# **EIVE SYSTEMS**



motion solutions for leisure, mobility and industrial applications



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#### designed for application bespoke DC gear-motor solutions











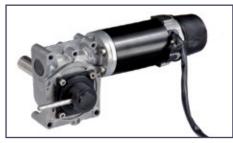
STAIR LIFT unique worm-spur double reduction gearbox delivering 124Nm of torque in compact design



MOBILITY SCOOTER / GOLF RIDE-ON robust gearbox with black powder-coated finish, brake and special shaft



CARAVAN MOVER bespoke worm unit with ergonomic chassis and integrated housing for easy installation



WHEELCHAIR POWER ASSIST sealed worm gearbox with de-clutch and brake options



POWERED GOLF CADDY lightweight plastic gearbox with differential gearing for improved manoeuvrability



POWERED GOLF CADDY lightweight worm plastic gearbox with hollow shaft option



DOOR OPENER PM44-50 fitted with spade connectors and compact worm gearbox



FLOOR CLEANER rare-earth motor fitted with long-life sealed worm gearbox and brake



MOBILITY AID worm gearbox with 3-point fixing for wheelchair vehicle access winch

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### PM44-25 / PM44-38 / PM44-50 permanent magnet DC motor

standard motor configured and customised for your application

MOTOR	Permanent magnet DC
SPEED	1500 - 8000 rpm
PROTECTIO	N IP44 - IP66
POWER	up to 180 Watts
VOLTAGE	12 - 240V DC
INSULATION	Class F
CONSTRUCT	ION Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; 300mm
	flying leads; maximum shaft diameter 8mm
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding brake;
	dedicated cable harness; spade connectors





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

This motor may be coupled with many of our standard worm, spur and planetary gearboxes.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

		PM44-25			PM44-38			PM44-50	
	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)
ty oly)	30	5000	0.057	50	5000	0.095	-	-	-
Continuous S1 duty (assuming 24V supply)	30	4000	0.070	50	4000	0.120	65	4000	0.155
ntinuou uming 2	30	3000	0.090	50	3000	0.160	65	3000	0.200
Co (ass	30	2000	0.140	50	2000	0.240	65	2000	0.310
30% Jy)	45	5000	0.086	75	5000	0.143	-	-	-
duty S3 :4V supj	45	4000	0.107	75	4000	0.179	100	4000	0.239
Intermittent duty 53 30% (assuming 24V supply)	45	3000	0.143	75	3000	0.239	100	3000	0.319
Interr (ass	45	2000	0.215	75	2000	0.359	100	2000	0.478



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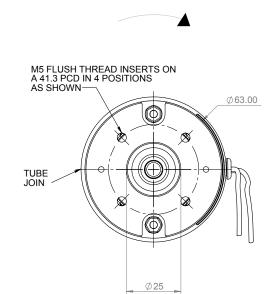


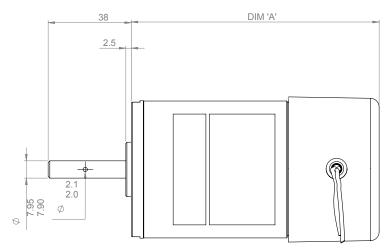
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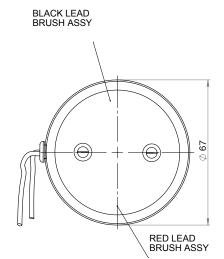
#### drawing for PM44-25 / PM44-38 / PM44-50 permanent magnet DC motor

standard motor configured and customised for your application

DIRECTION OF ROTATION







NOTE: WITH THE BRUSH LEAD ASSEMBLYS IN THE POSITIONS AS SHOWN THIS WILL GIVE A CLOCK WISE ROTATION AT THE DRIVE END OF THE MOTOR.

Motor Type	Motor Weight	DI	MA (mm)
		Totally Enclosed	Ventilated
PM44-25	0.8 kg	101	113
PM44-38	1.2kg	114	126
PM44-50	1.3kg	126	138





## PM50-38 / PM50-50 / PM50-63 permanent magnet DC motor

standard motor configured and customised for your application

MOTOR	Permanent magnet DC
SPEED	1500 - 8000 rpm
PROTECTION	IP44 - IP66
POWER	up to 450 Watts
VOLTAGE	12 - 240V DC
INSULATION	Class F
CONSTRUCTION	Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; spade
	connectors; maximum shaft diameter 9.5mm
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding
	brake; dedicated cable harness; shaft at both ends





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

This motor may be coupled with many of our standard worm, spur and planetary gearboxes.

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		PM50-38			PM50-50			PM50-63	
	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)
	91	6400	0.14	110	6300	0.16	135	6200	0.21
luty pply)	94	5300	0.17	110	5250	0.2	134	5200	0.25
s S1 c 4V su	91	3700	0.24	110	3675	0.28	122	3650	0.33
inuou ing 2	93	3000	0.30	104	2500	0.39	120	2970	0.39
Continuous S1 duty (assuming 24V supply)	82	1800	0.44	94	1800	0.49	112	1750	0.62
Ŭ	75	1500	0.47	89	1500	0.56	109	1580	0.67
~	148	6400	0.22	190	6300	0.28	209	6200	0.32
33 30% pply)	146	5300	0.26	190	5250	0.34	206	5200	0.37
duty 9 4V su	139	3700	0.36	190	3675	0.49	188	3650	0.49
tent ( ing 2	146	3000	0.47	184	2500	0.7	185	2970	0.59
Intermittent duty S3 30% (assuming 24V supply)	125	1800	0.66	181	1800	0.96	173	1750	0.94
(i) (i)	112	1500	0.71	160	1500	1.01	169	1580	1.02

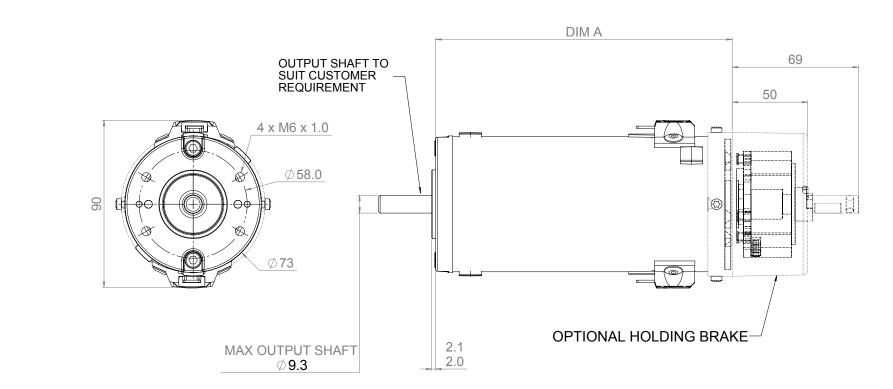




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# drawing for PM50-38 / PM50-50 / PM50-63 permanent magnet DC motor

standard motor configured and customised for your application



Motor Type	Motor Weight	DIMA (	mm)
		Totally Enclosed	Ventilated
PM50-25	1.9 kg	119	130
PM50-38	1.9kg	130	145
PM50-50	2.0kg	145	155
PM50-63	2.1kg	155	165

