



# 31MT™

## HEAVY DUTY VEHICLE STARTER



**10% MORE  
PEAK POWER THAN  
THE COMPETITION**

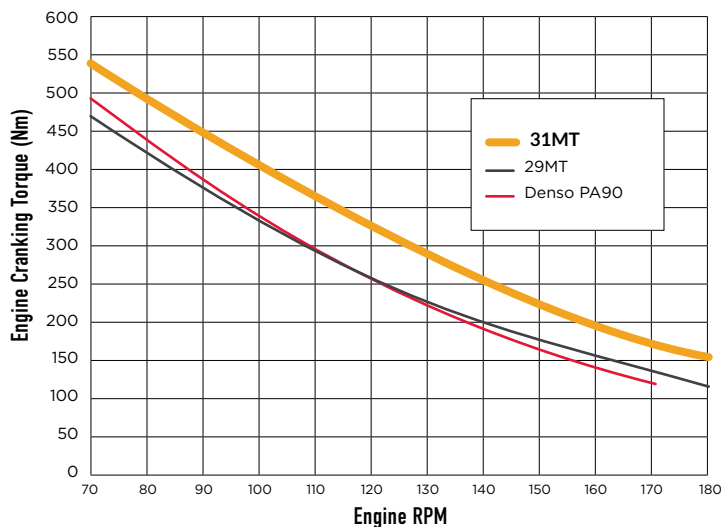
### FEATURES & BENEFITS

- 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.

### IDEAL APPLICATIONS

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

### COMPETITIVE COMPARISON



### SPECIFICATIONS

Engine Size	12V up to 8 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

## 31MT STARTER APPLICATIONS

OEM	ENGINE	OEM PART #	28MT	29MT	38MT	ALL-MAKES 31MT	MISTSUBISHI PART #	LEECE NEVILLE PART #	DENSO PART #*
Paccar, Kenworth, Peterbilt	Cummins ISB, 5.9L & Cummins 4BT, 3.9L	1113276, 90024059	LH MOUNT: 10465151, 10479615, 10479638 RH MOUNT: 10465150, 1113276, 10465043, 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	LH MOUNT: <b>61005264</b> RH MOUNT: <b>61005265</b>	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Paccar PX-7 & Cummins ISB, 6.7L	D61-6002-006 D61-6005-004 4996706, 8200235, 8201039, 8300024	N/A	8200571 8300064 8200796	8200077	<b>61006210</b>	M009T71779 PC1779	M105610	428000-7090 438000-3110
Freightliner, Sterling, Western Star	Cummins ISB, 5.9L & Cummins 4BT, 3.9L	1113276, 90024059	LH MOUNT: 10465151, 10479615, 10479638 RH MOUNT: 10465150, 1113276, 10465043, 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	LH MOUNT: <b>61005264</b> RH MOUNT: <b>61005265</b>	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Cummins ISB, 6.7L	8200077	N/A	8200571 8300064 8200796	8200077	<b>61006211</b>	M009T71779 PC1779	M105610	428000-5230 428000-7090 438000-3110 428000-9340
	Detroit Diesel DD5 & DD8	8200739, 61005252, 8201105, 61016540, 61025808	N/A	N/A	N/A	<b>61015899</b>	N/A	N/A	N/A
	MBE 900, 7.2L, MBE 904, 4.3L & MBE 906, 6.4L	10461772, 19011403, 8200570, 8200565, 61231341	10461454, 10479648, 10479645, 10479637, 10479651	8200103	N/A	<b>61006208</b>	N/A	N/A	428000-8470 428000-1881
Thomas Built Bus	Cummins ISB, 5.9L	1113276, 90024059	LH MOUNT: 10465151, 10479615, 10479638 RH MOUNT: 10465150, 1113276, 10465043, 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	LH MOUNT: <b>61005264</b> RH MOUNT: <b>61005265</b>	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Cummins ISB, 6.7L	8200077	N/A	8200571 8300064 8200796	8200077	<b>61006211</b>	M009T71779 PC1779	M105610	428000-5310 428000-7090 438000-3110
	Cummins ISB, 6.7L NO GROUND STUD (Low Profile Turbo)	8200796, 8200989	N/A	8200796, 8200989	N/A	<b>61006209</b>	N/A	N/A	N/A
	Detroit Diesel DD5 & DD8	8200739, 61005252, 8201105, 61016540, 61025808	N/A	N/A	N/A	<b>61015899</b>	N/A	N/A	N/A
	MBE 900, 7.2L, MBE 904, 4.3L & MBE 906, 6.4L	10461772, 19011403, 8200570, 8200565, 61231341, A0061515001	10461454, 10479648, 10479645, 10479637, 10479651	8200103	N/A	<b>61006208</b>	N/A	N/A	428000-8470 428000-1881
Navistar	Cummins ISB, 6.7L	8200077, 8201039, 4041862C91	N/A	8200571 8300064 8200796	8200077	<b>61006210</b>	M009T71779 PC1779	M105610	428000-7090 438000-3110
	MaxxForce 7, 6.4L & VT365, 6.0L	8200271, 19011407, 10461764, 3591688C91, 3804470C92	1113285, 10461450	8200972	N/A	<b>61005266</b>	N/A	M105603	428000-0071
IC Bus	MaxxForce 7, 6.4L & VT365, 6.0L	8200271, 19011407, 10461764, 3591688C91, 3804470C92	1113285, 10461450	8200972	N/A	<b>61005266</b>	N/A	M105603	428000-0071
	Cummins ISB, 6.7L	8200077, 8201039, 4041862C91	N/A	8200571 8300064 8200796	8200077	<b>61006210</b>	M009T71779 PC1779	M105610	428000-7090 438000-3110
Blue Bird Bus	Cummins ISB, 5.9L	1113276, 90024059, 90022947, 2585095C91	LH MOUNT: 10465151, 10479615, 10479638 RH MOUNT: 10465150, 1113276, 10465043, 10461481	LH MOUNT: 19011402 10461771 RH MOUNT: 19011400 19011409 10461770	N/A	LH MOUNT: <b>61005264</b> RH MOUNT: <b>61005265</b>	N/A	N/A	428000-1600 228000-1953 228000-7301 428000-8400 228000-3811
	Cummins ISB, 6.7L	8200077, 90032414	N/A	8200571 8300064 8200796	8200077	<b>61006211</b>	M009T71779 PC1779	M105610	428000-5120 428000-7090 438000-3110

\* The Delco Remy All-Makes 31MT part number may have a different number of pinion teeth due to off-set gear reduction design of the Denso starter.



For Customer Service or  
Technical Assistance call 800-372-0222

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