

Genuine Metaris Orbital Motors

Economical and Compact



Your Best Low Speed High Torque Motor Option

Genuine Metaris Orbital Motors are your best low speed high torque motor option in an economical and compact design. Utilizing proven Roller-Star technology, these motors allow for high efficiency, smooth operation and a long operational life. The motors come equipped with a high pressure shaft seal and also come in a wide range of displacements. The Genuine Metaris Orbital Motor is a functional replacement for common motors in the market today such as Eaton®/Char-Lynn®, Danfoss®, Parker® and White®.

- Displacements from 3.1in³/r (50cm³/r) to 76.3in³/r (1250cm³/r)
- Roller Star technology, as opposed to Geroter
- High efficiency, smooth operation and long service life
- Spool valve and disc valve options
- Multiple flange options available
- Wide variety of shaft options: straight, splined, tapered, with flat keys, woodruff keys, crossholes and nuts
- Multiple port styles and sizes
- Fit and function replacements for common OEM motors



Applications

Sweepers	Cranes
Seeders	Boom Drives
Food Processing	Fork Lifts
Car Wash Equipment	Marine Equipment
Saw Mills	Rudder Controls
Turf Equipment	Backhoes
Concrete Equipment	Chippers
Railroad Maintenance	Salt Spreaders
Combines	Plastics Machinery
Loaders	Rubber Machinery
Wheel Drives	Feed Rollers

If it's Motors You're Looking for...

MMPS SERIES



- Spool Valve Distribution Type
- Available in 11 displacement sizes
- 2-bolt and 4-bolt flange options
- Max Pressure Drop:
Cont. (psi) 2002 - 1204 | Int. (psi) 2248 - 1305
- Replacement for Danfoss® DH, DS, OMP, OMR, Char-Lynn® H(101-), S(103-), T(158-), Parker® TB, TC, White® HB(300), RS(200/201), WD(145/146), WG(275/276/277/278/280/281), WP(155/156) & WR(255/256)

MMPS Series Specifications

Displacement	(in ³ /r)	3.1 - 24.1
	(cm ³ /r)	(50 - 395)
Max. Torque	Cont. (lb-in)	823 - 3797
	Cont. (Nm)	(93 - 429)
	Int. (lb-in)	929 - 4054
	Int. (Nm)	(105 - 458)
Max. Speed	Cont. RPM	750 - 133
	Int. RPM	(875 - 141)

MMRSW SERIES



- Spool Valve Distribution Type
- Available in 11 displacement sizes
- 4-bolt wheel flange
- Many shaft options including keyed & tapered
- Max Pressure Drop:
Cont. (psi) 2031 - 1668 | Int. (psi) 2538 - 2176
- Replacement for Danfoss® OMEW, Char-Lynn® W(162-), Parker® TJ, TF, TL & White® WG(275/276) series

MMRSW Series Specifications

Displacement	(in ³ /r)	3.1 - 24.1
	(cm ³ /r)	(50 - 395)
Max. Torque	Cont. (lb-in)	885 - 5487
	Cont. (Nm)	(100 - 620)
	Int. (lb-in)	1151 - 6505
	Int. (Nm)	(130 - 735)
Max. Speed	Cont. RPM	775 - 150
	Int. RPM	(970 - 185)

MMH SERIES



- Spool Valve Distribution Type
- Available in 7 displacement sizes
- 4-bolt and 6-bolt magneto flange options
- Many shaft options including keyed, splined, tapered, etc.
- Max Pressure Drop:
Cont. (psi) 2538 - 1450 | Int. (psi) 2901 - 1740
- Replacement for Danfoss® OMH & Parker® TG series

MMH Series Specifications

Displacement	(in ³ /r)	12.2 - 48.8
	(cm ³ /r)	(200 - 800)
Max. Torque	Cont. (lb-in)	4425 - 10143
	Cont. (Nm)	(500 - 1146)
	Int. (lb-in)	5071 - 12170
	Int. (Nm)	(573 - 1375)
Max. Speed	Cont. RPM	360 - 100
	Int. RPM	(470 - 120)

MMW SERIES



- Spool Valve Distribution Type
- Available in 7 displacement sizes
- 4-bolt wheel flange
- Many shaft options including keyed, splined, tapered, etc.
- Max Pressure Drop:
Cont. (psi) 2538 - 1450 | Int. (psi) 2901 - 1740
- Replacement for Char-Lynn® W, Parker® TF, TG, TH, White® CE(400/401/420/421), HB(300) & RE(500/501) series

MMW Series Specifications

Displacement	(in ³ /r)	12.2 - 48.8
	(cm ³ /r)	(200 - 800)
Max. Torque	Cont. (lb-in)	4425 - 10143
	Cont. (Nm)	(500 - 1146)
	Int. (lb-in)	5071 - 12170
	Int. (Nm)	(573 - 1375)
Max. Speed	Cont. RPM	360 - 100
	Int. RPM	(470 - 120)

We've Got You Covered.

