Increase the life of your cutting system. Improve maintenance effectiveness. Minimize downtime.

The new patented JS-Series blocks have set the bar for innovation by decreasing the time you spend changing bits — even when shanked or broken.

**Benefits at a glance**

**Increased productivity**
- Rear access hole for easy bit removal, saving time and energy
- Optional hardfacing on bit holders and sleeves for high wear applications maximizes life

**Lower total cost of ownership**
- Induction case-hardened bore extends life of the bit blocks through multiple sleeve change-outs
- Lower profile on blocks helps alleviate potential wear and increases block life

**Enhanced safety**
- Lighter sleeve extractor tool than previous version (by 1.8 kg / 4 lbs.) provides ease of handling and maneuvering

The genuine Joy seal stands for quality and performance. Our service products are designed to increase the life of your cutting system through improved maintenance effectiveness and minimized downtime.

Joy service products are engineered to meet our exacting application and design standards, helping to ensure optimal system performance. Genuine Joy parts, for Joy machines. They’re a perfect fit.

**Understanding the system**

**Bit holder**
- Patented rear access hole saves time
- Added strength saves on drum repairs
- Increased weld penetration decreases drum repairs
- Lower back profile reduces block damage
- Optional hardfacing for additional life

**Sleeve**
- Patented undercut provides longer life
- Snap ring groove standard to prevent loss of sleeve
- Induction case-hardened cavities to maximize life
- Optional hardfacing for high wear applications
- Backwards compatible on J35 block series*

*Snap ring is not accessible, no extended tail version of the J35 sleeve

**Sleeve maintenance tool**
- Extractor tool can pull and press fit sleeves
- 1.8 kg / 4 lbs. lighter for easier handling
- Rod separates from unit for one person handling
- 2.5 times stronger for increased reliability

A genuine Joy conical cutting system...

...decreases the time you spend changing bits even when shanked or broken. Slightly stuck bits can be removed up to four times faster when compared to other bit holder systems.

...lowers costs through extended life. The induction case-hardened bore provides extended life of the bit blocks through multiple sleeve change-outs. Lower profile helps alleviate potential wear that can shorten the life of the block.

...increases productivity. Cutting productivity relies on more than the bit – extending to the machine’s cutter and traction systems. Komatsu has the experience to fully engineer and optimize the complete system.
The JS Blocksaver Mark I bit holding system incorporates a method of hydraulically extracting press fit sleeves from the block where the stepped sleeve acts as its own hydraulic cylinder. Using a simple hand pump, the Blocksaver system allows for easy and fast removal of sleeves, reducing maintenance delays and increasing productivity. The JS Blocksaver Mark I system is based on the JS35/30 bit holder system, giving users all the advantages of the JS series bit holder in productivity, lower operating costs and safety.

The sleeve can be readily extracted by removing the protective cap on top of the block and attaching a hydraulic supply.

Benefits at a glance
Increased productivity
• Ease of changing sleeves reduces downtime, improves productivity
• Speed of changing sleeves promotes regular sleeve maintenance, extending sleeve life and reduces downtime

Lower total cost of ownership
• Optional hard-facing extends sleeve life in high wear applications, lowering cost of ownership

Enhanced safety
• Only a hand pump is required to remove the sleeve. The hand pump is smaller and lighter than the hydraulically-powered sleeve extractor, reducing handling of larger removal tools

Understanding the sleeve removal process

1. Clean away all dirt from around the pressure release hole and remove the protective cap
2. Screw in the pressure adapter and tighten to seal on nose of adapter
3. Connect the hydraulic hand pump
4. Cover the assembly with a cloth to catch any oil that may be expelled on sleeve’s release
5. Steadily apply pressure with the pump until the sleeve is released

*Actual tool may be different than shown.

As a guide to “tightness”, a new sleeve fitted into a new block should release by hydraulic pressure at between 4000 and 9000 lbf/in² (275 - 620 bar)

Genuine Joy provides you with...

...decreased time it takes to maintain your sleeves. Easy extraction can save you time in removing and rotating the sleeves.

...lowers costs through extended life. Carrying out routine sleeve maintenance will increase sleeve life and can extend drum life.

...increased productivity. Cutting productivity comes from increased utilization due to less down time spent on unplanned drum maintenance.
### IE JS30 mm blocks for 30 mm bits

#### Sleeves

<table>
<thead>
<tr>
<th>30 mm Sleeve</th>
<th>Non-hardfaced Sleeve</th>
<th>Hardfaced Sleeve</th>
<th>Laser Clad Sleeve</th>
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### Protection Code

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### JS30

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*Includes snap ring pliers, pump & hose w/gauge, go-no-go gauge, sleeve maintenance tool, bit removal tool, hairpin tool, Shanked bit removal tool.
### IE JS35 mm blocks for 30 mm, 35 mm, 43/45 mm bits

