Parvalux designs and manufactures a huge range of AC and DC motors, both brushed and brushless, as well as a wide range of matching gearboxes that are suitable for a broad range of applications in the Healthcare, Industrial, and Leisure sectors.

As well as a huge range of standard products we also offer semi-custom and fully bespoke design options to ensure you have a geared motor solution that exactly meets the needs of your application.

This brochure displays our products across our DC, AC, and Brushless ranges, presented in ascending maximum torque order. Such is the wide variety in performance capabilities when combining a Parvalux motor and gearbox, the ranges shown below each product for speed and power are the complete ranges for the gearbox in question when paired with any motor in the Parvalux range. Along with this, there are icons displaying the most common applications that the product is used on, giving you a point of reference for your own application.
Parvalux’s geared motor solutions are found in a huge range of applications from the safety critical, such as those in healthcare like wheelchairs and patient hoists, to powering the windscreen wipers on the world’s largest ships and fastest trains. They are also used extensively in the leisure industry in everything from golf trolleys and carts, to caravan movers and clay pigeon traps.

Over the last 70 years we’ve built up a huge wealth of knowledge of different applications and their specific needs so the customer can trust us to help design the perfect motor and gear solution for their end product. Whilst we have thousands of standard combinations of motors and gearboxes which enable rapid prototyping, we can also offer very rapid turnaround on customisation if needed, and can even produce fully bespoke designs and incorporate additional parts of the customer’s drive train.

Parvalux can offer you an easy, quality-assured solution, whatever your requirements:

**Production Flexibility**
Low or high volume flexibility with no minimum order quantities.

**Technical & Engineering Expertise**
Our wealth of experience and the latest technology means we can meet and support all your solution’s needs.

**Product Modification**
We can customise and configure your product solution to your preferences

**Design Capability**
Totally Bespoke Product Design. We can design our products around your application.

---

**Trusted in Healthcare**
With the market set to grow significantly in the future we are investing heavily in designing new geared solutions to meet the specific needs of each application. Our application and design engineers are well versed in the specific demands of each application - such as high torque, low noise and high efficiency for wheelchairs - and can work as an extension of your own design team to ensure you get the perfect solution to power your product.

---

**Trusted at Work**
Parvalux motors are trusted every day to help people in their work, whether its windscreen wipers on a high speed train or a conveyor belt in a factory, you can trust us to safely power your product. We know how important service and support are too, so we have a dedicated service centre, centrally located in Birmingham. The team here can supply spares, as well as service, and repair products as required.

---

**Trusted at Leisure**
Parvalux has extensive experience in powering leisure applications such as Caravan Movers, Golf Buggies and Trolleys, Amusement machines, Clay Pigeon Traps, and even Candy Floss Machines. Whilst we have a huge range of standard products, we pride ourselves on being able to design semi-custom and full bespoke solutions, offering customisation on shafts, windings, and armatures, to fully meet the requirements of your application.
ABOUT US

DESIGN PROCESS

Our core focus is to work as an extension to our customer’s design capability from the outset. This means developing geared motor concepts for applications that meet exact technical and commercial specifications. We contribute at every design level, from initial design sketches and 3D-concept models, through to rapid prototypes for ‘proof of concept’. Our geared motor solutions utilize metals and/or composite technologies to obtain the right level of performance and cost.

We use a 5-stage gateway process that encompasses initial design specification/concept, prototype, sample, pre-production and final production. We work within a multi-disciplinary team blending NPI design methodologies with advanced quality planning, production engineering, and end-to-end project management.

In tandem with extensive life tests, we rigorously analyse prototypes using ‘design failure mode effects analysis’ (DFMEA) to ensure that the final production version is right first time.

QUALITY ASSURANCE

Parvalux Electric Motors Ltd. Quality Management Scope

Parvalux Electric Motors Ltd design, manufacture, configure, market and distribute a range of fractional horsepower AC and DC drive systems, including electrical motors and gearboxes, for the medical/mobility, leisure and industrial markets. The Quality Management System fully complies with the requirements of ISO9001:201.

