

BAUER GB 50

Hydraulic Grab Carrier

Grab System

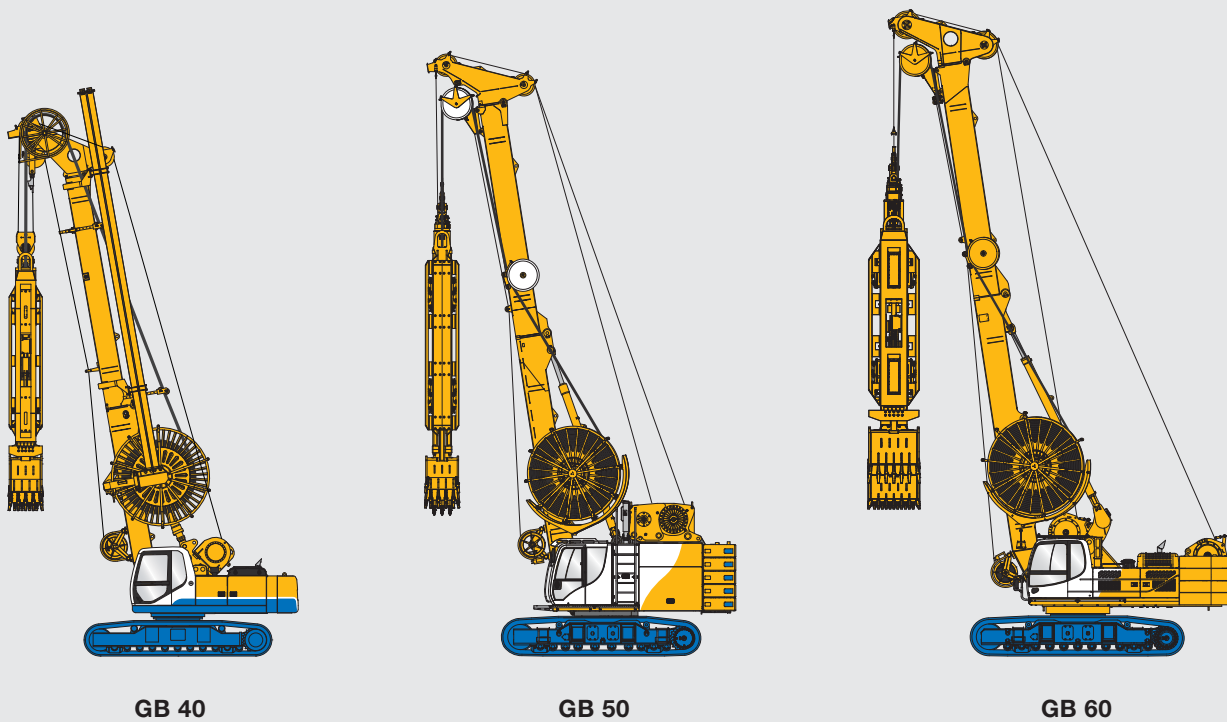


“Digging profits out of your projects”

Bauer's line of GB rigs are a perfect marriage between our tried-and-true base machines with our state-of-the-art DHG V grab body. The new generation GB 50 is our latest offering to help our customers work 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 improve this classic machine, giving you maximum efficiency with minimum complexity. The new GB 50 has the reliable mechanical, electronic and hydraulic systems that Bauer is known for, operating together in a perfect balance, without any additional bells and whistles to bog down your productivity. The simplified, grab-focused end-result is easy to operate, making it the perfect choice for creating the high-quality diaphragm walls that your customers require. On top of all this, service and maintenance are easier than ever, thanks to our brand new BT 70 base carrier.

With additional components like the B-tronic control system, and options like our patented free-fall winch and TD4 Turning Device, you'll be able to deliver on time, even in challenging soil conditions.



- New generation base carrier BT 70 with optimized hydraulic system
- Optimized service & maintenance with patented service platform
- First GB with Tier 4 engine option for CE Certification
- Compact swing radius

GB 50 Hydraulic Grab

Wall thickness:	0.4 – 1.5 m
Wall depth:	80 m
Maximum hoisting force:	500 kN (2 x 250 kN)
Max. hook load (incl. soil filling):	28 t
Weight (without grab):	71 t – 83 t
Engine:	261 kW (Tier 3 – CAT C9)
	261 kW (Tier 4 – CAT C9.3)



- 1 Extendable undercarriage UW 95
- 2 Upper carriage BT 70
- 3 Stackable counterweights
- 4 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)

BT 70 Upper carriage

- Integrated service platform for easy and safe maintenance work, which can be carried out from the ground or platform level
- Access ladder to upper structure for HSE compliance
- FOPS compliant, modern cabin with rear-view camera, winch camera, flashing warning light and audible reverse warning system meets all HSE requirements
- Bauer comfort cabin meets highest comfort
- Intelligent layout of instruments and display screens for easy operation and maximum view of grabbing position
- Variably stackable counterweights for HSE compliance
- Decreased swing radius for increased mobility



