



MTR5 to MAG7 Upgrade

Upgrade MTR5 robot with MAG7 robot

- Replacement of outdated vacuum robot with state of the MAG7 robot with art technology.
- MAG7 is the most advanced and reliable robot for vacuum and isolation environments.



Value Proposition

For customers looking to increase throughput. Rate of return for upgrade is less than six months.



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Features

- Field proven direct drive
(No belts, cables, or pulleys)
- No stepper motors
(less vibration)
- Continuous 360 degrees rotation
- No dynamic seals
- No rotating cables

Benefits

- Direct-drive reliability > 10 Million MCBF
- Increased throughput (optimal trajectory control)
- Better particle performance
- Reduced PM and downtime
- Ease of maintenance (independent pitch and roll adjustment)
- Better vacuum performance
- Average ROI in 6 month
- Increase of productivity (50% faster wafer exchange rate)



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Feature	MTR 5	MAG 7
Max. Throughput* (w/BiSymmetrik Arm)	288 Wafers/Hour	453 Wafers/Hour (approx. 60% increase)
Reliability MCBF	2.3 million	10 million
Repeatability	0.26 mm (TIR)	0.1 mm (TIR)
Maximum Temperature	50° C	120° C (Mounting Flange)
Base Vacuum	5×10^{-8} Torr	5×10^{-9} Torr
300mm Compatible	No	Yes
Dynamic Seals	Ferrofluidic and Lip Seals	None

