

INDUSTRIAL ELECTRIC MOTORS & DRIVES SOLUTIONS



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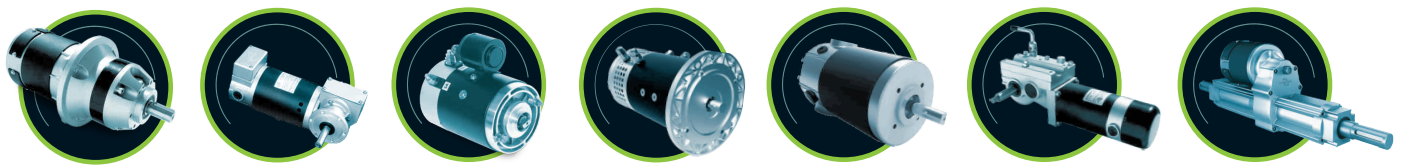
**D.C.
MOTORS
CATALOGUE 2021**



Rotomag and its group companies, comprising of 4 brands have been manufacturing high performance D.C. and A.G. motors as well as gearboxes and electric drive systems for over 20 years.

We have built our design and manufacturing expertise by working closely with demanding global customers and through the knowledge transfer from our European joint venture partners. Our processes and quality are continuously upgraded along with the expansion of our manufacturing infrastructure.

In addition to our range of over 500 types of permanent magnet DC and wound field DC motors, we offer geared motors, transaxles, wheel drives for a wide range of industries and applications.



CORE TECHNOLOGIES

Rotomag has expertise, jointly with our group companies, in diverse motor technologies. We can custom design permanent magnet DC motors, series and shunt wound DC motors, brushless DC motors and controllers for such motors. These motors in tandem with worm, helical and planetary gear heads enable us to offer a wide variety of electric drive systems.

BENCHMARKED PROCESSES

Our three plants, having a floor area of over 20,000 sq meters, have state-of-the-art processes and manufacturing facilities. Lean manufacturing with assurance of ISO 9001 certified quality systems ensures consistent quality, production flexibility and control of process variability. All key processes are validated using FMEA and process capability studies.

Processes like controlled magnetizing, trickle impregnation, Resiglas banding, laser mica undercutting, dual flyer winding, dynamic balancing enable us to build product reliability through our manufacturing processes.



INTERNATIONAL EXPOSURE

We export to over 30 countries and have an experience of working with customers who are leaders in their business. Prompt communications, visual reports, close interface between our development engineers and those of our customers make it easy for our customers to do business with us.

PRODUCTS AND APPLICATIONS

Our wide range of permanent magnet DC motors, wound field DC motors, brushless DC motors and electronic controllers have been designed to operate most efficiently and reliably for variety of applications. We continuously improve our products through sustained endurance and type testing, often jointly with our customers.



QUALITY SYSTEMS AND IT ENABLED MANUFACTURING

We are an ISO 9001 company and extensively use IT tools like bar coding, laser marking, ERP, CRM and Sharepoint services to ensure that our operations are consistent and efficient.



ROTO MAG ADVANTAGES

Product Development Skills

Our core strength lies in application engineering and translating the application data into PMDC motors, series, separately excited and geared motors.

Multiple Technologies & Applications

Our exposure to various technologies, including those of our group companies covering a wide spectrum of applications enable us to design and build customised solutions very quickly and meet the performance and quality expectations of our discerning customers.

