



# Rack Actuator - Size 23

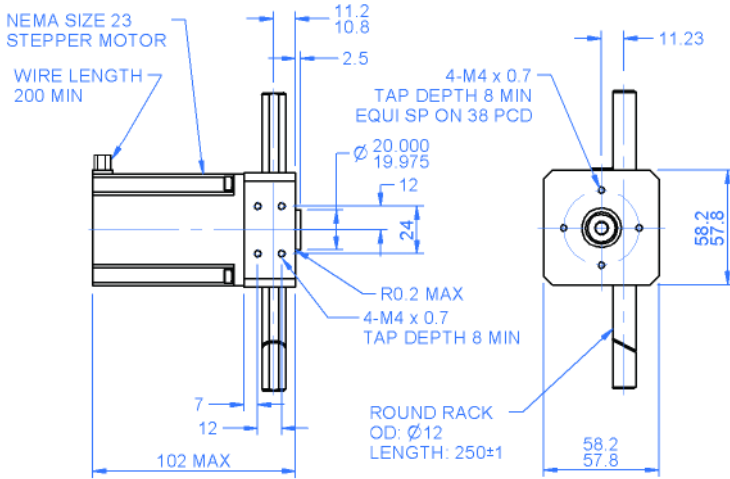
## Typical Applications

### General Information

All dimensions in mm  
General tolerances:  
±0.13mm

### Notes

\* Please refer to note on page 11.



### Part number selection table

Part Number	Rack Length	Rack Dia	Axial Load
<b>RRA23-12-250</b>	250 ±1	12	90N

### Technical specification\*

- Standard drive: NEMA size 23 stepper motor (catalogue part No. RSM23N3E7).
- Round rack: 12mm OD, 250mm length, hardened stainless steel.
- Mounting: front and side mounting possible.
- Travel range: 150mm.
- Max continuous axial load: 90N.
- Max speed: 200mm/sec.
- Resolution: 0.2mm with 200 steps/rev.  
0.0031mm with microstepping (12800 steps/rev).
- Repeatability: 0.012mm.
- Temperature range: -10°C to +50°C.
- Life: 5 million cycles (based on 40mm stroke).
- Side wobble: max ±0.2mm. (measured 50mm from housing).
- Backlash: equivalent to less than 0.06mm linear movement.
- Smooth quiet operation. The rack and pinion is lubricated with a thin film of chemically inert vacuum grease.