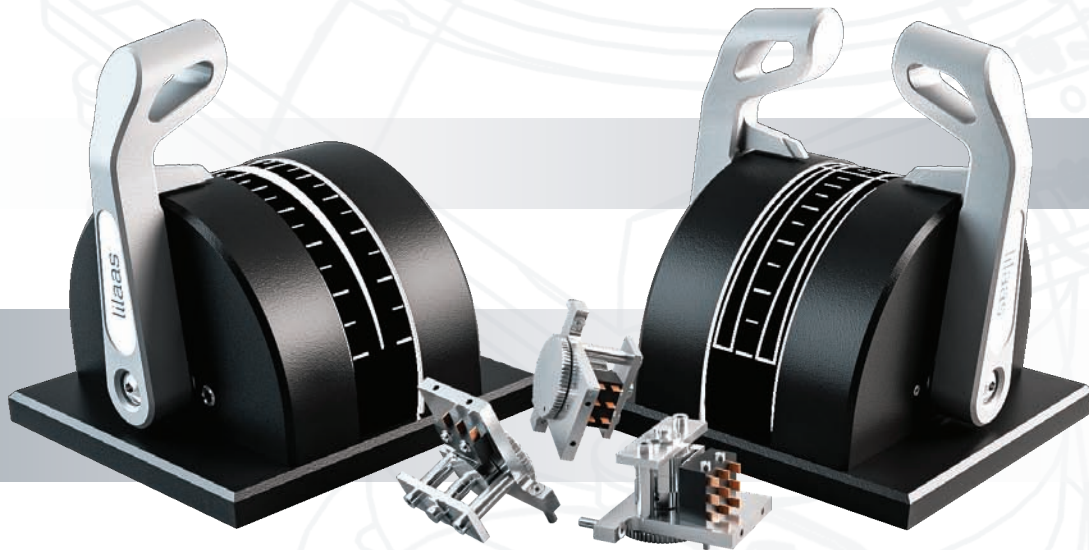




LE90 Control Lever

lilaas[®]



LE90, the high quality - low cost all-in-one thruster and propulsion lever

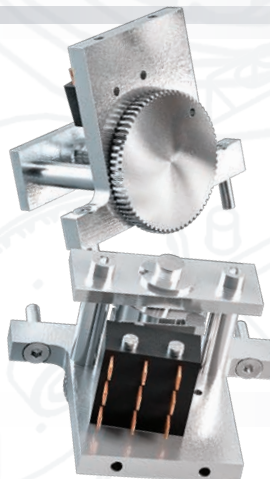
No need for dedicated thruster/propulsion, FWD or AFT levers, LE90 covers it all. Flush mounted with adjustable brakes and detents.

• Quality Control lever

- High quality - Low cost! Single or double lever.
- LED-illuminated interchangeable scales in the box. (5v or 24v)
- Space saving! Flush mounted, no parts under the plate.
- Snap on single/double switches available as option.
- Adjustable brakes and detents.
- Interchangeable single, double and triple switch modules.



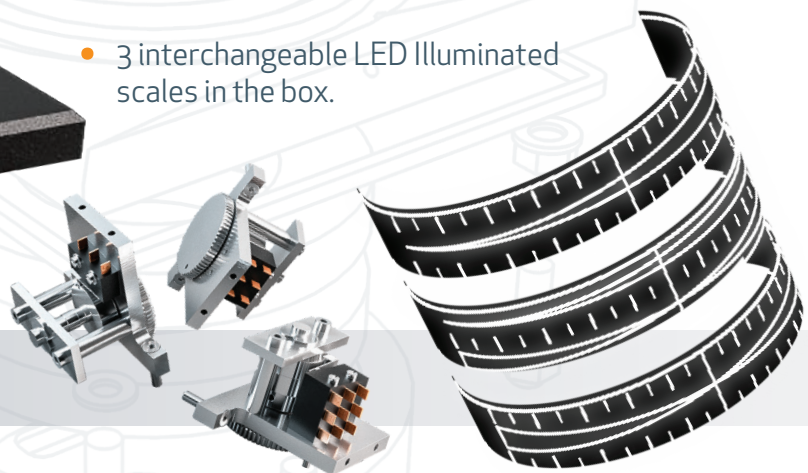
- Single or double lever.
- 5KΩ potentiometer.
- Detent in zero and 20% included.
- Mechanical movement +/- 60 degree.
- Adjustable friction.
- Block aft option. (additional screw in the box)
- Illuminated LED scale.