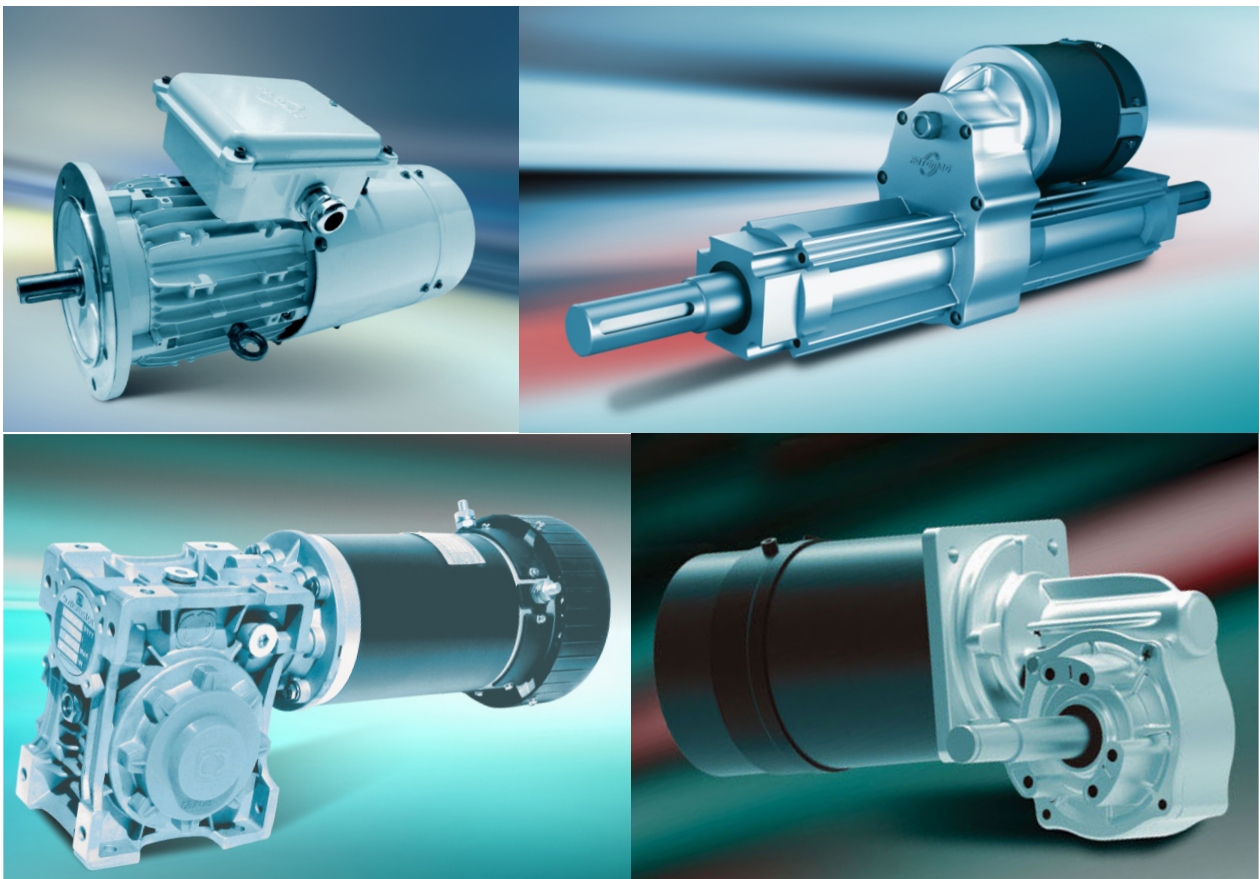
World Class Supply Chain

Our suppliers are some of the best in India and in the world. Long term agreements with our dedicated suppliers enables us to meet the cost and quality goals of our customers.

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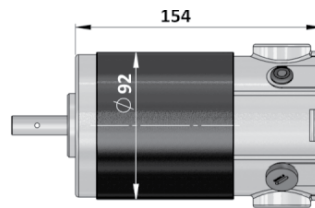


SWITCHGEAR/DISCONNECTOR MOTORS

These customized motors are specially built with very compact dimensions for intermittent operation. Very high starting torque and very good regulation make these motors superior to universal motors.



