Centurion Systems’ range of technologically advanced sliding gate operators have been designed to automate virtually any sliding gate and suit a wide variety of applications, from private residences where the gate is only operated infrequently, to large complexes, businesses and industrial installations where the gate could almost be used constantly. Each and every operator offers functionality far beyond the scope of simply opening and closing your gate, putting a world of control literally at your fingertips.
Sliding Gate Operator Quick Selection Guide

This quick selection guide will help you to select the perfect CENTURION for you or your client’s sliding gate by providing the differentiating features and key specifications of each.

<table>
<thead>
<tr>
<th></th>
<th>D2 Turbo</th>
<th>D2 Turbo Low-Voltage</th>
<th>D5-Evo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>90V - 240V AC</td>
<td>10V - 20V AC</td>
<td>90V - 240V AC</td>
</tr>
<tr>
<td>Mains power required at gate</td>
<td>-</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Gate mass – maximum</td>
<td>250kg</td>
<td>250kg</td>
<td>500kg</td>
</tr>
<tr>
<td>Gate speed – maximum</td>
<td>24m/min</td>
<td>24m/min</td>
<td>22m/min</td>
</tr>
<tr>
<td>Duty cycle – mains present</td>
<td>50% 1</td>
<td>50% 1</td>
<td>50% 1</td>
</tr>
<tr>
<td>Daily operations - maximum</td>
<td>10 1</td>
<td>10 1</td>
<td>150 2</td>
</tr>
<tr>
<td>Interface type</td>
<td>Dial-based</td>
<td>Dial-based</td>
<td>LCD</td>
</tr>
<tr>
<td>Time-barring and automatic activation</td>
<td>-</td>
<td>-</td>
<td>√</td>
</tr>
<tr>
<td>Onboard multichannel receiver</td>
<td>-</td>
<td>-</td>
<td>√</td>
</tr>
</tbody>
</table>

1. Based on a 25° ambient temperature and unit not in direct sunlight
2. Battery-driven typically using a 7Ah (5Ah – D2 Turbo D2 Turbo Low-Voltage) battery and a charger (battery can be upgraded for greater power failure autonomy – mounted separately). Solar power may also be used.
3. With a brush replacement interval of two years.

---

DS-Evo Low-Voltage | D10 | D10 Turbo | A10 Endurance | A10 Heavyweight
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>15V - 19V AC</td>
<td>90V - 240V AC</td>
<td>90V - 240V AC</td>
<td>220V - 240V AC</td>
</tr>
<tr>
<td>Mains power required at gate</td>
<td>-</td>
<td>√</td>
<td>√</td>
<td>√</td>
</tr>
<tr>
<td>Gate mass – maximum</td>
<td>500kg</td>
<td>1000kg</td>
<td>1000kg</td>
<td>2200kg</td>
</tr>
<tr>
<td>Duty cycle – mains present</td>
<td>20% 1</td>
<td>25% 1</td>
<td>45% 1</td>
<td>80%</td>
</tr>
<tr>
<td>Daily operations - maximum</td>
<td>30 1</td>
<td>750 3</td>
<td>750 3</td>
<td>Only limited by duty cycle</td>
</tr>
<tr>
<td>Interface type</td>
<td>LCD</td>
<td>LCD</td>
<td>LCD</td>
<td>LED-based</td>
</tr>
<tr>
<td>Time-barring and automatic activation</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Onboard multichannel receiver</td>
<td>√</td>
<td>√</td>
<td>√</td>
<td>-</td>
</tr>
</tbody>
</table>

1. Based on a 25° ambient temperature and unit not in direct sunlight
2. Battery-driven typically using a 7Ah (5Ah – D2 Turbo D2 Turbo Low-Voltage) battery and a charger (battery can be upgraded for greater power failure autonomy – mounted separately). Solar power may also be used.
3. With a brush replacement interval of two years.
The D2 Turbo is a high-speed, cost-effective operator for domestic gates weighing up to 250kg, with a maximum speed of 24 metres per minute and powerful push force of 18kgf. This operator is exceptionally quick and easy to install and set up, with all settings easily configurable via two dials on the controller.

With loads of features, the D2 Turbo is the complete motor for a standard, domestic four metre gate.

**Main Features**

### Mechanical Features
- Battery backup
- Turbo speed for greater security and convenience
- Tough-as-nails steel pinion
- Very easy to install and set up, saving you time and money
- Easy mounting with a revolutionary jacking system
- Lockable, easy manual override
- Stylish design enhances any entrance
- Modular components clip together for easy maintenance

### Electronic Features
- Simple user interface makes changing setup child’s play
- Anti-proof controller housing with removable terminals
- Multiple Modes of Operation with enhanced user interface for exceptionally easy and versatile installation
- Adaptive Collision Sensing – intelligent enough to adapt to changes in the track, but sensitive enough to keep your loved ones safe
- Opening and Closing Safety Beam Inputs with beam circuit functional test
- High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)
- Automatic closing with adjustable time delay, and pushbutton override
- Remote gate-status indicator (gate position, power failure, low battery, multiple collision detection and Pillar Light Status indication)
- Pedestrian Opening
- Holiday Lockout
- Courtesy/Pillar Light (fixed duration), with pre-delays and two Pre-flashing Modes
- Selectable gate speed modes – Low Speed/High Speed (High Speed is the default)
- Positive Close Mode (e.g. to ensure activation of electric fence contact switch)
- Onboard multichannel CENTURION code-hopping receiver with the ability to learn remote control buttons to specific functions (e.g. Gate Trigger, Pedestrian Opening, Holiday Lockout)