MMS SERIES



- Disc Valve Distribution Type
- Available in 9 displacement sizes
- 2-bolt, 4-bolt & 6-bolt flange options
- Max Pressure Drop:
Cont. (psi) 2466 - 1740 | Int. (psi) 3989 - 2031
- Replacement for Danfoss® OMS, Char-Lynn® 2000(104-/105-/106-), Parker® TE, TF, White® DR(600/620), HB(300), RE(500/501/520/521) & WS(350/351/355/356/357/358) series

MMS Series Specifications

Displacement	(in ³ /r)	4.9 - 29.9
	(cm ³ /r)	(80 - 490)
Max. Torque	Cont. (lb-in)	1726 - 7479
	Cont. (Nm)	(195 - 845)
	Int. (lb-in)	2700 - 8231
	Int. (Nm)	(305 - 930)
Max. Speed	Cont. RPM	799 - 153
	Int. RPM	(908 - 230)

MMK SERIES



- Disc Valve Distribution Type
- Available in 9 displacement sizes
- 4-bolt & wheel flange options
- Many shaft options including keyed, splined, tapered, bearingless, etc.
- Max Pressure Drop:
Cont. (psi) 2973 - 1668 | Int. (psi) 4496 - 2031
- Replacement for Danfoss® TMT, Char-Lynn® 4000(109-/110-/111-), Parker® TG & White® DT(700)

MMK Series Specifications

Displacement	(in ³ /r)	6.7 - 38.1
	(cm ³ /r)	(110 - 625)
Max. Torque	Cont. (lb-in)	2832 - 8585
	Cont. (Nm)	(320 - 970)
	Int. (lb-in)	4160 - 10444
	Int. (Nm)	(470 - 1180)
Max. Speed	Cont. RPM	697 - 151
	Int. RPM	(868 - 241)

MMT SERIES

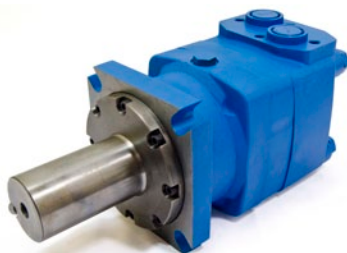


- Disc Valve Distribution Type
- Available in 8 displacement sizes
- 4-bolt & wheel flange options
- Max Pressure Drop:
Cont. (psi) 2466 - 1740 | Int. (psi) 3989 - 2031
- Replacement for Danfoss® OMT, Char-Lynn® 6000(112-/113-/114-), Parker® TK, White® DT(700) & D9(800) series

MMT Series Specifications

Displacement	(in ³ /r)	11.9 - 60.1
	(cm ³ /r)	(195 - 985)
Max. Torque	Cont. (lb-in)	4204 - 13896
	Cont. (Nm)	(475 - 1570)
	Int. (lb-in)	6815 - 16595
	Int. (Nm)	(770 - 1875)
Max. Speed	Cont. RPM	775 - 153
	Int. RPM	(866 - 230)

MMV SERIES



- Disc Valve Distribution Type
- Available in 7 displacement sizes
- 4-bolt flange options
- Many shaft options including keyed, splined, tapered, bearingless, etc.
- Max Pressure Drop:
Cont. (psi) 2901 - 2176 | Int. (psi) 3481 - 2466
- Replacement for Danfoss® OMV, Char-Lynn® 10000(119-), White® DT(700) & D9(800) series

MMV Series Specifications

Displacement	(in ³ /r)	18.9 - 76.3
	(cm ³ /r)	(310 - 1250)
Max. Torque	Cont. (lb-in)	8143 - 24251
	Cont. (Nm)	(920 - 2740)
	Int. (lb-in)	9824 - 27614
	Int. (Nm)	(1110 - 3120)
Max. Speed	Cont. RPM	510 - 160
	Int. RPM	(630 - 190)

Proven Performance

Roller-Star Technology Benefits

Orbital motors that utilize Roller-Star technology over Geroter technology demonstrate a variety of valuable benefits that allow for a more efficient, reliable and longer lasting product.

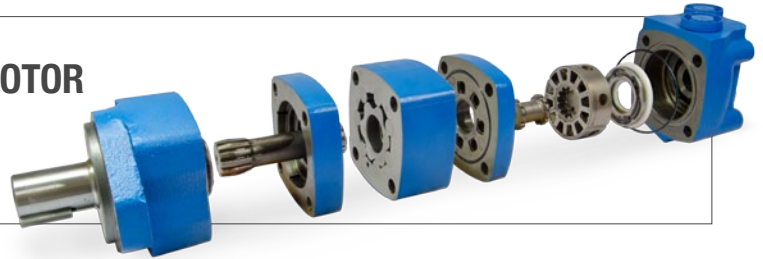
- Lower friction
- Higher mechanical efficiency
- Higher start-up torque
- Smoother low speed operation
- Less wear on rollers
- Longer service life

Visit www.metaris.com or www.orbitalmotors.net for more information



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Hydraulex Global Corporate
48175 Gratiot Ave
Chesterfield, MI 48051
Toll Free: 800.422.4279
Tel: 586.949.4240
www.hydraulex.com

Hydraulex Global - Michigan	Tel: 586.949.4240
Hydraulex Global - Mississippi	Tel: 601.469.1987
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sales@ahx1.com
sales@metarisusa.com
sales@metaris.com
sales@h-r-d.com
sales@flinthydrostatics.com



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