• Adjustable and customisable

- Available as single or double control lever.
- Interchangeable custom logo space on the handle.
- 3 pre-adjusted and easily interchangeable switch modules are available for both versions of the LE-90.
- Adjustment screws for adjusting friction, handle detent point and block movement aft.
- 3 interchangeable LED illuminated scales in the box.



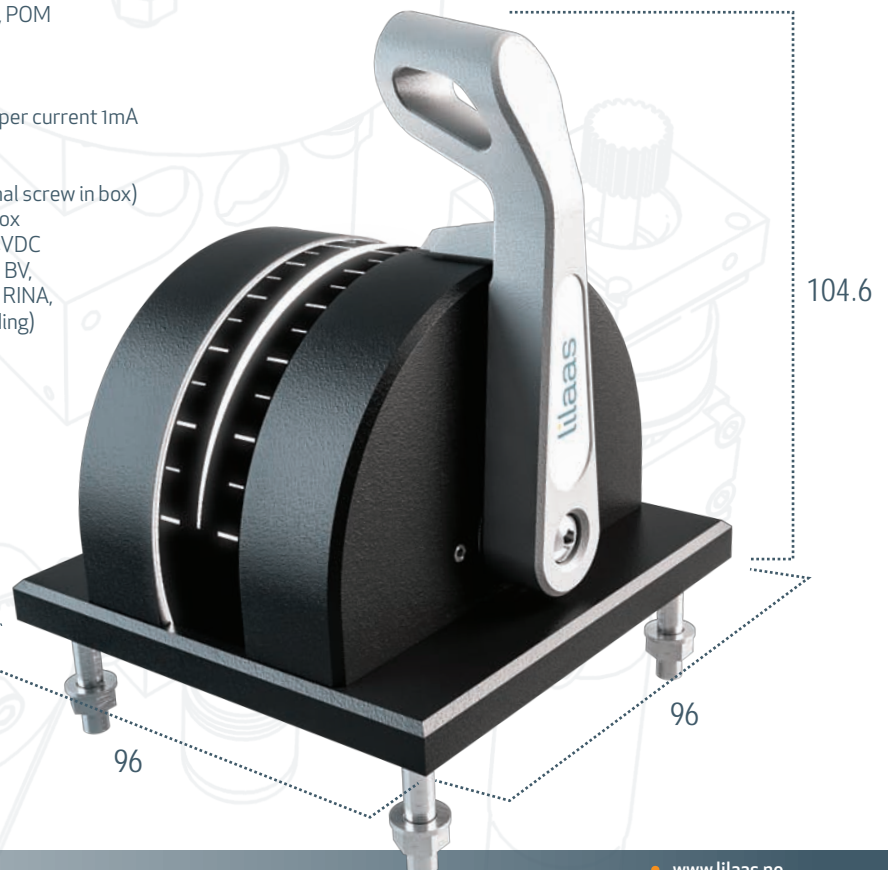
• Specification details

Enclosure:	IP66
Materials:	Aluminium, Steel A2, POM
Finish:	Anodised, SurTec
Appr. weight	900g
Handle movement / Electrical movement:	+/- 60° / 246 deg
Potentiometer:	5KΩ 350 deg max wiper current 1mA
Detent:	Zero and +/- 20%.
Friction:	Adjustable
Block aft movement:	One handle (additional screw in box)
Scale foil:	3 types included in box
Illuminated scale:	RGB led, 5VDC or 24VDC
Type approval *:	EN/IEC 60945, ABS, BV, DNV/GI, KR, LR, NK,, RINA, PRS, RS,C RS (*Pending)

- This control lever is one of several models developed and manufactured by Lilaas AS. It has been tested according to our final test and final control procedures.

• Product NO and additional products:

LE90S-01-01	LE90 Control Lever Single
LE90D-01-01	LE90 Control Lever Double
LF16441 LE90	2 x switch direction module
LF 16442 LE90	1 x switch zero module
LF16539 LE90	2 x switch direction + 1 x zero module





Lilaas AS is a world leading manufacturer of various types of control levers and joysticks for marine and offshore use.

As a result of unique design, top-grade materials and thorough test procedures, we produce products of high quality that requires a minimum of service and maintenance.

The control units from Lilaas include levers, controlling mechanism and accompanying electronics.

The products range from simple, one-axis control levers in different sizes, hand wheels and rudder controls to azimuth control units and multi-axis joysticks.

All units may be delivered motorised on all axes and with several optional features. The products comply with stringent certification requirements.

All kinds of vessels, from small fishing boats and ferries, via supply vessels to large tankers and cruise ships may be manoeuvred by control levers from Lilaas.

The products are certified by DNV and the company is certified under NS-EN ISO 9001: 2015.

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