### Technical Specifications

#### Technical Data

<table>
<thead>
<tr>
<th>Feature</th>
<th>D2 Turbo</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>90V–240V AC ±10%, 50Hz</td>
</tr>
<tr>
<td>Motor voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Motor power supply</td>
<td>Battery-driven (standard capacity - 12V 5Ah)</td>
</tr>
<tr>
<td>Battery charger</td>
<td>1A @ 14.2V (charging voltage - 13.75V)</td>
</tr>
<tr>
<td>Current consumption (in menus)</td>
<td>70mA</td>
</tr>
<tr>
<td>Current consumption (motor at rated load)</td>
<td>2A</td>
</tr>
<tr>
<td>Operator push force - starting</td>
<td>18kgf</td>
</tr>
<tr>
<td>Operator push force - rated</td>
<td>9kgf</td>
</tr>
<tr>
<td>Gate mass - maximum</td>
<td>250kg</td>
</tr>
<tr>
<td>Gate length - maximum</td>
<td>20m</td>
</tr>
<tr>
<td>Gate speed (varies with load)</td>
<td>24m/min</td>
</tr>
<tr>
<td>Manual override</td>
<td>Lockable with key release</td>
</tr>
<tr>
<td>Life expectancy of electric motor</td>
<td>20 (10 year life expectancy if operated only 10 times per day)</td>
</tr>
<tr>
<td>Duty cycle – mains present</td>
<td>50%</td>
</tr>
<tr>
<td>Operations in standby with 5Ah battery</td>
<td>50%</td>
</tr>
<tr>
<td>Half day</td>
<td>30</td>
</tr>
<tr>
<td>Full day</td>
<td>15</td>
</tr>
<tr>
<td>Collision sensing</td>
<td>Electronic</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-15°C to +50°C</td>
</tr>
<tr>
<td>Onboard receiver type</td>
<td>CENTURION code-hopping, multichannel output</td>
</tr>
<tr>
<td>Receiver code storage capacity</td>
<td>22 transmitter buttons</td>
</tr>
<tr>
<td>Receiver frequency</td>
<td>433MHz</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Mass of unit packed (with standard kit, but excluding rack and battery)</td>
<td>4.83kg</td>
</tr>
<tr>
<td>Packaging dimensions (with standard kit, but excluding rack and battery)</td>
<td>Width: 255mm x Depth: 188mm x Height: 333mm</td>
</tr>
</tbody>
</table>

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. Gate operating speed can be configured to run at a slower, 16m/min, depending on the requirements of individual installations
4. Based on 20°C ambient temperature and unit not in direct sunlight, based on an operator push-force of less than 50% of rated
5. Based on the gate with no external accessories such as infrared Safety Beams

www.CentSys.com
### D2 Turbo Low-Voltage Domestic Sliding Gate Operator

**Product Code:** D2TSPCLD02

A low-voltage operator for domestic gates weighing up to 250kg, designed specifically for sites with no mains at the gate to reduce installation costs while delivering outstanding reliability, comprehensive functionality and selectable high or standard speeds. With the D2 Turbo Low-Voltage, there is no need for costly high-voltage cable runs and expensive isolators, simply use a low-voltage step-down transformer or solar power supply.

#### Main Features

**Mechanical Features**
- Battery backup
- Turbo speed for greater security and convenience
- Tough-as-nails steel pinion
- Very easy to install and set up, saving you time and money
- Easy mounting with a revolutionary jacking system
- Lockable, easy manual override
- Stylish design enhances any entrance
- Modular components clip together for easy maintenance

**Electronic Features**
- Low-voltage AC or DC input - perfect for installations where there is no mains power at the gate
- Incredibly cost-effective solution
- Solar power-ready - energy-efficient, environmentally friendly and offering greater autonomy
- Opening and Closing Safety Beam Inputs with beam circuit functional test
- High-security cleared beam Autoclose, in conjunction with Safety Beams (PIRAC)

#### Technical Specifications

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>D2 Turbo Low-Voltage</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Input voltage</strong></td>
<td>10V - 20V AC ±10%, 50Hz; 10V - 28V DC</td>
</tr>
<tr>
<td><strong>Battery charger output (dependent on PSU input voltage)</strong></td>
<td>10V AC input: 40mA output, 20V AC input: 1A output, 10V DC input: 200mA output, 28V DC input: 1A output</td>
</tr>
<tr>
<td><strong>Motor voltage</strong></td>
<td>12V DC</td>
</tr>
<tr>
<td><strong>Motor power supply</strong></td>
<td>Battery-driven (standard capacity - 12V 5Ah)</td>
</tr>
<tr>
<td><strong>Current consumption (motor at rated load)</strong></td>
<td>8A</td>
</tr>
<tr>
<td><strong>Operator push force - starting</strong></td>
<td>18kgf</td>
</tr>
<tr>
<td><strong>Operator push force - rated</strong></td>
<td>9kgf</td>
</tr>
<tr>
<td><strong>Gate mass - maximum</strong></td>
<td>250kg</td>
</tr>
<tr>
<td><strong>Gate length - maximum</strong></td>
<td>20m</td>
</tr>
<tr>
<td><strong>Gate speed (varies with load)</strong></td>
<td>24m/min</td>
</tr>
<tr>
<td><strong>Manual override</strong></td>
<td>Lockable with key release</td>
</tr>
<tr>
<td><strong>Life expectancy of electric motor</strong></td>
<td>20 (10 year life expectancy if operated only 10 times per day)</td>
</tr>
<tr>
<td><strong>Duty cycle – mains present</strong></td>
<td>50%</td>
</tr>
<tr>
<td><strong>Operations in standby with 5Ah battery</strong></td>
<td>Half day: 30, Full day: 15</td>
</tr>
<tr>
<td><strong>Collision sensing</strong></td>
<td>Electronic</td>
</tr>
<tr>
<td><strong>Operating temperature range</strong></td>
<td>-15°C to +50°C</td>
</tr>
<tr>
<td><strong>Onboard receiver type</strong></td>
<td>CENTURION code-hopping, multichannel output</td>
</tr>
<tr>
<td><strong>Receiver code storage capacity</strong></td>
<td>32 transmitter buttons</td>
</tr>
<tr>
<td><strong>Receiver frequency</strong></td>
<td>433MHz</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP54</td>
</tr>
<tr>
<td><strong>Mass of unit packed (with standard kit, but excluding rack and battery)</strong></td>
<td>4.83kg</td>
</tr>
<tr>
<td><strong>Packaging dimensions (with standard kit, but excluding rack and battery)</strong></td>
<td>Width: 255mm x Depth: 188mm x Height: 333mm</td>
</tr>
</tbody>
</table>

