Face Drilling Jumbos
Product Overview
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.

Face drilling jumbos
Komatsu Mining delivers a full line of heavy duty development and production drilling jumbos for mining and tunneling. Combined with Montabert HC series drifters, Vein Runner II and Drift Runner jumbo drills continue to lead the industry in reliability and performance. Optional ROPS/FOPS certified environmentally controlled cabs allow the operator to be more comfortable, productive and secure from all forms of hazards. EPA and MSHA certified engines are available on all Joy hydraulic jumbo drills, demonstrating our commitment to a cleaner, safer environment. The Joy jumbo drill product line is designed to operate in the harshest conditions of underground mining and can drill horizontal, vertical or cross-cut holes. Designed for operator comfort, these units can accommodate all different ground conditions.

A long list of innovative features sets Joy jumbo drills apart from the rest.

Face Drilling Jumbos

- Montabert HC series drifter and intelsense drilling control system
  The Montabert HC series drifter and Intelsense drilling control system work seamlessly with all Joy jumbos, ensuring the best possible drilling performance.

- Powertrain and hydraulics
  In an effort to improve underground air quality, Joy jumbos are available with EPA and MSHA certified engines. A heavy-duty all-mechanical powertrain with load-sensing hydraulics ensures a proven platform and a long service life.

- Environment controlled ROPS/FOPS certified cab (optional)
  The ROPS/FOPS certified environmentally controlled operator’s cab insulates the operator from noise, dust and vibration.

- Lightweight aluminum feed with replaceable wear strips
  The Komatsu-designed light weight feed assemblies are available in different length to accommodate a range of steel from 2.4m (8ft) to 4.87m (16ft) and feature replaceable wear rails and guides.

- Booms
  Komatsu’s jumbo booms are designed for the harsh conditions of underground and comes with features such as auto parallelism.

- Vein Runner II

- Drift Runner 1SB Jumbo

- Face drilling jumbos
The Joy vein runner series single-boom hydraulic rig is designed for drilling vertical, horizontal and angled holes in underground production or development headings. It features a hydraulic percussion drifter designed to drive headings 5.61 m (width) by 5.3 m (height) (18ft 4 in by 17ft 5in).

**Standard features**
- Heavy duty all mechanical powertrain
- Montabert HC50 percussion drifter
- Joy series boom
- Montabert Intelsense drilling control
- Lightweight aluminum JGF feed
- Dana R20000 transmission with torque converter
- EPA and MSHA certified engines
- 45 kW (60 hp) electric motor driving pumps for percussion/rotation
- Direct lever controls
- Boom parallelism
- Canopy
- Compressor
- High pressure water pump
- Drifter accumulator charge kit

**Options**
- Montabert HC95, HC109 or HC110 drifter
- Optional feed lengths
- Telescopic feeds
- Engine options
- Fire suppression system
- Large protective operator’s compartment

**General specifications**

<table>
<thead>
<tr>
<th>Vein Runner II Jumbo</th>
<th>Weight (lbs)</th>
<th>Maximum width (in)</th>
<th>Turning radius inside (in)</th>
<th>Turning angle (°)</th>
<th>Boom guide rollover (°)</th>
<th>Boom extension (in)</th>
<th>Feed extension (in)</th>
<th>Boom coverage (in)</th>
</tr>
</thead>
<tbody>
<tr>
<td>VR II</td>
<td>13,000 kg</td>
<td>61</td>
<td>3179 mm</td>
<td>40°</td>
<td>360°</td>
<td>914 mm</td>
<td>1219 mm</td>
<td>5353 mm</td>
</tr>
<tr>
<td></td>
<td>28,660 lb</td>
<td>61</td>
<td>4982 mm</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- **Montabert HC50**
  - Weight kg (lbs): 102 (225)
  - Percussion output Power kW: 13
  - Percussion flow/press L/mn (bar): 105 (135)
  - Applications: Mining, bolting

- **Montabert HC95**
  - Weight kg (lbs): 179 (394)
  - Percussion output Power kW: 22
  - Percussion flow/press L/mn (bar): 135 (220)
  - Applications: Mining, bolting, long holes

- **Montabert HC109**
  - Weight kg (lbs): 142 (313)
  - Percussion output Power kW: 18
  - Percussion flow/press L/mn (bar): 135 (135)
  - Applications: Mining, bolting, long holes

- **Montabert HC110**
  - Weight kg (lbs): 200 (441)
  - Percussion output Power kW: 33
  - Percussion flow/press L/mn (bar): 125 (230)
  - Applications: Mining, bolting, long holes
Drift Runner 1 SB and 2 SB jumbo

The Joy drift runner series single-boom hydraulic rig is designed for drilling vertical, horizontal and angled holes in underground production or development headings. It features one hydraulic percussion drifter designed to drive headings 5.74 m (width) by 6.34 m (height) (18ft 8 in by 20ft 8in).

