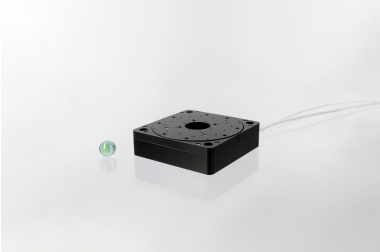
## MR-9224 – Precision Rotation Stage

The **SMAR**SHIFT MR-9224 is a compact rotation stage with electromagnetic direct drive. It features high speed and lifetime at uncompromised precision. Its compact size and 25 mm aperture simplifies integration into existing systems and leaves enough space for your application. Thanks to compatibility with the MLS-92122 and the **SMAR**BOTIC modular system, it can be easily combined with the CLS family and other SmarAct positioners, granting maximum flexibility.



### Applications

The MR-9224 rotation stage has been specifically designed for demanding tasks in industrial manufacturing, including micro assembly, pick-and-place processes, and the alignment and adjustment of components for adhesive processes. Additional application areas include laser machining such as laser drilling, laser cutting, and laser marking, as well as wafer positioning in semiconductor and photonics industry.

All **SMAR**SHIFT products are suitable for use in ambient conditions and inert gas environments, including as helium and nitrogen. Cleanroom options are available.
Travel: ∞ Dimensions (mm): 92 × 92 × 24 Weight: 650 g

| | Mechanical |
|---|---|
| Travel [°] | ∞ |
| Max. Normal Force [N] | 50 |
| Dimensions [mm] | 92 × 92 × 24 |
| Weight [g] | 650 |
| Aperture [mm] | 25 |
| | **Material** |
| Base Material | Aluminum, black anodized |
| | **Closed-Loop** |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| | |
|---|---|
| Sensor Types | S |
| Sensor Resolution [µ°] | <2 |
| Uni-Directional Repeatability [µ°] | ±40 |
| Closed-Loop Angular Velocity [°/s] | 3600 |


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