

# BCS 125

## BAUER Cutter System 125

*BC-System*



# BCS 125 – BAUER Cutter System 125

## Established Cutter Technology

By using the BAUER trench cutter system BCS 125 you can be assured of a product consisting of proven and reliable components. Our experience in the construction of trench cutter systems has contributed to the success of our customers in terms of efficiency and reliability since 1984.

The BCS 125 is a perfect combination of three long established systems – the trench cutter BC 32 or BC 35, the hose handling system HSS 38 or HSS 50 and the MT 125 base carrier. Its main advantages are as follows:

- High productivity and economic operation
- Easy and safe handling of the equipment
- Long life expectancy and lasting value
- Easy transport and rigging

### HSS 38 and HSS 50

The hose synchronization system HSS is designed for using the cutter on a drilling rig. The guide wheels for the mud hose, the hydraulic hoses and the cutter rope are mounted on a special sledge, which is lifted and lowered by the main winch of the base carrier. The uniform movement of the guide wheels is mechanically synchronizing the movement of the hoses and the cutter rope.

For the BCS 125 system two different versions of the HSS were designed: the HSS 38 for a max. cutting depth of 38 m (hook load 38 t) and the HSS 50 for 50 m max. cutting depth (hook load 32 t).

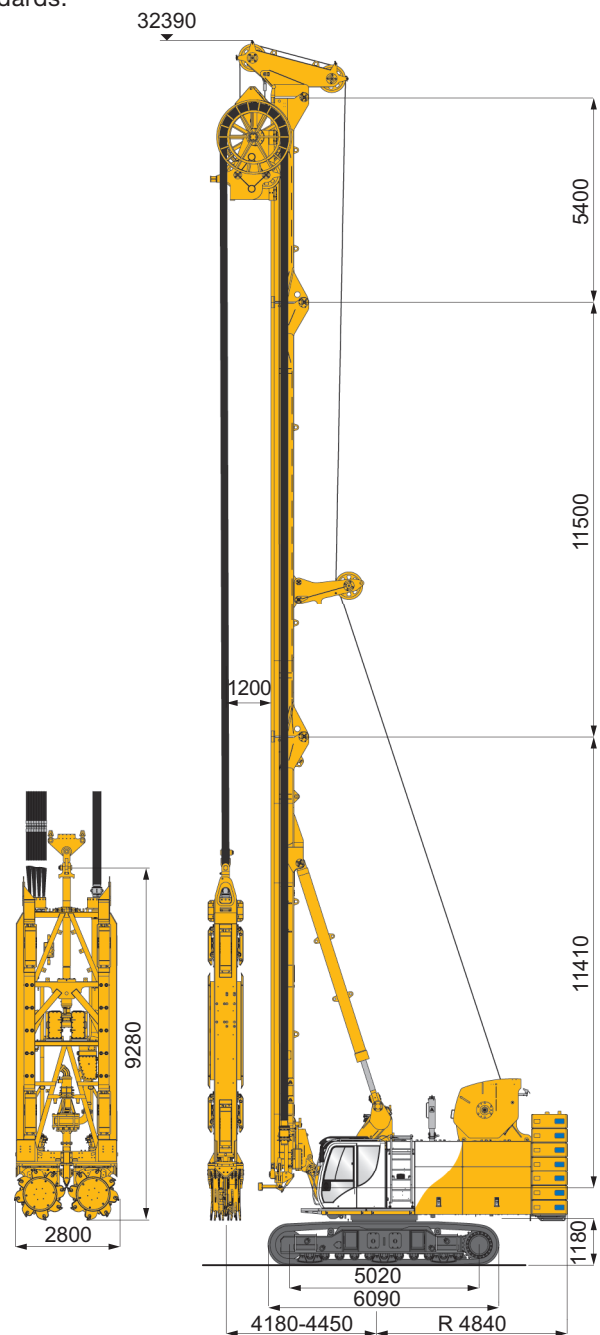
### BC 32 and BC 35

The technically advanced trench cutters BC 32 and BC 35 are well established cutter units. They are working successfully on most diverse construction projects all over the world, even in restricted site conditions, at great depths and in difficult soil formations. The BC 32 can be used with the HSS 50 whereas the BC 35 due to its longer cutter frame has a bigger weight and works perfectly with the HSS 38.

### MT 125

The MT 125 the ideal base machine for an efficient trench cutter system. The solid Bauer design offers high stability as well as HSE features like rear view camera, integrated service platforms and ergonomic cabin design with high comfort for the operator. The B-Tronic system is an integrated system used to control the cutting functions and display the current working parameters in real-time. Assistance systems support the operator and increase the productivity of the equipment.

The MT 125 comes with a highly efficient VOLVO engine for Tier 4f / Stage V or ORA / China Stage III emission standards.



