

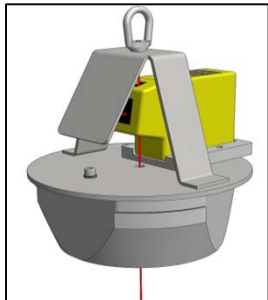
MASTER-LEE ENGINEERED PRODUCTS INC.

Reactor Head Laser Alignment Tool the laser alignment tool (LAT) is designed to be an aid in the process of placing the reactor head assembly on the reactor vessel

It projects a point of light to help target the correct position of reactor head. The LAT is placed in the head flange hole next to the hole used for the guide stud, the point of light will fall on the stud or stud hole plug directly next to the guide stud. This will provide a visible reference point for the position of the reactor head long before the head engages the guide stud.

The self-leveling feature of the LAT will compensate for up to 6° of variance from a true level condition. This feature will take into account the possibility of the head assembly not hanging perfectly plumb or slight variations in the head flange surface.

The self-centering base will place the laser within 1/16" of the center of the hole.



The LAT design also addresses FME requirements. The tool has a tie-off point to attach a lanyard. All fasteners are either welded or secured with a Nord-Lock washer.

The laser operates on 3 AA batteries and has an operating time of over 30 hours of continual use. The ON/OFF switch and battery compartment are accessible without any disassembly.

Laser Technical Specifications

Light Source: Semiconductor laser diode 630-650nm, visible

Working Range: +/- 100 feet

Accuracy: <1/4" @100 feet
(<6mm @ 30m)

Leveling: Automatic

Leveling Range: +/- 6°

Power Supply: 3 AA batteries, alkaline or Ni-cad rechargeable

Operating Temp: 0°F to 122°F
(-18°C to 50°C)

Storage Temp: -40°F to 158°F
(-40°C to 70°C)

Environmental: Water resistant; not submersible



TOOL HIGHLIGHTS

- Automatic Leveling
- Range: 100-ft
- FME Compliant
- 30+ Hour Battery Life
- Easy Maintenance and Cleaning
- Assembly Weight: approximately 12 lbs.