Undercarriage

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

High-performance CAT engine

- Conforming to exhaust emission standards: Stage III A / Tier 3 or Stage IV / Tier 4 final
- Low fuel consumption due to optimized design of hydraulic system
- Low noise emission due to clever sound protected installation
- Worldwide CAT-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

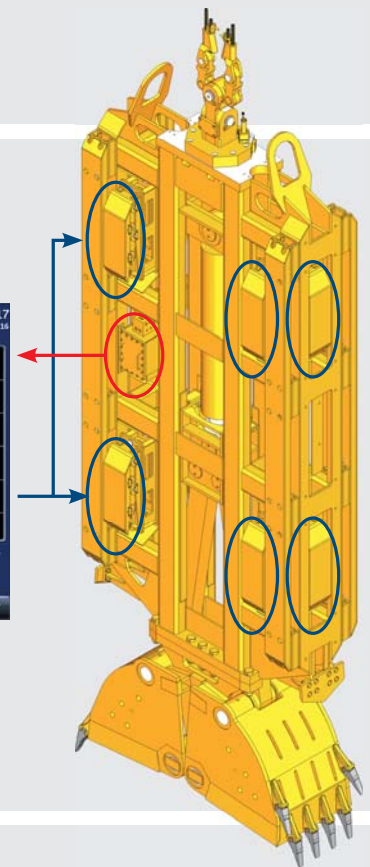


Winch system

- 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
- Available with 2 free-fall or 2 lifting winches
- Optional free-fall automatic mode in combination with 2 free-fall winches

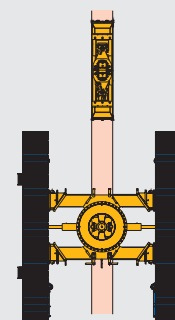
Grab control system

- 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 high resolution 10,4" color screen

