BAUER GB 60
Hydraulic Grab Carrier

Grab System

BAUER
The BAUER GB 60 Hydraulic Grab

“Digging profits out of your projects”

Bauer's line of GB Hydraulic Grabs are a perfect marriage between our tried-and-true base machines with our state-of-the-art DHG V grab body. Our classic GB 60 is our most powerful option for customers working in the increasingly complex diaphragm wall jobsite conditions around the world.

Bauer's team of world-class mechanical engineers worked closely with our customers and partners to design this classic machine. The GB 60 has the reliable mechanical, electronic and hydraulic systems that Bauer is known for, operating together in a perfect balance. This powerful machine gives you maximum efficiency, delivering high-quality diaphragm walls on everything from subway stations to dams to underground parking structures, and much more.

With additional components like our B-tronic control system, and options like our TD4 Turning Device, you’ll be able to deliver on time, even in the hardest soil conditions.

- Wide V-Kinematic structure ensures optimal machine stability
- Perfectly synchronized double main winches maintain grab body balance and control, while decreasing rope wear
- B-Tronic grab control system is easy to use and maximizes diaphragm wall quality
- Stackable counterweights streamline transportation
Main Features

Wall thickness: 0.4 – 1.5 m
Wall depth: 80 m
Maximum hoisting force: 600 kN (2 x 300 kN)
Max. hook load (incl. soil filling): 32 t (Pulley system)
30 t (Rocker system)
Weight (without grab): 89 t
Engine: CUMMINS QSM 11-375, Tier 3
266 kW at 1,900 rpm

1 Extendable undercarriage UW 115
2 Upper carriage BH 80
3 Stackable counterweights
4 Patented free-fall winch system
5 HDSG winding system
6 Double cylinder kinematic system
7 Box type boom
8 Boom head
9 Turning device
10 Grab
11 Grab control system
(winch for electric cable)
GB 60

System Description Base Carrier

**Synchronized dual main winches**
- High effective line pull and line speed
- Load classification M6 / L3 / T5 for heavy-duty, continuous operation
- A special grooving system on the drum and rope pressure roller, reducing wear on the wire rope
- Pinned connection for easy transportation
- Transparent ring for easy oil check

**Undercarriage**
- Solid Bauer design for 360° working radius
- Hydraulically extendable tracks
- Large footprint for a stable operation
- High traction forces

**High-performance CUMMINS engine**
- Conforming to exhaust emission standards: EEC 97/68EC Stage III and EPA/CARB Tier 3
- Low fuel consumption due to optimized design of hydraulic system
- Low noise emission due to clever sound protected installation
- Worldwide CUMMINS-service partner network

**Final inspection and test run:**
- Comprehensive Bauer test program
- Optimal adjustment and calibration of all main functions
- Heat transfer test
- Noise emission measurements
- Electromagnetic compatibility test
Lifting system of grab
The GB 60 has two different lifting systems:
– The "Rocker" system allows a hook load of 30 t including soil filling (working radius < 5,500 mm)
– The "Pulley" system allows a hook load of 32 t including soil filling (working radius < 5,250 mm)

Grab control system
– Online data transfer from grab to the operators cabin by heavy-duty electrical cable
– Possibility of directly grab adjustments
– Continuous monitoring the verticality of wall trench during excavation
– Collection, processing and visualization of relevant data
– Failure diagnostics and maintenance service
– Electrical cable is automatically reeled off by a hydraulically operated cable recoil system.
– B-Tronic System with highresolution 10,4" color screen

Turning device TD 4
– GB 60 supports hose guidance for turning device operation on grabs down to minimum trench width of 600 mm
– Easy operation of turning function with control levers of GB
– Increased maneuverability when working on corner panels or in confined areas
– Compensates negative influence of asymmetric teeth arrangement
– Improved productivity in hard soil
## GB 60 Technical Specifications

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. hook load (Pulley system)</td>
<td>32 t</td>
</tr>
<tr>
<td>Max hook load (Rocker system)</td>
<td>30 t</td>
</tr>
<tr>
<td>Max. hoisting force</td>
<td>600 kN</td>
</tr>
<tr>
<td>System pressure</td>
<td>320 bar</td>
</tr>
<tr>
<td>Main pump max. flow</td>
<td>2 x 320 l/min</td>
</tr>
<tr>
<td>Max. wall depth</td>
<td>80 m</td>
</tr>
<tr>
<td><strong>Base Carrier</strong></td>
<td><strong>BH 80</strong></td>
</tr>
<tr>
<td>Engine</td>
<td>CUMMINS QSM 11-37</td>
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<tr>
<td>Rated output ISO 3046-1</td>
<td>266 kW @ 1900 rpm</td>
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<tr>
<td>Engine conforms to EEC 97/68 EC</td>
<td>Stage III</td>
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<tr>
<td>EPA/CARB</td>
<td>Tier 3</td>
</tr>
<tr>
<td>Diesel tank capacity</td>
<td>621 l</td>
</tr>
<tr>
<td>Ambient air temperature (at full power) up to</td>
<td>42 °C</td>
</tr>
<tr>
<td>Sound pressure level in cabin (EN 791, Annex A)</td>
<td>LP, 80 dB (A)</td>
</tr>
<tr>
<td>Sound power level (2000/14/EG u. EN 791, Annex A)</td>
<td>LW, 114 dB (A)</td>
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<tr>
<td>Hydraulic oil tank capacity</td>
<td>262 l</td>
</tr>
<tr>
<td><strong>Main Winch (hoisting winch) 2 pcs</strong></td>
<td></td>
</tr>
<tr>
<td>Line pull (1st layer) effective</td>
<td>274 kN</td>
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<tr>
<td>Rope diameter</td>
<td>32 mm</td>
</tr>
<tr>
<td>Line speed (max.)</td>
<td>76 m/min</td>
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<tr>
<td><strong>Crawler</strong></td>
<td><strong>UW 115</strong></td>
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<tr>
<td>Crawler type</td>
<td>B7</td>
</tr>
<tr>
<td>Traction force</td>
<td>728 kN</td>
</tr>
<tr>
<td>Crawler Speed</td>
<td>1.29 km/h</td>
</tr>
</tbody>
</table>

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Total height 18,500 mm
Overall crawler length 6,100 mm
Overall crawler width 3,380 – 4,580 mm
Center line of grab to swing center 4,500 – 6,000 mm
Swing radius of rear end 4,300 mm
Our recommended BAUER grab:
The DHG V

Length: 2,400 – 4,200 mm
Width: 600 – 1,500 mm
Hydraulic cylinder: 80, 120, 180 t
Weight: 15 – 35 t
No. of steering flaps: 4, 8, 12

See DHG V brochure for more details

BAUER Service

International Service Hotline
+800 1000 1200* (freecall)
+49 8252 97-2888
BMA-Service@bauer.de
* Where available

BAUER Maschinen GmbH
BAUER-Strasse 1
86529 Schrobenhausen
Germany
Tel. +49 8252 97-0
bma@bauer.de
www.bauer.de

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