Parvalux Electric Motors Limited Compliance & Conformity

As the leading UK manufacturer of fraction horsepower electric motors and gearboxes, Parvalux maintains compliance to the following key standards and requirements;

- EN ISO 9001:2008 - Quality Management System
- EN ISO 17050-1:2004 - EC Declaration of Conformity
- 2006/95/EC - Low Voltage Directive
- 2011/65/EU - RoHS Directive

PARVALUX + SOURCING SERVICE

Unable to find what you’re looking for in the Parvalux Product Range? Just get in touch to discuss the requirements of your motor-gearbox solution.

If one of our motors can’t meet the requirements of your application the Parvalux Plus service will source a solution for you.

EMAIL
sales@parvalux.com

CALL
+44(0)1202 512575

ICON KEY APPLICATIONS

Shown below are some of the most common applications that Parvalux motors are used in. If your application is not listed, please get in touch to discuss your requirements.

- Powered Wheelchairs
- Stairlifts
- Patient Hoists
- Vehicle Accessibility
- Centrifuge
- Vertical Platform Lifts
- Caravan Movers
- Clay Pigeon Traps
- Golf Trolleys
- Kitchen Appliances
- Pop Up Targets
- Amusement Machines
- Wiper Systems
- Honey Extractors
- Industrial Automation
- Pump Systems
- Kebab Machines
- Rotisserie Machines
DC Permanent Magnet Brushed Motors
Torque: 0.1 - 4.9 Nm | Speed: 1000 - 5000 RPM | Power: Up to 2030 W | Voltage: 12 - 240V
products shown in ascending torque order
DC Permanent Magnet Brushed Geared Motors

Torque: 0.1 - 150 Nm | Speed: 0.2 - 1390 RPM | Voltage: 12 - 240 V

The PMXX notations shown in these panels represent the complete range of DC Permanent Magnet Brushed Motors available from Parvalux. The details shown around each product provide a performance range, along with the common applications, for the gearbox pictured when combined with a suitably rated Parvalux DC Permanent Magnet Brushed Motor.

<table>
<thead>
<tr>
<th>PMXX</th>
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<td>15.0 Nm</td>
<td>S3P</td>
<td>15.0 Nm</td>
<td>MBM</td>
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<td>SIW</td>
<td>11.3 Nm</td>
<td>S</td>
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<td>MB</td>
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<td>M3P</td>
<td>30.0 Nm</td>
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<td>Speed: 14 - 970 RPM</td>
<td>Speed: 0.2 - 312 RPM</td>
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<td>Speed: 1 - 101 RPM</td>
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</table>

The products shown in ascending torque order.
DC Permanent Magnet Brushed Geared Motors

Torque: 0.1 - 150 Nm | Speed: 0.2 - 1390 RPM | Voltage: 12 - 240 V

Products shown in ascending torque order

- **PMXX GB4**
  - Torque: 40.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX GB41**
  - Torque: 40.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX L**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX VIPER3**
  - Torque: 60.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX LWS**
  - Torque: 100.0 Nm
  - Speed: 0.4 - 960 RPM

- **PMXX LIS**
  - Torque: 100.0 Nm
  - Speed: 3 - 667 RPM

- **PMXX LB**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX LH**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX LHB**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX GB36**
  - Torque: 100.0 Nm
  - Speed: 0.4 - 150 RPM

- **PMXX GB9**
  - Torque: 100.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX GB14**
  - Torque: 150.0 Nm
  - Speed: 8 - 200 RPM

- **PMXX MWS**
  - Torque: 45.0 Nm
  - Speed: 0.4 - 150 RPM

- **PMXX LIW**
  - Torque: 45.0 Nm
  - Speed: 0.8 - 108 RPM

- **PMXX GB12**
  - Torque: 50.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX GB4**
  - Torque: 40.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX GB41**
  - Torque: 40.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX L**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX VIPER3**
  - Torque: 60.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX LWS**
  - Torque: 100.0 Nm
  - Speed: 0.4 - 960 RPM

