

Stiletto

STEERING SYSTEMS News!

Trusted • Responsive • Versatile • Refined

Stiletto Steering has been a prominent leader in precision steering components in many types of racing for over 4 ½ decades. The wide selection of purpose built steering boxes are known for their smooth “Swiss Watch” movement and ease of use. The combination of proven

designs, precision machining of premium grade materials, coupled with meticulous inspection and finish assembly processes have delivered many racers into the winners circle.

Stiletto Gen 2 Pro-Box

Considered the finest in the industry, the Stiletto Pro-Box is specifically designed for drag racing’s full-bodied vehicle categories. The recently re-engineered housing is precision machined of ultra tough billet 2024-t4 aircraft aluminum. The complete assembly tips the scale at 5 ¼ pounds.

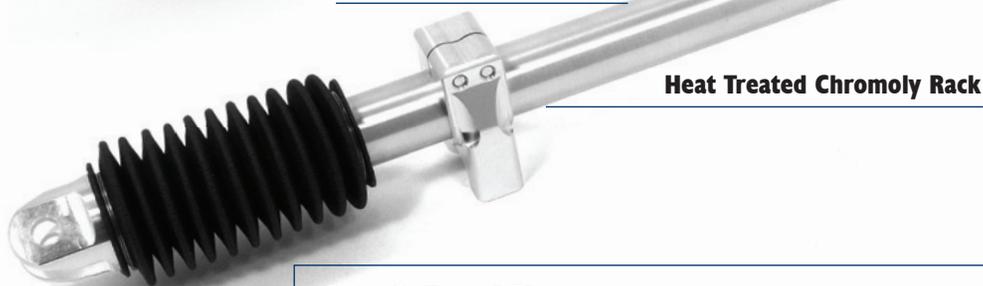


Left Hand Drive

20:1 Ratio

Heat Treated Aerospace Pinion

Right Hand Drive



Heat Treated Chromoly Rack

Now available in several standard lengths from 24 ½” to 19 ½” in one-inch intervals.

Gen 2 Pro-Lite

This Black Box version of the Gen 2 Pro-Box is the lightest professional grade steering box on the planet.



Professional Drag Racing Only

24 ½” unit weighs under 4 1/2 pounds complete

Stiletto Steering Systems are Proudly crafted here in the USA

Pinion Coupler Options



Straight

Split Bolt

Dual Lock

...From Stiletto Users:



“I will never use any other rack and pinion in my cars. We have used Stiletto Rack & pinions in our cars for over 20 years. Our customers want the best, we give them the best.”

Jim Geese/R2B2 Race Cars

Dwarf / Mod-lite Heavy Duty Steering Boxes

These Heavy Duty units are the proven winners circle choice for Dwarf / Mod-lite class cars, and are well suited for many other applications requiring a heavy duty steering box.

10:1 Ratio

Side Mount

Custom Length

1 1/8" diameter Chromoly Rack

Stud Mount

2024-T4 Aircraft Aluminum Housing



Combination of 3 and 4 Stud mounting. ARP High Strength 12 point fasteners are standard.



Lifetime Boots – Unique Neoprene Woven/Nylon boots outlast conventional rubber and are secured with double wrapped stainless steel wire.

Steering Ratio Defined

The overall ratio of a steering system is determined by the degree of the movement of the front wheels in relation to one turn of the steering wheel. One turn of the steering wheel (360°) divided by 30° tire movement would have an overall ratio of 12 to 1 (360/30).

This overall ratio will be determined by the length of the rack movement

created by one turn of the pinion and the length of the spindle arm that the tie rod connects to. A shorter steering arm will make the overall ratio smaller numerically (faster steering), and a longer arm will make the overall ratio larger numerically (slower steering).

For reference purposes, the ratios that we list are calculated using a spindle arm length of 5 inches. This

is the distance measured from the center of the spindle king pin axis to the center of the mounting hole for the tie rod.

