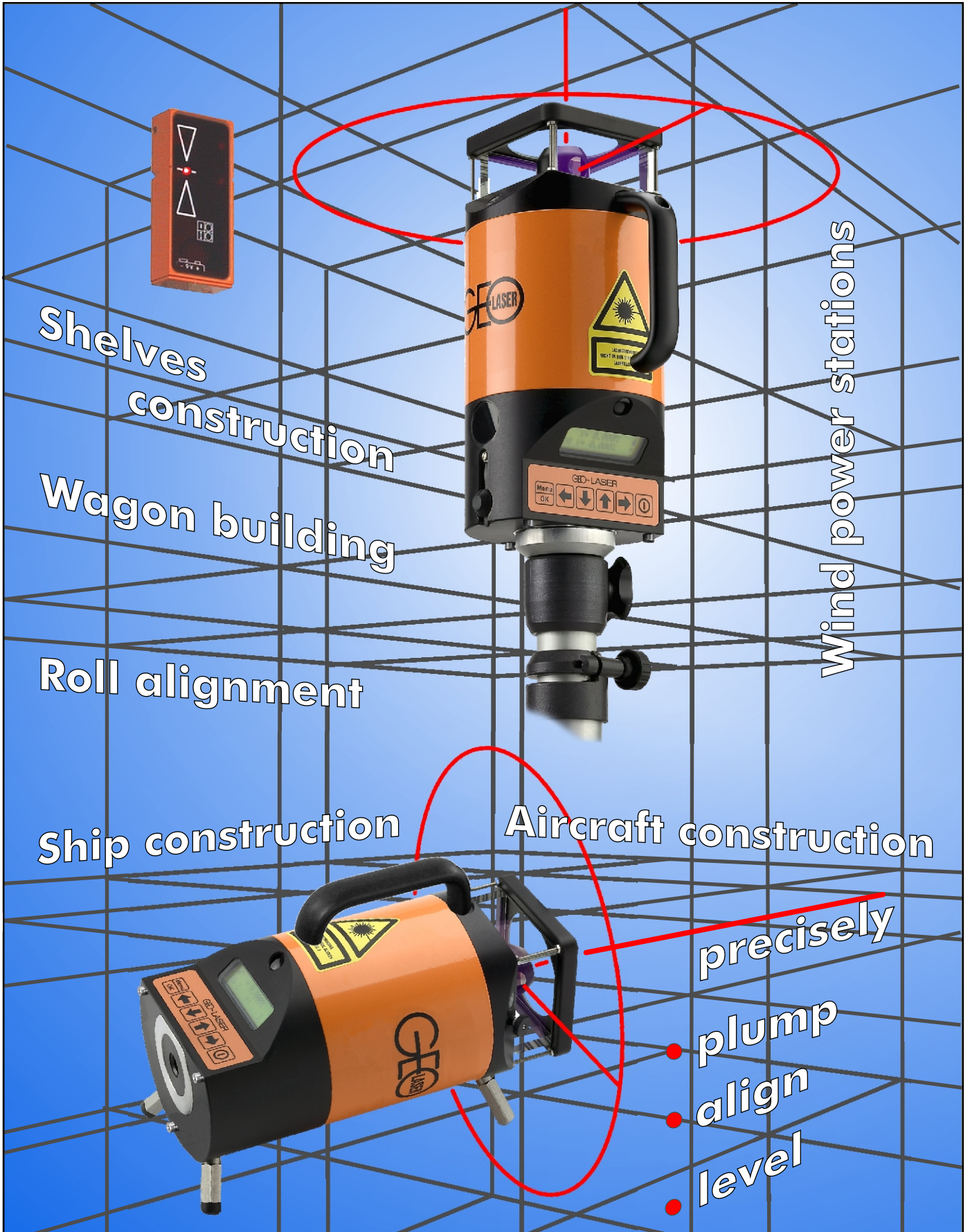


Automatic Precision Laser PL-90



Shelves
construction

Wagon building

Roll alignment

Ship construction

Aircraft construction

Wind power stations

- precisely
- plump
- align
- level

Automatic Precision Laser PL-90

Precision in Perfection

The PL-90

is an all-round laser for horizontal and vertical use capable of electronic self-levelling over three axes. Equipped with a beam split prism in the rotor head, it can also be used as a square or plumb laser. It emits a stationary or rotating laser beam, which turns into a light plane.