- **PMXX LIS**
  - Torque: 100.0 Nm
  - Speed: 3 - 667 RPM

- **PMXX LB**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX LH**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX LHB**
  - Torque: 40.0 Nm
  - Speed: 25 - 780 RPM

- **PMXX GB36**
  - Torque: 100.0 Nm
  - Speed: 0.4 - 150 RPM

- **PMXX GB9**
  - Torque: 100.0 Nm
  - Speed: 13 - 400 RPM

- **PMXX GB14**
  - Torque: 150.0 Nm
  - Speed: 8 - 200 RPM

**GET IN TOUCH**

The Parvalux Sales Team can assist in selecting the perfect geared motor for your application

CALL
+44(0)1202 512575

EMAIL
SALES@PARVALUX.COM
VIPER3
the ultimate in wiper motor technology

BREAKAWAY TORQUE 110.0 Nm
SPEED 21 - 45 RPM

DC Brushless Motors
Torque: 0.1 - 6.6 Nm | Speed: 2530 - 4000 RPM | Power: Up to 1750 W | Voltage: 12 - 48 V

**PBL42**
**TORQUE 0.1 Nm**
Power: Up to 52 W
**PBL60**
**TORQUE 1.0 Nm**
Power: Up to 315 W
**PBL86**
**TORQUE 2.5 Nm**
Power: Up to 785 W

**PBL110**
**TORQUE 6.6 Nm**
Power: Up to 1750 W
**BLD 300**
**CONTROLLER**
Power Rating: Up to 350W
Suitable Motor Speed: 0 - 4000 RPM
**BLD 750**
**CONTROLLER**
Power Rating: Up to 750W
Suitable Motor Speed: 0 - 4000 RPM

Designed and built to withstand a variety of different environments, the new VIPER3 from Parvalux is the perfect geared motor solution for use in your large wiper system application. Trusted to work reliably in the harshest conditions, the VIPER3 can comfortably operate when faced with dust, liquid, high & low temperatures, and wide variances in humidity, allowing it to integrate seamlessly into vehicles across the rail, marine, haulage, and transport sectors.

Equipped with multiple mounting options, the space conscious design of the VIPER3 allows for it to be easily mounted into your application. This, combined with internal wiring and an enclosed commutation brush design, makes this self-contained, IP54 rated, geared motor the ideal solution for use in your large wiper system.

---

**VIPER3**
the ultimate in wiper motor technology

**BREAKAWAY TORQUE 110.0 Nm**
**SPEED 21 - 45 RPM**

3D CAD MODELS
AVAILABLE AT WWW.PARVALUX.COM

Simply visit your chosen product’s page on the site and fill out the 3D CAD request form. This will then be sent to one of the Parvalux team who will provide you with a download link for your chosen motor.
DC Brushless Geared Motors
Torque: 0.1 - 150 Nm | Speed: 0.2 - 1390 RPM | Voltage: 12 - 48 V

The PBLXX notations shown in these panels represent the complete range of DC Permanent Magnet Brushless Motors available from Parvalux. The details shown around each product provide a performance range, along with the common applications, for the gearbox pictured when combined with a suitably rated Parvalux Brushless DC Motor.