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





# PM50-38 / PM50-50 / PM50-63 with GB4 gearbox

standard motor-gearbox configured and customised for your application



MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
PROTECTION	IP44 - IP66	EFFICIENCY	up to 95%
POWER	up to 450 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 20mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; spade connectors		housing; sealed for life; cushioned 3-piece coupling; steel output shaft with 2 ball- bearings
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding brake	OPTIONS	Stainless steel shaft; black finish; dog clutch





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB4 gearbox is available as an MRO product; for new applications we recommend the GB12 gearbox instead, which offers improved performace with similar dimensions.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

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		PM50-	38GB4			PM50-	50GB4			RE50-	63GB4			Gearbox	GB4	
	Power	Speed	Torque	e (Nm)	Power	Speed	Torqu	e (Nm)	Power	Speed	Torque	e (Nm)	Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze	Ratio	Efficiency	Delrin	Bronze
	81	512	1.4	1.4	110	504	1.9	1.8	142	496	2.4	2.3	12.5	95%	68	79
<del>ک</del> (ک	83	424	1.8	1.7	110	420	2.3	2.2	141	416	2.8	2.7	12.5	<b>95</b> %	68	79
1 duty supply)	80	296	2.5	2.4	110	294	3.1	3.0	129	292	3.8	3.7	12.5	<b>95</b> %	68	79
us S1 24V	83	212	3.4	3.3	110	210	4.4	4.3	141	208	5.5	5.4	25	90%	73	82
	82	100	6.7	6.6	104	100	9.2	9.1	127	99	9.7	9.5	30	84%	56	76
Continuo (assuming	82	60	10.4	10.1	104	60	12.8	12.5	127	59	15.2	14.7	50	78%	72	81
(as	71	30	17.2	16.8	94	30	22.6*	22.2*	118	29	28.1*	27.4	60	76%	57	76
	63	20	22.7*	22.1*	89	20	29.7*	29.3*	115	21	36.8*	35.9*	75	74%	40	45
<b>\</b> 0	133	512	2.4	2.3	110	504	3.1	3.0	220	496	3.8	3.7	12.5	<b>95</b> %	68	79
30% Jy)	131	424	2.8	2.6	110	420	3.6	3.4	217	416	4.4	4.3	12.5	<b>95</b> %	68	79
y S3 30 supply)	124	296	3.8	3.7	110	294	4.8	4.7	198	292	5.8	5.7	12.5	<b>95</b> %	68	79
t dut 24V	131	212	5.3	5.1	110	210	7.0	6.8	217	208	8.6	8.2	25	<b>90</b> %	73	82
tent ing 2	131	100	10.2	9.9	104	100	12.6	12.3	195	99	15.0*	14.6	30	84%	56	76
itermitten (assuming	131	60	19.0*	18.6	104	60	21.1	20.7	195	59	23.2*	22.7	50	78%	72	81
Intermittent duty (assuming 24V su	110	30	26.9*	26.1	94	30	35.1*	34.3*	182	29	43.3*	42.1*	60	76%	57	76
	97	20	34.7*	33.9*	89	20	45.8*	45.0*	178	21	-	-	75	74%	40	45

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# PM50-38 / PM50-50 / PM50-63 with GB4 gearbox

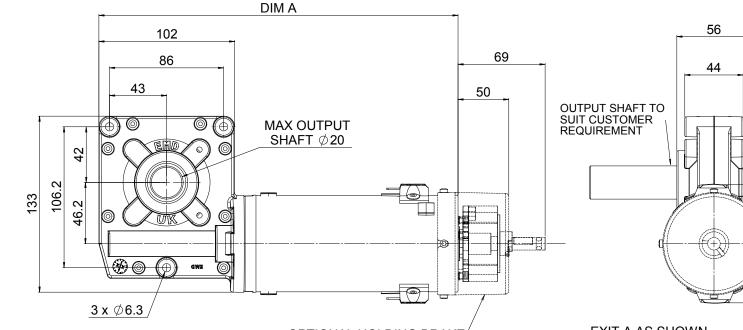
standard motor-gearbox configured and customised for your application











OPTIONAL HOLDING BRAKE

Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM	Ą
		with Delrin	with bronze	Totally Enclosed	Ventilated
PM50-38	1.9 kg	1.0 kg	1.4 kg	240	253
PM50-50	2.0kg	1.0 kg	1.4 kg	252	265
PM50-63	2.1kg	1.0 kg	1.4 kg	265	278

#### EXIT A AS SHOWN EXIT B IS THE OPPOSITE HAND

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements

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#### PM50-38 / PM50-50 / PM50-63 with GB12 gearbox

standard motor-gearbox configured and customised for your application



MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
PROTECTION	IP44 - IP66	EFFICIENCY	up to 95%
POWER	up to 450 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 25mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; spade connectors		housing; sealed for life - maintenance free; cushioned 1-piece coupling; steel output shaft with 2 ball-bearings
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding brake	OPTIONS	Stainless steel shaft; black finish; de-clutch





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB12 gearbox may be coupled with many of our other standard AC or DC motors.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

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		PM50-3	38GB12			PM50-5	50GB12			PM50-6	53GB12			Gearbox	GB12	
	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze		,	Delrin	Bronze
	81	512	1.4	1.4	110	504	1.9	1.8	142	496	2.4	2.3	12.5	<b>95</b> %	68	79
	83	424	1.8	1.7	110	420	2.3	2.2	141	416	2.8	2.7	12.5	<b>95</b> %	68	79
1 duty supply)	80	296	2.5	2.4	110	294	3.1	3	129	292	3.8	3.7	12.5	<b>95</b> %	68	79
	83	212	3.4	3.3	110	210	4.4	4.3	141	208	5.5	5.4	25	90%	73	82
Continuous S (assuming 24V	82	100	6.7	6.6	104	100	9.2	9.1	127	99	9.7	9.5	30	84%	56	76
ontii sum	82	60	10.4	10.1	104	60	12.8	12.5	127	59	15.2	14.7	50	78%	72	81
(as)	71	30	17.2	16.8	94	30	*22.6	*22.2	118	29	*28.1	27.4	60	76%	57	76
	63	20	*22.7	*22.1	89	20	*29.7	*29.3	115	21	*36.8	*35.9	75	74%	40	45
	133	512	2.4	2.3	110	504	3.1	3	220	496	3.8	3.7	12.5	95%	68	79
30% oly)	131	424	2.8	2.6	110	420	3.6	3.4	217	416	4.4	4.3	12.5	<b>95</b> %	68	79
y S3 30 supply)	124	296	3.8	3.7	110	294	4.8	4.7	198	292	5.8	5.7	12.5	95%	68	79
dut 24V	131	212	5.3	5.1	110	210	7	6.8	217	208	8.6	8.2	25	90%	73	82
Intermittent duty (assuming 24V sı	131	100	10.2	9.9	104	100	12.6	12.3	195	99	*15.0	14.6	30	84%	56	76
mitt	131	60	*19.0	18.6	104	60	21.1	20.7	195	59	*23.2	22.7	50	78%	72	81
nter (as:	110	30	*26.9	26.1	94	30	*35.1	*34.3	182	29	*43.3	*42.1	60	76%	57	76
-	97	20	*34.7	*33.9	89	20	*45.8	*45.0	178	21	-	-	75	74%	40	45