- 20 : 1 = 1.570" of travel in 1 rotation
- 15 : 1 = 2.094" of travel in 1 rotation
- 12 : 1 = 2.618" of travel in 1 rotation
- 10 : 1 = 3.141" of travel in 1 rotation
- 6.4 : 1 = 4.712" of travel in 1 rotation

Car Builder Direct... the Proven Stiletto Steering System designs have evolved through close working relationships to fill both car builders and race teams needs.

"I'd just say that the Stiletto Racks are darn near bullet proof. They do take some very hard hits and continue to give long lasting quality service."

Darrel Lewis/NXS Motorsports



...From Stiletto Users:



"Our record-setting suspension kits utilize Stiletto Gen 2 racks for their unmatched quality, effortless turning and ultra-light weight".

Kody Schendel/Racecraft Inc,

Small Box Series Rack and Pinions

The Stiletto Steering Systems Small Box is very versatile and used extensively in Drag Racing. The lightweight compact design is known for the smooth "Swiss Watch" movement. With several ratios and rack lengths to choose from this is a great solution for many lightweight applications.

12:1, 15:1 and 20:1 Ratios



Available with either Steel or Aluminum Rack
(for lightweight Dragster use only).

Assemblies are available with choice of Clevis ends or Aurora VCM Rod ends

Fast-Ratio Small Box with Magnum Housing

The perfect choice for lightweight applications that require very fast and responsive steering. The recently updated Magnum housing is 35% stronger, without weight penalty. The increased rigidity and torsional stiffness provides a stronger foundation for long lasting gear alignment in abusive applications.

6.4:1 Ratio



Precision Pinion is now Drilled for weight reduction



3 lbs. total weight

2024-T4 Aircraft Aluminum Housing

"Side Mount" (shown) or base "Stud Mount"

Available with choice of Clevis ends or Aurora VCM Rod ends

Discriminating race car builders and specialty "OEM's" have selected Stiletto Steering System components as standard equipment on their vehicles for good reason. Steer with confidence, insist that your new car is outfitted Stiletto Steering Systems.

For more information call 231-873-9252 or visit Pro-Werks.com

Smart phones, snap here



"I choose Stiletto Steering Components because I trust they will deliver me quickly and safely into victory lane".
Scott Weny /S&W Race Cars

Stiletto Ultra Spindles

Stiletto Steering System components feature impeccable detail and are the best value in racing.

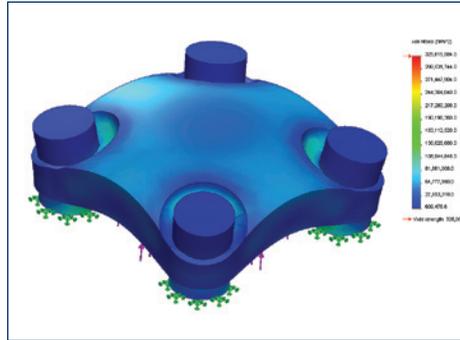
Proudly crafted right here in the USA.



Stiletto Ultra Spindles are the best choice in Drag Racing for a reason...



The Heat Treated Chromoly Spindle starts life with and American produced forging. Each Spindle is individually hardness tested and 100% Magnaflux inspected.



Extensive FEA evaluation and testing supports Stiletto designs.



Ultra Spindles are available in either the Standard or Lightened version (or Dragster use only).



Rifle drilled 8620 Kin pins are hardened and ground for wear resistance and feature a set screw flat for positive locking.



Proprietary PTFE bushings and thrust washers provide superior durability and smoother steering.

ARP High Strength 12 point fasteners are standard for ultimate connection point strength.



Domed Aluminum Cap	Black Anodized Aluminum Cap	Aluminum Tow Cap
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Chromoly Steering Arms

Large selection of sizes enables you to meet individual response requirement. Available in 4 1/2", 5", 5 1/2", 6" and 6 1/2" Lengths.

