Who we are:
Since 1921, Komatsu has stood for unrivaled quality and reliability. Our enduring global success stems from the principles of our founder, Meitaro Takeuchi, who envisioned a sustainable future built through globalization, quality first, technology innovation and talent development. These defining principles, along with an emphasis on safety and compliance, remain part of our Komatsu DNA. With each brand and company added to the Komatsu family, we expand our capabilities, leveraging our global teams to push beyond what can be done and create what can be imagined. We believe partnering directly with our stakeholders and being in the workplace (gemba) is the best way to gain insight into their challenges, win their trust and develop cutting-edge solutions. 

What we do:
Komatsu is an indispensable partner to the mining, forestry, industrial and construction industries that maximizes value for customers through innovative solutions. With a full line of products supported by our advanced IoT technologies and global service network, we help customers safely and sustainably optimize their operations. Our Komatsu, P&H, Joy and Montabert equipment and services are used to extract fundamental minerals and develop modern infrastructure.

All-electric winch technology dramatically simplifies and improves take-up capabilities when compared to traditional hydraulic cylinder systems with their array of ropes, clamps, thimbles and an assortment of sheaves. Our state-of-the-art design consists of an AC electric motor, electric brake, planetary reducer and a grooved winch drum. All hydraulics are eliminated. All-electric winch technology uses a simple, rotating drum and single rope arrangement to maintain constant tension and improve take-up reaction time. The Joy all-electric winch is easy to install and simple to operate. We have incorporated progressive engineering, dependability and ruggedness into our latest winch design.

- The gearbox is internal to the winch drum for a more compact design, reduced maintenance and longer life for the equipment
- Winches are shipped mounted, aligned and ready for installation, reducing set-up time
- The winch brake is located on the high-speed input side (rear of motor) allowing for a smaller unit and ease of maintenance
- More line pull with less horsepower equals savings in operational costs, compared to conventional hydraulic take-up systems

Properly equipped all-electric winches can maintain precise tension control by achieving full torque of an AC motor with zero shaft RPM. With single, direct line pull ranging from 30,000 lbf – 150,000 lbf, the Joy constant tension winch system is capable of satisfying a wide range of conveyor take-up tension requirements.

Winch Controls
All-electric winch controls are designed to maintain precise belt tension and improve take-up reaction times when compared to traditional hydraulic cylinder systems.

Control package options are based on installation requirements and customer preference. Programmable Logic Controller (PLC) and Human Machine Interface (HMI) are available. Different levels of communication protocol are also offered to be compatible with your current communication requirements.

Pony Winches
The Pony version of our full-size winch is designed for conveyor systems that require lower take-up tensions. With line pull ranging from 20,000 lbf – 30,000 lbf, Pony winches are designed to provide the efficiency, reliability, and savings of all-electric winch technology, but in a smaller package.

With the Pony winch, there is no need to grease and maintain sheaves, change hydraulic filters, replace hydraulic fluids or even perform simple hydraulic maintenance. Plus, the Pony winch makes tension adjustments quick and easy.

Pony winches are available with the same control options as our full-size versions, including enhanced intelligence and communication capabilities.

Consult your Komatsu representative to determine the right control options for your budget and operating requirements.

Available as a retrofit package
Existing hydraulic take-ups can be retrofitted to full-size and Pony winch systems. The hydraulic power unit, sheave section and cylinder arrangement are eliminated.

For more information on how all-electric winch technology can benefit your new or existing installation, contact your local Komatsu representative today.