



QBL Baulaser GmbH - A Hexagon company



# Pipe laser

## QL 125

## QL 125 s

### Compact dimensions

The QL 125 and QL 125 s lasers are designed for use when space is limited. Its short length means the laser can be used in tight bends and narrow manholes. The minimum pipe diameter is 125 mm.



### Robust housing

The robust cast-aluminium housing is a common feature of QBL's pipe lasers. A sensitive sensor reliably compensates for external vibrations.

### Automatic dual axis compensation

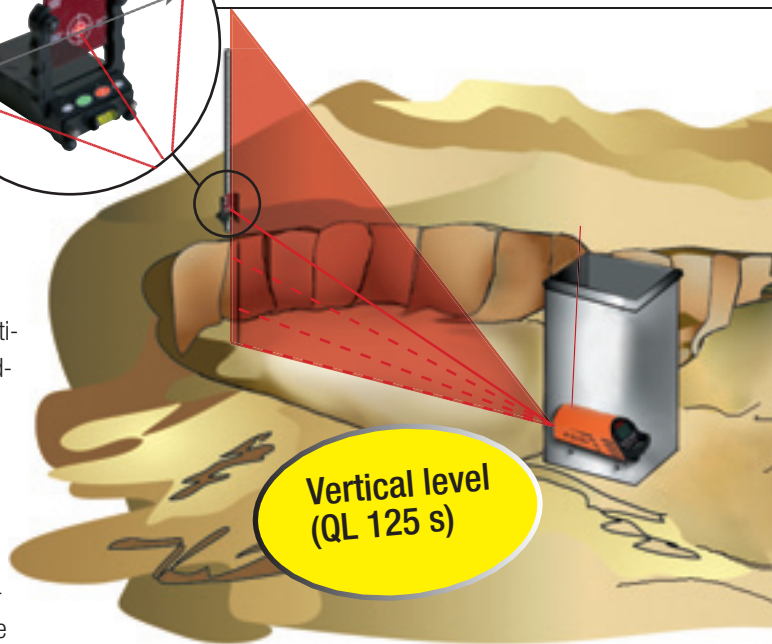
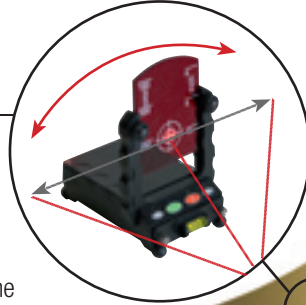
The dual axis automatic system compensates slopes of transverse axis up to 6°.



### Automatic target-find-system

The QL 125 s communicates with the active target.

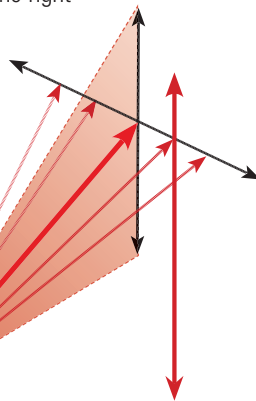
Place the laser QL 125 s and the active target plate and activate the automatic target-find-system at the target plate. The laser beam of QL 125 s will automatically find the center of the target plate. It is also possible to use a standard receiver of any rotating laser instead of the active target-plate: after activating the vertical laser level you can move it with the remote-control-unit into the right direction.



### Vertical level

A beam of a standard pipelaser indicates direction and slope as laser point only.

The QL 125 s has additionally a rotating beam which indicates a vertical level exactly in direction of the laser-beam. This vertical level is very useful to find a range-pole outside the ditch, to adjust shutterings and bulkheads. There are many other applications to use a vertical level together with a slope-beam. The vertical beam can be detected with a standard laser-receiver.



**The QL 125 s is much more than only a pipe laser.**

# Compact & powerful pipe laser

**QL 125**  
**QL 125 s**







### Clear display

The display provides easy to read information using large characters about grade, line, cross axis inclination, tilt, battery charge state and more. The illuminated display can be easily read, even in the dark.



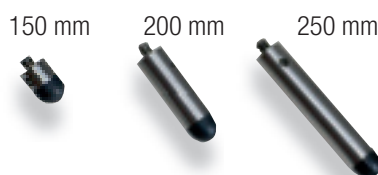
### Waterproof

The housing is water- and dust-proof to IP68 standard and can be immersed without problems. No matter how quickly water and dirt appear in the invert. The QL125 can withstand it.



### Versatile configuration

Interchangeable feet allow the QL 125 to be configured to suit the widest range of site situations. The target plate does not require any extra feet.



