

# BAUER GB 80 S

## Hydraulic Grab Carrier

Grab System

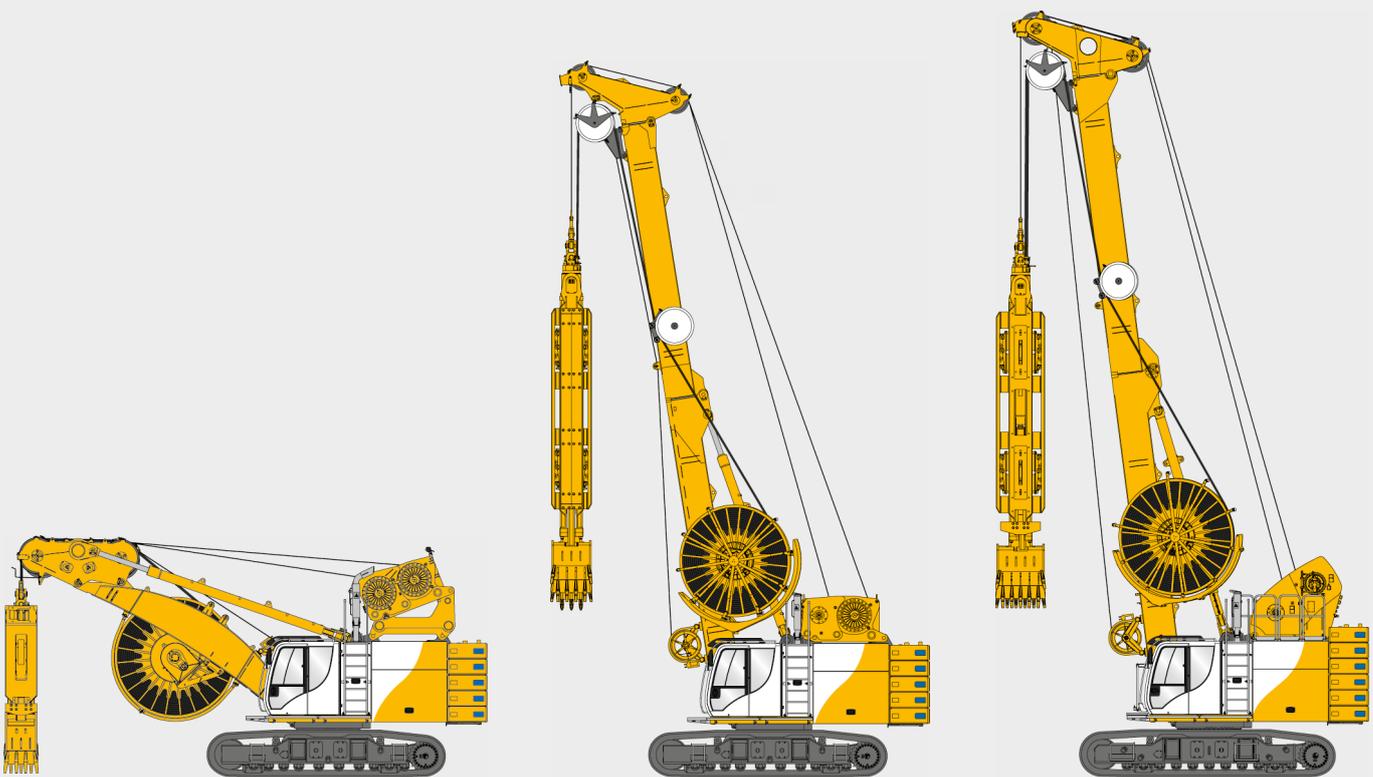


## GB 80 S

The BAUER GB line is the ideal platform for hydraulic grab application, easy to operate, with maximum efficiency and minimum complexity. Its compact dimensions and straightforward handling are complemented by the advanced B-Tronic system, which integrates the latest control and assistance systems. In combination with the proven and tested hydraulic grab DHG/V it is the perfect choice for complex diaphragm wall projects around the world.

The GB 80 S has a maximum excavation depth of 80 m and is designed for hydraulic grabs up to 1,800 mm panel width. For challenging ground conditions, the new model of GB 80 S is now available with an optional single-layer free fall winch. To guarantee a vertical panel, the TD4 turning device and the optional steering flaps of the grab are important tools for the operator.

