

Smart technology with endurance for mining

From purpose-built motors and drives to full machine automation

FLANDERS has developed significant innovations for surface and underground mining machines based on insights from seven decades of field service and motor repair for major mines around the world.

FLANDERS MINING TECHNOLOGY WILL HELP YOUR MACHINES DO MORE

By upgrading conventional systems to FLANDERS technology, we've achieved these results:



30%

HIGHER SPEEDS FOR HAUL TRUCKS

With FREEDOM® controls plus upgrades to FLANDERS AC traction motors and drives



~12%

EFFICIENCY GAINS FOR DRAGLINES

With DC to AC dragline retrofits using FREEDOM controls and our excavator duty motors and drives



10%

PRODUCTIVITY GAINS FOR SHOVELS

With adaptive controls + superior FLANDERS motors



Up to 30%

PRODUCTIVITY GAINS FOR DRILLS

With FREEDOM for Drills – ARDVARC drill automation compared to manual drilling



Power Systems

DESIGNED TO EXCEL IN SEVERE MINING CONDITIONS

Rugged FLANDERS power systems for shovels, haul trucks, drills, draglines, bucket wheel excavators, and other mining machines out-perform and outlast conventional systems:

- Drop-in excavator-duty DC and AC motors
- AC and DC drives; analog and digital
- Alternators, generators, and MG sets
- Transformers, switchgear, harmonic filters, and more

MOTORS AND DRIVES FOR AUXILIARY SYSTEMS

For auxiliary machines, such as high-powered ventilation fans, conveyors, hoists, cranes, and submersible pumps, FLANDERS distributes – and services – a wide range of motors, drives, and components from leading brands.



Control Systems

LIBERATE YOUR MINING MACHINES

A universal controls platform specifically for mining machines, FREEDOM enables you to upgrade draglines from DC to AC, fully automate blasthole drills, upgrade shovels to higher performance motors and adaptive controls, and turn DC haul trucks into faster AC machines.

GET THE EARLY INTEL YOU NEED FOR PREDICTIVE MAINTENANCE

An intelligent, inspection-based, variable condition monitoring platform for draglines, INVISION™ alerts your team to upcoming maintenance needs so they can plan better, troubleshoot more easily, and keep downtime to an absolute minimum.



Services

FLANDERS offers comprehensive field and shop services worldwide, new technology R&D, and custom manufacturing for every type of electric machine or electric rotating system used in mining.

- 24/7 troubleshooting and emergency repairs
- Fast motor exchanges
- Repairs, rebuilds, upgrades – and storage – of motors, drives, MG sets, generators, and alternators
- DC to AC machine retrofits
- Automation
- Power distribution optimization
- Predictive maintenance and onsite rewinding, cryogenic cleaning, and laser alignment
- Engineering and custom manufacturing