Mobility solutions
**Powered wheelchairs**

From lightweight paediatric to rugged off-road all-terrain chairs, our huge range of wheelchair drive solutions provides the smooth, safe power needed for almost any situation. Parvalux offers an extensive range of electric wheelchair solutions that provide accurate manoeuvrability and high efficiency, giving millions of people the freedom to live life on their own terms.

**Patient hoists**

Parvalux patient hoist motors are suitable for all types and weights of patients, from paediatric to bariatric (>250kg). Our extensive experience in selecting the right combination of torque, power and speed allows our motors to deliver the smooth and quiet operation that makes us the first-choice supplier for a wide range of patient hoist and winch manufacturers.

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**GB12**

1. Gear ratio: 1
   - 12.5 - 25
2. Continuous torque: Nm
   - Up to 20
3. Intermittent torque: Nm
   - Up to 32
4. Gearbox efficiency: %
   - Up to 85
5. Gear material: High efficiency composite

**GB28**

1. Gear ratio: 1
   - 15 - 60
2. Continuous torque: Nm
   - Up to 5
3. Intermittent torque: Nm
   - Up to 8
4. Gearbox efficiency: %
   - Up to 75
5. Gear material: Bronze

**PGS90**

1. Gear ratio: 1
   - 19
2. Continuous torque: Nm
   - Up to 100
3. Intermittent torque: Nm
   - Up to 150
4. Gearbox efficiency: %
   - Up to 81
5. Gear material: High efficiency composite

**GB12**

1. Gear ratio: 1
   - 12.5 - 75
2. Continuous torque: Nm
   - Up to 30
3. Intermittent torque: Nm
   - Up to 48
4. Gearbox efficiency: %
   - Up to 85
5. Gear material: Bronze / composite

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**Featured product PBL86-GB9**

- Drive pinion diameter: mm
  - 75
- Lifting speed: cm/s
  - 3.5
- Motor type: BLDC
- Motor peak efficiency: %
  - 82

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**Featured product PM11-GB28**

- Drive pinion diameter: mm
  - 75
- Lifting speed: cm/s
  - 3.5
- Motor type: PMDC
- Motor peak efficiency: %
  - 82
**Parvalux Product Range**

Parvalux designs and manufactures a wide range of DC (Direct Current) motors, which are available in ‘motor-only’ format or in a combination with our range of inline, right-angle and planetary gearboxes.

Our DC motor range includes a wide selection of BLDC brushless units and PMDC permanent magnet units.

**Gearboxes**

Parvalux British-made electric motor gearboxes are simply legendary; rugged, reliable and designed to suit a wide choice of applications, they are some of the finest small motor gearboxes in the world. Our range includes inline and right-angle output, with options for worm-wheel, spur and planetary gearboxes available, plus a wide range of customization options.

Available as either single or three phase units, Parvalux AC electric motors come in aluminum housings as both motor-only and geared units. Our AC motors are engineered and built in Britain and we export to over 80 countries.

Discover the entire range online

[www.parvalux.com](http://www.parvalux.com)
Stairlifts
Parvalux has been working with the leading stairlift manufacturers for many years. We understand the complex operational and safety demands that both manufacturers and their end customers require. Our geared stairlift motor combinations are suitable for all types of stairlift, straight or curved, and can provide motors for both the main drive and seat levelling requirements of your stairlift.

**Technical data**

<table>
<thead>
<tr>
<th>1 Drive pinion diameter</th>
<th>mm</th>
<th>120</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 Angle of stairs</td>
<td>°</td>
<td>50</td>
</tr>
<tr>
<td>3 Carriage speed</td>
<td>cm/s</td>
<td>11</td>
</tr>
<tr>
<td>4 Total carriage weight</td>
<td>Kg</td>
<td>227</td>
</tr>
<tr>
<td>5 Speed at output shaft</td>
<td>rpm</td>
<td>18</td>
</tr>
<tr>
<td>6 Load at output shaft</td>
<td>Nm</td>
<td>194</td>
</tr>
</tbody>
</table>

**Motor types**

PMDC
- Motor peak efficiency 90%
- Right-angle worm wheel

**Gearbox types**

Right-angle worm wheel
- Gearbox peak efficiency 75%
- System efficiency 80%

**Motor peak efficiency**
90%

**Gearbox peak efficiency**
75%

**System efficiency**
60%

Step actuators
Motorised electronic side steps make a huge difference to the passenger experience on any journey. They need to be simple to operate and totally reliable, every time they’re used. Parvalux geared motors are specified by the leading step actuator manufacturers to power units on a range of different vehicles.

Lifts, VPLs and ramps
Whether it’s for access to a building or vehicle, Parvalux geared motors are hugely popular with manufacturers of wheelchair lifts and ramps. Compact, reliable, and quiet, our drives can be specified to meet a wide range of requirements for lifts and ramps of all shapes and sizes, with our ability to offer fully custom units ensuring you get the perfect solution every time.

**Featured product** BRx90-GB65
It’s a fact of life that advances in healthcare mean people are now living longer and as we age, we become more reliant on mobility products to support independent living. Our ability to travel, go shopping, take outdoor recreation and even play sports can be extended with the help of a range of mobility solutions.

Parvalux has demonstrable experience providing reliable and robust drive systems for a range of mobility products, from electric wheelchairs and mobility scooters to personnel lifts and patient hoists. Manufacturers benefit from our ability to customise our geared motor products to meet their specific need and our willingness to develop fully custom solutions, where required.

Parvalux geared motor products are valued by mobility product manufacturers and their customers in over 80 countries for their reliability and durability. Our AC, brushed and brushless DC motors and our legendary gearboxes, are available, right now.

Mobility solutions

www.parvalux.com