#### drawing for PM50-38 / PM50-50 / PM50-63 with GB12 gearbox

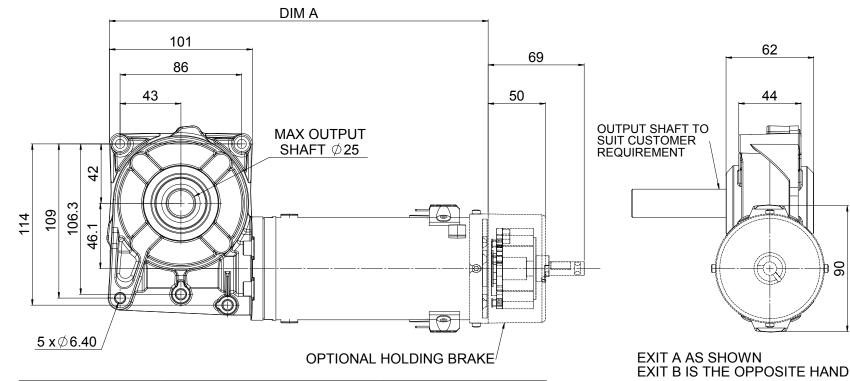
standard motor-gearbox configured and customised for your application











Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM	٩
		with Delrin	with bronze	Totally Enclosed	Ventilated
PM50-38	1.9 kg	1.1 kg	1.5 kg	239	252
PM50-50	2.0kg	1.1 kg	1.5 kg	251	264
PM50-63	2.1kg	1.1 kg	1.5 kg	264	277

#### All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





#### PM63-50 / PM63-75 / PM63-100 permanent magnet DC motor

standard motor configured and customised for your application

MOTOR	Permanent magnet DC
SPEED	1500 - 8000 rpm
PROTECTION	IP44 - IP66
POWER	up to 900 Watts
VOLTAGE	12 - 240V DC
INSULATION	Class F
CONSTRUCTION	Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; spade
	connectors; maximum shaft diameter 12mm
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding
	brake; dedicated cable harness; shaft at both ends





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

This motor may be coupled with many of our standard worm, spur and planetary gearboxes.

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		PM63-50			PM63-75		ſ	PM63-100	
	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)
	209	6450	0.29	247	6450	0.29	270	6450	0.4
luty pply)	209	5475	0.37	247	5475	0.37	270	4750	0.54
is S1 c :4V su	219	3785	0.55	257	3785	0.55	275	3750	0.7
Continuous S1 duty (assuming 24V supply)	219	2995	0.7	257	2995	0.7	275	3060	0.86
Cont assun	209	1820	1.05	247	1820	1.05	270	1800	1.43
Ŭ	209	1520	1.14	247	1520	1.14	270	1575	1.64
%	318	6250	0.48	356	6250	0.48	380	6300	0.58
53 30 pply)	318	5250	0.58	356	5250	0.58	380	4600	0.79
duty 4V su	328	3600	0.87	366	3600	0.87	385	3650	1.01
ttent ning 2	328	3100	1.01	366	3100	1.01	385	2940	1.25
Intermittent duty 53 30% (assuming 24V supply)	318	2000	1.52	356	2000	1.52	375	1740	2.06
	309	1500	1.97	356	1500	1.97	375	1425	2.51





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#### drawing for PM63-50 / PM63-75 / PM63-100 permanent magnet DC motor

standard motor configured and customised for your application

PM63-50

PM63-75

PM63-100

3.0 kg

4.0 kg

4.2 kg

150

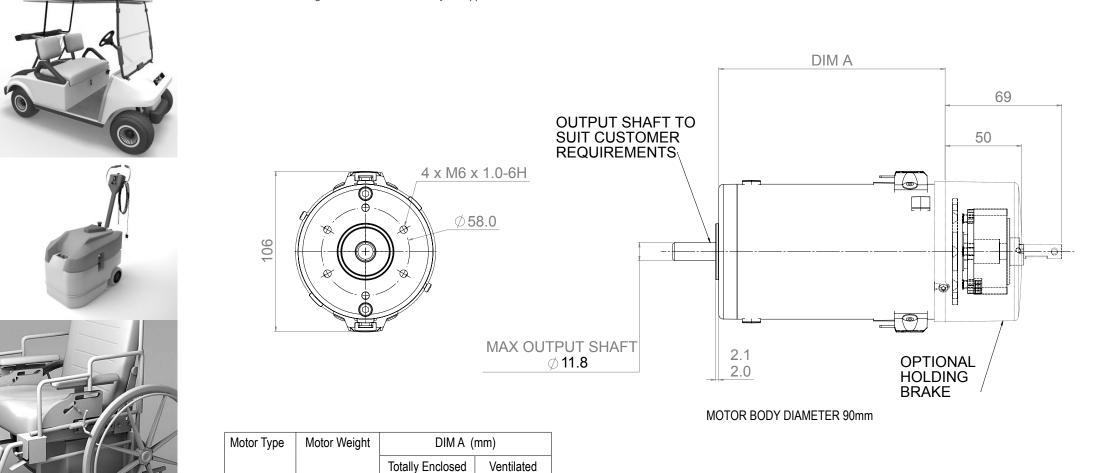
175

200

163

188

213



All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





## PM63-50 / PM63-75 / PM63-100 with GB4 gearbox

standard motor configured and customised for your application



MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
PROTECTION	up to IP66	EFFICIENCY	up to 95%
POWER	up to 900 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 20mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite magnets; aluminium end castings;		housing; sealed for life; cushioned 3-piece
	single piece steel body; replaceable carbon		coupling; steel output shaft with 2 ball-
	brushes; spade connectors		bearings
EXTRAS	Ventilated motor with internal fan (IP2x);	OPTIONS	Stainless steel shaft; black finish; dog clutch
	encoder to RoHS standard; 12V or 24V 2Nm		
	failsafe holding brake		





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB4 gearbox is available as an MRO product; for new applications we recommend the GB12 gearbox instead, which offers improved performace with similar dimensions.