1. Can operate directly off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. Gate speed can be configured to run at a slower, 16m/min, depending on the requirements of individual installations
4. Based on 15°C ambient temperature and unit not in direct sunlight, based on an operator push-force of less than 50% of rated
5. Based on 4m gate with no external accessories such as infrared Safety Beams
Cabling Requirements

1. **D2 Turbo: 230V - 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm² SWA)**
   
   **D2 Turbo Low-Voltage: 10V - 20V AC or 10-28V DC cable via transformer in dwelling**

   Optional Wiring (all cable is multi-stranded):

2. Intercom, cable from control box to dwelling (n1 = 6 core > 0.5mm² multi-stranded) or cable from control box to entry panel (n2 = 0.5mm² multi-stranded)

3. Infrared Safety Beams (3 core 0.5mm² multi-stranded)

4. Access control device (3 core 0.5mm² multi-stranded)

5. Pedestrian keyswitch (2 core 0.5mm² multi-stranded) or

6. Keypad (3 core 0.5mm² multi-stranded)

7. External radio receiver (3 core 0.5mm² multi-stranded)

8. Pillar Lights (3 core LNE SWA, size according to power requirements)

9. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Possibly increase cable thickness if Pillar Lights are to be installed

2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening

3. Allows all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling

4. Number of cores and type of cable could vary depending on the brand of access control system being used

5. For optimum range an external radio receiver can be mounted on the wall

6. Number of cores required by the intercom

---

We associate the word ‘steel’ with ruggedness, durability and longevity. In popular culture alone there are countless examples of ‘steel’ being a synonym for resilience. Just think about it: there’s a reason that Superman is called the Man of Steel and not, say, the Man of Silk.

It’s a simple equation: steel equals strength. Case in point, we recently replaced the nylon pinion on our domestic sliding gate motor, the D2 Turbo, with a tough-as-nails steel one.

The benefits sprouting forth from this improvement are two-fold:

Firstly, the D2 Turbo can now be easily retrofitted on sites where steel rack has been attached to the gate. Historically, this would have necessitated replacing the original rack with a nylon or RAZ variant, but the steel pinion does not discriminate against rack based on what material it is constructed from. It’s open-minded like that.

The second, and perhaps more obvious, improvement is to the longevity of the pinion itself. One must remember that the pinion spends a considerable amount of time in mechanical liaison with the rack – a liaison which involves movement – and over time lesser materials will invariably start wearing the scars of this automated war.

Steel, however, by its very nature is intended to take a beating and will retain its shape and splendour after thousands and thousands of cycles.

For more evidence that dynamite comes in small packages, check out the D2 Turbo page on our website.
The light-industrial D5-Evo is an evolution of the tried and tested D5, 500kg operator for domestic and light-industrial applications. Potent push force, along with intelligent speed control and smooth opening and closing, makes the D5-Evo the automatic choice for large private residences and townhouse complexes requiring reliable, feature-rich gate automation.

**Main Features**

**Mechanical Features**
- Battery backup
- Leakproof, easy manual override
- Custom-engineered gearbox molded from durable engineering polymer

**Electronic Features**
- LCD interface – exceptionally easy setup with visual and audible fault-finding and notification
- Advanced diagnostic screens indicating:
  - Battery-low
  - Battery charge level
  - Fuse blown
  - High current draw
  - Details of the last transmitter activated
  - Health of the drive electronics
  - Currently activated gate inputs
  - See Diagnostics Made Easy for further details

- Local test button can be deactivated for added security
- Sensitive anti-crushing protection for greater safety
- Integrated ChronoGuard timer functionality (a world first) – Time-barring and Auto-activation features for switching on Pilar Lights, deactivating ground loops, etc.
- Multiple operating features including Intruder-detection Alarm Modes (a world first)
- Onboard CENTURION code-hopping multichannel receiver incorporating the following functionality:
  - Selective add and delete
  - Onboard receiver can be disabled
  - 500 transmitter button memory
  - Automatic maintenance features like Delete-Not-Present
  - Opening and Closing Safety Beam Inputs
  - Integrated Beam Test hardware to ensure the beams are always working correctly

- Can operate off a solar supply, consult Centurion Systems for assistance
- Can increase battery capacity for longer standby times
- Gate operating speed can be configured to run slower, depending on the requirements of individual installations

- Based on 25°C ambient temperature and unit not in direct sunlight; based on an operator push force of less than 50% of rated
- Based on 4m gate excluding infrared Safety Beams

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### Technical Specifications

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>D5-Evo</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Consumption (mains)</strong></td>
<td>170mA</td>
</tr>
<tr>
<td><strong>Battery charger amperage output (dependent on PSU input voltage)</strong></td>
<td>1A output</td>
</tr>
<tr>
<td><strong>Battery charger</strong></td>
<td>CP84SM - 2A @ 13.8V</td>
</tr>
<tr>
<td><strong>Current Consumption (motor at rated load)</strong></td>
<td>15A</td>
</tr>
<tr>
<td><strong>Operator push force - starting</strong></td>
<td>30kgf</td>
</tr>
<tr>
<td><strong>Operator push force - rated</strong></td>
<td>17kgf</td>
</tr>
<tr>
<td><strong>Gate mass - maximum</strong></td>
<td>500kg</td>
</tr>
<tr>
<td><strong>Gate length - maximum</strong></td>
<td>100m</td>
</tr>
<tr>
<td><strong>Gate speed (aries with load)</strong></td>
<td>18 - 22m/min</td>
</tr>
<tr>
<td><strong>Manual override</strong></td>
<td>Thumbwheel behind locked door with key release</td>
</tr>
<tr>
<td><strong>Maximum numbers of operations per day</strong></td>
<td>150</td>
</tr>
<tr>
<td><strong>Duty cycle – mains present</strong></td>
<td>50%</td>
</tr>
<tr>
<td><strong>Operations in standby with 7Ah battery</strong></td>
<td>Half day 5 44 Full day 5 35</td>
</tr>
<tr>
<td><strong>Collision sensing</strong></td>
<td>Electronic</td>
</tr>
<tr>
<td><strong>Operating temperature range</strong></td>
<td>-15°C to +50°C</td>
</tr>
<tr>
<td><strong>Onboard receiver type</strong></td>
<td>CENTURION code-hopping, multichannel output</td>
</tr>
<tr>
<td><strong>Receiver code storage capacity</strong></td>
<td>500 transmitters buttons</td>
</tr>
<tr>
<td><strong>Receiver frequency</strong></td>
<td>433MHz</td>
</tr>
<tr>
<td><strong>Degree of protection</strong></td>
<td>IP54</td>
</tr>
<tr>
<td><strong>Mass of unit packed (with standard kit, but excluding rack and battery)</strong></td>
<td>10kg</td>
</tr>
<tr>
<td><strong>Packaging dimensions (with standard kit, but excluding rack and battery)</strong></td>
<td>Width: 303mm x Depth: 231mm x Height: 432mm</td>
</tr>
</tbody>
</table>
D5-Evo Low-Voltage Domestic Sliding Gate Operator