The new model of GB 80 S also features the Energy-Efficient Power (EEP) package amongst other enhancements for increased efficiency; the main winch with energy recovery system causes a significant reduction of energy consumption, contributing to a more sustainable and cost-effective operation.



GB 50 Low Headroom

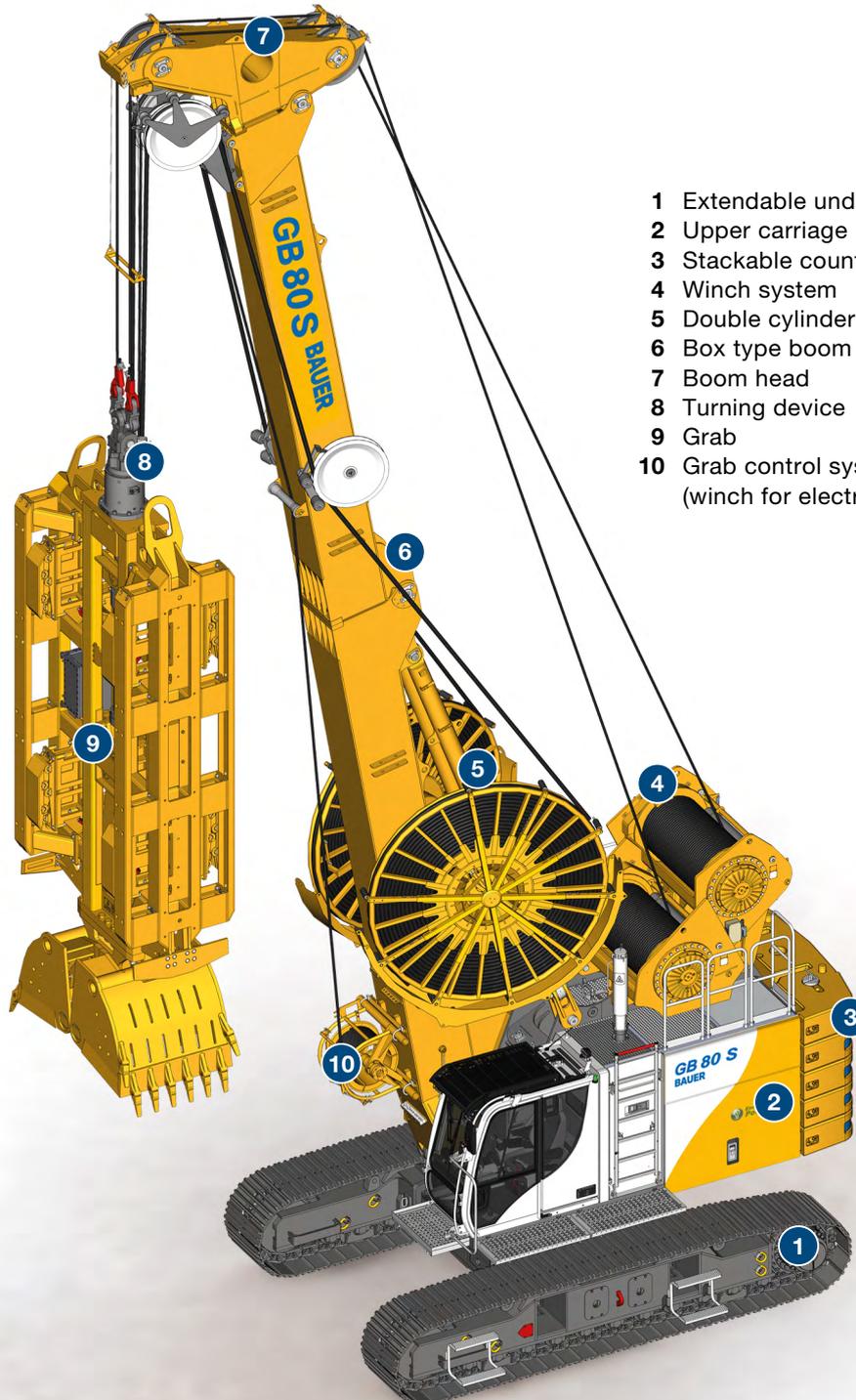
GB 50

GB 80 S

- Base carrier with Energy-Efficient Power
- Optimized service and maintenance with patented service platform
- Single layer winch for long lifetime of wire ropes
- Compact swing radius