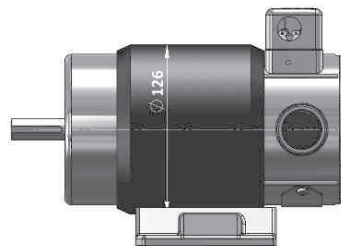
AB SERIES



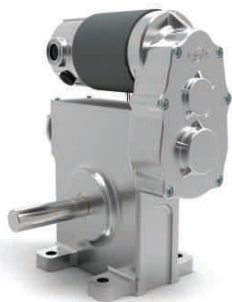
Power (KW)	Voltage	Speed (RPM)
Up to 0.75	90V- 110V- 220V	Up to 4000



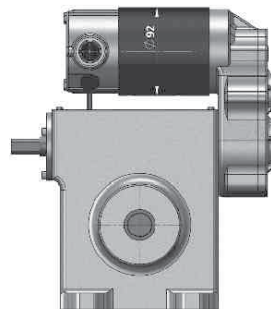
M SERIES



Power (KW)	Voltage	Speed (RPM)
Upto 1	90V-110V-220V	Up to 4500



SS SERIES



Power (KW)	Voltage	Speed (RPM)
0.18 & 0.37	90V-110V- 220V	2.6

ADVANTAGES

- Very high starting torque
- Operation 'til 60% voltage
- High regulation
- Brushes last lifetime

OPTIONS

Rectifier



Special Connectors



Worm Gearbox



Inline Helical Gearbox



Planetary Gearbox



Special Shaft





HOIST AND WINCH MOTORS

Motors for marine winches and hoists are made for S2 intermittent duty and special features to withstand very high starting current. Bodies are powder coated to withstand the corrosive effects of the humid marine environment.

ADVANTAGES

- Rugged brush holders
- High conductivity brushes
- Very high starting current
- Brazed winding joints
- Powder coated externally

PLANETARY GEARED MOTOR



AB/HK SERIES

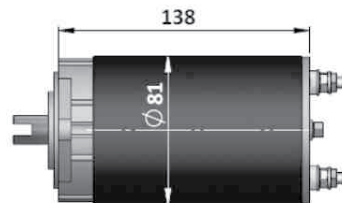
Ratio: 3, 4, 9, 16, 27, 64
Foot, Face, Flange Options
Available in TENV-TEFC-SPDP

Power (KW)	Voltage	D	Speed (RPM)
0.08 to 0.18	12V-24V-	89	20 to 200
0.15 to 0.75	36V-48V	114	



G SERIES

PM Motor Protection: IP-44
S2-S3 Duty cycle



Power (KW)	Voltage	Speed (RPM)
0.15 to 0.8	12V-24V	1500 to 4500



HP-BT SERIES

Series /Compound wound Motor
Protection: IP-44, IP-20
S2-S3 Duty cycle

Power (KW)	Voltage	D	Speed (RPM)
0.08 to 2.2	12V-24V	114	1500 to 4500
1 to 3		125	

OPTIONS

Brake



Inline Helical Gearbox



Worm Gearbox



Blackodized Components



Canopy



Special Mounting





Rotomag offers a range of brush motors, drive motors and transaxles for floor care equipment. These motors have several unique features that result in compact, efficient solutions and are available with worm and helical gear heads as well as ungeared versions. The transaxles have oversized bearings and precisely ground helical gears and lapped bevel gears.

ADVANTAGES

- Ribbed aluminium housings for improved reliability
- Anti-corrosion powder coated body
- Helical gears ground to Din class 7
- Permanently lubricated bearings
- Low noise
- Easy replacement, long life brushes

MOTORS FOR FLOOR CARE

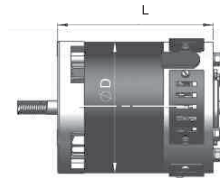
BRUSH MOTORS - UNGEARED



AB/HK SERIES

Available in TENV-TEFC-SPDP
 Protections Option:
 IP-20, IP-44, IP-54

**Diameter & length mentioned suitable for 1500RPM Speed range: 1000 RPM to 3500 RPM*



Power(KW)	Voltage	D	*L
0.08	12V-24V-36V-48V	89	143
0.12		89	161
0.18		114	200
0.37		114	220
0.56		114	260
0.75		114	300