Product Code: D5RSPCLD06

This cost-effective sliding gate operator for gates weighing up to 500kg enables you to enjoy all the amazing features and functionality of the flagship D5-Evo – even if you don’t have mains power at the gate.

All that is needed to breathe life into the feature-rich LCD controller is a low-voltage input, easily obtainable via a step-down transformer, dramatically reducing installation costs.

Main Features

Mechanical Features
- Save on cabling costs - no thick, expensive high-voltage cables
- No need to fit costly isolators
- Battery backup
- Lockable, easy manual override
- Custom-engineered gearbox molded from durable engineering polymer

Electronic Features
- LCD interface – exceptionally easy setup with visual and audible diagnostics and notification
- Diagnostic screens indicating:
  - Battery-low
  - Battery charge level
  - Fuse blown
  - High current draw
- Details of the last transmitter activated
- Health of the drive electronics
- Currently activated gate inputs
- See Diagnostics Made Easy for further details

• Local test button can be deactivated for added security
• Sensitive anti-crushing protection for greater safety
• Integrated ChronoGuard timer functionality (a world first) - Time-barring and Auto-activation features for switching on Pillar Lights, deactivation of ground loops, etc.
• Multiple operating features including Intruder-detection Alarm Modes (a world first)
• Onboard CENTURION code-hopping multichannel receiver incorporating the following functionality:
  - Selective add and delete
  - Onboard receiver can be disabled
  - 500 transmitter button memory
  - Automatic maintenance features like Delete-Not-Present
  - Opening and Closing Safety Beam Inputs
• Integrated Beam Test hardware to ensure that the beams are always working correctly

Technical Specifications

Technical Data D5-Evo Low-Voltage

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>15V - 19V AC</td>
</tr>
<tr>
<td>Battery charger output (dependent on PSU input voltage)</td>
<td>15V AC input: 400mA output, 19V AC input: 1A output</td>
</tr>
<tr>
<td>Motor voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Current consumption (mains)</td>
<td>170mA</td>
</tr>
<tr>
<td>Current consumption (motor at rated load)</td>
<td>10A</td>
</tr>
<tr>
<td>Operator push force - starting</td>
<td>30kgf</td>
</tr>
<tr>
<td>Operator push force - rated</td>
<td>7kgf</td>
</tr>
<tr>
<td>Gate mass – maximum</td>
<td>500kg</td>
</tr>
<tr>
<td>Gate length – maximum</td>
<td>100m</td>
</tr>
<tr>
<td>Gate speed (varies with load)</td>
<td>18 - 22m/min</td>
</tr>
<tr>
<td>Manual override</td>
<td>Thumbwheel behind locked door with key release</td>
</tr>
<tr>
<td>Maximum numbers of operations per day</td>
<td>25</td>
</tr>
<tr>
<td>Duty cycle – mains present</td>
<td>20%</td>
</tr>
<tr>
<td>Operations in standby with 7Ah battery</td>
<td>55</td>
</tr>
<tr>
<td>Half day</td>
<td>35</td>
</tr>
<tr>
<td>Full day</td>
<td>35</td>
</tr>
<tr>
<td>Collision sensing</td>
<td>Electronic</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-15°C to +50°C</td>
</tr>
<tr>
<td>Onboard receiver type</td>
<td>CENTURION code-hopping, multichannel output</td>
</tr>
<tr>
<td>Receiver code storage capacity</td>
<td>500 transmitter buttons</td>
</tr>
<tr>
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<td>433MHz</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Mass of unit packed (with standard kit, but excluding rack and battery)</td>
<td>1kg</td>
</tr>
<tr>
<td>Packaging dimensions (with standard kit, but excluding rack and battery)</td>
<td>Width: 303mm x Depth: 231mm x Height: 432mm</td>
</tr>
</tbody>
</table>

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. Gate operating speed can be configured to run slower, depending on the requirements of individual installations
4. Based on 25°C ambient temperature and unit not in direct sunlight; based on an operator push force of less than 50% of rated
5. Based on 4m gate excluding infrared Safety Beams

www.CentSys.com
Cabling Requirements

1. **d5-Evo**: 220V – 240V AC mains cable via double mains isolator switch (3 core LNE 1.5mm² SWA)
   **d5-Evo Low-Voltage**: 13V – 19V AC cable via transformer in dwelling

**Optional Wiring** (all cable is multi-stranded):
2. Intercom, cable from control box to dwelling (n1 6 core 0.5mm² multi-stranded) or cable from control box to entry panel (n2 6 core 0.5mm² multi-stranded)
3. Infrared Safety Beams (3 core 0.5mm² multi-stranded)
4. Access control device (3 core 0.5mm² multi-stranded)
5. Pedestrian keyswitch (2 core 0.5mm² multi-stranded) or
6. Keypad (3 core 0.5mm² multi-stranded)
7. External radio receiver (3 core 0.5mm² multi-stranded)
8. Pillar Lights (3 core LNE SWA, size according to power requirements)
9. Inductive loop detector for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Possibly increase cable thickness if Pillar Lights are to be installed
2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening
3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling
4. Number of cores and type of cable could vary depending on the brand of access control system being used
5. For optimum range an external radio receiver can be mounted on the wall
6. Number of cores required by the intercom

---

Solar-powerful gate motors!

Use the power of the sun to keep your gate motor going on and on and on and on and on and on!

