



## EW Series Wheel Motor



*Compact, energy efficient series of electric wheelmotors that produce unrivalled levels of smooth torque at low controlled speeds. Standard flange fittings accept different wheel rim sizes, and internal heavy duty tapered roller bearings can withstand heavy radial loads for robust use.*

The PML eWheel range of permanent magnet wheel motors is designed to be rugged, flexible and adaptable to suit many applications. Based on 5 years of evolution, the eWheel offers exceptional efficiency, coupled with a high power to weight ratio that makes it the ideal solution for battery powered equipment. Extensive attention to detail has been placed in the bearing, sealing and weather proofing arrangements to provide the eWheel with enough build quality to withstand arduous environments.

### DESIGN FEATURES INCLUDE:

- Rugged oversized taper roller bearings
- Fully waterproof to IP 65
- High torque overload rating for fast acceleration
- Over-temperature thermistors fitted
- Smooth 12 step commutation for smooth high power performance
- Standard wheel rim mounts allow free choice of tyre/wheel
- High efficiency - ideal for battery powered applications
- High power to weight ratio

### TYPICAL APPLICATIONS

- Electric Vehicles
- Direct drive turntables / indexing
- Conveyor drives
- Shuttle car drives
- Lift drives

For further information ►



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## PERFORMANCE DATA

TEST DETAIL		E WHEEL MOTOR TEST RESULTS							
MOTOR RATINGS	UNIT	EW15		EW20		EW25		EW30	
		30	60	30	60	30	60	30	60
Peak Stall Torque (30 sec)	Nm	36	48	76	140	168	340	320	640
Continuous Stall Torque	Nm	9	12	19	35	42	85	80	160
Rated Power	Watts	1350	1800	2280	4200	4200	8500	7200	14400
Rated Speed	RPM	1500	1500	1200	1200	1000	1000	900	900

## PERFORMANCE CHARACTERISTICS AND DATA

## DIMENSION GUIDES

MOTOR TYPE	DIMENSIONS														Wt
	A	B	C	D	E	F	G	H	J	K	L	M	N		
EW15/30	149	66	n/a	70	20	9	9	4	m6 x6	32	m5 x5	52	60	4	
EW15/60	149	66	n/a	100	20	9	9	4	m6 x6	32	m5 x5	52	60	6	
EW20/30	190	90	n/a	75	30	4	4	7	m8 x4	110	m6 x6	24	60	6	
EW20/60	190	90	n/a	105	30	4	4	7	m8 x4	110	m6 x6	24	60	9	
EW25/30	252	110	48	80	30	8	16	10	m12 x12	90	m8 x6	30	74	8.5	
EW25/60	252	110	48	110	30	8	16	10	m12 x12	90	m8 x6	30	74	13	
EW30/30	316	110	60	80	40	8	14	10	m12 x12	90	m8 x6	38	74	12	
EW30/60	316	110	60	120	40	8	14	10	m12 x12	90	m8 x6	38	74	18	

All dimensions in mm. All weights in kg.

