

Model TR2 - Tru-Trac™ Encoder with Rack and Pinion Gearing



Model TR2 - Tru-Trac™ Specifications for Stainless Steel & Flexible Rack

Mechanical - Stainless Steel Rack

Max Linear Speed... 400 Feet Per Minute. Speeds over 200 FPM require lubricant, such as MoS₂ paste, to reduce gearing wear. Higher speeds may be achievable, contact Customer Service.

Rack

Material 303 Stainless Steel
Gearing Tolerance... AGMA 10, 20 degree pressure angle teeth
Accuracy ±0.0005 inch/inch max accumulated error
Repeatability ±0.0001 inch

Mechanical - Flexible Rack

Max Linear Speed... 200 Feet Per Minute

Rack Material Acetal
Gearing Geometry . . . 20° pressure angle teeth
Accuracy ±0.002 inch/inch max accumulated error
Repeatability ±0.001 inch for Flexible Rack

Model TR2 - Tru-Trac™ Applications



Racks and Accessories for the TR2 (Rack Must Be Ordered Separately)

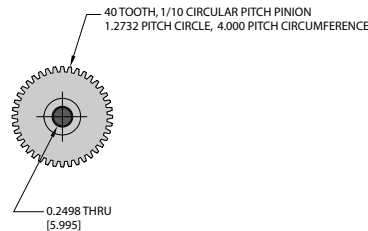
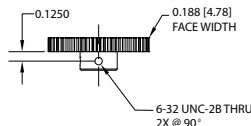
Part #	Length
176216	12" for Stainless Steel
176217	24" for Stainless Steel
176218	36" for Stainless Steel
176219	Spacer Block for Stainless Steel
161546	2 meter flexible rack
161548	Flexible rack clamps 10 pk (with M4x0.7 x 1) mm Phillips pan head machine screws.
161547	1 meter guide rail for flexible rack (does not work with 176220 gear)
140104	Angle Mounting Bracket
176220	40 Tooth Pinion Gear for use with Stainless Steel Rack
176302	40 Tooth Pinion Gear for use with Flexible Rack

See drawings for rack dimensions. For lengths over 36", order multiple pieces of stainless steel rack or the flexible option. A spacer block must be used to accurately join two or more pieces of rack. See Technical Bulletin TB-522 or TB-523 for details.

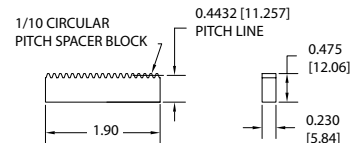
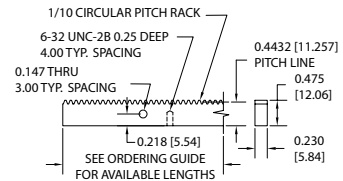


Additional Pinion Gears for TR2 Tru-Trac™ can be ordered separately as part # 176220 (stainless steel rack) or # 176302 (flexible rack).

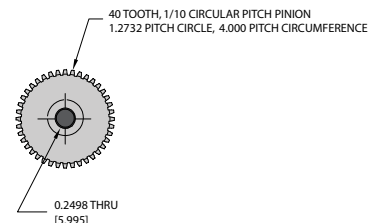
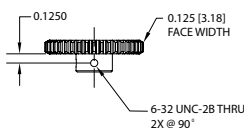
Model TR2 - Tru-Trac™ Stainless Steel Rack



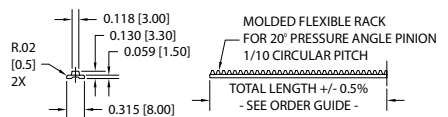
PRECISION AGMA 10 PINION FOR RIGID RACK



Model TR2 - Tru-Trac™ Flexible Rack



0.125 FACE WIDTH PINION FOR FLEXIBLE RACK



MOLDED FLEXIBLE RACK FOR 20° PRESSURE ANGLE PINION 1/10 CIRCULAR PITCH TOTAL LENGTH +/- 0.5% - SEE ORDER GUIDE -