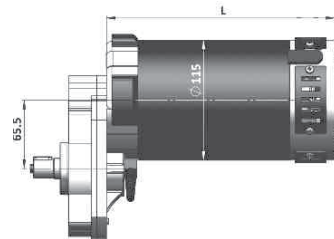
BRUSH MOTORS - GEARED



RM SERIES

Ratio: 1:10
 Available in TENV-TEFC-SPDP
 Protections Option: IP-20, IP-44

** Length mentioned is suitable for 150RPM Speed range: 100 RPM to 300 RPM*



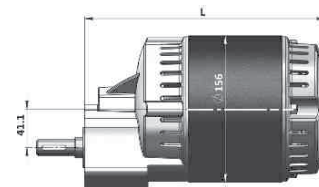
Power(KW)	Voltage	*L
0.18	12V-24V-36V-48V	205
0.37		225
0.56		245
0.75		265



TNT SERIES

Ratio: 1:5.2
 Type-SPDP
 Protection: IP-20

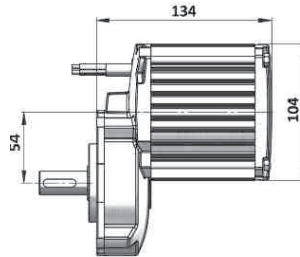
**Length mentioned is suitable for 200RPM Speed range :200 RPM to 600 RPM*



Power(KW)	Voltage	*L
0.56	24V-36V-48V	256
0.75		256
1.1		278

MOTORS FOR FLOOR CARE

BRUSHLESS D C MOTORS

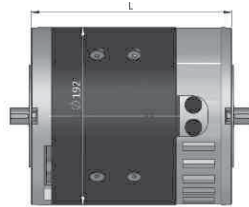


BD SERIES

Speed :180 RPM

Power (KW)	Voltage	D	Speed (RPM)
0.53	24V	104	180

DRIVE AND TRANSAXEL MOTORS

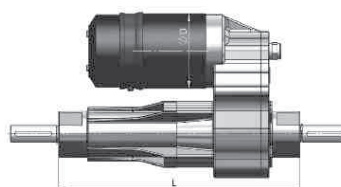
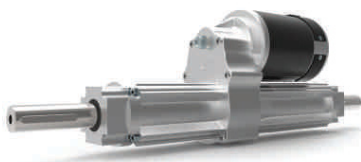


HWA SERIES

Available in TENV-TEFC-SPDP
 Protections Option: IP-20, IP-44, IP-54

*Shown length consider for 1800 RPM
 Speed range: 1000 RPM to 3500 RPM
 Shunt wound motor

Power (KW)	Voltage	L
0.75	36V-48V	216
1.5		323
2.2		430



JTA SERIES

Ratio: 1:18.85

Available in TENV-SPDP
 Protections Option: IP-20, IP-44, IP-54
 Speed range: 65 RPM to 160 RPM

Power (KW)	Voltage	L
0.1 to 0.45	12V-24V-36V	185 to 395



OPTIONS

Brake



Ferrite Core



Special Connectors



Terminal Bolt



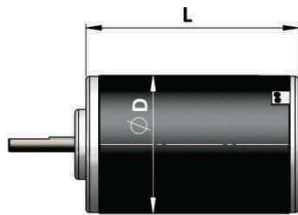
Special Shaft





INDUSTRIAL AND DC AUTOMATION MOTORS

Rotomag's Permanent Magnet D.C. Motors for use in automation are specially designed for continuous operation and frequent start-stops and reversals. TEFC/TENV construction with P-44/ IP-55 protection make them suitable for use in ambients 'til 45°C.

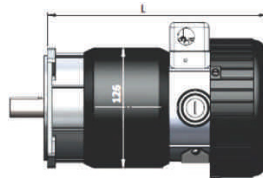
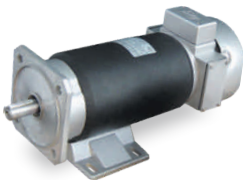


R-CT SERIES

Available in TENV-TEFC-SPDP
 Protections Option: IP-20, IP-44
 S1, S2, S3 Duty cycle

*Length mentioned suitable for 1500RPM
 Speed range: 1000 RPM to 3500 RPM

Power (KW)	Voltage	D	*L
15	12V-24V	63	88
30		63	122
50		63	152
40		75	121
60		75	151