Performance features

● Fully automatic

Automatic levelling and cut-out in case of low battery or jerky movements.

● Manual rotor adjustment

Easy operation for exact positioning of the laser beam, rotor fixing and plumbing down with bubble level in rotor head.

● Direction automatic function

In conjunction with the external control receiver LE-58 and cordless infra-red transfer perfect fixing of direction axis.

● Scan operation

Generates a limited, significantly brighter laser beam line. Position and length can be regulated. New: Automatical rotation of laser line.

● Automatic can be switched off

Either one or both axes. Therefore inclination adjustment by points of reference possible.

● Special laser beam quality

Diode laser with visible laser beam, high-powered lens, high life expectancy and low power consumption.

● Built-in rechargeable battery

Cordless laser operation for 16 hours, makes the user independent of external power sources. Recharged in five hours. Special feature: Protection against discharging by automatic transport cut-out.

● Increased safety

Control indicators with blinking warning system for levelling, operating status and low battery.

● Illuminated, clearly legible LCD display

Self-explanatory, for on/off, device data, company data, lock function, rotor speed, rotor scan, operating status, battery level and menu.

● Robust metal housing

Plastic-coated, swept and filled with nitrogen, 100 % watertight.

● Checking and adjustment

Easily possible at the building site as well. The device does not have to be opened for adjustment.

● Further examples of use

Tank construction, construction of jigs and fixtures, escalator construction, body-making, turbine construction, rail construction, crane construction and building surveying.

GEO quality guarantee

The new generation of lasers is the result of years of experience in the research, development and production of laser devices for the construction industry.

The construction of the devices, the materials used as well as the GEO quality assurance system guarantee high functionality and life expectancy.



GEO-Feinmechanik GmbH

Laser for civil and underground engineering, interior works, machine control

Technical specifications

Laser type: diode, visible red, 658 nm
Laser class: 2
Output power plumb and rotating beam: < 1mW each
Beam diameter: 5 mm at laser
Range : to 100 m, Ø 200 m
..... depending on circumstances, laser receiver and rotor speed.

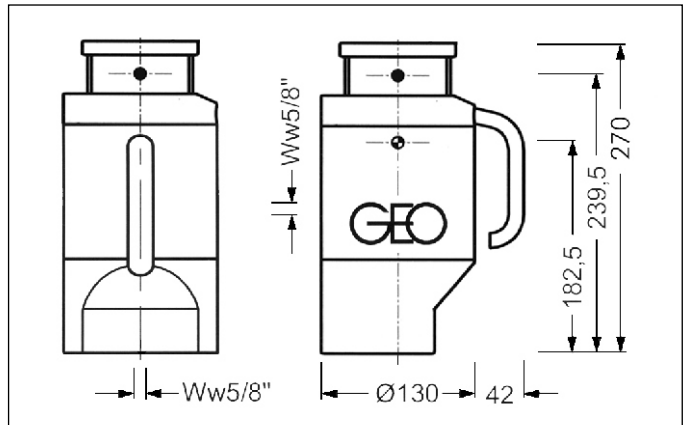
Automatic function: horizontal and vertical
Automatic function can be switched off: yes, either one or both axes
Self-levelling range: ± 5 %
Direction setting: ± 5 %
Direction automatic: up to 100 m with laser receiver LE-58
Rotor speed: adjustable in steps of 0 to 800 RPM
IFR remote control: depending on direction and circumstances

Angle error between standing and rotating beam: < 2 mm/100 m
Cone error: < 2 mm/100 m
Levelling accuracy: ± 0.0025 %

Operating time: NiCd-/ NiMh battery to 16 hours
External power supply: 11 to 14 V DC with cable 0117.00
Low battery cut-out: yes
Watertight: to 3.5 m
Temperature range: 0° C to + 40° C

Weight: 3.4 kg
Adjustment: possible in the field without having to open the device
Guarantee: 12 months

Dimensional sketch



Delivery package



GEO - partner of the construction industry for 40 years

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