

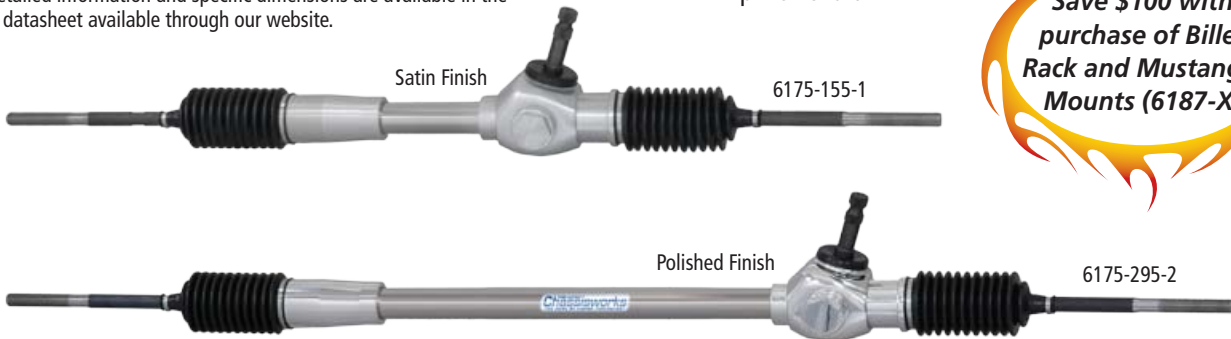
# g-Machine-System Rack and Pinions

## ■ Billet Manual Rack and Pinion

A common issue with many custom steering and suspension conversions is achieving correct steering geometry using the limited selection of OEM and aftermarket rack and pinions. To solve this problem the g-Machine front-steer, manual rack and pinion can be sized from 15.5" to 29.5" (measured from inner tie-rod pivots), in one-inch increments, without affecting rack travel, steering effort, or reliability. This enables correct steering geometry for vehicles ranging from compacts to full-size pickups and allows the assembly to serve as a direct-replacement upgrade for 24.5" Mustang II racks.

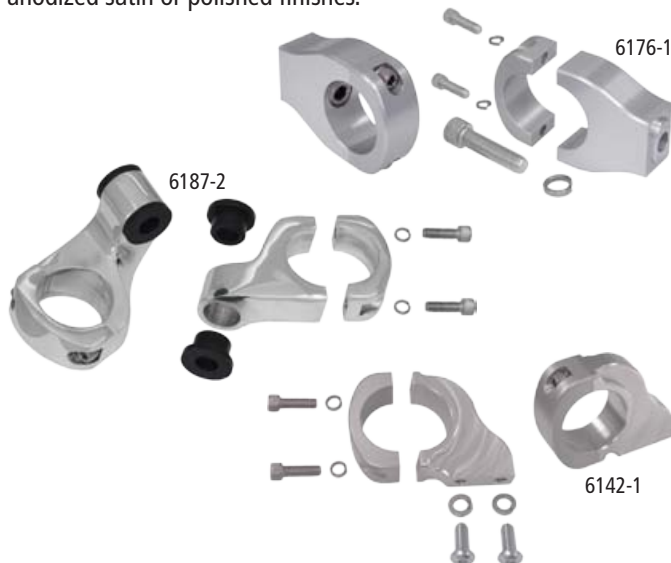
Note: Detailed information and specific dimensions are available in the product datasheet available through our website.

- Front-steer manual rack and pinion
- Manufactured in 15 different lengths (15.5" - 29.5", in one-inch increments)
- Direct bolt-on for g-Machine crossmember system
- Easily integrated into custom projects
- Direct replacement for stock Mustang II
- Rotatable within mounts to aid steering-shaft clearance
- Satin-aluminum or polished finish
- Large diameter 3/4" -36 pinion shaft



## ■ Manual Rack-and-Pinion Billet Mounts

To aid rack and pinion installation into various projects, three styles of billet aluminum mounting brackets are available. The standard Chassisworks solid mount uses our slot-tab positioning method for perfect alignment with the factory-welded g-Machine crossmember. The Mustang II urethane-bushing mount, which when used with our 24.50" rack mimics the OEM Mustang II rack-and-pinion enabling direct replacement, but also greatly simplifies custom installations. And, the 90° mount from our Chevy II strut front clip. Mount sets include clamp hardware and are available in silver-anodized satin or polished finishes.



## ■ Sculpted Gear Box

A sculpted-surface gear box shape was developed through the use of finite element analysis (FEA) software to eliminate fatigue points, minimize gear box deflection, and provide an attractive modernized appearance. Due



to the complexity in engineering and machining this component, most manufacturers are limited to inferior casts or simple geometric designs. To attach the protective rubber boots at each end of the rack assembly, external grooves are present for slip-proof installation and easy replacement if ever necessary.

6175-XXX-1	BILLET MANUAL RACK AND PINION, SATIN	\$559.00
6175-XXX-2	BILLET MANUAL RACK AND PINION, POLISHED	589.00
6175-6187-1	BILLET MANUAL RACK & MUSTANG II MOUNTS, SATIN	648.00
6175-6187-2	BILLET MANUAL RACK & MUSTANG II MOUNTS POLISHED	688.00
6142-1	BILLET RACK CLAMPS FOR CHEVY II STRUT CLIP	119.00
6176-1	BILLET RACK CLAMP SET FOR G-MACHINE CROSSMEMBER, SATIN FINISH	109.00
6176-2	BILLET RACK CLAMP SET FOR G-MACHINE CROSSMEMBER, POLISHED FINISH	139.00
6187-1	BILLET RACK CLAMP SET FOR MUSTANG II CROSSMEMBER, SATIN FINISH	189.00
6187-2	BILLET RACK CLAMP SET FOR MUSTANG II CROSSMEMBER, POLISHED FINISH	199.00
NOTE	"XXX" IN RACK-AND-PINION PART NUMBER SPECIFIES LENGTH (I.E., 155 = 15.5").	