- Powerful low-voltage motors and solar power are a perfect combination!
- Cost-effective automation solution – save on installation and electricity costs
- Complete power failure autonomy with solar power: off-the-grid and on-charge!
- Environmentally-friendly - save the world, get a CentSys!
- CentSys supplies solar panels, brackets, regulators, deep-cycle batteries and battery enclosures – meeting your every solar need

---

Call 0860 236 887
Technical support line: 0861 003 123 (Monday - Friday: 07h00 – 18h00)
www.CentSys.com
Using CENTURION’s proven 24V DC technology, this is the complete solution for commercial and industrial gates weighing up to 1000kg. A rock-solid die-cast aluminium gearbox and reliable battery backup make the D10 ideally suited for complexes with large gates and high traffic volumes, while an intelligent LCD controller with multiple Modes of Operation makes setup and diagnostics veritable child’s play.

**Main Features**

**Mechanical Features**
- Battery backup
- Lockable, easy manual override with anti-jamming
- Strong die-cast aluminium gearbox

**Electronic Features**
- LCD interface – Exceptionally easy setup with visual and audible diagnostics and notification
- Diagnostic screens indicating:
  - Battery-low
  - Battery charge level
  - Fuse blown
  - High current draw
  - Details of the last transmitter activated
  - Health of the drive electronics
  - Currently activated gate inputs
- See Diagnostics Made Easy for further details
- High duty cycle capability - for greater reliability in high-volume applications

**Main Features**

**Mechanical Features**
- Intelligent speed control - high-speed for greater security and convenience; slower speed for increased safety
- Integrated ChronoGuard time functionality (a world first) - Time-barring and auto-activation features for switching on Pillar Lights, deactivating ground loops, etc.
- Multiple operating features, including Intruder-detection Alarm Modes (a world first)
- Onboard CENTURION code-hopping multichannel receiver incorporating the following functionality:
  - Battery-low
  - Selective add and delete
  - Onboard receiver can be disabled
  - 500 transmitter button memory
  - Automatic maintenance features like Delete-Not-Present
- Opening and Closing Safety Beam Inputs
- Integrated Beam Test hardware to ensure that the beams are always working correctly

**Technical Specifications**

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>D10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>90V - 240V AC ±10%, 50Hz</td>
</tr>
<tr>
<td>Motor voltage</td>
<td>24V DC</td>
</tr>
<tr>
<td>Motor power supply</td>
<td>Battery-driven (standard capacity - 2 x 7Ah)</td>
</tr>
<tr>
<td>Battery charger</td>
<td>2A @ 27.3V</td>
</tr>
<tr>
<td>Current consumption (mains)</td>
<td>170mA</td>
</tr>
<tr>
<td>Current consumption (motor at rated load)</td>
<td>4A</td>
</tr>
<tr>
<td>Operator push force - starting</td>
<td>49kg</td>
</tr>
<tr>
<td>Operator push force - rated</td>
<td>35kg</td>
</tr>
<tr>
<td>Gate mass – maximum</td>
<td>1000kg</td>
</tr>
<tr>
<td>Gate length - maximum</td>
<td>100m</td>
</tr>
<tr>
<td>Gate speed (varies with load)</td>
<td>22 - 26m/min</td>
</tr>
<tr>
<td>Manual override</td>
<td>Latchable lever with key release</td>
</tr>
<tr>
<td>Maximum numbers of operations per day</td>
<td>750</td>
</tr>
<tr>
<td>Duty cycle – mains present</td>
<td>45%</td>
</tr>
<tr>
<td>Operations in standby with 3Ah battery</td>
<td>47</td>
</tr>
<tr>
<td>Half day</td>
<td>87</td>
</tr>
<tr>
<td>Full day</td>
<td>69</td>
</tr>
<tr>
<td>Collision sensing</td>
<td>Electronic</td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-15°C to +50°C</td>
</tr>
<tr>
<td>Onboard receiver type</td>
<td>CENTURION code-hopping, multichannel output</td>
</tr>
<tr>
<td>Receiver code storage capacity</td>
<td>500 transmitter buttons</td>
</tr>
<tr>
<td>Receiver frequency</td>
<td>433MHz</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54</td>
</tr>
<tr>
<td>Mass of unit packed (with standard kit, but excluding rack and battery)</td>
<td>13kg</td>
</tr>
<tr>
<td>Packaging dimensions (with standard kit, but excluding rack and battery)</td>
<td>Width: 355mm x Depth: 288mm x Height: 485mm</td>
</tr>
</tbody>
</table>

1. Can operate off a solar supply, consult Centurion Systems for assistance.
2. Can increase battery capacity for longer standby times.
3. Gate operating speed can be configured to run slower, depending on the requirements of individual installations.
4. Based on 25°C ambient temperature and unit not in direct sunlight; based on an operator push force of less than 50% of rated.
5. Based on 4m gate excluding infrared Safety Beams.
D10 Turbo
Industrial Sliding Gate Operator
Product Code: D10TB000V1

CENTURION’s fastest operator yet! This is the ideal solution for extremely fast, feature-rich and high-security gate automation. With a top speed of 50 metres per minute and all the amazing features that first made the D10 a favourite among installers and end-users alike, the D10 Turbo offers the complete package of brains, brawn and expeditious speed.