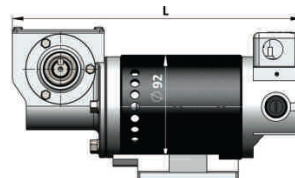


M SERIES

Available in TENV-TEFC-SPDP
 Protections Option: IP-20, IP-44
 S1, S2, S3 Duty cycle IEC
 Frame Mounting

*Length mentioned suitable for 1500RPM S 1- TEFC motor Speed range: 1000 RPM to 3500 RPM

Power (KW)	Voltage	*L
0.18	12V-24V-36V-	245
0.37	48V-90V-110V-	265
0.75	180V-220V	345



S1NR-S2NR

Ratio: 16, 32, 55
 Available in TENV-SPDP
 Protections Option: IP-20, IP-44
 S1, S2, S3 Duty cycle
 Speed range: 60 RPM to 220 RPM

Power (KW)	Voltage	*L
0.075	12V-36V-	225
0.18	48V-90V-110V- 180V-220V	257

ADVANTAGES

- Use of high coercivity PATENTED magnets prevents demagnetization even in conditions which involve frequent start-stops
- Externally replaceable brushes
- Window for cleaning of commutator
- Precision balancing for low noise and vibration
- Higher quality SKF ball bearings

OPTIONS

Planetary Gearbox



Inline Helical Gearbox



Worm Gearbox



Worm-box type



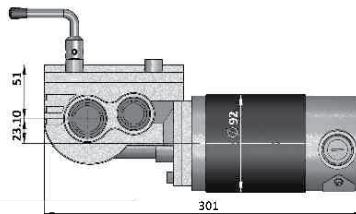
Brake





STAIRLIFT AND MOBILITY MOTORS

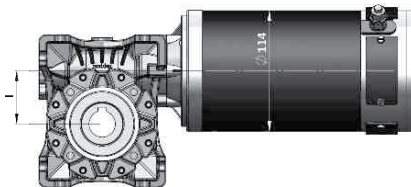
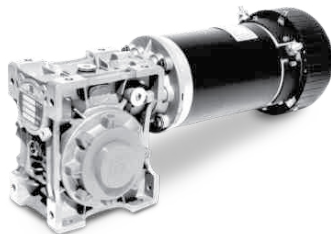
Motors for marine winches and hoists are made for S2 intermittent duty and special features to withstand very high starting current. Bodies are powder coated to withstand the corrosive effects of the humid marine environment.



WH SERIES

Ratio: 32
 Protections Option: IP-44, IP20

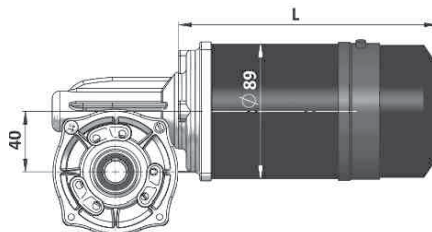
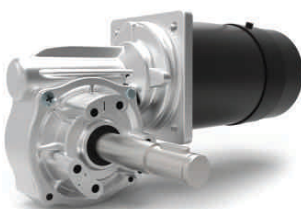
Power (KW)	Voltage	Speed (RPM)
0.28	24V	25



HK SERIES

Ratio: 7.5, 10, 15, 20, 25, 30, 40, 50, 60, 80, 100
 Protection: IP-44, IP-20

Power(KW)	Voltage	D	I	Speed(RPM)
0.18 to 0.75	12V-24V 36V-48V	114	40, 50, 63, 75	10 to 400



RMP SERIES

Ratio: 18
 Protections Option: IP-44, IP-20

Power (KW)	Voltage	*L
0.15	24V-36V-48V	154
0.26		172

ADVANTAGES

- Rugged brush holders
- High conductivity brushes
- Very high starting current
- Brazed winding joints
- Powder coated externally

OPTIONS

Planetary Gearbox



Inline Helical Gearbox



Worm Gearbox



Thermal Switch Protection



Special Shaft





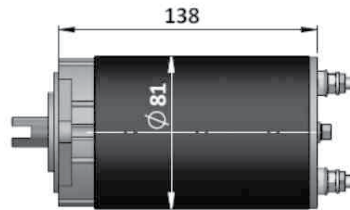
MOTORS FOR HYDRAULIC POWER PACKS

These motors are available in Series and Compound version and have superior build quality. Option of different shaft and without drive end shield is available. Use of rugged brush holders results in cooler operation of the motors.



