Drilling equipment

Jumbo hydraulics
Variable displacement piston pump with load sensing for percussion, feed and boom movements. Dedicated variable displacement pressure compensated pump for rotation.

Controls
Intelligent control system incorporating these features: collaring, anti-jamming, automatic water monitoring with feed return should low water pressure be encountered, auto return to start position following hole completion, and control levers for operating percussion, rotation and feed.

MTB 5500 boom (Qty 1)
Bloom coverage (height) 6.2 m 20.3 ft
Bloom coverage (width) 6.5 m 21.4 ft
Parallelism Automatic hydraulic
Bloom extension 914 mm 36 in
Feed extension 1219 mm 48 in
Guide roller 360 deg

Feed
Fixed feed 10’ steel rod length 3048 mm 10 ft
Hole length 2591 mm 8.5 ft
Overall length 4634 mm 15.2 ft
Net weight 304 kg 670 lbs
(does not include drifter, hosen)
Fixed feed 12’ steel rod length 3658 mm 12 ft
Hole length 3200 mm 10.5 ft
Overall length 5258 mm 17.3 ft
Net weight 433 kg 955 lbs
(does not include drifter, hosen)
Fixed feed 14’ steel rod length 4267 mm 14 ft
Hole length 3810 mm 12.5 ft
Overall length 6193 mm 20.3 ft
Net weight 543 kg 1,197 lbs
(does not include drifter, hosen)
Telescopic feed 8’-12’ steel rod length 3658 mm 12 ft
Hole length 3378 mm 11.1 ft
Overall length 4642 mm 15.2 ft
Net weight 624 kg 1,376 lbs
(does not include drifter, hosen)
Feed position Inline

Drill
Montabert HC50
Optional Montabert drill
HC25, HC85 or HC110

Levelling jacks
Front (standard with unit) 2
Rear (standard with unit) 2

Drilling electrics
HC50 One 56 kW (75 hp) TEFC electric motor
Voltage as per application NEMA 4-4 panels
Voltage as per application NEMA 4-4 panels
HC25 One 45 kW (60 hp) TEFC electric motor
Voltage as per application NEMA 4-4 panels
HC85 One 45 kW (60 hp) TEFC electric motor
Voltage as per application NEMA 4-4 panels
HC110 One 75 kW (100 hp) TEFC electric motor
Voltage as per application NEMA 4-4 panels
Cable reel capacity type G-GC 76.2 m 250 ft

Weights
Operating weight (base unit) 12,610 kg 27,800 lbs
MTB 5500 boom, 12 ft feed, 80 hp powerpack, HC50 drifter, Deutz engine
Operating weight (fully optioned) 13,245 kg 29,200 lbs
MTB 5500 boom, 14 ft feed, 100 hp powerpack, HC110 drifter, Cummins engine, radiator, autoblast

Driving speeds forward and reverse (0% grade)
Unit with Deutz Engine
1st gear 3.4 km/h 2.1 mph
2nd gear 7.8 km/h 4.9 mph
3rd gear 22.9 km/h 14.3 mph
Heavy unit with Cummins engine
1st gear 3.0 km/h 1.9 mph
2nd gear 6.8 km/h 4.3 mph
3rd gear 18.6 km/h 12.3 mph

Powertrain
General
Exhaust system Diesel Oxidation Catalyst (DOC)
Fuel tank capacity 62.7 litres 16.5 USG
Transmission Dana 20000 series
w/ integrated torque converter
Shift Driveline Powershift
SPEEDS 3 forward / 3 reverse
( optional lock-out on 3rd)
Axes
Front and rear No-spin/Differential
Brakes - service Hydraulically-applied wet disc
Brakes - parking Hydraulically-released/Spring-applied
Oscillation angle +/- 8 deg
Tires Solid, lugged
Size 10 x 20

Carrier hydraulics
General
Variable displacement piston pump with load-sensing for optimal efficiency.
Oil tank volume 195 litres 51.6 GUS
Tank filler Manual pump
Tank filler optional Electric pump
Steering hydraulics
Variable displacement piston pump with load-sensing, with in line counter balance valve. Stick steering with a direct-acting control valve. Two double-acting steering cylinders.

Carrier electrics
Alternator 24V/80A
Batteries 2 x 12 volts
Charger 240 volt, 20 A
Train lights w/ front, 2 rear
Drill lights 2 front

Electrical panel
Main electrical panel including: hour meter, ammeter, all instrumentation systems and one 110 volt, 15 amp utility receptacle, master disconnect switch

Operator console
Canopy FOPS/ROPS certified
Seat Mechanically suspended seat

Overall dimensions
P Boom coverage (width) 6.5 m 21.4 ft
Q Boom coverage (height) 6.2 m 20.3 ft
R Machine width 1537 mm 60.5 in
S Outrigger extended width 2115 mm 83.3 in
T Front jack extended 86 mm 3.4 in
U Total undercar 947 mm 37.2 in

Minimum mine dimensions
R1 Fixed feed 10’ 5042 mm 16.5 ft
Fixed feed 12’ 5034 mm 16.5 ft
Fixed feed 14’ 5329 mm 17.5 ft
Teleoscope 8’-12’ 4525 mm 14.9 ft
R2 Fixed feed 10’ 2890 mm 9.2 ft
Fixed feed 12’ 2894 mm 9.2 ft
Fixed feed 14’ 3099 mm 10.2 ft
Teleoscope 8’-12’ 2710 mm 8.9 ft
W1 Fixed feed 10’ 2527 mm 8.3 ft
Fixed feed 12’ 2545 mm 8.4 ft
Fixed feed 14’ 2814 mm 9.2 ft
Teleoscope 8’-12’ 2466 mm 8.1 ft
## Engine options

<table>
<thead>
<tr>
<th>Engine</th>
<th>Certification</th>
<th>Ventilation</th>
<th>Displacement</th>
<th>Output</th>
<th>Maximum torque</th>
<th>Cooling type</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deutz BF4L914</td>
<td>EPA Tier II</td>
<td>OSHA@100 cfm/hp = 9700 cfm</td>
<td>4.3 litres</td>
<td>72 kW (99 hp)</td>
<td>355 Nm (261 ft-lbs) @1600 rpm</td>
<td>Air cooled</td>
</tr>
<tr>
<td></td>
<td></td>
<td>MSHA-07-ENA110008 = 6000 cfm</td>
<td>4.3 litres</td>
<td>81 kW (109 hp)</td>
<td>461 Nm (340 ft-lbs) @1500 rpm</td>
<td>Water cooled, charge air cooled</td>
</tr>
</tbody>
</table>

## Other options

- Hydraulic centralizer
- 20lb portable fire extinguisher
- 30 lb Fire suppression with checkfire system
- Fiberglass exhaust wrap
- Autolube (carrier) greasing
- Accumulator charge kit for Montabert Drifter
- Safety shutdowns
- Directional lights
- Wheel chocks and brackets
- Montabert HC95, HC109 or HC110 drifter
- Documents - Manuals for parts, service and operators in applicable language
- Standard spare tire and rim assembly

**Other options available - ask your Komatsu representative**

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**Komatsu Mining Corp. Group**

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