



## 5000 SERIES - 12V & 24V, 2.7kW-7.8kW, Heavy Duty & Durable Starter Motors.

To compliment the 1500 applications of custom, rotatable and upgraded automotive starter motors we currently produce, the WOSP 5000 series is based on the latest generation, 100% OE Denso platform of super-efficient, advanced compact design starters for commercial and heavy duty applications.

This will allow our range to cater for key applications from commercial vehicles to agricultural and forklift trucks, as well as equipment operating off-road in different environments such as industrial, construction & marine. The range covers a variety of OE makes such as Bobcat, Case, Caterpillar, Cummins, Isuzu, John Deere, Komatsu, Kubota, Perkins, Yanmar and many more.

### LMS5000 series PLGR PA90 Range:

PA90S – 12V – 2.7-3.0kW	PA90L – 12V – 4.8-5.0kW
PA90S – 24V – 4.8-5.0kW	PA90L – 24V – 7.8kW



LMS5004



LMS5005



LMS5007



LMS5008

LMS5004
OEM Marine
LMS5005
Bobcat
Buhler
Caterpillar
Case
Clark
Cockshutt
Continental
Cummins
Deutz
Ford
Genesis
GM Detroit

Hyster
International
Isuzu
JCB
John Deere
KHD
Lister Petter
Massey Ferguson
New Holland
Nissan
Oliver
Perkins
UD
Waukesha
White

### Features / benefits:

- Rotatable drive end.
- High power density.
- Totally enclosed structure without 'nose cone'.
- Dust / Oil / Water proof design.
- Form factor – smaller than anything it replaces.
- High internal planetary gear reduction.
- New OE Denso based platform.
- Serviceable with 12 months warranty.
- Provision for IMS Switch.
- CW and CCW rotation.
- Fusible connecting wire to avoid critical failure.
- Slip disc shock absorber.
- Drive spring engagement.
- Electrical soft-start.

### Replaces:

- Bosch EV PLGR.
- Butec.
- CAV / S115.
- Delco 28MT & 35MT.
- Denso OSGR RA series.
- Leece Neville M93 7 M93R PLGR.
- Lucas DD.
- Mitsubishi M8T.
- Prestolite.



LMS5005-2



LMS5009



LMS5012



LMS5013

LMS5005-2
Allis Chalmers
Clark
Hyster
International
Massey Ferguson
Perkins
LMS5007
Allis Chalmers
Perkins

LMS5008
Case
International
LMS5009
Isuzu
Komatsu
Nissan
UD
LMS5012
Komatsu
Yanmar

LMS5013
Atlas
Bobcat
Clark
Ingersoll Rand
John Deere
Sullair
Willmar

## LMS5000 series PLGR PA90 Performance Graphs