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	PM63-50GB4				PM63-75GB4					RE63-100GB4				Gearbox GB4			
	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)		Power	Speed	Torque	e (Nm)	Ratio	Efficiency		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze		(W)	(rpm)	Delrin	Bronze		,	Delrin	Bronze
	200	516	3.5	3.4	247	560	4.0	3.9		270	515	4.8	4.6	12.5	<b>95</b> %	68	79
$\sum_{i=1}^{n} (x_i)^{i}$	200	438	4.3	4.2	247	424	5.3	5.1		270	380	6.4	6.2	12.5	<b>95</b> %	68	79
dut supp	218	303	6.4	6.2	256	334	6.9	6.7		275	300	8.2	8.0	12.5	<b>95</b> %	68	79
Continuous S1 duty (assuming 24V supply)	200	219	8.3	8.0	247	212	10.0	9.8		270	190	12.2	11.9	25	90%	73	82
	218	100	18.3*	17.8	256	93	22.9	22.3		275	103	24.2*	23.6	30	84%	56	76
	218	50	33.3*	32.5*	256	47	41.5*	39.4*		275	51	40.7*	39.6*	50	78%	72	81
Co (as:	200	30	47.7*	46.5*	247	33	53.3*	50.6*		270	30	65.5*	63.8*	60	76%	57	76
	200	20	60.0*	58.3*	247	22	76.3*	74.3*		270	21	86.2*	81.0*	75	74%	40	45
	318	500	5.8	5.6	356	544	5.9	5.8		380	504	6.8	6.6	12.5	95%	68	79
30% Iy)	318	420	6.8	6.6	356	408	7.8	7.7		380	368	9.3	9.0	12.5	<b>95</b> %	68	79
y S3 30 supply)	328	288	10.1	10.0	365	316	10.3	9.8		385	292	11.8	11.5	12.5	<b>95</b> %	68	79
t duty 24V	318	210	13.0	12.6	356	204	15.0*	14.6*		380	184	17.8*	17.3	25	90%	73	82
ent ing 2	328	103	26.3*	25.6*	365	90	33.9*	33.1*		385	98	32.7*	31.8*	30	84%	56	76
itermitten (assuming	328	52	47.7*	46.5*	365	45	61.6*	60.1*		385	49	59.4*	57.9*	50	78%	72	81
Intermittent duty S3 30% (assuming 24V supply)	318	33	-	67.5*	356	32	-	78.9*		375	29	-	-	60	76%	57	76
-	308	20	-	-	356	19	-	106.4*		375	19	-	-	75	74%	40	45







#### PM63-50 / PM63-75 / PM63-100 with GB4 gearbox

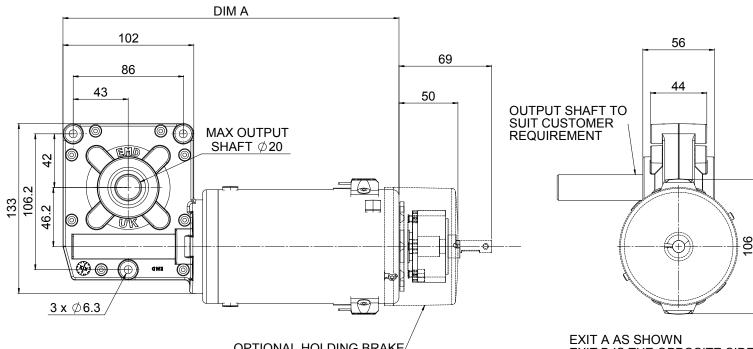
standard motor configured and customised for your application











**OPTIONAL HOLDING BRAKE** 

Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM A			
		with Delrin	with bronze	Totally Enclosed	Ventilated		
PM63-50	3.0 kg	1.0 kg	1.4 kg	264	277		
PM63-75	3.8 kg	1.0 kg	1.4 kg	289	302		
PM63-100	4.6 kg	1.0 kg	1.4 kg	314	327		

#### EXIT B IS THE OPPOSITE SIDE

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





#### PM63-50 / PM63-75 / PM63-100 with GB9 gearbox

standard motor-gearbox configured and customised for your application



MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 60:1, 75:1
PROTECTION	up to IP66	EFFICIENCY	up to 95%
POWER	up to 900 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 25mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite magnets; aluminium end castings;		housing; sealed for life - maintenance free;
	single piece steel body; replaceable carbon		cushioned 1-piece coupling; steel output
	brushes; spade connectors		shaft with 2 ball-bearings
EXTRAS	Ventilated motor with internal fan (IP2x);	OPTIONS	Stainless steel shaft; black finish; dog clutch
	encoder to RoHS standard; 12V or 24V 2Nm		
	failsafe holding brake		





Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB9 gearbox may be coupled with many of our other standard AC or DC motors.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

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	PM63-50GB9			PM63-75GB9					PM63-100GB9					Gearbox GB9				
	Power	Speed	Torque	e (Nm)	Power	Speed	Torqu	e (Nm)		Power	Speed	Torqu	e (Nm)		Ratio	Efficiency		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(W) (rpm) D		Bronze	(W)		(rpm)	Delrin	elrin Bronze		Itatio	Linciency	Delrin	Bronze
	200	516	3.5	3.4	247	560	4	3.9		270	515	4.8	4.6		12.5	95%	171	359
	200	438	4.3	4.2	247	424	5.3	5.1		270	380	6.4	6.2		12.5	<b>95</b> %	171	359
1 duty supply)	218	303	6.4	6.2	256	334	6.9	6.7		275	300	8.2	8		12.5	94%	171	359
IS S1	200	219	8.3	8	247	212	10	9.8		270	190	12.2	11.9		25	90%	192	359
non Ung	218	100	*18.3	17.8	256	93	22.9	*22.3		275	103	*24.2	23.6		30	87%	145	160
Continuous S1 (assuming 24V s	218	50	*33.3	*32.5	256	47	*41.5	*39.4		275	51	*40.7	*39.6		60	<b>79</b> %	148	316
(as:	200	30	*47.7	*46.5	247	33	*53.3	*50.6		270	30	*65.5	*63.8		60	76%	104	316
	200	20	*60	*58.3	247	22	*76.3	*74.3		270	21	*86.2	*81		75	70%	104	266
20	318	500	5.8	5.6	356	544	5.9	5.8		380	504	6.8	6.6		12.5	95%	171	359
30% oly)	318	420	6.8	6.6	356	408	7.8	7.7		380	368	9.3	9		12.5	95%	171	359
y S3 30 supply)	328	288	10.1	10	365	316	10.3	9.8		385	292	11.8	11.5		12.5	94%	171	359
dut 24V	318	210	13	12.6	356	204	*15	*14.6		380	184	*17.8	17.3		25	90%	192	359
tent ing 2	328	103	*26.3	*25.6	365	90	*33.9	*33.1		385	98	*32.7	*31.8		30	87%	145	160
Intermittent duty (assuming 24V si	328	52	*47.7	*46.5	365	45	*61.6	*60.1		385	49	*59.4	*57.9		60	79%	148	316
nter (as:	318	33	*69.2	*67.5	356	32	*80.9	*78.9		375	29	*94	*91.6		60	76%	104	316
_	308	20	*103.2	*100.7	356	19	-	*106.4		375	19	-	*128		75	70%	104	266





