





# 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 MoS<sub>2</sub> 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)

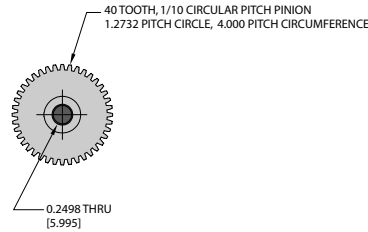
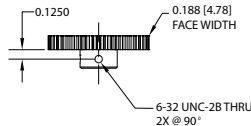
Part #	Length
176216	12" for Stainless Steel
176217	24" for Stainless Steel
176218	36" for Stainless Steel
176219	Spacer Block for Stainless Steel
161546	2 meter flexible rack
161548	Flexible rack clamps 10 pk (with M4x0.7 x 1) mm Phillips pan head machine screws.
161547	1 meter guide rail for flexible 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.

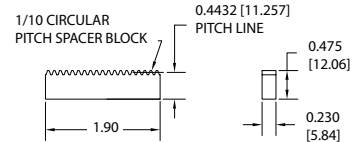
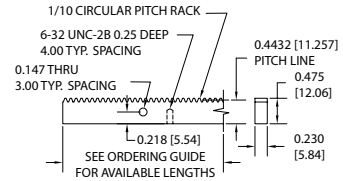


Additional Pinion Gears for TR2 Tru-Trac™ can be ordered separately as part # 176220 (stainless steel rack) or # 176302 (flexible rack).

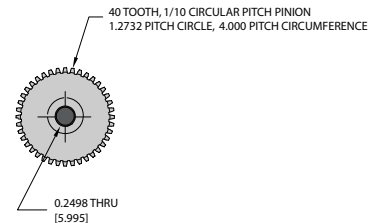
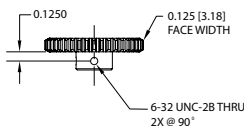
## Model TR2 - Tru-Trac™ Stainless Steel Rack



PRECISION AGMA 10 PINION FOR RIGID RACK



## Model TR2 - Tru-Trac™ Flexible Rack



0.125 FACE WIDTH PINION FOR FLEXIBLE RACK