#### Blocks

**Non-hardfaced Block**
- **Step Press Fit Blocksaver**
  - JS35
  - 35 mm
  - Laser Clad

**Hardfaced Block**
- **Step Press Fit Blocksaver**
  - JS35
  - 35 mm
  - Laser Clad

**Laser Clad Block**
- **Step Press Fit Blocksaver**
  - JS35
  - 35 mm

**Non-hardfaced Block**
- **Step Press Fit Blocksaver**
  - Dry
  - Laser Clad
  - JS35
  - 35 mm

**Hardfaced Block**
- **Step Press Fit Blocksaver**
  - Wet
  - Laser Clad
  - JS35
  - 35 mm

### Sleeves

#### 30 mm Sleeve
- **Non-hardfaced Sleeve**
  - Step Press Fit Blocksaver
    - XXX
    - 400803398
  - **Hardfaced Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803408
  - **Laser Clad Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803418

#### 35 mm Sleeve
- **Non-hardfaced Sleeve**
  - Step Press Fit Blocksaver
    - XXX
    - 400803468
  - **Hardfaced Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803478
  - **Laser Clad Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803488

#### 43/35 mm Sleeve
- **Non-hardfaced Sleeve**
  - Step Press Fit Blocksaver
    - XXX
    - 400803538
  - **Hardfaced Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803548
  - **Laser Clad Sleeve**
    - Step Press Fit Blocksaver
    - XXX
    - 400803558

### Protection Code

<table>
<thead>
<tr>
<th>Code</th>
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### JS35
- Snap ring
  - 100704666
- Wedge bit removal tool 38mm
  - 100682609
- Wedge bit removal tool 35mm
  - 100683444
- Wedge bit removal tool 42/35mm
  - 100683454
- Blocksaver adapter (M10 x 1.5mm)
  - 100918117
- Sleeve maintenance tool
  - 100911888
- Hydraulic hand pump w/ hose & gauge (includes Blocksaver adapter)
  - 100910008
- Full maintenance kit for 38mm
  - 100832686
- Full maintenance kit for 35mm
  - 100832681
- Full maintenance kit for 42/35mm
  - 100832686

*Includes snap ring pliers, pump & hose w/ gauge, go-no go gauge, sleeve maintenance tool, bit removal tool, harpin tool, shanked bit removal tool

### JS35
- Sleeve bore wear measuring tool
  - 100885930
- Harpin installer/extractor tool
  - 100885930
- Snap ring tool
  - 01402626-0000
- Hydraulic hand pump w/ hose
  - 0339842-0000
- Hydraulic hand pump w/ hose & gauge
  - 10020837
- Spray maintenance tool (Allen wrench)
  - 10020820
- Shanked bit removal tool
  - 100386615
JoyCut™ – cutting systems solution program

The JoyCut program is a cutting systems solution that takes into account your mine’s specific geological conditions and production requirements to optimize cutting efficiency, thereby maximizing the productivity of your mining equipment. Joy’s cutting systems solution program not only analyzes your current pick performance, but also analyzes the performance of your continuous miner or shearer as a complete cutting system.

To provide the optimal cutting solution, JoyCut program begins by measuring and analyzing your mine’s existing cutting system and cutting practices to establish baseline data. When required, geological samples are taken from the face for testing in our controlled laboratory. Komatsu has 60 years of industry-leading experience and an extensive database of field and experimental data that help us identify the right configuration and components to meet your cutting system requirements.

Through our direct service model, Komatsu works in close collaboration with you to increase the productivity and life of your cutting system through optimized system design and minimized downtime.

Benefits at a glance

Increased productivity
- Increases machine utilization by reducing maintenance and downtime
- Improves product size

Lower total cost of ownership
- Maximizes bit and sleeve life for lower operating costs
- More energy-efficient cutting leads to reduced component wear and less maintenance

Enhanced safety
- Reduces dust for improved machine operator environment
- Decreases unplanned maintenance activities

JoyCut design elements

Application
- Application specific custom fit cutting solution, that delivers optimal cutting and productivity performance.
- Support – fully dedicated global team of cutting experts

Advanced design
- Lowest cost per ton
- Application engineering practices combined with machine design
- Simulation – purpose-designed test rigs along with proprietary drum design software contribute to optimal performance

Smart Solutions
- Comprehensive productivity analysis report
- Optimization – identify potential bottlenecks early to make corrections before they turn into problems
- Cutting system integrated with machine performance

Environment
- Safety – new tools provide a safer and more efficient way to maintain and repair cutting systems
- Dust – reduce the amount of respirable dust created, creating a safer working environment
- Particle size – increased recovery of the mined material

JoyCut™ is a fully integrated systems cutting solution which...

...increases cutting efficiency, reduces the specific energy required, extends component life and improves product size.

...lowers operating costs, extends component life and reduces downtime and maintenance.

...improves safety, and reduces the amount of fines and dust produced to improve operator environment.

JoyCut - solving mining’s toughest cutting challenges.