

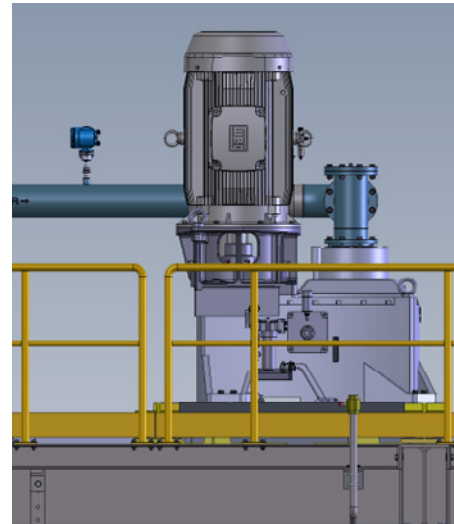
Metso

Flotation services

Flotation drive unit upgrade



Improve energy efficiency, power transmission for high-capacity cells, and reduce maintenance requirements as well as overall lifetime equipment costs, with a drive unit upgrade.



Replacing the belt-driven drive units in your higher-capacity cells with a Metso eDrive direct-drive gearboxes will improve equipment efficiency and make maintenance easier, as well as reducing the overall lifetime costs.

As ore grades decline, the need for higher-capacity flotation cells (with volumes of 70 m³ or more) continually increases, in order to process a larger amount of ore to achieve the same level of metal output.

Cells with large volumes require a relatively large mixing mechanism, which in turn requires more torque from the drive unit. The increased torques cause traditional v-Belt drives to become less effective as they consume more power and greater wear of critical parts. They also have inferior power transmission compared to gearbox-driven drives.

All new Metso high-capacity flotation cells are supplied with Metso e-Drive units. Replacing the belt-driven drive units in higher-capacity cells with the Metso eDrive direct-drive gearboxes will improve equipment efficiency, makes maintenance easier, and reduces the overall lifetime costs.

Delivery scope

- 4-pole electric motor
- Air feed, gearbox, and drive rack
- Bearing-unit temperature sensors
- Oil temperature and pressure sensors
- Installation and start-up services

Benefits

- Tailor made gearbox for each specific application
- Smaller environmental footprint
- Low maintenance requirements
- Long service life of critical wear parts
- Higher availability
- Improved energy efficiency and power transmission

FREQUENTLY ASKED QUESTIONS

| QUESTION | ANSWER |
|---|--|
| Why should I replace my v-Belt drive units with the Metso eDrive? | Upgrading to an e-Drive unit brings substantial benefits ranging from significantly lower power consumption, reduced maintenance costs, improved availability and extended drive lifetime. |
| How regularly does the Metso eD-rive need to be maintained? | Under normal operating conditions, an e-Drive unit requires an oil change every one to three years, depending on the lubricant you choose. |
| Does the Metso e-Drive require a specific type of lubricant? | We provide a list of compatible lubricants that will ensure reliable operation of your e-Drive units. |
| Is there any risk of lubricants leaking into my process? | Our strict quality control procedures, from manufacturing to installation and commissioning, minimize the risk of equipment malfunctions. Oil leaks are therefore not a major concern, provided the correct operation of your equipment. In the unlikely event of an oil leak, the drive's rack is designed to contain all the lubricant from the drive and protect your process from contamination. |
| Will upgrading to an Metso e-Drive affect my compliance with environmental regulations? | The Metso e-Drive complies with all environmental regulations relating to noise levels and lubricant usage. |