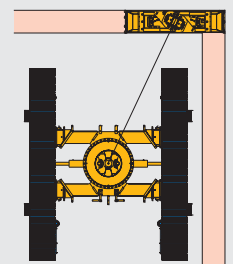


Turning device TD 4

- GB 50 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



TD 4 in 90°



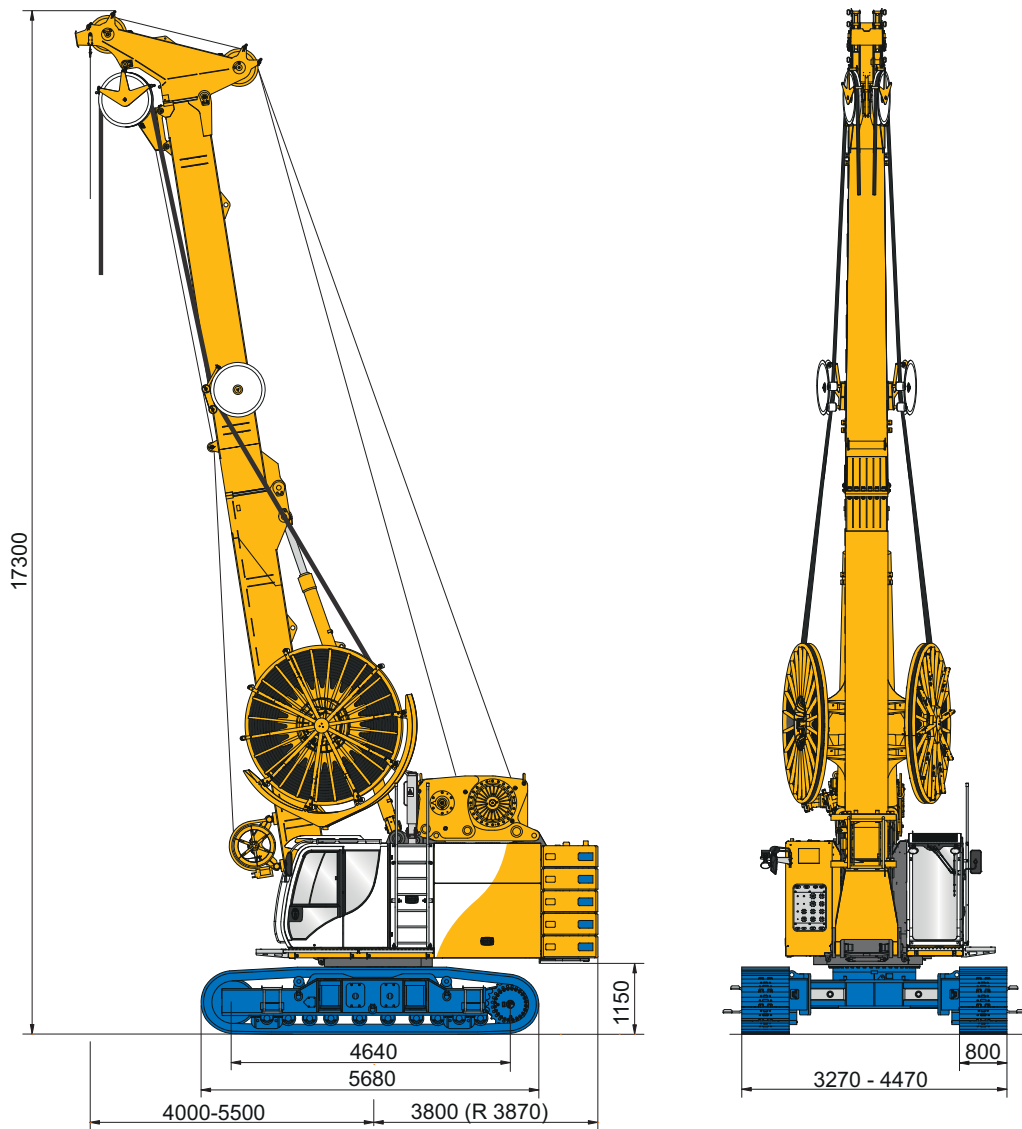
TD 4 in 25°

Technical Specifications



GB 50 Hydraulic Grab

Max. hook load	28 t
Max. hoisting force	500 kN
System pressure	350 bar
Main pump max. flow	2 x 210 l/min + 130 l/min
Max. wall depth	80 m
Rated output ISO 3046-1	261 kW @ 1,800 rpm
Base Carrier	BT 70
Engine Stage III A - Tier 3	CAT C 9
Engine Stage IV - Tier 4 final	CAT C 9.3
Engines conform to ECC 97/68 EL-EPA/CARB	
Rated output ISO 3046-1	261kW @ 1,800 rpm
Diesel tank capacity	600 l
Main winch	
Hoisting winch - 2 units	M6 / L3 / T5
Line pull (1st layer) effective	250 kN
Rope diameter	28 mm
Line speed (max.)	80 m/min
Free-fall winch - 2 units	M6 / L3 / T5
Line pull (1st layer) effective	250 kN
Rope diameter	28 mm
Line speed (max.)	77 m/min
Crawler	UW 95
Crawler type	B 7
Traction force	730 kN
Recommended Grab	Bauer 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

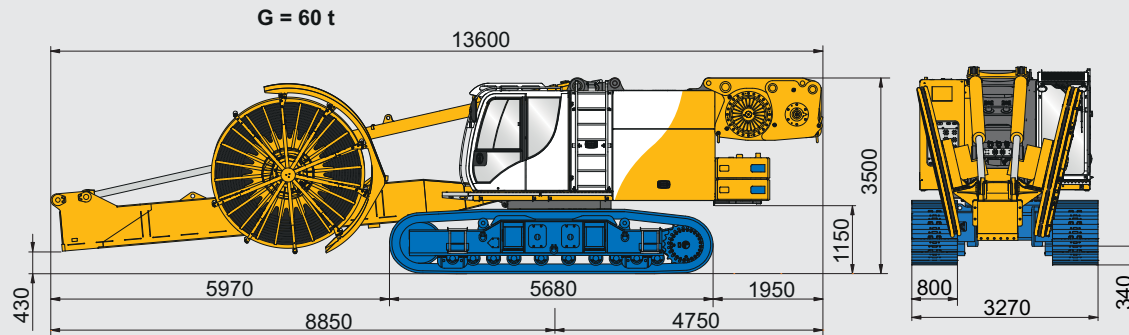


Dimensions

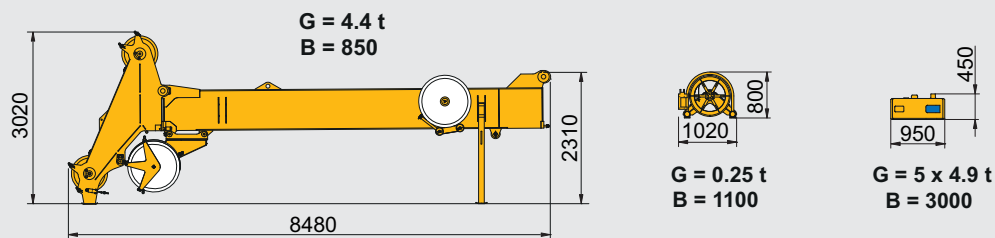
Total height	17,300 mm
Overall crawler length	5,680 mm
Overall crawler width	3,270 – 4,470 mm
Center line of grab to swing center	4,000 – 5,500 mm
Swing radius of rear end	3,870 mm

Transport Dimensions and Weights

Base Carrier



Mast and Counterweight



Grab System



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