## GB 80 S Hydraulic Grab

Wall thickness:	0.4 – 1.8 m
Wall depth:	80 m
Maximum hoisting force:	550 kN (2 x 275 kN)
Max. hook load (incl. soil filling):	32 t
Weight (without grab):	100 t
Engine:	CAT C9.3B 310 kW



- 1 Extendable undercarriage
- 2 Upper carriage
- 3 Stackable counterweights
- 4 Winch system
- 5 Double cylinder kinematic system
- 6 Box type boom
- 7 Boom head
- 8 Turning device
- 9 Grab
- 10 Grab control system (winch for electric cable)



## BT 80 upper carriage

- Integrated service platform for easy and safe maintenance
- Access ladder to upper structure for HSE compliance
- FOPS compliant, Bauer comfort cabin with rear view camera, winch camera, flashing warning light and audible reverse warning system meets all HSE requirements
- Intelligent layout of instruments and display screens for easy operation and maximum view of grabbing position
- Stackable counterweights for HSE compliance
- Decreased swing radius for increased mobility

## Efficient winch system

- Closed loop hydraulic system for more efficiency (up to 25 % less diesel consumption for winch operation)
- High effective line pull and line speed
- Load classification M6 / L3 / T5 for heavy-duty, continuous operation
- Single layer winch for minimized rope wear
- A special grooving system on the drum and rope pressure roller, reducing wear on the wire rope
- Pinned connection for easy transportation
- Transparent gauge for easy oil check

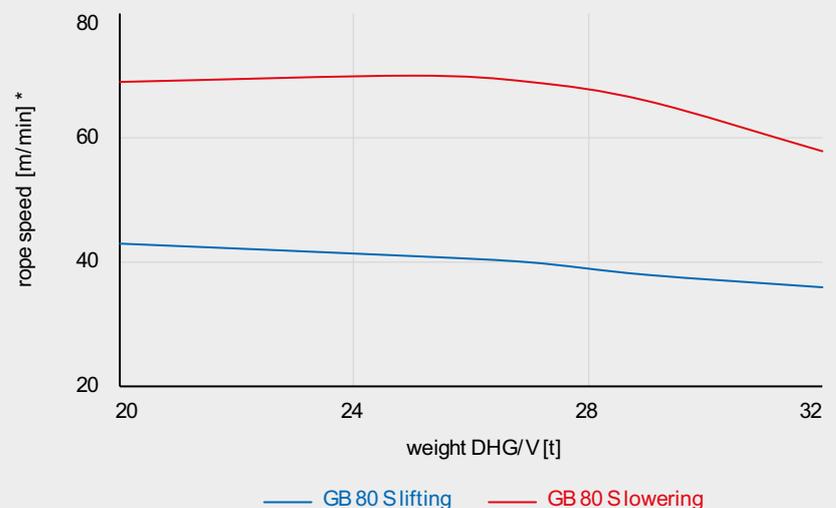


## Free-fall option

- Optional freefall winches for improved performance, especially in hard ground conditions
- Two foot-pedals for control of freefall brake



## Average rope speed hydraulic grab operation



\* Measured values of GB 80 S with lifting winches

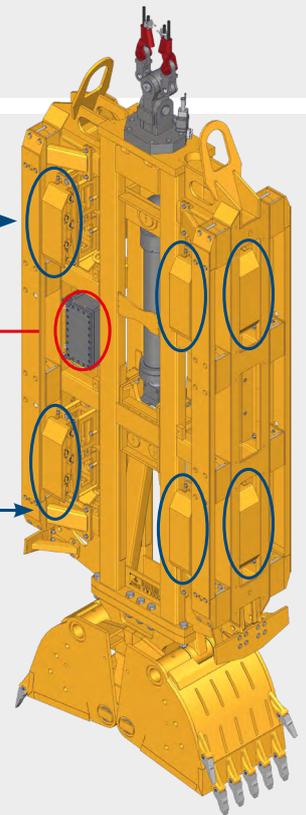


### HDSG hose winding system for hydraulic grab

- Proven spooling system for hydraulic hoses for hydraulic diaphragm grab operation to a maximum excavation depth of 80 m
- Winch for heavy-duty hybrid (electric and data) cable for online data transfer between DHG/V and base machine

