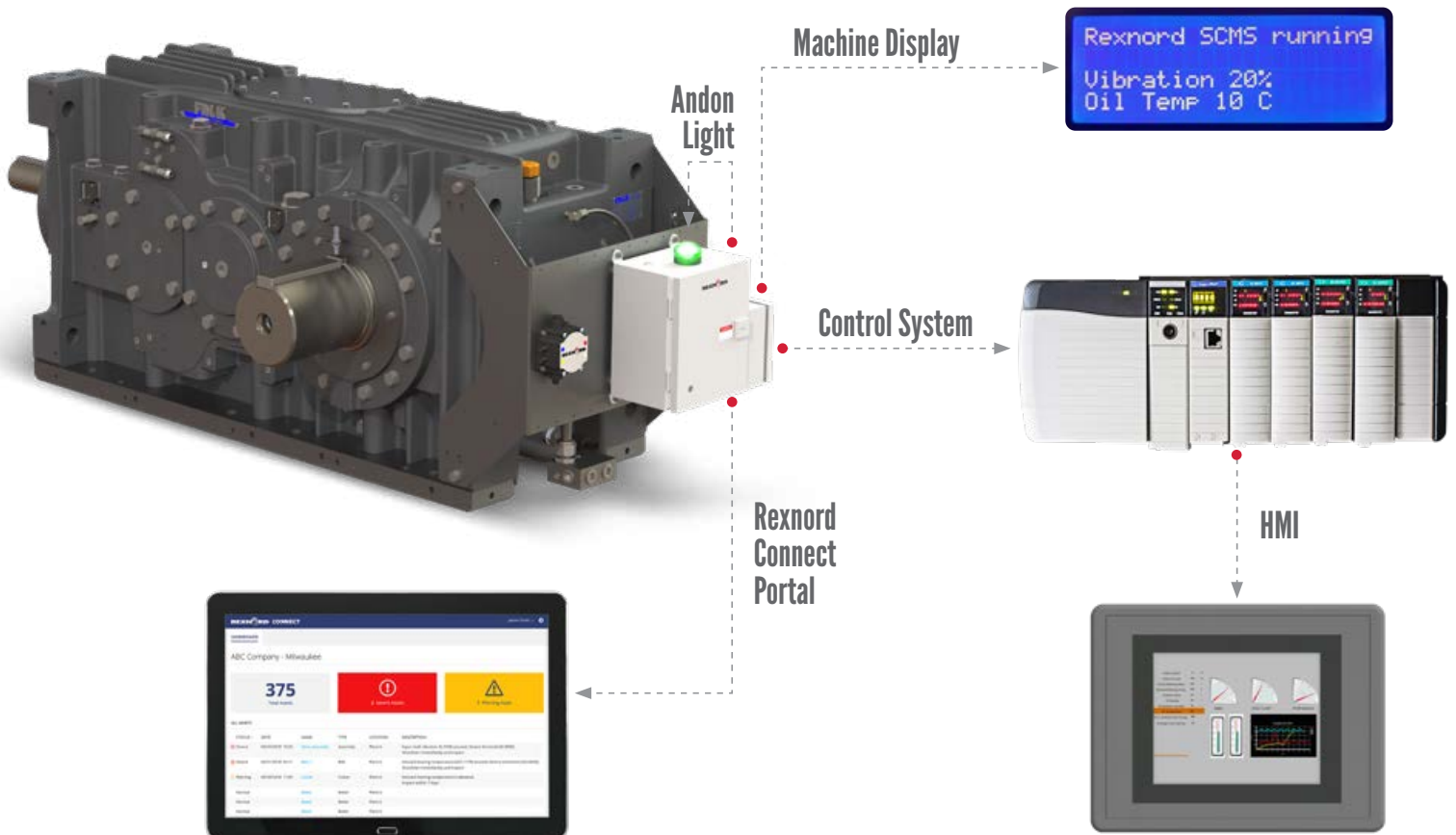
» Add smart monitoring, increase productivity

Finally, a scalable system to address YOUR current priorities and budget, while extending the life of your assets. Our Smart Condition Monitoring System uses proprietary algorithms to continuously compare sensor data against models of healthy drive operating conditions. Under abnormal conditions, contextual alerts are sent to a local visual indicator, your control system and the Rexnord Connect Portal so your team knows what action to take and when.

Improve Productivity – Eliminate unnecessary maintenance costs such as scheduled route-based contracts.

Increase Uptime – Early warning system to avoid unplanned downtime, for example “water in oil” detection.

Enhance Safety – Allow personnel to see the health of your equipment from a distance rather than trying to reach difficult locations.



SCALABLE SOLUTIONS

The Smart Condition Monitoring System offers **four easy-to-deploy levels of monitoring**, available on a sliding scale to match manufacturers' priorities and budgets. These levels range from continuous monitoring of overall gear drive vibration and temperature, all the way up to comprehensive cloud-based notification of abnormalities. All four models communicate gearbox condition status through:

- Included Andon light
- Industrial communications card supporting EtherNet/IP™, Modbus® TCP/IP and PROFINET®
- Rexnord Connect Portal (1150 only)
- Optional local display



MODEL 1010 – Monitors vibration and temperature, improving uptime by detecting potential issues before they shut down critical processes.