The products shown in ascending torque order.
DC Brushless Geared Motors
Torque: 0.1 - 150 Nm | Speed: 0.2 - 1390 RPM | Voltage: 12 - 48 V

products shown in ascending torque order

GET IN TOUCH
The Parvalux Sales Team can assist in selecting the perfect geared motor for your application

CALL
+44(0)1202 512575

EMAIL
SALES@PARVALUX.COM
AC Induction & Brushed Series Motors
Torque: 0.1 - 0.9 Nm | Speed: 900 - 6500 RPM | Power: 3.7 - 250 W | Voltage: 110 - 240 V

products shown in ascending torque order

SD1  TORQUE 0.1 Nm
Power: 38 - 75 W

SD21  TORQUE 0.1 Nm
Power: 3.7 - 20 W

SD41  TORQUE 0.1 Nm
Power: 10 - 25 W

SD13  TORQUE 0.6 Nm
Power: 38 - 190 W

SD18  TORQUE 0.6 Nm
Power: 38 - 190 W

SD48  TORQUE 0.9 Nm
Power: 125 - 250 W

SD8  TORQUE 0.2 Nm
Power: 10 - 60 W

SD11  TORQUE 0.2 Nm
Power: 95 - 150 W

SD38  TORQUE 0.2 Nm
Power: 10 - 60 W

SD12  TORQUE 0.3 Nm
Power: 125 - 190 W

SD28  TORQUE 0.4 Nm
Power: 55 - 120 W

SD29  TORQUE 0.4 Nm
Power: 55 - 120 W

SINGLE OR THREE PHASE
Get in touch with our sales team to discuss your motor requirements

CALL
+44(0)1202 512575
EMAIL
SALES@PARVALUX.COM

3D CAD MODELS
AVAILABLE AT WWW.PARVALUX.COM
Simply visit your chosen product’s page on the site and fill out the 3D CAD request form. This will then be sent to one of the Parvalux team who will provide you with a download link for your chosen motor.
AC Induction & Brushed Series Geared Motors
Torque: 4.5 - 100Nm | Speed: 0.2 - 1500 RPM | Voltage: 110 - 240 V

The SDXX notations shown in these panels represent the complete range of AC Induction & Brushed Series Motors available from Parvalux. The details shown around each product provide a performance range, along with the common applications, for the gearbox pictured when combined with a suitably rated Parvalux AC Induction or Brushed Series Motor.
AC Induction & Brushed Series Geared Motors
Torque: 4.5 - 100Nm | Speed: 0.2 - 1576 RPM | Voltage: 110 - 240 V

CHOOSING YOUR MOTOR
The sections below give a brief overview of the different aspects of motor design that define your product. Identifying these from the outset will allow you to get the perfect geared motor solution for your application.

Input Power Source
Voltage
AC or DC voltage? What voltage do you need your motor to run at?

Frequency
50Hz? 60Hz? Both?

Current
Does the current draw need to be under a certain value?

Control
Variable Speeds? What type of control will you need?

Gear-Motor Performance
Power (W/HP)
Watt/Horsepower requirements? Amperage limitations if using a control?

Speed (RPM)
High or low speed? Fixed or varying?

Torque (Nm/Lb-In)
High start or stall torque? Running torque requirements?

Duty Cycle
Operating continuously or in short bursts with time to cool down in between?

Environment
Ingress Protection (IP)
Will your motor need protection against the elements? Dust, Water, etc.?

Temperature
Ambient temperature of the applications environment? Do you need to touch the motor?

General Requirements
Mounting Orientation
How does the motor need to be mounted to the application?

Overhung and Side Loads
Does the application have additional loads (radial or axial) putting stress on the motor?

Package Size
Is there a size restriction within your application?

Lubrication
Grease or oil required? High or low temperature lubrication?

Agency Approvals
Any approvals that your application must meet? UL, CE, RoHS, CSA, etc.?

The Parvalux Sales Team can assist in finding you the perfect geared motor solution for your application...

CALL
01202 512 575

EMAIL
SALES@PARVALUX.COM
CUSTOMISATION OPTIONS
MODIFICATIONS &
FULLY BESPOKE DESIGN

Whilst the motors and gearboxes featured in this catalogue are part of the Standard Parvalux Range, we are also able to offer a vast array of additional options and modifications; including:

- Multiple shaft options
- Length
- Electro-mechanical brakes
- Enhanced IP protection
- Keys
- Gear material
- EMC suppression
- Drives/speed controllers
- Encoders
- Tacho-generators
- Thermal overload protection

For higher volumes we are also able to offer complete customisation and fully bespoke solutions, whatever your requirements.

