ToolChanger Datasheet

E3D-ONLINE

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The values recommended here are calculated to avoid loosing accuracy due to the compiance of the locking mechanism. These are valid for E3D's Motion System platform, your values may vary.

Movements & Acceleration

- Maximum travel speed : 600mm/s
- Maximum acceleration : 200mm/s²

Mechanism

- Holding force :45N (~4.5kgf)
- Positional accuracy : 5µm
- Maximum tool mass : 1000g
- Recommended tool mass : 500g
- Expected lifetime in tool changes : 1 800 000

Maintenance

- Every 20 prints / 50h, whichever comes first:
  - Clean tool and grabber kinematic couplings from debris
  - Clean ramp tool and grabber T-bar from debris
  - Lubricate kinematic coupling balls and dowel pins with magnalube/lithium grease
  - Lubricate grabber thrust bearing with magna lube/lithium grease

- Every 100 prints / 200h, whichever comes first:
  - Inspect kinematic coupling dowel pins for wear/pitting
  - Inspect T-bar for wear
  - Inspect gearbox gears for wear
  - Inspect ramp for wear
  - Inspect kinematic coupling balls for wear/pitting
  - lubricate gearbox with magnalube/lithium grease