#### drawing for PM63-50 / PM63-75 / PM63-100 with GB9 gearbox

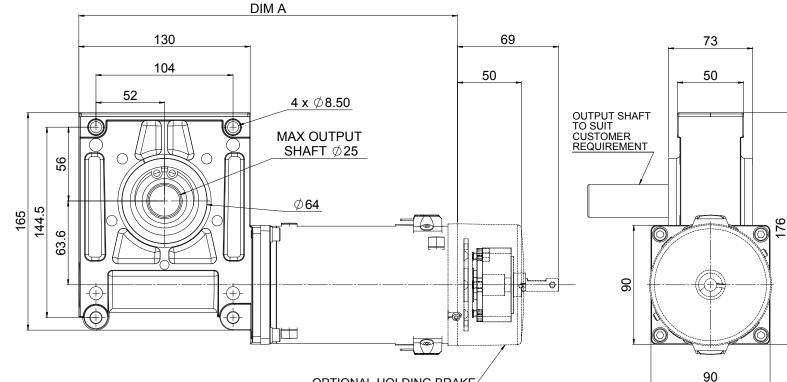
standard motor-gearbox configured and customised for your application











#### OPTIONAL HOLDING BRAKE

Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM A				
		with Delrin	with bronze	Totally Enclosed	Ventilated			
PM63-50	3.0 kg	1.1 kg	1.5 kg	290	303			
PM63-75	4.0 kg	1.1 kg	1.5 kg	315	328			
PM63-100	4.0 kg	1.1 kg	1.5 kg	340	353			

## EXIT A AS SHOWN EXIT B IS THE OPPOSITE HAND

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





# PM63-50 / PM63-75 / PM63-100 with GB12 gearbox

standard motor-gearbox configured and customised for your application



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MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
PROTECTION	IP44 - IP66	EFFICIENCY	up to 95%
POWER	up to 900 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 25mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite magnets; aluminium end castings; single piece steel body; replaceable carbon brushes; spade connectors		housing; sealed for life - maintenance free; cushioned 1-piece coupling; steel output shaft with 2 ball-bearings
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe holding brake	OPTIONS	Stainless steel shaft; black finish; de-clutch





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

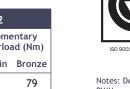
Graphs are available showing the motor performance throughout the speed range.

The GB12 gearbox may be coupled with many of our other standard AC or DC motors.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

	PM63-50GB12					PM63-75GB12			PM63-100GB12					Gearbox GB12				
	Power speed		Torque	Torque (Nm)		Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)		Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze		(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze			,	Delrin	Bronze
	200	516	3.5	3.4		247	560	4	3.9	270	515	4.8	4.6		12.5	<b>95</b> %	68	79
	200	438	4.3	4.2		247	424	5.3	5.1	270	380	6.4	6.2		12.5	<b>95</b> %	68	79
1 duty supply)	218	303	6.4	6.2		256	334	6.9	6.7	275	300	8.2	8		12.5	<b>95</b> %	68	79
$\sim$ >	200	219	8.3	8		247	212	10	9.8	270	190	12.2	11.9		25	90%	73	82
nonc	218	100	*18.3	17.8		256	93	22.9	*22.3	275	103	*24.2	23.6		30	84%	56	76
Continuous (assuming 24	218	50	*33.3	*32.5		256	47	*41.5	*39.4	275	51	*40.7	*39.6		60	78%	72	81
Cr (as:	200	30	*47.7	*46.5		247	33	*53.3	*50.6	270	30	*65.5	*63.8		60	76%	57	76
	200	20	*60	*58.3		247	22	*76.3	*74.3	270	21	*86.2	*81		75	74%	40	45
	318	500	5.8	5.6		356	544	5.9	5.8	380	504	6.8	6.6		12.5	95%	68	79
30% IV)	318	420	6.8	6.6		356	408	7.8	7.7	380	368	9.3	9		12.5	<b>95</b> %	68	79
y S3 30 supply)	328	288	10.1	10		365	316	10.3	9.8	385	292	11.8	11.5		12.5	<b>95</b> %	68	79
dut 24V	318	210	13	12.6		356	204	*15.0	*14.6	380	184	*17.8	17.3		25	90%	73	82
ent ing 2	328	103	*26.3	*25.6		365	90	*33.9	*33.1	385	98	*32.7	*31.8		30	84%	56	76
itermitten (assuming	328	52	*47.7	*46.5		365	45	*61.6	*60.1	385	49	*59.4	*57.9		60	78%	72	81
Intermittent (assuming 2	318	33	*69.2	*67.5		356	32	*80.9	*78.9	375	29	*94	*91.6		60	76%	57	76
_	308	20	*103.2	*100.7		356	19	*122.6	*106.4	375	19	*132	*128		75	74%	40	45







## drawing for PM63-50 / PM63-75 / PM63-100 with GB12 gearbox

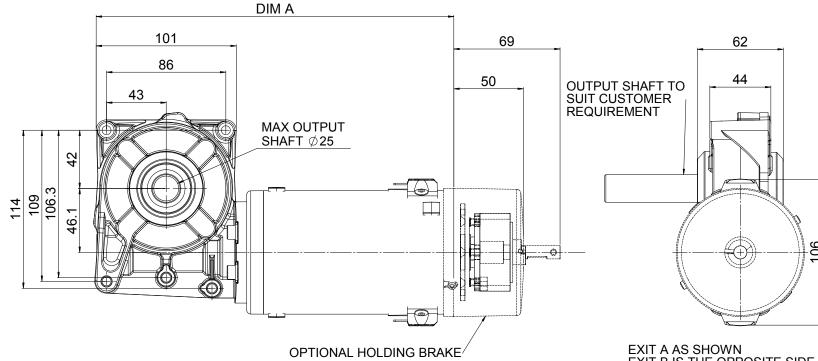
standard motor-gearbox configured and customised for your application











Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM A			
		with Delrin	with bronze	Totally Enclosed	Ventilated		
PM63-50	3.0 kg	1.1 kg	1.5 kg	263	277		
PM63-75	4.0 kg	1.1 kg	1.5 kg	288	301		
PM63-100	4.0 kg	1.1 kg	1.5 kg	313	326		