Shaft
We offer a range of single or double ended shafts for our complete motor and gearbox range. In addition to the standard shafts shown in the catalogue, we can produce special keyways, flats, drilled holes, threads, and special fittings to specific requirements. Shaft material as standard is high quality carbon steel; alternative materials can be requested, including marine grade stainless steel.

Output Flange
We provide a comprehensive range of motor flanges to meet IEC, NEMA and common “Euro-standard” dimensions, as well as Parvalux standard.

All motor and gearbox flanges can be customised to include extra blank/tapped holes or specially machined details.

Encoder
We provide a standard range of HEDS compatible dual channel encoders offering 200 - 1250 CPR output (500 CPR as standard) with index pulse. These high-performance encoders are mounted to the rear of the motor; however, we are also able to provide custom-specific mounting on the gearbox output shaft. If an alternative style of encoder is required, we are happy to source an alternative or provide a custom-specific solution.

Fully Bespoke Solutions
As well as providing a large range of design options based on customising existing designs, we are able to provide bespoke solutions (out-and-out specials) for medium - high volume applications. In such cases our in-house design team are able to model new designs to allow rapid prototyping and test. With a strong design element as well as modern manufacturing and low cost supply chain, we are often able to provide cost-effective solutions quickly.

Cable
Apart from our standard length of cable, alternative lengths can be specified according to your needs which can be assembled in a cable loom as required. Further options include 3 core cables, cable screening, and a huge range of connectors or crimps.

Brake
We provide a standard range of high-quality spring applied brakes to provide either static-holding or dynamic braking. Our standard ranges from 0.4 Nm - 2.0 Nm operating on a low voltage DC supply or a single phase AC supply. Alternative brakes are available on request.

Tachogenerator
Our standard brushless tachogenerator is a 24 pole design providing 200Hz/krpm output. Mounted to the rear of the motor, the device offers simple and cost-effective feedback. Alternative tachogenerators are available on request.

Paint Finish
Standard paint finish is Parvalux blue applied to induction, series wound and DC geared motors. Planetary geared motors are powder coated blue and DC brushless motors are painted black. Alternative paint colours are available on request.
PARVALUX BIRMINGHAM SERVICE CENTRE

Based in a central UK location, the Parvalux Service Centre is a dedicated business focussed on delivering a highly responsive service for low volume customer sales. Additional services include a comprehensive range of options for after sales care to all customers purchasing Parvalux products.

Fast Delivery Times

With an extensive stock holding, our dedicated service team is able to select, configure, and dispatch products with fast delivery times.

With a strong service ethos, our team are experienced in converting an urgent requirement into the correctly configured product, quickly and efficiently. Conveniently located in the centre of the UK, deliveries can be arranged for next day, timed if required. Same day dispatch for urgent requirements are possible, please enquire with our service team.

Warranty

Before returning items please call a member of our sales team to obtain an RMA number.

Any unit proving faulty that is currently out of warranty must be returned to PSC complete, with carriage paid, for examination to be repaired or replaced at our discretion. PSC Address: Unit 4, 26 Avenue Road, Birmingham, B6 4DY, UK.

All returns in warranty must be clearly marked with their RMA number and sent to: Returns department, Parvalux, 490 Wallisdown Road, Bournemouth BH11 8PU, UK.

Extensive Stock

With over £300,000 stock holding, the service centre is able to provide fast response turnaround for both urgent requirements and small volumes.

The service centre holds extensive stock covering all key parts and components for the Parvalux product range. Because of this, the service team can configure a wide range of solutions quickly and efficiently. Complete geared motors are available in small volume, as well as replacement parts and accessories.

Rapid Service

With a dedicated and experienced service-team, we provide a rapid response to enquiries as well as an out-of-hours service response.