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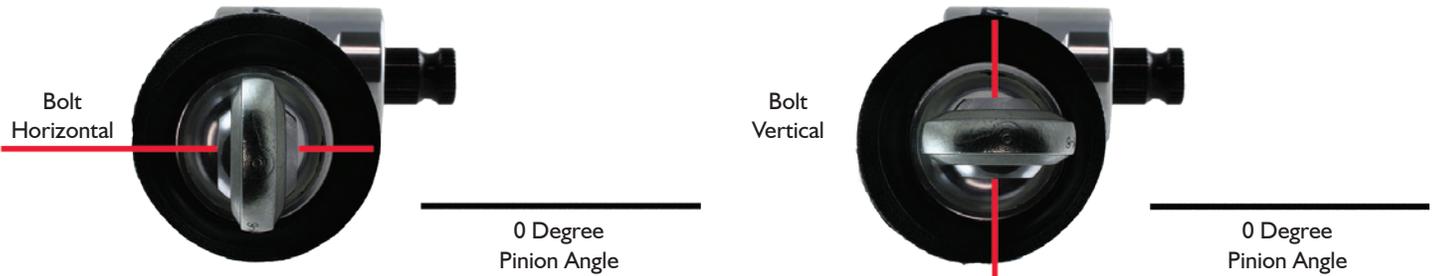
Photo Credits: NXS Motorsports, RaceCraft Inc, Dave Milcarek, Competition Plus

Clevis and Rod End Orientation

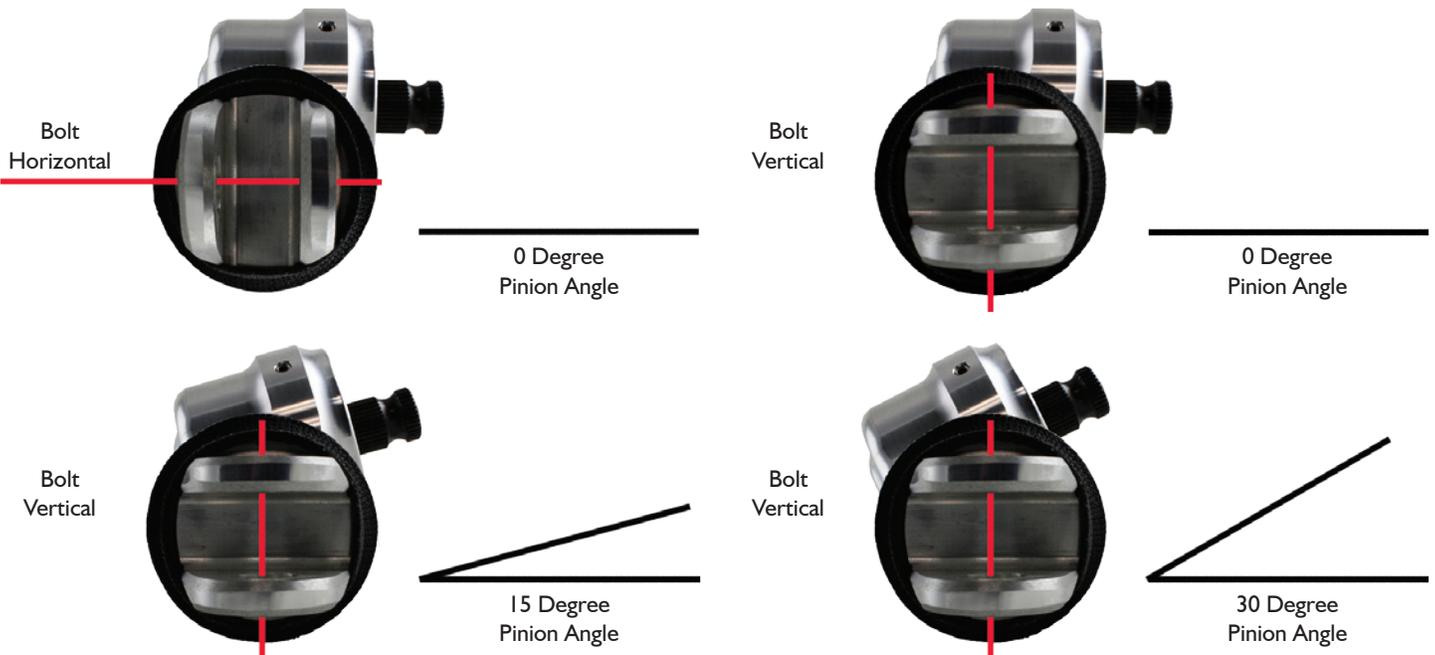
Can be factory positioned to fit any application.