Options
- Montabert HC109 drifter
- Montabert HC95 or H110 drifter
- Optional feed lengths
- Telescopic feeds
- ROPS/FOPS cab with climate control
- Automatic lubrication system
- Engine options
- Fire suppression system
- Tire options

Drift Runner 1 SB Jumbo

Drift Runner 2 SB Jumbo

The Joy drift runner series two-boom jumbo is designed for drilling vertical, horizontal and cross-cut holes in underground production and development headings. It features two hydraulic percussion drifters designed to drive headings 8.89 m (width) by 6.36 m (height) (29ft 5in by 20ft 8in).

General specifications

<table>
<thead>
<tr>
<th></th>
<th>DR-1 SB jumbo</th>
<th>DR-2 SB jumbo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>14,880 kg</td>
<td>18,370 kg</td>
</tr>
<tr>
<td></td>
<td>32,800 lbs</td>
<td>40,500 lbs</td>
</tr>
<tr>
<td>Maximum width</td>
<td>1963 mm</td>
<td>2227 mm</td>
</tr>
<tr>
<td></td>
<td>77 in</td>
<td>88 in</td>
</tr>
<tr>
<td>Turning radius</td>
<td>Inside</td>
<td>Outside</td>
</tr>
<tr>
<td></td>
<td>3899 mm</td>
<td>4090 mm</td>
</tr>
<tr>
<td></td>
<td>153.5 in</td>
<td>161 in</td>
</tr>
<tr>
<td></td>
<td>252 in</td>
<td>262 in</td>
</tr>
<tr>
<td>Turning angle</td>
<td>38°</td>
<td>38°</td>
</tr>
<tr>
<td>Boom guide roller</td>
<td>360°</td>
<td>360°</td>
</tr>
<tr>
<td>Boom extension</td>
<td>1219 mm</td>
<td>1219 mm</td>
</tr>
<tr>
<td></td>
<td>48 in</td>
<td>48 in</td>
</tr>
<tr>
<td>Feed extension</td>
<td>1520 mm</td>
<td>1520 mm</td>
</tr>
<tr>
<td></td>
<td>60 in</td>
<td>60 in</td>
</tr>
<tr>
<td>Boom coverage</td>
<td>Height</td>
<td>Width</td>
</tr>
<tr>
<td></td>
<td>6341 mm</td>
<td>5744 mm</td>
</tr>
<tr>
<td></td>
<td>250 in</td>
<td>226 in</td>
</tr>
<tr>
<td></td>
<td>6360 mm</td>
<td>6891 mm</td>
</tr>
<tr>
<td></td>
<td>250 in</td>
<td>350 in</td>
</tr>
<tr>
<td>Drifter</td>
<td>Montabert HC50</td>
<td>Montabert HC50</td>
</tr>
<tr>
<td>Tires</td>
<td>12.00 x 20</td>
<td>12.00 x 24</td>
</tr>
<tr>
<td>Cable reel - type G-GC</td>
<td>76.2 m</td>
<td>76.2 m</td>
</tr>
<tr>
<td></td>
<td>250 ft</td>
<td>250 ft</td>
</tr>
</tbody>
</table>

Drift Runner 1 SB

Drift Runner 2 SB

Contact your Komatsu Mining service representative for more information on face drilling jumbos or visit mining.komatsu
Product designs, specifications and/or data in this document are provided for informational purposes only and are not warranties of any kind. Product designs and/or specifications may be changed at any time without notice. The only warranties that apply to sales of products and services are Komatsu’s standard written warranties, which will be furnished upon request.

Komatsu, Joy, Montabert, P&H and other trademarks and service marks used herein are the property of Komatsu Ltd., Komatsu Mining Corp., or their respective owners or licensees.

© 2018 Komatsu Mining Corp. All rights reserved.