



GENUINE PRODUCTS

31MT™ Commercial Vehicle Starter

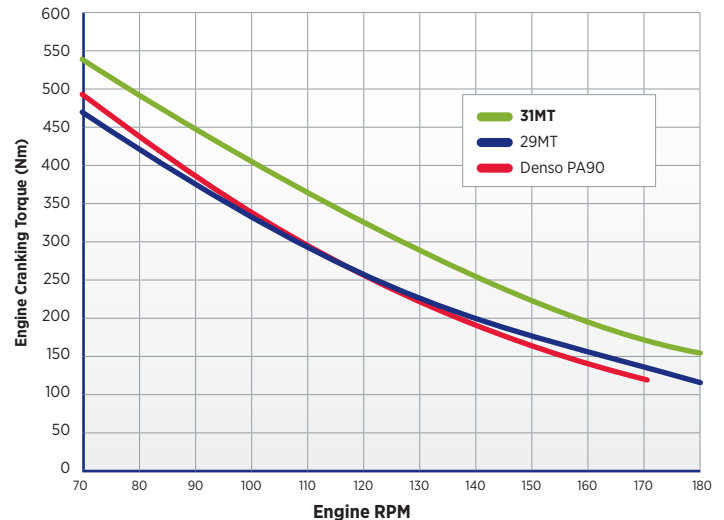


FEATURES & BENEFITS

- Developed from the 29MT design – of which there are more than 1.25 million OE units installed – the 31MT provides **virtually full coverage for the Class 6 & 7** commercial vehicle aftermarket.
- This model features **positive shift engagement**. In the case of tooth abutment, the armature rotation in full power clears the abutment to allow pinion engagement. The benefit is zero click-no-cranks (CNC). This is well suited for high start/stop vehicle applications.
- The 31MT is highly **corrosion resistant** due to improved brush holder plating and stainless steel springs.
- A number of design changes to the hardware, including the commutator, O-rings and bearings, as well as the lamination have resulted in the 31MT being one very **robust** starter.

10% more peak power than the competition

COMPETITIVE COMPARISON



IDEAL APPLICATIONS

- Delivery vehicles
- Waste disposal vehicles
- Emergency vehicles
- School busses
- Tow & haulers
- Recreational vehicles
- Shuttle busses
- Generation sets & compressor units

SPECIFICATIONS

Engine Size	12V up to 9 Liters
Rotation	Clockwise
Mounting	12V: SAE #1
Pinion Data	10 Tooth, 10-12 Pitch 10 Tooth, 8-10 Pitch 9 Tooth, Mod 3-metric
Output	12V peak at 4.1kW
Weight	8.4 kg / 18.5 lbs
Diameter	90 mm / 3.5 inches
Engagement System	Positive shift engagement

With only seven part numbers, the 31MT provides coverage for over 750K medium duty vehicles in operation in the US today. (VIO data source Polk 9/18)

OEM	Engine	OEM Part Numbers	29MT	38MT	All-Makes 31MT	Mitsubishi Part Numbers	Leece Neville Part Numbers	Denso Part Numbers*
Paccar, Kenworth, Peterbilt	Cummins ISB, 5.9L & Cummins 4BT, 3.9L	10461770, 10465043, 10461481, 19011409, 1113276, 10465151	19011402 (LH Mount) 19011400 (RH Mount)	N/A	61005264 (LH Mount) 61005265 (RH Mount)	N/A	N/A	428000-8400, 428000-0191, 428000-1600
	Paccar PX-7 & Cummins ISB, 6.7L	3978385, 4996706, D61-1001-001, D61-6002-006, D61-6005-004	8200796	8200077	61006210	M009T71779, PC1779	M105610	428000-7090, 438000-3110
Freightliner, Sterling, Western Star	Cummins ISB, 5.9L & Cummins 4BT, 3.9L	10461770, 10465043, 10461481, 19011409, 1113276, 10465151, 90024059	19011402 (LH Mount) 19011400 (RH Mount)	N/A	61005264 (LH Mount) 61005265 (RH Mount)	N/A	N/A	AS228000-3811, 428000-8400, 428000-0191, 428000-1600
	Cummins ISB, 6.7L	3978385, 4996706	8200571	8200077	61006211	M009T71779, PC1779	M105610	428000-5230, 428000-7090, 438000-3110, 428000-9340
	MBE 900, 904, 906	10461772, 19011403, 8200570, 8200565, 61231341, A0061515001	8200103	N/A	61006208	N/A	N/A	428000-8470, 428000-1881
Navistar	Cummins ISB, 6.7L	8201039, 8200235, 4041862C91, 3978385, 4996706	8200796	8200077	61006210	M009T71779, PC1779	M105610	428000-7090, 438000-3110
	MaxxForce 7 VT365	8200271, 19011407, 10461764, 3591688C91, 3804470C92	8200972	N/A	61005266	N/A	N/A	428000-0071
IC Bus	MaxxForce 7 VT365	8200271, 19011407, 10461764, 3591688C91, 3804470C92	8200972	N/A	61005266	N/A	N/A	428000-0071
	Cummins ISB, 6.7L	3978385, 4996706, 8201039, 4041862C91	8200796	8200077	61006210	M009T71779, PC1779	M105610	428000-7090, 438000-3110
Thomas Built Bus	Cummins ISB, 5.9L	10461770, 10465043, 10461481, 19011409, 1113276, 10465151, 90024059	19011402 (LH Mount) 19011400 (RH Mount)	N/A	61005264 (LH Mount) 61005265 (RH Mount)	N/A	N/A	428000-8400, AS228000-3811
	Cummins ISB, 6.7L	3978385, 4996706	8200571	8200077	61006211	M009T71779, PC1779	M105610	428000-5310, 428000-7090, 438000-3110
	Cummins ISB, 6.7L (Low Profile Turbo)	N/A	8200989	N/A	61006209	N/A	N/A	N/A
	MBE 900, 904, 906	10461772, 19011403, 8200570, 8200565, 61231341, A0061515001	8200103	N/A	61006208	N/A	N/A	428000-8470, 428000-1881
Blue Bird Bus	Cummins ISB, 5.9L	10461770, 10465043, 10461481, 19011409, 1113276, 10465151, 90022947, 90024059, 2585095C91	19011402 (LH Mount) 19011400 (RH Mount)	N/A	61005264 (LH Mount) 61005265 (RH Mount)	N/A	N/A	228000-1953, AS228000-1953, 228000-3811, 228000-7301, 428000-8400
	Cummins ISB, 6.7L	90032414, 4996706	8200571	8200077	61006211	M009T71779, PC1779	M105610	428000-5120, 428000-7090, 438000-3110

* This replacement option may have a different number of pinion teeth due to off-set gear reduction design of the Denso starter.

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