## Highlights

<b>Max. cutting depth</b>	<b>50 m</b>
<b>Max. torque</b>	<b>2 x 91 kNm</b>
<b>Total weight BCS 125 Cutter System</b> (with BC 32 and 1,200 mm standard cutter wheels)	<b>appr. 156 t</b>

## Technical Specifications

Trench Cutter	BC 32	BC 35 <sup>1)</sup>			
<b>Dimensions</b>					
Overall height	9,280 mm	12,600 mm			
Trench length	2,800 mm	2,800 mm			
<b>Steering flaps</b>					
	<b>12 pcs.</b>	<b>12 pcs.</b>			
Stroke steering flaps (top and bottom)	100 mm	100 mm			
<b>Mud pump</b>					
Ø Delivery pipe	152 mm (6")	152 mm (6")			
Max. flow rate	450 m <sup>3</sup> /h	450 m <sup>3</sup> /h			
<b>Gearbox</b>					
	<b>2 x BCF 9</b>	<b>2 x BCF 9</b>			
Max. torque	91 kNm	91 kNm			
Speed of rotation	0-25 rpm	0-25 rpm			
<b>Weight (approx. for trench length 2,800 m)</b>		<b>Weight cutter<sup>2)</sup></b>	<b>Add. weight possible</b>	<b>Weight cutter<sup>2)</sup></b>	<b>Add. weight possible<sup>3)</sup></b>
<b>Trench width</b>					
640 mm	25.6 t	2.8 t	30.5 t	-	
800 mm	27.8 t	2.8 t	32.9 t	1.6 t	
1,000 mm	29.0 t	2.8 t	33.2 t	1.6 t	
1,200 mm	29.6 t	2.8 t <sup>1)</sup>	33.9 t	1.6 t	
1,500 mm	32.4 t	2.8 t <sup>1)</sup>	36.6 t	-	
<b>Hose Handling System – HSS</b>		<b>HSS 50</b>	<b>HSS 38</b>		
Cutting depth	50 m (with mast extension)		38 m		
Max. hook load	32 t		38 t		
<b>Base Carrier – MT 125</b>					
<b>Upper carriage</b>			<b>BT 110</b>		
<b>Engine</b>		<b>Volvo TAD 13</b>	<b>Volvo TAD 13</b>		
Rated output ISO 3046-1	345 kW @ 1,900 rpm		405 kW @ 1,900 rpm		
Engine conforms to	- EEC 97/68 EC		Stage V		
	- EPA/CARB	ORA	Tier 4f		
	- GB2089 1-2014	Stage III			
Diesel tank / AdBlue tank capacity	970 l / -		970 l / 70 l		
Ambient air temperature (at full power) up to			45 °C		
Sound pressure level in cabin (EN 16228, Annex B)			LP <sub>A</sub> 80 dB(A)		
Sound power level (2000/147EC and EN 16228, Annex B)			LW <sub>A</sub> 110 dB(A)		
<b>Undercarriage</b>			<b>UW 125</b>		
Crawler type			B 7		
Traction force, effective			780 kN		
Overall width of crawlers (retracted / extended)			3,380 mm / 4,780 mm		
Width of track shoes			800 mm		
<b>Cutter winch</b>			<b>M6 / L3 / T5</b>		
Max. recovery force			600 kN		
Winch pulling force, effective / nominal			300 kN / 360 kN		
Rope diameter			36 mm		

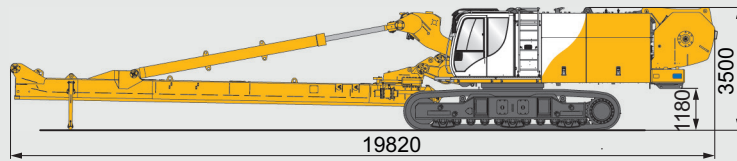
1) For HSS 38 only

2) Weight cutter with standard cutter wheels and guide frame

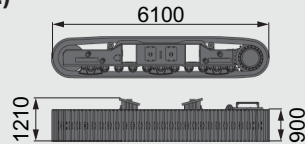
3) Additional extension plates between steering flaps

## Transport Data

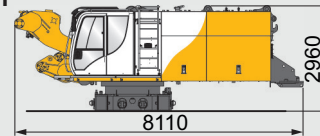
**G = 80 t**  
**W = 3,380 mm**



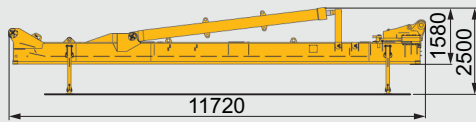
**G = 10 t ea. (2 pcs.)**



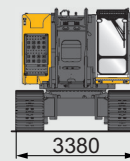
**G = 34 t**  
**W = 3,000 mm**



**G = 12.8 t**  
**W = 2,300 mm**



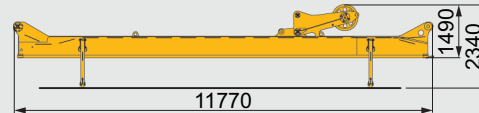
**G = 60 t**



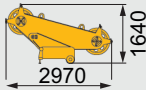
**G = 1.9 t**  
**W = 1,000 mm**



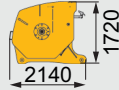
**G = 4.5 t**  
**W = 1,600 mm**



**G = 1.3 t**  
**W = 800 mm**



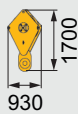
**G = 7.2 t**  
**W = 1,600 mm**



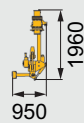
**G = 4.9 t ea. (7 pcs.)**  
**W = 3,000 mm**



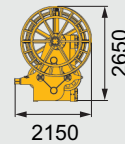
**G = 0.6 t**  
**W = 460 mm**



**G = 1.0 t**  
**W = 3,000 mm**



**G = 3.0 t**  
**W = 2,600 mm**



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