Machine Assembly and Rebuild
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Provides unmatched value

Joy Global applies unparalleled experience, service capabilities, facilities and personnel for delivering “like-new” performance at a cost significantly less than purchasing a new machine. Partial rebuilds are designed to be flexible ensuring machine performance and minimizing downtime between major rebuilds. Machine rebuilds or exchanges can also be bundled per an agreed-upon schedule.

The process begins with a pre-rebuild condition audit that includes the review of maintenance records, assessment of structures, and evaluation of component health. Joy Global’s Assembly and Rebuild programs are backed by a complete range of OEM services including service products and consumables (SP&C), Component Exchange Program (CEP), on-site project management, labor, shop services, as well as a range of technical support including engineered solutions.

Joy Global will supply a list of recommended productivity and reliability upgrades as well as mandatory upgrades (where required) with every rebuild. At the end of a rebuild, you will receive updated documentation for your machine.

Surface major rebuilds

This entails a major overhaul of shovels, drills, loaders or draglines consisting of auditing, disassembling, reconditioning, updating, reassembling, testing, and evaluating performance of the machine and is performed at or around the machine’s mid-life span. For example, a major overhaul for shovels is defined as a complete rework including undecking the machine to replace the roller circle components and perform structural repairs while they are apart.

Underground major rebuilds

The machine is stripped bare to the frames to start the process. All mechanical, hydraulic, electrical and electronic components are completely disassembled, inspected, rebuilt and tested to strict standards. All hardware, cable and conduit, hoses and fittings and wear items (including any chains) are replaced. The machine is returned to the customer with updated service product catalogs, technical manuals and standard warranty offerings.

Surface and underground partial rebuilds

Partial Rebuilds for both surface and underground machines are extended interventions focused on replacing components and performing repairs with the purpose of ensuring machine performance and minimizing downtime between partial and major rebuilds.

Surface and underground new machine assembly

Utilizing our expertise in planning and project management along with strict adherence to quality processes and standards, Joy Global’s service teams assemble new machines safely, on time and on budget, topped off by our flawless start-up process.
**Why utilize Joy Global machine assembly and rebuild?**

### Safety
- Provides a safer and healthier workplace environment reinforced by Joy Global’s zero harm safety philosophy
- Assures that machine assembly or rebuild is handled safely, correctly and expeditiously

### Project management
- Utilizes the knowledge and experience of Joy Global technical experts who assemble new and rebuilt machines
- The option of capitalizing rebuild costs eliminates the impact on maintenance and repair budgets
- Handles the complete rebuild process seamlessly: auditing, diagnostics, cost estimating, SP&C procurement, planning, disassembly, repair/replacement/CEP, assembly, testing, training, documentation, commissioning and flawless start-up
- Includes a full range of technical expertise and support services that can supplement or replace internal customer capabilities, freeing up staff time for other responsibilities
- Integrates regular maintenance tasks and repairs into the machine rebuild process
- Provides flexibility to structure a rebuild that best meets your production schedule
- Offers simplicity by working with one integrated supplier who takes responsibility for all aspects of machine assembly and rebuild
- Reduces customer overhead requirements for tooling and infrastructure
- Improves project planning and execution by assuring that all needed SP&C are available, qualified service technicians and tooling are scheduled and service center capacity is allocated
- Assures transparency of the build or rebuild project through continuous milestone monitoring and progress reporting
- Allows for offsite supervised repairs, limiting customer risks

### Original equipment manufacturer access and availability
- Draws upon the worldwide knowledge and experience unique to an OEM
- Provides an accurate assessment of machine health, identifying the scope of needed repairs and upgrades
- Minimizes scope changes or added costs by drawing on the database and practical experience of a carefully monitored global field population
- Assures that mandatory, production enhancing and technology upgrades are precisely installed and rigorously tested
- Provides built-in ability to resolve newfound problems during the disassembly phase of overhauls and respond with SP&C, service and engineering solutions
- Documents the rebuild history tech manuals, SP&C books, schematics, safety files, upgrades, service and maintenance recommendations for reference during operation, training, maintenance, service and future repairs or rebuilds
- Includes priority status for SP&C delivery, on-site/in-shop services and fast turnarounds on component exchange and rebuilds
- Allows the opportunity to introduce other value-added benefits such as Machine Exchange Program (MEP), Smart Services, Remote Health Monitoring (RHM) and other technology upgrades
- Assures that rebuilds will be completed utilizing genuine Joy Global SP&C, components and repair procedures
- All machine rebuilds have OEM backed warranty

### Improved productivity
- Returns machines to original or current specifications and standards improving availability, productivity and operating efficiencies
- Provides like-new performance at a reduced cost compared to buying a new machine
- Brings multi-machine fleets up to consistent specifications and provides SP&C commonality, reducing inventory costs
- Restores machine health, structural integrity and operating systems, extending the equipment’s life, economic viability and useful lifecycle
- Rationalizes rebuild costs based on production, maintenance practices and operating efficiencies between outages
Joy Global service

Joy Global recognizes the diversity of our customers, allowing them to select from flexible service offerings that are designed to help maximize performance and productivity of P&H and Joy mining equipment. Customers are served directly by Joy Global service centers and distribution facilities that are regionally located and globally linked. The following service offerings options are designed to help achieve each customer’s unique objectives:

Service Products and Consumables
Our service products and consumables (SP&C) are engineered and specifically selected to meet exacting application and design standards. With dedicated regional warehousing and computerized inventory systems, we can assure timely and cost effective SP&C delivery to our customers anywhere in the world.

Machine Assembly and Rebuild
Our service teams are structured to be the preferred resource for every machine rebuild by applying new machine assembly factory best practices culminating with the Joy Global Flawless Start Up process. Our assembly and rebuild program is backed by a complete range of OE services including SP&C, Component Exchange Program (CEP), on-site project management, labor, shop services, as well as a wide range of technical support.

Component Exchange Program
Production goals will only be achieved if machines remain in operation. Minimizing machine downtime during planned and unplanned outages is critical to maintaining production goals. The Joy Global Component Exchange Program provides a ready supply of like-new, remanufactured components incorporating the latest design improvements, available from regional warehouses for same day or next day delivery.

Technical and field services
We offer factory-trained service technicians and skilled tradesmen to maintain and repair customers’ equipment 24/7, 365 days/year. These regional service teams are regularly trained and recertified to maintain high proficiency standards.

Service center repair
Our unique direct service business model enables customers to deal directly with Joy Global service centers offering expedient turnaround time and high-quality service repairs based on OEM specifications. Each service center is staffed with experienced and well-trained technicians committed to delivering quality and reliability.

Life Cycle Management
Through collaboration, operational excellence, and integrated technology solutions, Joy Global partners with our customers to provide the asset management strategy needed to maximize performance. Customers can select from LCM options that complement their support structure to reduce costly downtime, optimize equipment performance, and take the uncertainty out of maintenance, repair, and rebuild management.

Prognostics and remote health management
Leverage predictive, prescriptive and real-time operational analytics to transform that data and information into actionable knowledge for production and maintenance teams. Integrated services and technologies enable customers to achieve increased production, higher availability, better utilization and improved profitability.

Contact your Joy Global service representative for Machine Assembly and Rebuilds available in your area, or visit www.joyglobal.com