

## Heavy Duty MxT Gear Reduction Starter

Type 29 MT

### Description

Our 29 MT with Maximum Torque Technology is the next-generation starting solution for today's demanding Medium Duty Diesel applications. Utilizing the advanced MxT gearing system, the lightweight 29 MT produces the torque and speed necessary to crank diesel engines up to 6.6 liters for the 12 Volt unit and 8.0 liters for the 24 Volt.

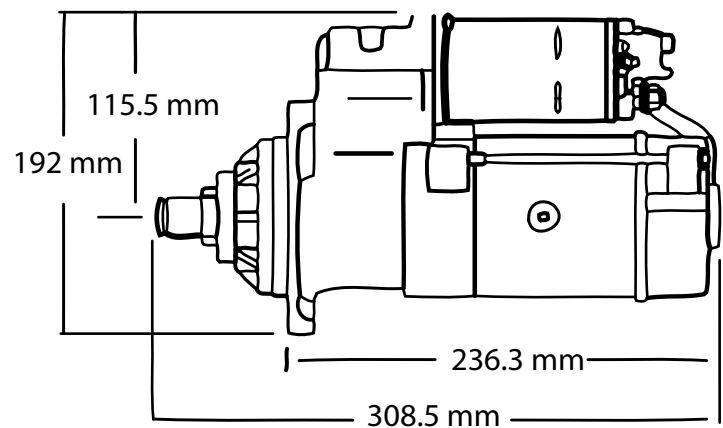
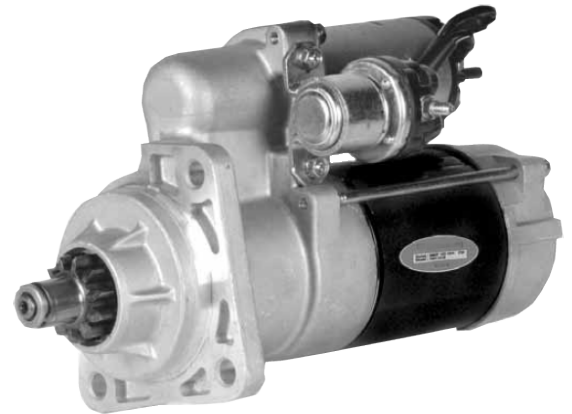
The 29 MT features a lightweight aluminum housing resistant to high vibration environments. These features reduce overall vehicle weight and provide durable construction for reliability and long service life.

The sealed noseless design resists shaft and pinion exposure to contaminants reducing the possibility of corrosion and promoting hassle-free starter operation. The 12 Volt 29 MT utilizes Positive Shift Engagement while the 24 Volt unit incorporates the advanced Electrical Soft Start System. Electrical Soft Start ensures proper pinion to ring-gear engagement that protects your starter and on-vehicle components.

A sealed solid link solenoid construction protects against solenoid contact welding and exposure to contaminants, prolonging service life. Heavy Duty product features such as large bearings and high quality steel shafts are incorporated into the 29MT making it the reliable choice for your medium duty fleet operations.

### Features

- MxT gearing system delivers high torque output and starting power in a low mass lightweight design.
- Sealed Solid-Link Solenoid eliminates contact welding in low system voltage situations, providing enhanced corrosion protection.
- Sealed noseless configuration reduces debris accumulation and contamination-related maintenance and expense.
- Electrical Soft Start engagement system rotates pinion for proper ring-gear engagement before cranking, minimizing tooth abutment-related damage.
- Forged gear support and high strength steel shafts provide superior durability.
- Labyrinth drain housing design utilizes multiple drain points with O-ring seals for protection from environmental contaminants.
- Heavy duty bearing and bushing system increases motor life and reliability.
- Cast aluminum drive and commutator end housings provide strength, lightweight construction.



### Specifications

- Engine Size: Diesel: 12V: up to 6.6L  
24V: up to 8.0L
- System Voltage: 12 or 24 Volts
- Rotation: Clockwise
- Output: 12V : 3.3kW, 24V : 4.0kW
- Standard Mountings: SAE #1
- Standard Pinions : 9-tooth/Module 3, 10-tooth/8-10 pitch, 10-tooth/10-12 pitch, 11-tooth/Module 3
- Weight: 8 kg
- Diameter: 90mm
- Drive: Heavy duty design  
12V: Positive Shift Engagement  
24V: Electrical Soft Start
- Jump Start Protection: (Optional) Special shield and solenoid cap available to meet SAE J1493 recommendations