Main Features
Mechanical Features
• Battery backup
• Lockable, easy manual override with anti-jamming
• Strong die-cast aluminium gearbox
Electronic Features
• Turbo speed for greater security and convenience
• LCD interface – exceptionally easy setup with visual and audible diagnostics and notification
• Diagnostic screens indicating:
  • Battery-low
  • Battery charge level
  • Fuse blown
  • High current draw
  • Details of the last transmitter activated
  • Health of the drive electronics
  • Currently activated gate inputs
• See Diagnostics Made Easy for further details

• High duty cycle capability - for greater reliability in high-volume applications
• Intelligent speed control - high-speed for greater security and convenience; slower speed for increased safety
• Integrated ChronoGuard time functionality (a world first) - Time-lowering and auto-activation features for switching on Pillar Lights, deactivating ground loops, etc.
• Multiple operating features, including Intruder-detection Alarm Modes (a world first)
• Onboard CENTURION code-hopping multichannel receiver incorporating the following functionality:
  • Battery-low
  • Selective add and delete
  • Onboard receiver can be disabled
  • 500 transmitter button memory
• Automatic maintenance features like Delete-Not-Present
• Opening and Closing Safety Beam Inputs
• Integrated Beam Test hardware to ensure that the beams are always working correctly

Technical Specifications
Technical Data D10 Turbo
Input voltage: 90V - 240V AC ±10%, 50Hz
Motor voltage: 24V DC
Motor power supply: Battery-driven (standard capacity - 2 x 7Ah)
Battery charger: 2A @ 27.5V
Current consumption (motor at rated load): 8A
Operator push force - starting: 20kgf
Operator push force - rated: 15kgf
Gate mass – maximum: Varies with speed
Gate length - maximum: 50m
Gate speed (varies with load): 40 - 55m/min
Manual override: Lockable lever with key release
Maximum numbers of operations per day: 750
Duty cycle – mains present: 25%
Operations in standby with 5Ah battery:
  • Half day (a): 58
  • Full day (a): 37
Collision sensing: Electronic
Operating temperature range: -15°C to +50°C
Onboard receiver type: CENTURION code-hopping, multichannel output
Receiver code storage capacity: 500 transmitter buttons
Receiver frequency: 433MHz
Degree of protection: IP54
Mass of unit packed (with standard kit, but excluding rack and battery): 13kg
Packaging dimensions (with standard kit, but excluding rack and battery): Width: 355mm x Depth: 288mm x Height: 485mm

1. Can operate off a solar supply, consult Centurion Systems for assistance
2. Can increase battery capacity for longer standby times
3. Gate operating speed can be configured to run slower, depending on the requirements of individual installations
4. Varies with speed setting - see table
5. Based on 25°C ambient temperature and unit not in direct sunlight, based on an operator push force of less than 50% of rated
6. Based on 4m gate excluding infrared Safety Beams

Maximum Operating Speed for Corresponding Gate Mass
Gate Mass | Operator Maximum Running Speed
|----------|-----------------
| 240kg | 36m/min
| 300kg | 42m/min
| 400kg | 36m/min
| 500kg | 32m/min
| 600kg | 29m/min
| 700kg | 27m/min
| 800kg | 25m/min
| 900kg | 24m/min
| 1000kg | 23m/min

www.CentSys.com
Cabling Requirements

1. 220V - 240V AC mains cable via double pole mains isolator switch (3 core LNE 1.5mm² SWA)

Optional Wiring (all cable is multi-stranded):

2. Intercom, cable from control box to dwelling (n1 = 6 core 0.5mm² multi-stranded) or cable from control box to entry panel (n2 = 0.5mm² multi-stranded)

3. Infrared Safety Beams (3 core 0.5mm² multi-stranded)

4. Access control device (3 core 0.5mm² multi-stranded)

5. Pedestrian keyswitch (2 core 0.5mm² multi-stranded)

6. Keypad (3 core 0.5mm² multi-stranded)

7. External radio receiver (3 core 0.5mm² multi-stranded)

8. Pillar Lights (3 core LNE SWA, size according to power requirements)

9. Ground loop for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

1. Possibly increase cable thickness if Pillar Lights are to be installed

2. SWA - steel wire armoured. Type of cable must adhere to municipal bylaws and preferably be screened. Screening provides better protection against lightning - earth one end of the screening

3. Allows for all features such as Pedestrian Opening, Status LED, etc. to be operated from the intercom handset inside the dwelling

4. Number of cores and type of cable could vary depending on the brand of access control system being used

5. For optimum range an external radio receiver can be mounted on the wall

6. Number of cores required by the intercom

10 000 remote buttons, 10 000 mobile numbers, 10 000 reasons to install a SupaHelix!

SupaHelix hasn’t just raised the bar in multi-unit access control - it’s changed the game completely!

Main Features:

- Perfect for high-volume residential, commercial and government installations
- Store up to 10 000 remote control buttons and 10 000 mobile numbers for multi-unit access control
- Add, delete and edit thousands of users, in groups and sub-groups, quickly and easily on the unit or over-the-air via SMS or through the secure, online G-WEB portal
- Advanced logging - record up to one million transactions on the included micro SD card
- Three individually-configurable input/output channels to monitor and control electrical devices. This can also be done remotely.

1. With the optional GSM module attached
2. Optional programming may require additional interface device such as relay sockets, PLC.
Using a powerful three-phase motor, the A10 is the ultimate industrial automation solution. Since this beast is mains-powered, it is able to provide an almost unlimited duty cycle with rapid opening and closing courtesy of a die-cast aluminium gearbox and intelligent controller-inverter pairing.

Available Models

A10 Endurance: A rapid and robust operator with a three-phase motor for commercial and industrial gates up to 1000kg
A10 Heavyweight: An all-round performer for gates up to 2000kg

Main Features

Mechanical Features
- High push force for reliable operation of almost any gate
- High duty cycle capability - for greater reliability in high-volume applications
- Strong die-cast aluminium gearbox with anti-jamming

Electronic Features
- Extremely rapid operating speed - up to 30 metres per minute offers exceptional security and high-volume access control
- Multiple programmable features - to suit a wide variety of applications
- Optional DC Converter for reliable battery backup with full kit (DC_CONKITL):
  - On-demand battery backup protection
  - Brown-out power failure detection
  - Battery-protection circuitry
  - Integrated battery charger

- Proven lightning protection
- Pedestrian Opening input – prevents unauthorised vehicle access
- Safety Beam input – connecting infrared Safety Beams dramatically increases the safety of the automated system
- Local and remote multi-function Gate Status LED
- Free-exit input (only opens gate)
- Timed potential-free contact (e.g. Courtesy Lights)
- Selectable/adjustable Autoclose timer (1 - 255 seconds)
- Override of Autoclose timer via trigger input
- Local diagnostic LEDs for easy programming diagnostics
- 12V DC auxiliary supply connecting Safety Beams, external receivers, keypads, etc.