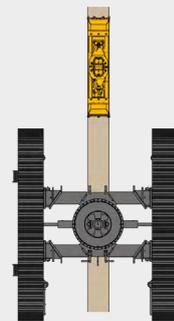
### Grab control system

- Online data transfer from grab to the operator's cabin by heavy-duty hybrid 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
- Hybrid cable is automatically reeled off by a hydraulically operated cable recoil system
- B-Tronic System with high resolution 10.4" color screen

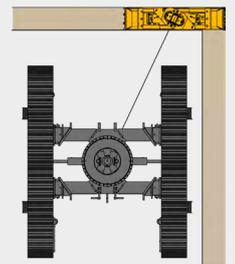


### Turning device TD 4

- GB 80 S 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°

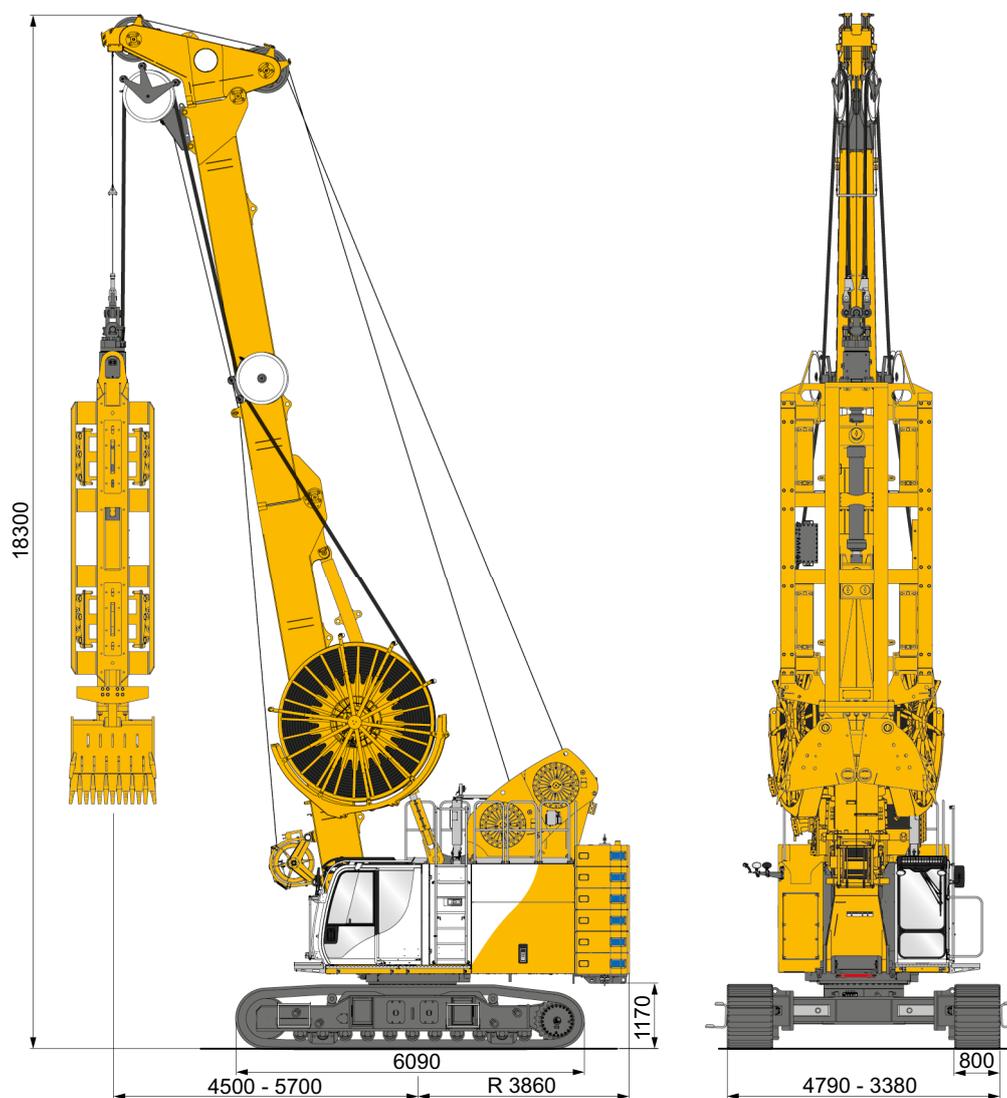
# Technical Specifications and Dimensions