### Manual cross axis levelling

Cross axis orientation can be done very conveniently using the digital spirit level in the display. If the automatic levelling range of the cross axis is exceeded, the QL 125 warns the user with a pulsating beam.

### Lithium-ion batteries

Lithium-ion batteries ensure that the QL125 is always ready for action. A second battery (optional) can be charged outside the laser. The QL 125 can continue to be used even when the battery is being charged inside the device.

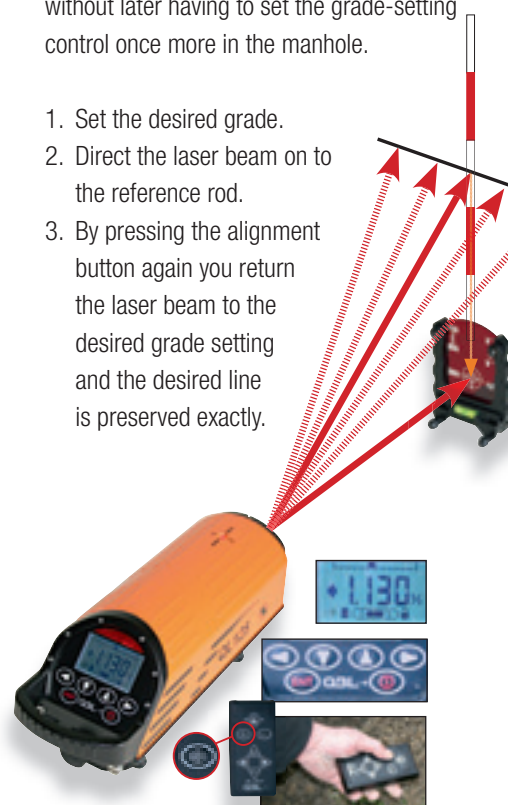
### Convenient remote control

The remote control has a range of 100 m. All the important functions can be set using the remote control. The Sleep mode is particularly useful when taking breaks from work.

### Manual alignment

The manual alignment function allows you to direct the laser by remote control on to a reference rod outside the excavation, without later having to set the grade-setting control once more in the manhole.

1. Set the desired grade.
2. Direct the laser beam on to the reference rod.
3. By pressing the alignment button again you return the laser beam to the desired grade setting and the desired line is preserved exactly.



### Accuracy

Pipelaying demands precision over long distances. Therefore the QL 125 has to work accurately. Levelling works to the same 0.001% accuracy as the grade-setting control. Consistent precision and reliability are ensured by the robust mechanism, optics and electronics, all designed for life on site.



**Range**  
> 300 m

### Inclination angle

The QL 125 can cope with the sort of inclines and declines typically found in civil engineering. Even grades of -15 to +45 % are no problem for the QL 125.

+ 45 %

- 15 %



## Technical data QL 125 s

Range:	> 300 m
Diode:	635 nm
Laser class:	3R
Accuracy:	± 10" (± 5 mm/100 m)
Self-levelling:	-15 % to +45 %
Threaded mount:	5/8"
Protection class:	IP68
Operating time:	40 h
Battery:	Li-Ion
Temperature range:	-20 °C to +50 °C
Dimensions:	305 x 105 x 113 mm
Setting range:	
Line:	±10°
Grade:	-10 % to +40 %
Setting accuracy:	0,001 %



**Compact & powerful!**



Target plate



Clip-in target plate



Remote Receiver (optional)  
Automatic target-find-system

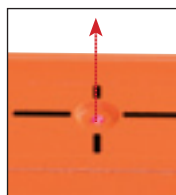
### Delivery package QL 125 or QL 125 s:

Remote control QL 125-7, charger LDG 125, target plate, 3 sets of legs 4x 150-200-250 mm, operating instructions de/en/fr.

**Optional:** Remote Receiver, Clip-in target plate, battery cable

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### Pivot point and 5/8" thread

The bright LED on the top indicates the pivot point of the device and allows exact alignment. The 5/8" tripod mount on the underside is also centred on the pivot point

## Parts and accessories

## Part. No.



QL 125 complete

91-125-50100



QL 125 s complete

91-125-50200



Remote control QL 125-7

91086-504 00



Charger LDG 125

91085-544 00



Target plate

91383-502 00



Standard target plate

91383-504 00



Laser foot (4 x 200, 4 x 250 mm)

91143-501 00



Battery cable

91055-504 00



Clip-in target plate

91383-503 00



Energy pack

91085-543 00



Remote Receiver

91086-700 00

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