YASKAWA

# MotoLAC

Laser Applied Calibration with verification and automatic correction of the tool position and angle.

Controlled by
YRC1000

www.yaskawa.eu.com

# Long, trouble-free operation with consistent quality.

## The MotoLAC tool for calibration and automatic correction will ensure a long and trouble-free operation with consistent quality.

It can also reduce downtime during a change of tools or after a collision. The MotoLAC sensor design makes it possible to measure several of the tool's positions and thus adjust both its position and angle. Adjustment can be made in X, Y and Z but also in Rx and Ry.

Thanks to its robust housing, the laser sensor can tolerate harsh environments and can be used in almost all robot applications - from laser cutting systems to material handling.

## Scope of delivery

- Fork sensor.
- Metal bracket.
- MotoLAC Wizard and cable kit.

## Options

- Floor stand.

## Key benefits

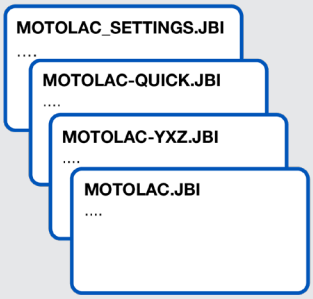
- Quick and easy tool calibration.
- Trouble-free operation.
- Minimizes downtime.
- Ideal when changing fixtures or tools.
- Reduces the need for touch up robot jobs after minor collisions.
- Three levels of control and adjustment from high speed Quick Check to complete control and adjustment of TCP and angle.
- Can be used in systems with our servo tracks or gantry.
- Language: English, German or Swedish.

## Note

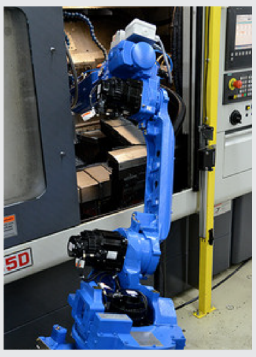
- Not available with ATEX classification.
- The object used for calibration must be circular and with a recommended size of 5 to 50 mm in diameter.

**MotoLAC Wizard workflow**

1. The Wizard guides you through the initial calibration and original tool data.




2. The output is tool data and three ready-to-use robot jobs.

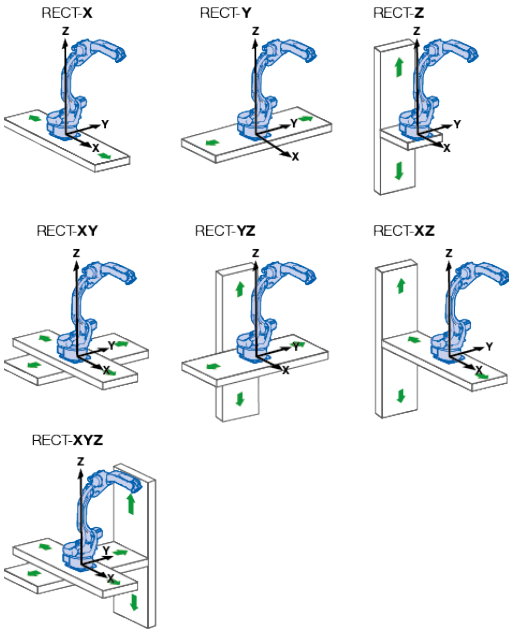


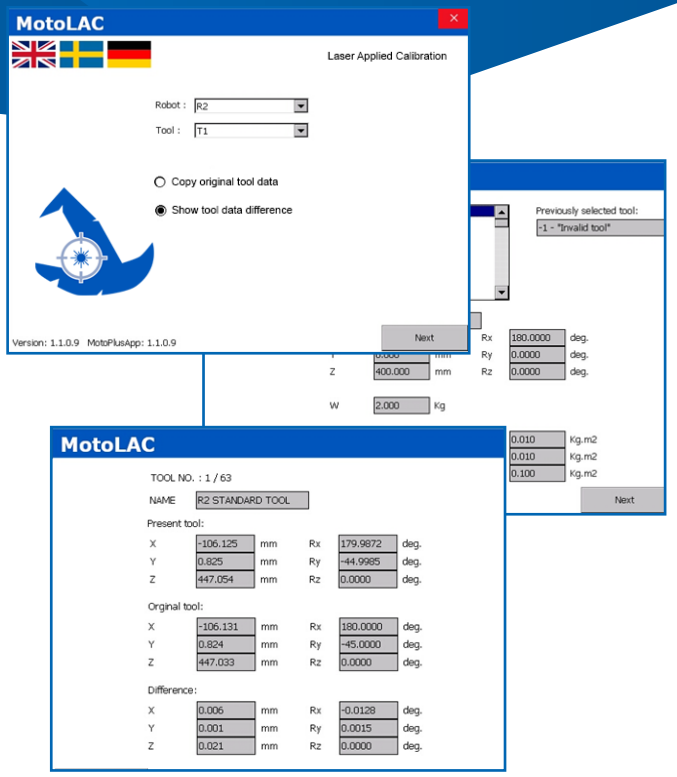
3. These robot jobs can be implemented at suitable intervals in the production process.

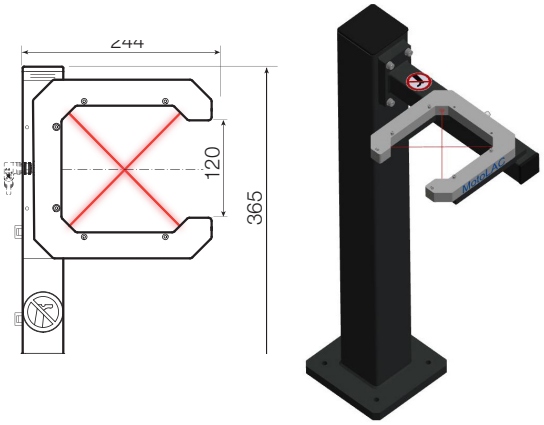
# MotoLAC at a glance

With the simple and straightforward interface for the teach pendant, you can easily create reference data for up to 64 tools. Positions and I/0 can be verified before implementation with a ”Dry run”. With the command ”Show tool data difference”, you will see the difference between the current tool data and its original values.

Three robot jobs are generated: Total TCP (including angle and position), positions XYZ only, and a Quick Check.




**Standard assembly**

MotoLAC unit is mounted to the right. However, it is easy to dismantle the sensor unit from the bracket, and mount it to the left instead.

| Technical data | |
|---|---|
| **Laser** | Red light, 650 nm, class 1 |
| **Housing material** | Aluminium, anodised |
| **Max/min angle** | 3° |
| **Tool diameter** | 5 to 50 mm |
| **Accuracy** | 0.2 mm |
| **Adjustment size** | tool radius |

| Calibration tool size | |
|---|---|
| **Tool diameter [mm]** | **Maximum detection [mm]** |
| 50 | 25 |
| 40 | 20 |
| 30 | 15 |
| 20 | 10 |
| 10 | 5 |
| 5 | 2.5 |

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ISO 9001
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Certification

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Technical data may be subject to change without previous notice.

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