GB 80 S			
Max. hook load	32 t		
Max. hoisting force	550 kN		
System pressure	350 bar		
Main pump max. flow	2 x 280 l/min + 2 x 325 l/min + 1 x 135 l/min		
Max. wall depth	80 m		
<b>Base Carrier</b>	BT 80		
Engine	CAT C 9.3 B		
Rated output ISO 3046-1	310 kW @1,800 rpm		
Engine conforms to	UN/ECE R96*	China Nonroad Stage IV	EU Stage V EPA/CARB Tier 4 final
Diesel tank / AdBlue tank capacity	730 l / ---	730 l / 65 l	730 l / 65 l
Ambient air temperature (at full power) up to	45 °C		
Sound pressure level in cabin (EN 16228, Annex B)	L <sub>pA</sub> 80 dB (A)		
Sound power level (2000 / 147EC and EN 16228, Annex B) guaranteed (measured)	L <sub>WA</sub> 108 (106) dB (A)		



\* Exhaust emission equivalent Tier 3 / Stage III A emission standards

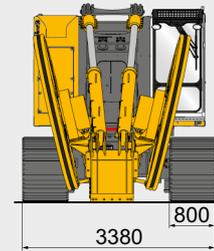
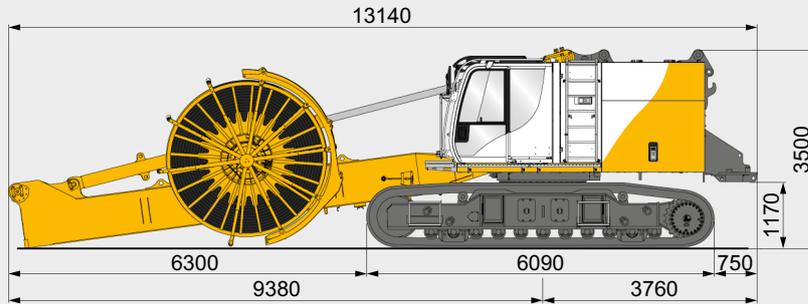
<b>Main winch - single layer</b>	
<b>Hoisting winch - 2 units</b>	M6 / L3 / T5
Line pull (1st layer) effective	275 kN
Rope diameter	32 mm
Line speed (1st layer max.)	70 m/min
<b>Freefall winch - 2 units</b>	
Line pull (1st layer) effective	275 kN
Rope diameter	32 mm
Line speed (1st layer max.)	77 m/min
<b>Under carriage</b>	
Crawler type	B 7
Traction force	730 kN



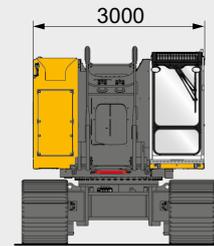
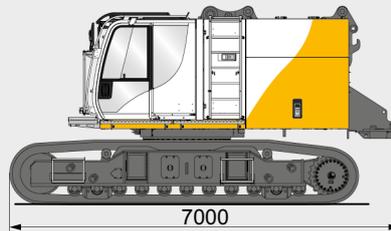
## Transport Dimensions and Weights

### Base Carrier

**G = 54 t**



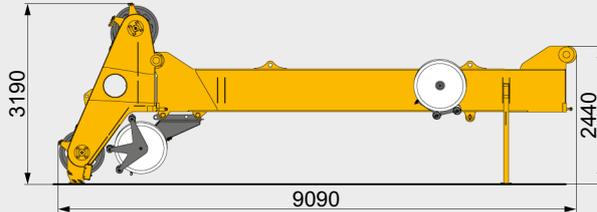
**G = 45 t**



**G = Weight**  
**B = Width, overall**

### Mast and Counterweight

**G = 5.8 t B = 880 mm**



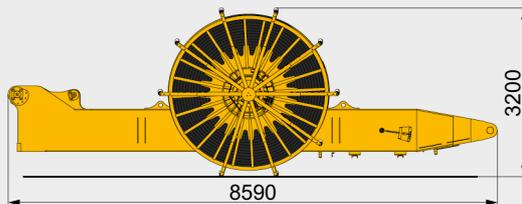
**G = 0.25 t**  
**B = 1,100 mm**



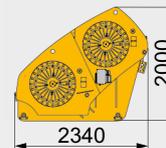
**G = 6 x 4.9 t**  
**B = 3,000 mm**



**G = 7.5 t B = 3,100 mm**



**G = 10 t**  
**B = 2,240 mm**



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