Our service-team has extensive experience with the complete range of Parvalux products both current and older lines. Their culture is one of customer focus, customer service, and fast response.

With a fast track facility (out of hours) and same day/next day focus, our team can provide that essential service for urgent requirements.

Diagnostics & Repair

With extensive knowledge of current and past product lines, our technicians can repair and refurbish products back to factory standard.

With over sixty years manufacturing heritage and over 20 million geared motors shipped globally, our service team is equipped to deal with any enquiry. We often see products with over 30 years’ service history that can be overhauled and returned to trouble-free service.

Our technicians have all been factory-trained and have served with many years of Parvalux experience. For this reason, we provide a complete diagnostics and repair service for any Parvalux product produced. Using standard OE parts, all Parvalux products can be repaired back to factory-standard.

service@parvalux.com | +44(0)121 333 5964 | Unit 4, 26 Avenue Road, Birmingham, B6 4DY
EMC Guidelines

In order to meet the directive 2004/108/EC, an EMC filter is required in the power supply line to all motor types. The filter is selected according to voltage, speed, & current.

We strongly recommend that you contact one of our technical advisors to ensure correct selection.

The following table provides a summary of all recommended filters:

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CE Directive

Standards for Safe Operation

EN60331-1:2004 Rotating Electrical Machines. Rating & Performance
EN60334-5:2001 Rotating Electrical Machines. Degrees of protection provided by the integral design of rotating electrical machines (IP code)
EN60334-6:1991 Rotating Electrical Machines. Methods of Cooling (IC Code)
EN60334-8:2002 Rotating Electrical Machines. Terminal Markings & Direction of Rotation
EN60334-9:2005 Rotating Electrical Machines. Noise Limits
EN60334-11:2004 Rotating Electrical Machines. Thermal Protection
EN60334-12:2004 Rotating Electrical Machines. Starting Performance of Single-Speed. Three-Phase Cage Induction Motors
EN60204-1:2006 Electrical Equipment of Machines. General Requirements

Standards for Compliance with EMC Limit Values

EN61000-6-2:2006 Electromagnetic Compatibility (EMC). Generic Standards. Immunity for Industrial Environments
EN61000-6-4:2007 Electromagnetic Compatibility (EMC) Generic Standards. Emission Standard. For Industrial Environments

CE Marking

With the declaration of conformity and the CE mark on the product the manufacturer certifies that the product complies with the requirements of all relevant EC New Approach Directives.

CE Marking & the Responsibilities of the Customer

It is the responsibility of the customer or machine manufacturer who places an assembly or finished product using a Parvalux product on the market within the EC, to comply with the New Approach Directives relevant to that assembly or finished product.

Low Voltage Directive 73/23/EEC - 2006/95/EC

Parvalux chooses to adopt EN60204-1 for motors within the scope of the Low Voltage Directive, and also to comply with the safety aspects of this standard for motors with operating voltages below the scope of the LVD. Equipment with voltage ratings in the range 50-1000Vac and 75-1500Vdc is covered.


The Electromagnetic Compatibility (EMC) Directive exists to govern the radio frequency electromagnetic emissions from equipment such that in its intended use it does not disturb other equipment. The Directive also governs the immunity of electrical equipment containing electronic components to electromagnetic interference that may be produced by other electrical equipment. Parvalux products comply with the EMC Directive when installed in accordance with the manufacturer’s instructions.

Machinery Directive 98/37/EC

The Machinery Directive describes a machine as “an assembly of linked parts or components, at least one of which moves, with the appropriate actuators, control and power circuits, etc., joined together for a specific application…” Parvalux products as supplied do not have a specific application as they do not perform a complete mechanical function and must be installed by a competent person. As a result, compliance with the Machinery Directive is not required provided that a safety standard relevant to the type of equipment is adopted, for example the generic electrical safety standard EN60204-1.

GET IN TOUCH

The Parvalux Sales Team can assist in selecting the perfect geared motor for your application.

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