Technical Specifications

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>A10 Endurance</th>
<th>A10 Heavyweight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>220V - 240V AC ±10%, 50Hz (single phase)</td>
<td>220V AC three-phase</td>
</tr>
<tr>
<td>Maximum absorbed current</td>
<td>8A</td>
<td></td>
</tr>
<tr>
<td>Output pinion</td>
<td>20 tooth mod 4</td>
<td>17 tooth mod 4</td>
</tr>
<tr>
<td>Gate speed at rated push force</td>
<td>Lockable lever with key release</td>
<td></td>
</tr>
<tr>
<td>Standard speed</td>
<td>16m/min</td>
<td>13.6m/min</td>
</tr>
<tr>
<td>Sprint speed</td>
<td>30m/min</td>
<td>NA</td>
</tr>
<tr>
<td>Maximum gate mass</td>
<td>1000kg</td>
<td>2000kg</td>
</tr>
<tr>
<td>Standard speed</td>
<td>600kg</td>
<td>NA</td>
</tr>
<tr>
<td>Maximum gate length</td>
<td>20m</td>
<td></td>
</tr>
<tr>
<td>Operator push force - rated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard speed</td>
<td>30kgf</td>
<td>35kgf</td>
</tr>
<tr>
<td>Sprint speed</td>
<td>22.5kgf</td>
<td>NA</td>
</tr>
<tr>
<td>Manual override</td>
<td>Lockable lever with key release</td>
<td></td>
</tr>
<tr>
<td>Duty cycle</td>
<td>80%</td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>-20°C to +50°C</td>
<td></td>
</tr>
<tr>
<td>Anti-colliding sensor method</td>
<td>Electronic</td>
<td></td>
</tr>
<tr>
<td>Motor thermal protection</td>
<td>Electronic</td>
<td></td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP54</td>
<td></td>
</tr>
<tr>
<td>Optional battery backup</td>
<td>Y</td>
<td></td>
</tr>
<tr>
<td>Onboard receiver</td>
<td>Receiver not included</td>
<td></td>
</tr>
<tr>
<td>Mass of unit packed (with standard kit, but excluding rack and receiver)</td>
<td>1.5kg</td>
<td></td>
</tr>
<tr>
<td>Packaging dimensions (with standard kit, but excluding rack and receiver)</td>
<td>Width: 355mm x Depth: 288mm x Height: 485mm</td>
<td></td>
</tr>
</tbody>
</table>

Technical Data DC Converter

<table>
<thead>
<tr>
<th>Technical Data</th>
<th>DC Converter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Input voltage</td>
<td>12V DC</td>
</tr>
<tr>
<td>Current draw @ rated thrust</td>
<td>30A</td>
</tr>
<tr>
<td>Rated output voltage</td>
<td>310V DC</td>
</tr>
<tr>
<td>Battery charger output 1</td>
<td>2A</td>
</tr>
<tr>
<td>Duty cycle</td>
<td>20%</td>
</tr>
<tr>
<td>Thermal protection</td>
<td>Electronic</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP65</td>
</tr>
<tr>
<td>Battery capacity</td>
<td>Minimum 12V 7Ah but external 35Ah is recommended</td>
</tr>
<tr>
<td>Operating cycles per Ah of capacity</td>
<td>Minimum 1 open or close cycle</td>
</tr>
<tr>
<td>Packaging dimensions</td>
<td>Width: 269mm x Depth: 145mm x Height: 365mm</td>
</tr>
</tbody>
</table>

1. Can operate directly off a solar supply, consult Centurion Systems for assistance
2. Based on 25°C ambient temperature and unit not in direct sunlight
3. Battery housed in separate enclosure
Cabling Requirements

1. 220V - 240V AC mains cable via double pole mains isolator switch (3 core LNE 1.5mm² : SWA 2)

Optional Wiring (all cable is multi-stranded):

2. Intercom cable from control box to dwelling (n1 6 core 0.5mm² multi-stranded) or cable from control box to entry panel (n2 0.5mm² multi-stranded. InfraRed Safety Beams (2 core 0.5mm² multi-stranded)

3. Access control device (3 core 0.5mm² multi-stranded)

4. Pedestrian keyswitch (2 core 0.5mm² multi-stranded) or

5. Keypad (3 core 0.5mm² multi-stranded)

6. External radio receiver (3 core 0.5mm² multi-stranded)

7. Pillar Lights (3 core LNE SWA, size according to power requirements)

8. Inductive loop receiver for free-exit (1 core 0.5mm² multi-stranded - silicone-coated)

AC or DC: We're not referring to the Australian rock band of course (although our gate motors have been known to rock), but rather to the form in which electric power is supplied to your operator. AC, or alternating current, means that the gate motor is being powered directly via the 230V mains supply from a distribution board in your house.

DC, or direct current, on the other hand, is a method of power delivery relying on some sort of 'power store' such as a battery. You'll find that the vast majority of CENTURION gate motors are DC-operated. And there's a good reason for that. Power delivery, especially in South Africa, is unfortunately quite unreliable and we've all borne the brunt of load shedding before. Your gate motor, being the holder of so many titles – security guard, buffer, etc. – needs to be on duty around the clock, and DC units are able to continue operation even during lengthy power failures, whereas AC gate motors are not.

On the flipside of the coin, AC motors have a virtually unlimited duty cycle and will work tirelessly as long as they are being fed mains. Both of these modes of power delivery have their virtues, you simply need to decide which is best suited for your application. If you live in an area where power outages are commonplace, a DC unit is probably the best bet.

Let’s say, that you have finally grown tired of your old gate and you’re in the market for a new, more reliable, mode of transportation. Naturally, there are a number of factors you would consider and things you would weigh up before finally settling on a car.

Similarly, when you’re preparing to have your world rocked by the amazing security and convenience provided by a gate motor, there are some things you need to think about to ensure that you get one that’s right for your application. But don’t worry, with some handy tips from your favourite access automation company you’ll be wielding that remote like a magical sceptre in no time.

Weight of the Gate: Unless you’re an ant or former Governor of California (and sometimes actor) Arnold Schwarzenegger, you probably can’t carry much more than your body weight. But through the miracle of engineering gate motors are able to relatively effortlessly lug around several hundred times its own weight.