MODEL 1020 – Adds monitoring of oil quality, level, temperature and water content, enhancing productivity and safety by reducing the need for oil sampling and manual inspections, and freeing maintenance personnel for other critical tasks.

MODEL 1050 – Provides comprehensive condition monitoring and reporting, including vibration diagnostics, operating speed and motor current—further enhancing uptime, productivity and safety.

MODEL 1150 – Connects to the Rexnord cloud-based portal for anytime/anywhere access to asset condition insights, valuable analytics, and email alerts at enterprise scale. Real-time analytics ensure your team knows what action to take and when.

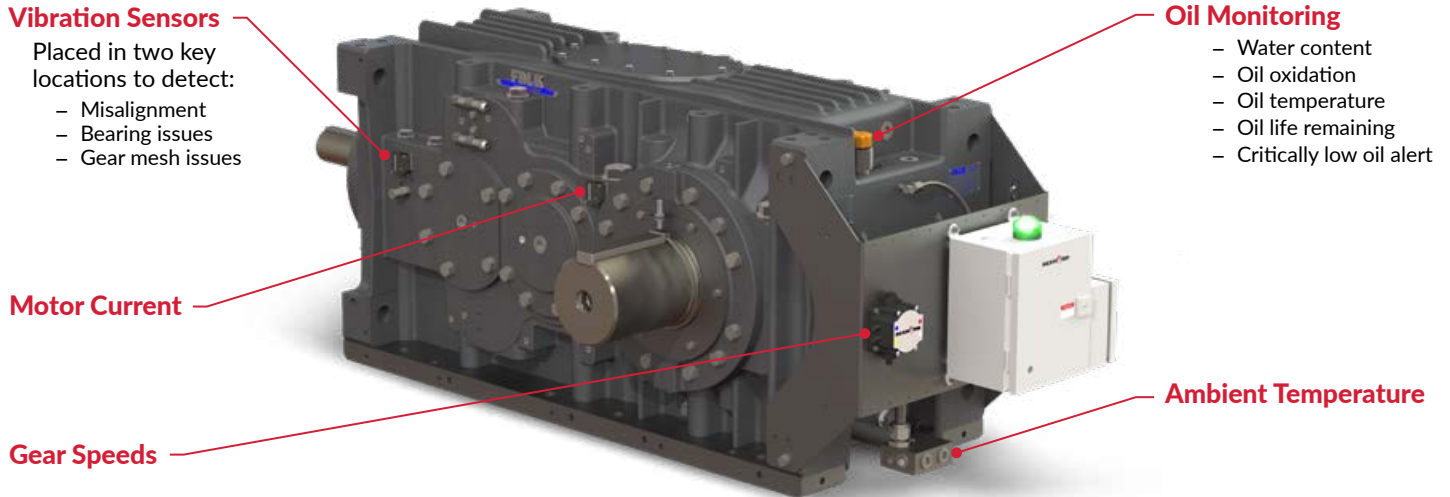
MODEL COMPARISON

Smart Condition Monitoring System – Series 1000	Model 1010	Model 1020	Model 1050	Model 1150
Measurements / Alarms				
Oil – relative humidity, oxidation, aging, life remaining, oil level	–	Y	Y	Y
Oil sump temperature	Y	Y	Y	Y
Vibration	Y*	–	Y	Y
Speed	–	Y	Y	Y
Motor current	–	–	Y	Y
Notifications / Communications				
Local status indication	Y	Y	Y	Y
LAN connectivity to PLC/DCS	Y	Y	Y	Y
Enterprise-wide data access via Rexnord Connect Portal <ul style="list-style-type: none"> • System updates • System monitoring • Email notifications 	–	–	–	Y

*Overall vibration

MEASUREMENTS

With the Smart Condition Monitoring System for Falk Gear Drives, **get real-time, easy-to-understand alerts** to avoid issues — **at a fraction of the cost of unplanned downtime.**



NOTIFICATIONS

Display Name	Units	Action for Warning Alert	Action for Severe Alert
Oil Quality Alert	Hours	Schedule oil change soon	Shut down — change oil immediately
Oil Relative Humidity Alert	0-100%	Dewater or change oil/replace breather (oil relative humidity high)	Shut down — dewater or change oil/replace breather before operating (excessive oil relative humidity)
Severe Low Oil Alert	Binary (on/off)	N/A	Shut down — add oil immediately
Sump Temp Alert	F or C	Inspect/review operation — elevated oil temperature	Shut down — excessive oil temperature
Overall Vibration Alert	%	Inspect — elevated gearbox vibration	Shut down — excessive gearbox vibration, inspect/repair
Gear Mesh Vibration Alert	%	Gear mesh likely source of elevated vibration; inspect and repair if needed	Shut down and inspect gear mesh; repair if needed
Shaft Alignment Alert	%	Shaft alignment likely source of elevated vibration; inspect and repair if needed	Shut down and inspect shaft alignment; repair if needed
Bearing Vibration Alert	%	Bearing likely source of elevated vibration; inspect and repair if needed	Shut down and inspect bearing; repair if needed
Loss of Connection to the Cloud Alert	N/A	Cloud Connection Lost — inspect for Ethernet or cellular connectivity; if no problem found, call for service	N/A



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866-REXNORD/866-739-6673 (Within the U.S.) or 414-643-2366 (Outside the U.S.)



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