G SERIES

PM Motor
Protection: IP-44
S2-S3 Duty cycle

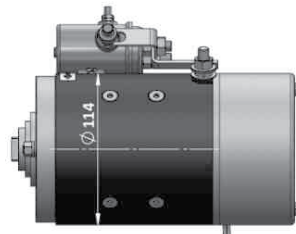


Power (KW)	Voltage	Speed (RPM)
0.15 to 0.8	12V-24V	1500 to 4500



HP SERIES

Type: Compound, Series, Shunt
Protection: IP-44, IP20
S2-S3 Duty Cycle

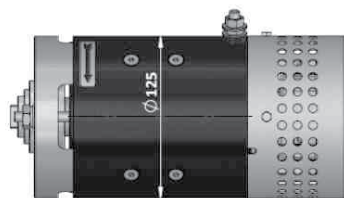


Power (KW)	Voltage	Speed (RPM)
0.6 to 2.2	12V-24V	1500 to 4500



BT SERIES

Type: Compound, Series, Shunt
Protection: IP-44, IP20
S2-S3 Duty Cycle



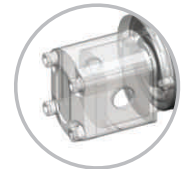
Power (KW)	Voltage	Speed (RPM)
1.5 to 4	12V-24V	1500 to 4500

ADVANTAGES

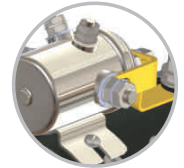
- High starting torque
- Silent and smooth operation
- Longer brush life
- Powder coated shells-resistant to corrosion

OPTIONS

Pump Mountings



Starting Switch



Brake



Thermal Switch Protection



Special Shaft



Special Mountings





MOTORS FOR MATERIAL HANDLING

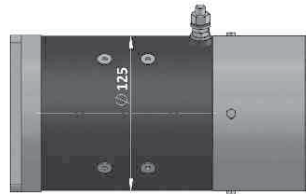
Traction motors are designed for continuous operation and also momentary over-loads and have high starting torque. Oversized brushes result in high brush life and the brushes are easy to replace. Terminals are of extruded brass or copper.



BT SERIES

Type: Compound, Series, Shunt
Protection: IP-44, IP20
S2-S3 Duty Cycle

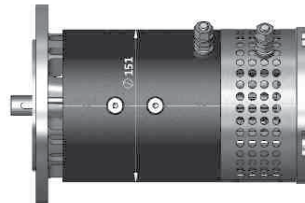
Power (KW)	Voltage	Speed (RPM)
1.5 to 4	12V-24V	1500 to 4500



FT SERIES

Type: Compound, Series, Shunt
Protection: IP-44, IP20
S2-S3 Duty Cycle

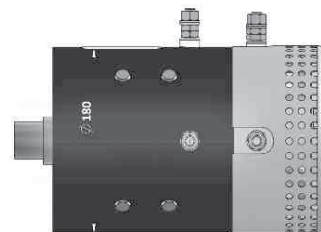
Power (KW)	Voltage	Speed (RPM)
1.5 to 4.5	12V-24V-36V-48V	1500 to 4500



HW SERIES

Type: Compound, Series, Shunt
Protection: IP-44, IP20
S2-S3 Duty Cycle

Power (KW)	Voltage	Speed (RPM)	D
1.5 to 8	12V-24V-36V-48V	1500 to 4500	180
3 to 13			192

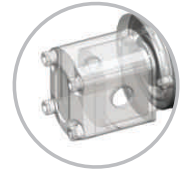


ADVANTAGES

- Smooth and silent operation
- Long life brushes
- Easy brush replacement
- SKF ball bearings

OPTIONS

Pump Mountings



Starting Switch



Brake



Thermal Switch Protection



Special Shaft



Special Mountings





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