## EXIT A AS SHOWN EXIT B IS THE OPPOSITE SIDE

#### Motor body diameter 90mm

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





#### PM90-150 / PM90-180 / RE90-146 (rare earth) permanent magnet DC motor

standard motor configured and customised for your application

MOTOR	Permanent magnet DC
SPEED	1500 - 8000 rpm
PROTECTION	IP44 - IP66
POWER	up to 900 Watts
VOLTAGE	12 - 240V DC
INSULATION	Class F
CONSTRUCTION	Ferrite or rare-earth Neodynium (NdFeB) magnets; aluminium end castings; single piece steel body;
	replaceable carbon brushes; spade connectors; maximum shaft diameter 12mm
EXTRAS	Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm failsafe
	holding brake; dedicated cable harness; shaft at both ends





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

This motor may be coupled with many of our standard worm, spur and planetary gearboxes.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

	F	PM90-150		F	PM90-180		1	RE90-146	
	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)	Power (W)	Speed (rpm)	Torque (Nm)
	220	6450	0.3	260	6450	0.38	230	6800	0.32
luty pply)	220	5475	0.38	260	5475	0.45	230	5120	0.42
S1 d IV su	230	3785	0.58	270	3785	0.68	235	3750	0.59
Continuous S1 duty (assuming 24V supply)	230	2995	0.74	270	2995	0.86	235	3100	0.72
Cont	220	1820	1.1	260	1820	1.3	235	1900	1.18
2)	220	1520	1.2	260	1520	1.5	235	1550	1.44
	335	6250	0.51	375	6250	0.57	345	6500	0.5
3 30% pply)	335	5250	0.6	375	5250	0.68	345	4975	0.66
luty S #V su	345	3600	0.91	385	3600	0.98	350	3600	0.89
Intermittent duty S3 30% (assuming 24V supply)	345	3100	1.06	385	3100	1.18	350	3000	1.11
ermil	335	2000	1.6	375	2000	1.85	350	1800	1.86
lnt (ã	325	1500	2.07	375	1500	2.25	350	1600	2.22





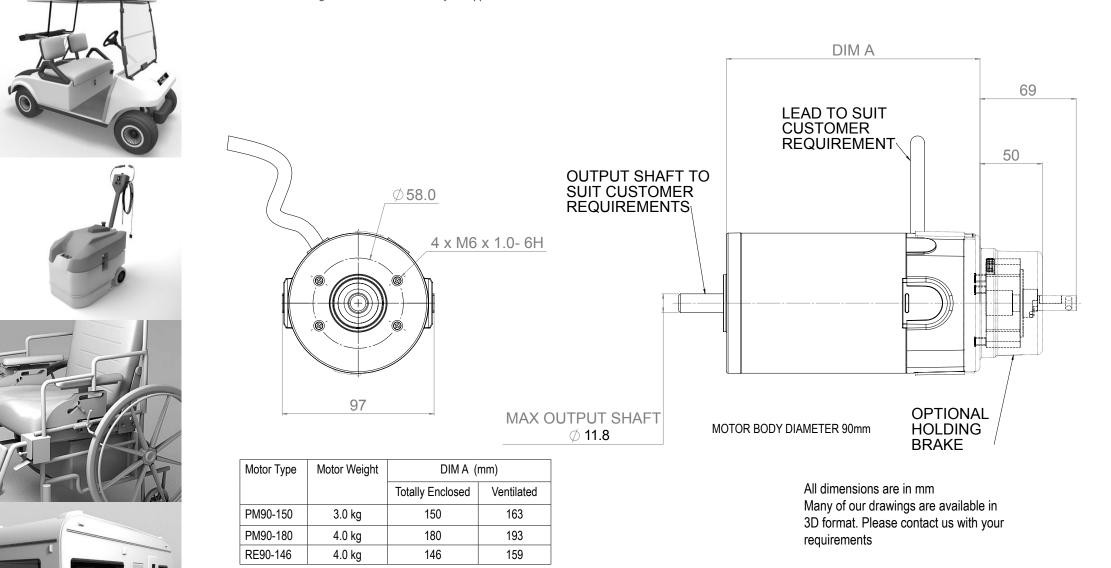
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## drawing for PM90-150 / PM90-180 / RE90-146 (rare earth) permanent magnet DC motor

standard motor configured and customised for your application







## PM90-150 / PM90-180 / RE90-146 (rare earth) with GB4 gearbox

standard motor configured and customised for your application

failsafe holding brake; dedicated cable

harness









MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
PROTECTION	IP44 - IP66	EFFICIENCY	up to 95%
POWER	up to 900 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 20mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite or rare-earth Neodynium (NdFeB) magnets; aluminium end castings; single piece steel body; replaceable carbon		housing; sealed for life; cushioned 3-piece coupling; steel output shaft with 2 ball- bearings
EXTRAS	brushes; 300mm flying leads Ventilated motor with internal fan (IP2x); encoder to RoHS standard; 12V or 24V 2Nm	OPTIONS	Stainless steel shaft; black finish; dog clutch

		PM90-1	150GB4		PM90-180GB4						RE90-1	146GB4		Gearbox GB4					
	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)		Power	Speed	Torqu	e (Nm)		Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)	
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze		(W)	(rpm)	Delrin	Bronze			,	Delrin	Bronze	
	210	516	3.7	3.6	230	560	4.2	4.1		230	544	3.8	3.7		12.5	<b>95</b> %	68	79	
	220	438	4.6	4.5	230	424	5.6	5.4		230	410	5.1	5.0		12.5	<b>95</b> %	68	79	
1 duty supply)	230	303	6.8	6.6	235	334	7.3	7.1		235	300	7.0	6.8		12.5	<b>95</b> %	68	79	
S >	220	219	8.8	8.5	230	212	10.6	10.3		230	205	9.7	9.4		25	90%	73	82	
Continuous Issuming 24	230	100	19.3*	18.8	235	93	24.1	23.5*		235	103	18.9*	18.4		30	84%	56	76	
Continuo assuming	230	50	35.1*	34.2*	235	47	43.7*	42.6*		235	52	34.4*	33.5*		50	78%	72	81	
(ass	220	30	50.2*	49.0*	235	33	56.1*	54.7*		235	32	53.8*	52.5*		60	76%	57	76	
	220	20	63.0*	61.4*	235	22	80.3*	78.3*		235	21	75.6*	73.7*		75	74%	40	45	
	335	500	6.1	5.9	345	544	6.3	6.1		345	520	6.0	5.9		12.5	<b>95</b> %	68	79	
رام 1y) گ	335	420	7.2	7.0	345	408	8.3	8.1		345	396	7.8	7.6		12.5	<b>95</b> %	68	79	
y 53 30 supply)	345	288	10.7	10.5	350	316	10.9	10.6		350	288	10.5	10.2		12.5	<b>95</b> %	68	79	
dut)	335	210	13.7	13.3	345	204	15.8*	15.4*		345	199	14.9*	14.5		25	90%	73	82	
Intermittent duty (assuming 24V si	345	103	27.7*	27.0*	350	90	35.7*	34.9*		350	100	29.0*	28.2*		30	84%	56	76	
mitt sumi	345	52	50.2*	49.0*	350	45	64.9*	63.3*		350	50	52.6	51.3*		50	78%	72	81	
nter (ass	335	33	72.9*	71.1*	350	32	85.2*	83.1*		350	30	84.8*	82.7*		60	76%	57	76	
-	325	20	108.6*	106.0*	350	19	129.1*	112.0*		350	21	116.5*	113.6*		75	74%	40	45	



ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB4 gearbox is available as an MRO product; for new applications we recommend the GB12 gearbox instead, which offers improved performace with similar dimensions.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

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# PM90-150 / PM90-180 / RE90-146 (rare earth) with GB4 gearbox

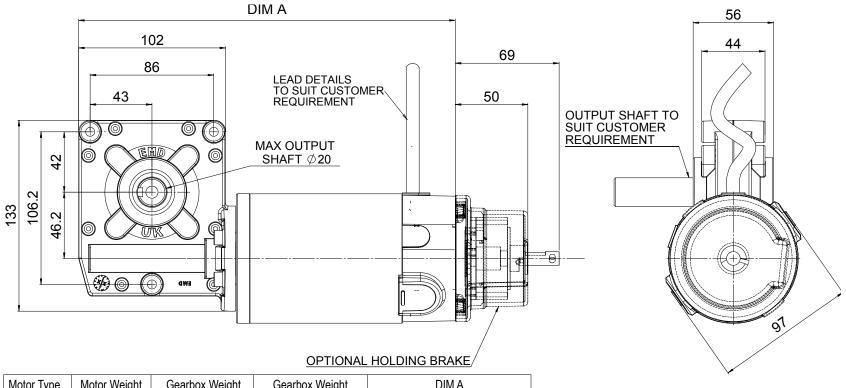
standard motor configured and customised for your application











Gearbox Weight DIM A Motor Type Gearbox Weight Motor Weight with Delrin with bronze Totally Enclosed Ventilated PM90-150 3.0 kg 1.0kg 1.4 kg 277 264 4.0 kg 1.0kg PM90-180 1.4 kg 294 307 1.4 kg RE90-146 4.0 kg 1.0kg 260 273

EXIT A AS SHOWN EXIT B IS THE OPPOSITE HAND

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements





## PM90-150 / PM90-180 / RE90-146 (rare earth) with GB9 gearbox

standard motor-gearbox configured and customised for your application

harness









MOTOR	Permanent magnet DC	GEARBOX	Worm and wheel
SPEED	1500 - 8000 rpm	RATIOS	12.5:1, 25:1, 30:1, 60:1, 75:1
PROTECTION	IP44 - IP66	EFFICIENCY	up to 95%
POWER	up to 900 Watts	MATERIALS	Delrin or phosphor bronze
VOLTAGE	12 - 240V DC	SHAFT	single or double up to 25mm diameter
INSULATION	Class F	CONSTRUCTION	Steel worm shaft; CNC machined aluminium
CONSTRUCTION	Ferrite or rare-earth Neodynium (NdFeB)		housing; sealed for life - maintenance free;
	magnets; aluminium end castings; single		cushioned 1-piece coupling; steel output
	piece steel body; replaceable carbon		shaft with 2 ball-bearings
	brushes; 300mm flying leads	OPTIONS	Stainless steel shaft; black finish; dog clutch
EXTRAS	Ventilated motor with internal fan (IP2x);		
	encoder to RoHS standard; 12V or 24V 2Nm		
	failsafe holding brake; dedicated cable		



	PM90-150GB9			PM90-1	180GB9			RE90-1	46GB9			Gearbox	GB9			
	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze		,	Delrin	Bronze
	210	516	3.7	3.6	260	560	4.2	4.1	230	544	3.8	3.7	12.5	<b>95</b> %	171	359
$\frac{1}{2}$	220	438	4.6	4.5	260	424	5.6	5.4	230	410	5.1	5	12.5	<b>95</b> %	171	359
1 duty supply)	230	303	6.8	6.6	270	334	7.3	7.1	235	300	7	6.8	12.5	<b>94</b> %	171	359
IS S1	220	219	8.8	8.5	260	212	10.6	10.3	230	205	9.7	9.4	25	90%	192	359
nonu jug 2	230	100	19.3	18.8	270	93	24.1	23.5	235	103	18.9	18.4	30	87%	145	160
Continuous S (assuming 24V	230	50	35.1	34.2	270	47	*43.7	42.6	235	52	34.4	33.5	60	<b>79</b> %	148	316
Co (as:	220	30	50.2	49	260	33	56.1	54.7	235	32	53.8	52.5	60	76%	104	316
	220	20	*63.0	61.4	260	22	*80.3	78.3	235	21	*75.6	73.7	75	70%	104	266
	335	500	6.1	5.9	375	544	6.3	6.1	345	520	6	5.9	12.5	95%	171	359
30% Iy)	335	420	7.2	7	375	408	8.3	8.1	345	398	7.8	7.6	12.5	<b>95</b> %	171	359
:y S3 30% supply)	345	288	10.7	10.5	385	316	10.9	10.6	350	288	10.5	10.2	12.5	<b>94</b> %	171	359
dut) 4V :	335	210	13.7	13.3	375	204	15.8	15.4	345	199	14.9	14.5	25	90%	192	359
Intermittent duty S3 (assuming 24V supp	345	103	27.7	27	385	90	*35.7	34.9	350	100	29	28.2	30	87%	145	160
itermitten (assuming	345	52	*50.2	49	385	45	*64.9	63.3	350	50	*52.6	51.3	60	<b>79</b> %	148	316
nter (ass	335	33	*72.9	71.1	375	32	*85.2	83.1	350	30	*84.8	82.7	60	76%	104	316
-	325	20	-	106	375	19	-	112	350	21	-	*113.6	75	70%	104	266



ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB9 gearbox may be coupled with many of our other standard AC or DC motors.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

To find out more please contact a member of our sales team on +44 (0)1202 512 575 or visit our website at www.parvalux.com for further information.

