



UT-TRM Torque Motors

MDS Motor offers a new slim frameless torque motor series. UT-TRM frameless torque motor series has a range of stator ODs from 110 mm up to 230 mm with different winding options. UT-TRM frameless motor kits enable to design of very small and lightweight systems thanks to their low axial lengths and weights.

UT-TRM series can be used in variety of applications such as satellite, robotic joints, aviation, and space to increase system performance with saving volume, weight and cost.



UT-TRM-110

- Stator OD: 110 mm
- Rotor ID: 40 mm
- 24 V-310 V options
- Peak torque up to 5 Nm



UT-TRM-130

- Stator OD: 130 mm
- Rotor ID: 55 mm
- 24 V-310 V options
- Peak torque up to 7.6 Nm



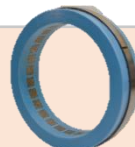
UT-TRM-160

- Stator OD: 160 mm
- Rotor ID: 80 mm
- 24 V-310 V options
- Peak torque up to 15.1 Nm



UT-TRM-175

- Stator OD: 180 mm
- Rotor ID: 88 mm
- 24 V-310 V options
- Peak torque up to 20.3 Nm



UT-TRM-200

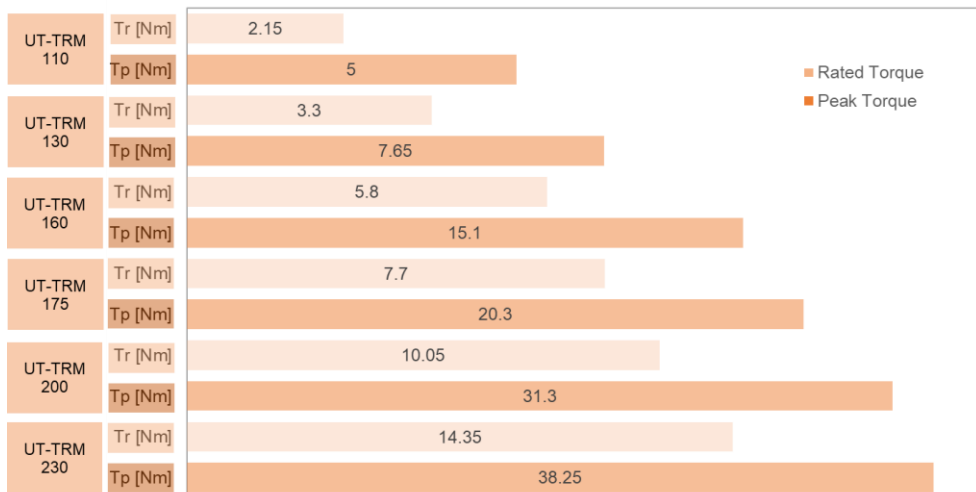
- Stator OD: 200 mm
- Rotor ID: 120 mm
- 24 V-310 V options
- Peak torque up to 31.3 Nm



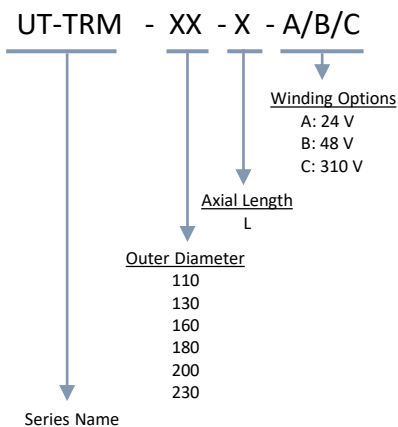
UT-TRM-230

- Stator OD: 230 mm
- Rotor ID: 148 mm
- 24 V-310 V options
- Peak torque up to 38.2 Nm

UT-TRM Series Torque Motor Range



Nomenclature



Other voltage/winding options are available upon request.

Applications



Aviation



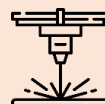
Satellite



Space



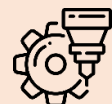
Robotics



Machine tools



Defense



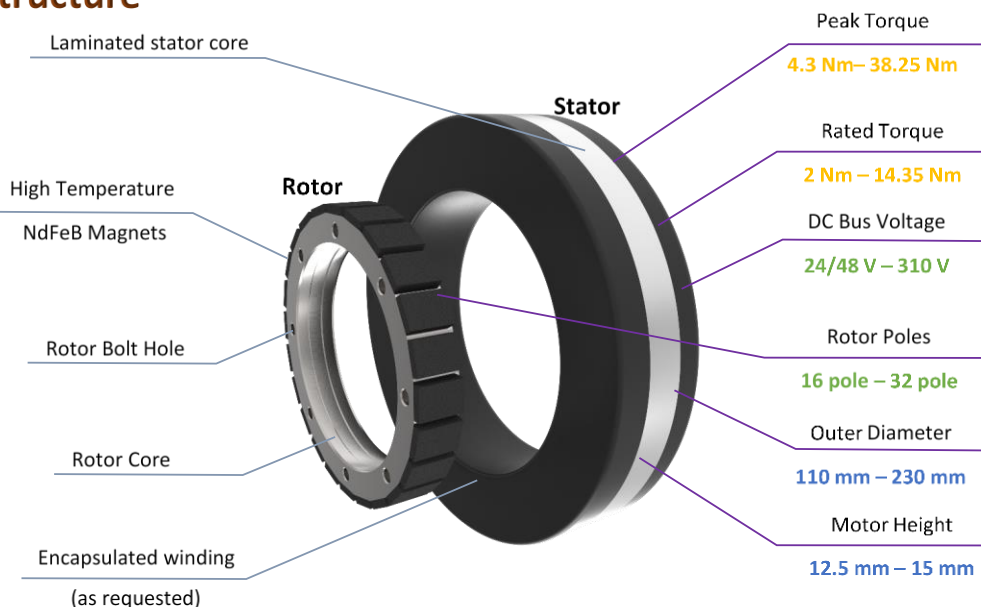
Milling Heads



Medical



Structure



Main Features & Benefits

- 6 Standard motor sizes
- Rated torque up to 14.35 Nm
- Peak torque up to 38.25 Nm
- Speed up to 3320 rpm
- Outer diameter up to 230 mm
- Hollow shaft up to 148 mm
- 3 Different winding options (24 V/ 48 V/ 310 V)
- AC custom winding options also available
- Very high torque-per-weight ratios
- Hall effect sensor option
- Thermistor against thermal overload
- Extremely slim rotor and stator
- Excellent dynamic performance
- Very low torque ripple
- Extremely low cogging
- Low thermal resistance
- Optimal speed control
- Minimized size and weight
- Direct system integration
- Reduced cost
- Lowest possible rotor inertia
- Excellent product repeatability