But that doesn’t mean it should be unerratically loaded. Subjecting it to that kind of abuse will invariably lead to problems down the line, so first get an approximation of what your gate weighs before selecting a motor. The good news is that gate motors are usually much, much lighter than we think.

Pull Force: This is more an extension of the previous point than a whole new heading. Pull force plays a monumental role in what gate motor you install, and has a direct impact on both the reliability and the service life of the operator. If you struggle to open and close your gate manually, be sure to choose a device rated for a high push force such as a D10. The easiest and most accurate way to determine the weight of the gate is to use a pull scale as found in any angling goods store.

Swing or Slide: This one might seem fairly obvious if you already have a gate fitted, but if you’re looking to install a gate where there isn’t currently one this might warrant some thought. The truth is that both swing and sliding gate motors are equally rich in merit and which one you choose to fit simply depends on preference or, in the case of an existing gate, what the setup necessitates. If you are going with a swing gate, remember to take into account factors like the length of the individual leaves, wind loading, etc.
Sliding Gate Operator Accessories

A. Steel, Nylon RAZ or Nylon Angle Rack
   Product Code: CP20G, RAZKITSPCL, CP20N1

A variety of racks available in different lengths, for different strengths.

B. CENTURION Infrared Beams
   Product Code: Photon wireless beams: PHOTON1V1; D wired beams: 1SV2

Always recommended on any gate automation installation to increase the safety of the automated system.

C. P36 Passive Sensitive Edge
   Product Code: 1010M52220

Passive sensitive edge provides additional protection against crushing.

D. Theft-resistant Cage
   Product Code: 1195ACC001 / 113001V5PL / 11400101PL

Retro-installable steel cage that increases the resistance of the operator against theft.

E. FLUX SA Loop Detector
   Product Code: FLUXSA00V1

Always recommended on any gate automation installation to increase the safety of the automated system.

F. CENTURION Transmitter
   Product Code: One-button: TX1NV2433; Two-button: TX2NV433; Three-button: TX3NV2433; Four-button: TX4NV2433

Incorporates ultra-secure code-hopping technology. Available in one-, two-, three- and four-button variants.

G. Backup Memory Module
   Product Code: PGA1500TY1.8

Back up all the transmitters and operating details set up in the controller.

H. Wheel Kits
   Product Code: CP325HK3

A variety of wheel kits are available from Centurion Systems.

I. Solar Supply
   Product Code: ESOLAR20WA/ESOLAR40WA

Alternative means of powering the system with a 20 Watt or 40 Watt panel.

J. G-SWITCH-22 GSM Device
   Product Code: GSWITCHV3

Allows for monitoring and operating the operator, via your phone, from anywhere in the world with GSM coverage.

K. SMARTGUARD or SMARTGUARDair Keypad
   Product Code: SK/1BLK, SK/AIRBLK

Provides battery backup and power failure autonomy for the A10 operator.

L. A10 DC Converter
   Product Code: DC_CONKITL

Cost-effective and versatile wired or wireless keypad, allowing access for pedestrians.

M. POLOphone Intercom
   Product Code: POLOE2GOV3/POLOH00WV1

Mobile-based intercom system - answer your intercom from anywhere in the world for maximum security and convenience.

N. Gooseneck
   Product Code: XGSN-60000 or XSGN-6GLV0

Steel pole for mounting intercom gate station or access control.

O. SOLO/LATTICE Proximity Access Control
   Product Code: B6L0000V1 / LATC0000V1

Proximity reader for allowing access for both pedestrians and vehicles.

P. G-SPEAK Intercom
   Product Code: GSC0K020V0, GSC1K020V0

Mobile-based intercom system - answer your intercom from anywhere in the world for maximum security and convenience.
## Sliding Gate Operator Kits

### D2 Turbo Full Kit

- **Product Code:** D2TFULLKIT_RAZ1 / D2TFULLKIT_NYLON1
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x Integral 1A charger**
- **1 x 5Ah battery**
- **4m x RAZ rack/Nylon angle rack**
- **2 x 4 button CENTURION transmitter**

### D2 Turbo Low-Voltage Full Kit

- **Product Code:** D2TSPLDL03_RAZ1 / D2TSPLDL03_NYLON1
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x Integral 1A charger**
- **1 x 5Ah battery**
- **4m x RAZ rack/Nylon angle rack**
- **2 x 4 button CENTURION transmitter**

### D5-Evo Full Kit

- **Product Code:** D5EVOFK_RAZ1 / D5EVOFK_STEEL2 / D5EVOFK_NYLON2
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x 2A charger**
- **1 x 7Ah Battery**
- **4m x RAZ rack/Steel rack/Nylon angle rack**
- **2 x 4 button CENTURION transmitter**

### D10 Full Kit

- **Product Code:** D101R
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x 2A 24V charger**
- **2 x 7Ah Battery**
- **4m x Steel rack**

### D10 Turbo Full Kit

- **Product Code:** D101T_FULL KIT
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x 2A 24V charger**
- **2 x 7Ah Battery**
- **4m x Steel rack**
- **2 x Sets i5 Safety Beams**
- **2m x Passive sensitive edge**

### D10 Turbo Partial Kit

- **Product Code:** D101T_PART KIT
- **1 x Operator**
- **1 x Foundation plate**
- **1 x Controller**
- **1 x 2A 24V Charger**
- **2 x 7Ah Battery**
- **2 x Sets i5 Safety Beams**
- **2m x Passive sensitive edge**

### A10 Endurance Kit

- **Product Code:** A10ER
- **1 x Operator (20T Pinion)**
- **1 x Foundation Plate**
- **1 x CP201 Controller**
- **1 x CP200 Inverter**
- **4m x Steel rack**

### A10 Heavyweight Kit

- **Product Code:** A10GR
- **1 x Operator (17T Pinion)**
- **1 x Foundation Plate**
- **1 x CP201 Controller**
- **1 x CP200 Inverter**
- **4m x Steel rack**

### A10 Endurance Kit

- **Product Code:** A10ER
- **1 x Operator (20T Pinion)**
- **1 x Foundation Plate**
- **1 x CP201 Controller**
- **1 x CP200 Inverter**
- **4m x Steel rack**

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