

You said: AEROTAC MA25*50

The **Aerotac MA25x50** is a compact, **double-acting pneumatic mini air cylinder** widely used in automation and manufacturing machinery to provide linear force. This component operates using compressed air to drive a piston rod both inward and outward. [\[1, 2, 3, 4, 5\]](#)

Key Specifications

The part number denotes specific structural dimensions and capabilities:

- **Series (MA):** Indicates a round-body mini cylinder style, heavily patterned after standard international profiles like Airtac.
- **Bore Size (25):** A **25 mm piston diameter**, which dictates the baseline mechanical output force the cylinder can generate under load.
- **Stroke Length (50):** A **50 mm maximum travel distance** for the extended piston rod. [\[1, 2, 3, 4, 5\]](#)

Technical Parameters & Materials

- **Cylinder Body:** High-strength, corrosion-resistant **stainless steel** piping designed to handle continuous cyclic impact. [\[1, 2, 3, 4\]](#)
- **Operating Pressure:** Typically supports a pressure window of **0.15 to 1.0 Mpa** (22 to 145 Psi). [\[1, 2\]](#)
- **Speed Dynamic Range:** Functions reliably within a stroke speed range of **30 to 800 mm/s**. [\[1, 2\]](#)
- **Fluid Filtration:** Requires standard clean compressed air passed through a **40 µm filter element** to keep debris from degrading interior seals. [\[1, 2, 3\]](#)
- **Magnetic Integration:** Most standard variations include a **built-in magnet ring** inside the internal piston assembly to easily trigger external position sensors. [\[1, 2, 3\]](#)