These are our most popular Clevis and Rod End configurations.
Custom orientation is also available to meet your specific requirements on request.

Small Box with Rod End



Small Box with Clevis



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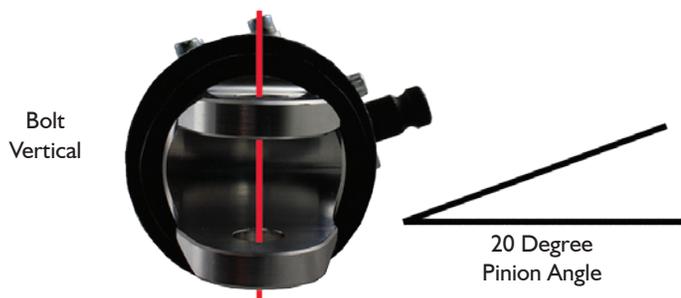
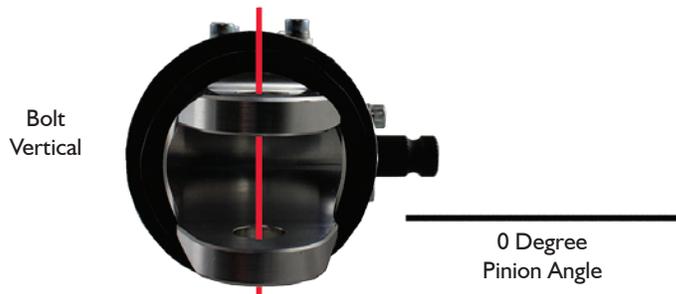
Clevis Orientation

Can be factory positioned to fit any application.

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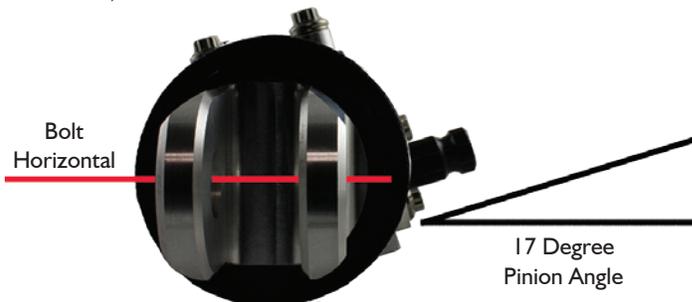
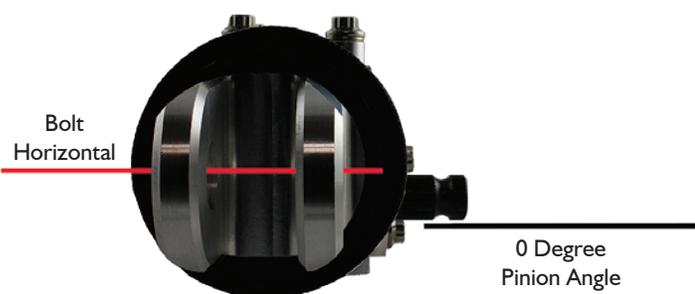
Gen 2 Pro-Box

(Available only with Clevis)



Dwarf/Mod-Lite Box

(Available only with Clevis)



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