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# drawing for PM90-150 / PM90-180 / RE90-146 (rare earth) with GB9 gearbox

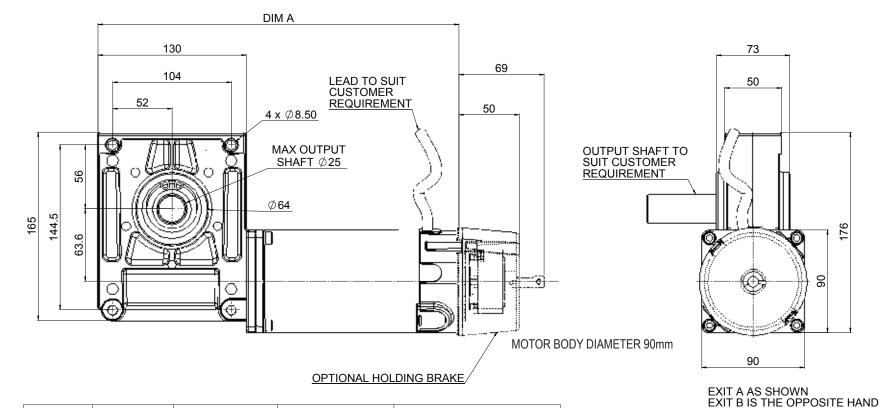
standard motor-gearbox configured and customised for your application











Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM A				
		with Delrin	with bronze	Totally Enclosed	Ventilated			
PM90-150	3.0 kg	2.3 kg	3.4 kg	290	303			
PM90-180	4.0 kg	2.3 kg	3.4 kg	320	333			
RE90-146	4.0 kg	2.3 kg	3.4 kg	286	299			

EXIT B IS THE OPPOSITE HAND

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements

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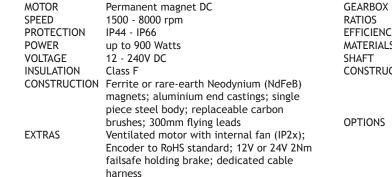
PARVALUX



# PM90-150 / PM90-180 / RE90-146 (rare earth) with GB12 gearbox

standard motor-gearbox configured and customised for your application





RBOX	Worm and wheel
IOS	12.5:1, 25:1, 30:1, 50:1, 60:1, 75:1
ICIENCY	up to 95%
ERIALS	Delrin or phosphor bronze
.FT	single or double up to 25mm diameter
STRUCTION	Steel worm shaft; CNC machined aluminium
	housing; sealed for life - maintenance free;
	cushioned 1-piece coupling; steel output
	shaft with 2 ball-bearings
TONS	Stainless steel shaft; black finish; de-clutch





ISO 9001:2000 Certificate No. FM548688

Notes: Designed to operate with PWM controllers.

Graphs are available showing the motor performance throughout the speed range.

The GB12 gearbox may be coupled with many of our other standard AC or DC motors.

For customers who require in excess of 5000 units per year we offer a totally bespoke design service to fit the application; at zero cost premium. This service enables customers to outline any number of mechanical, electrical, environmental or even aesthetic requirements in order to realise their preferred motor-gearbox solution.

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		PM90-1	50GB12			PM90-1	80GB12	!		RE90-1	46GB12			Gearbox	GB12	
	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Power	Speed	Torqu	e (Nm)	Ratio	Efficiencv <sup>†</sup>		entary ad (Nm)
	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze	(W)	(rpm)	Delrin	Bronze		,	Delrin	Bronze
	210	516	3.7	3.6	260	560	4.2	4.1	230	544	3.8	3.7	12.5	95%	68	79
ly)	220	438	4.6	4.5	260	424	5.6	5.4	230	410	5.1	5	12.5	95%	68	79
1 duty supply)	230	303	6.8	6.6	270	334	7.3	7.1	235	300	7	6.8	12.5	<b>95</b> %	68	79
is S1 24V si	220	219	8.8	8.5	260	212	10.6	10.3	230	205	9.7	9.4	25	90%	73	82
Continuous S (assuming 24V	230	100	*19.3	18.8	270	93	24.1	*23.5	235	103	*18.9	18.4	30	84%	56	76
ontir sumi	230	50	*35.1	*34.2	270	47	*43.7	*42.6	235	52	*34.4	*33.5	60	78%	72	81
(as:	220	30	*50.2	*49.0	260	33	*56.1	*54.7	235	32	*53.8	*52.5	60	76%	57	76
	220	20	*63.0	*61.4	260	22	*80.3	*78.3	235	21	*75.6	*73.7	75	74%	40	45
20	335	500	6.1	5.9	375	544	6.3	6.1	345	520	6	5.9	12.5	95%	68	79
30% oly)	335	420	7.2	7	375	408	8.3	8.1	345	398	7.8	7.6	12.5	95%	68	79
:y S3 30% supply)	345	288	10.7	10.5	385	316	10.9	10.6	350	288	10.5	10.2	12.5	95%	68	79
dut 24V	335	210	13.7	13.3	375	204	*15.8	*15.4	345	199	*14.9	14.5	25	90%	73	82
itermittent dut (assuming 24V	345	103	*27.7	*27.0	385	90	*35.7	*34.9	350	100	*29.0	*28.2	30	84%	56	76
mitt sum	345	52	*50.2	*49.0	385	45	*64.9	*63.3	350	50	*52.6	*51.3	60	78%	72	81
Intermittent duty 53 (assuming 24V supp	335	33	*72.9	*71.1	375	32	*85.2	*83.1	350	30	*84.8	*82.7	60	76%	57	76
-	325	20	*108.6	*106.0	375	19	*129.1	*112.0	350	21	*116.5	*113.6	75	74%	40	45

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# drawing for PM90-150 / PM90-180 / RE90-146 (rare earth) with GB12 gearbox

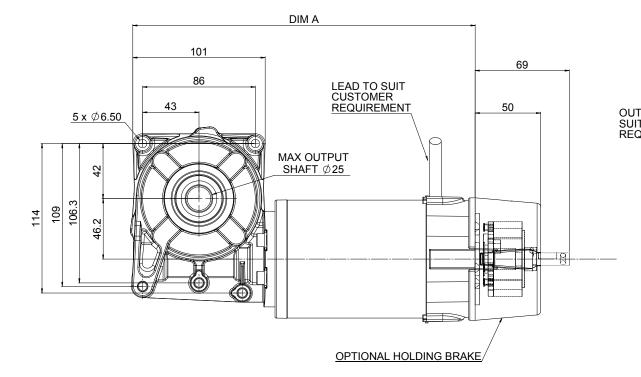
standard motor-gearbox configured and customised for your application

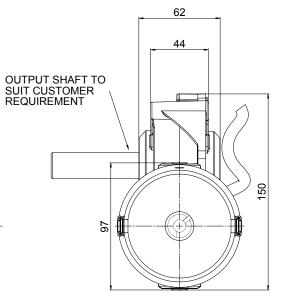












EXIT A AS SHOWN EXIT B IS THE OPPOSITE SIDE

Motor Type	Motor Weight	Gearbox Weight	Gearbox Weight	DIM A				
		with Delrin	with bronze	Totally Enclosed	Ventilated			
PM90-150	3.0 kg	1.1 kg	1.5 kg	263	277			
PM90-180	4.0 kg	1.1 kg	1.5 kg	293	306			
RE90-146	4.0 kg	1.1 kg	1.5 kg	259	274			

All dimensions are in mm Many of our drawings are available in 3D format. Please contact us with your requirements

