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Rotary Axes


RTMB+

ETEL

version 1.0 - 11/21 - subject to modifications without previous notice

ETEL

PRODUCT RANGE

RTMB+  RTMB+ is the new range of high performance indexing tables combining ETEL's TMB+ high efficiency torque motors and NUMERIK JENA's high resolution encoder technology in a very compact package.

The RTMB+ range consists of two different diameters with two different active lengths and each of them can be delivered with two different windings.



These new versions allow the user to bring high payload to the machine and to meet the new challenges of the semiconductor industry such as larger components, additional testing positions, handling wafers, etc. The high throughput is maintained, thanks to the water cooling system, reducing the final machine cost of ownership. A large hollow shaft size is also available to accommodate customer cables and tubing.

	OUTER Ø / INNER Ø (MM)	HEIGHT (MM)	INERTIA (KG.M2)	PEAK TORQUE (NM)	CONTINUOUS TORQUE (NM)
RTMB+210-070	245.2 / 50	140	195x10 ⁻³	317	152
RTMB+210-100		170	274x10 ⁻³	459	223
RTMB+291-070	326.3 / 80	154.5	403x10 ⁻³	555	301
RTMB+291-100		184.5	576x10 ⁻³	869	439

RTMB+ are dedicated to applications requiring:

- High torque density
- Short indexing time
- High positioning accuracy
- Improved thermal stability

PERFORMANCE

- Bidirectional repeatability: down to ± 3 arcsec
- Absolute accuracy: down to ± 6 arcsec
- Speed: up to 493 rpm
- Payload: up to 500 kg

CHARACTERISTICS

- Semi S22 compliant
- Available with or without closed cooling jacket
- 600 VDC compatibility
- Nickel coating on rotor and stator
- PT 1000 thermal sensors

TYPICAL MARKETS AND APPLICATIONS

RTMB+ is the perfect solution for back-end semiconductor and electronic applications such as:

- Turret testing handlers
- MEMS testers
- Die bonders
- Rotary module in pick-&-place testers

Coupled to ETEL's force controlled short stroke actuators and ACCURET controllers, the RTMB+ is a perfect solution for Turret testing handlers.



RTMB+

Short stroke actuators

ACCURET