

# Complex Powerchair Solutions

|                                |                              | REAR-WHEEL DRIVE                       |  | MID-WHEEL DRIVE                        |   |   |                                       | FRONT-WHEEL DRIVE   |                     |                        |                     |
|--------------------------------|------------------------------|--|--|--|---|---|---------------------------------------|---|---------------------|------------------------|---------------------|
|                                |                              | KARMA KP25.2                           | QUANTUM R-TRAK                                     | PRIDE J623 2.0                         | QUANTUM EDGE 3 STRETTO  | QUANTUM EDGE 3  | QUANTUM Q6 EDGE HD                    | QUANTUM 4FRONT 2  | QUANTUM 4FRONT 2 HD | QUANTUM Q1450          |                     |
| DRIVE                          | Contracts                    | Accessible Contract<br>Enable Contract | Enable Contract                                    | Accessible Contract<br>Enable Contract | Enable Contract   | Accessible Contract<br>Enable Contract                              | Enable Contract                       | Enable Contract   | None                | None                   |                     |
|                                | Drive Wheels                 | 12" Pneumatic                          | 14" Solid Foam Filled / 14" Pneumatic / 14" Knobby | 14" Solid Foam Filled / 14" Pneumatic  | 14" or 12.5" Pneumatic or Solid Foam Filled                         | 14" Solid Foam Filled / 14" Pneumatic                               | 14" Solid Foam Filled / 14" Pneumatic | 14" Solid Foam Filled / 14" Pneumatic / 14" Knobby                  | 14" Flat Free       | 14" Solid Foam Filled  |                     |
|                                | Castor Wheels <sup>8</sup>   | 8" Solid                               | Front 9" Flat Free                                 | Front 6" Solid<br>Rear 6" Solid        | Front 5" Flat free<br>Rear 6" Flat free                             | Front 6" Solid<br>Rear 6" Solid                                     | Front 6" Solid<br>Rear 6" Solid       | Rear 9" Flat Free   | Rear 9" Flat Free   | 9" Solid               |                     |
|                                | Anti-Tip Wheels              | N/A                                    | 4" Solid (rear)                                    | N/A                                    | N/A   | N/A   | N/A                                   | 4" Solid (front)  | 4" Solid (front)    | 4" Solid               |                     |
|                                | Maximum Speed <sup>1</sup>   | Up to 6.0km/h                          | Up to 10km/h                                       | Up to 9.6km/h                          | Up to 10.0km/h  | Up to 10.0km/h  | Up to 7.5km/h                         | Up to 10.0km/h  | Up to 8km/h         | Up to 7.2km/h          |                     |
|                                | Ground Clearance             | 2.3"                                   | 3.97" (battery tray)                               | 2.7" (battery tray)                    | 2.9" (battery tray)   | 2.7" (battery tray)   | 3.0" (frame centre)                   | 3.15" (motor pivot)   | 2.6" (motor pivot)  | 1.5" (anti-tip wheels) |                     |
|                                | Turning Radius <sup>2</sup>  | 25.6 - 39.4"                           | 25.7"  | 20.5"                                  | 21.0"   | 20.5"   | 19.75"                                | 25.9"   | 24.5"               | 26.5"                  |                     |
|                                | Max Rated Slope              | 12° / 21.2%                            | 7.5° / 13.2%                                       | 7.5° / 13.2%                           | 7.5° / 13.2%  | 7.5° / 13.2%  | 7.5° / 13.2%                          | 7.5° / 13.2%  | 7.5° / 13.2%        | 6° / 10.5%             |                     |
| SEATING & POSITIONING          | Seating System               | Slung upholstery                       | TRU-Balance 3                                      | TRU-Balance 3                          | TRU-Balance 3 or 4 (TB4 only available on 16"x14" seat size and up) | TRU-Balance 3 or 4 (TB4 only available on 16"x14" seat size and up) | TRU-Balance 3                         | TRU-Balance 3 or 4 (TB4 only available on 16"x14" seat size and up) | TRU-Balance 3 HD    | TRU-Balance 2 HD       |                     |
|                                | Seating Sizes                | Non-Tilt                               | W: 14-20" D: 16-20"9                               | W: 12-22" D: 12-22"                    | W: 12-22" D: 12-22"   | W: 12-22" D: 12-22"   | W: 10-22" D: 10-22"                   | W: 20-32" D: 20-28"   | W: 12-22" D: 12-22" | W: 20"-24" D: 20"-24"" | W: 20-32" D: 20-28" |
|                                |                              | Power Tilt                             | N/A  | W: 12-22" D: 12-22"                    | W: 12-22" D: 12-22"   | W: 12-20" D: 12-20"   | W: 12-22" D: 12-22"                   | W: 20-32" D: 20-25"   | W: 12-22" D: 12-22" | W: 20"-24" D: 20-22"   | W: 20-32" D: 20-28" |
|                                |                              | Power Lift & Tilt                      | N/A  | W: 12-22" D: 12-22"                    | W: 12-22" D: 12-22"   | W: 12-20" D: 12-20"   | W: 12-22" D: 12-22"                   | W: 20-24" D: 20-25"   | W: 12-22" D: 12-22" | W: 20"-24" D: 20-22"   | N/A                 |
|                                | Seat to Floor Heights        | Non-Tilt                               | 19.0"  | 16" - 18"                              | 16.5" - 18.5"   | 16.0" - 18.0"   | 16.5" - 18.5"                         | 16.5" - 18.5"   | 15.2" - 17.25"      | 16.5" - 20.5"          | 16.5" - 18.5"       |
|                                |                              | Power Tilt <sup>5</sup>                | N/A  | 18.5" - 19.5"                          | 17.5" - 19.5"   | 17.5" - 19.5"   | 17.5" - 19.5"                         | 18.5" - 20.5"   | 17.5" - 19.5"       | 17.5" - 19.5"          | 19.5" - 20.5"       |
| Power Lift & Tilt <sup>5</sup> |                              | N/A                                    | 17.25" - 18.25"                                    | 17.5" - 19.5"                          | 17.5" - 19.5"   | 17.5" - 19.5"   | 18.5" - 20.5"                         | 17.75" - 19.75"   | 18.75-20.5"         | N/A                    |                     |
| Maximum Elevation              | N/A                          | 10.0"                                  | 12.0"  | 12.0"                                  | 12.0"   | 10.0"   | 10.0"                                 | 10.0"   | N/A                 |                        |                     |
| ELECTRONICS & BATTERY          | Lights                       | N/A                                    | Standard   | Optional                               | Standard  | Standard  | Optional                              | Standard  | Standard            | Optional               |                     |
|                                | Battery Size/Type            | 20Ah for 14" W<br>40Ah for 16-20" W    | Group 24 (70Ah)                                    | NF-22 (50Ah)                           | NF-22 (50Ah)  | NF-22 (50Ah)  | Group 24 (70Ah)                       | Group 24 (70Ah)   | Group 24 (73Ah)     | Group 24 (70Ah)        |                     |
|                                | Electronics                  | VR2 Controller                         | Q-Logic 3  | VR2 Controller                         | Q-Logic 3   | Q-Logic 3   | Q-Logic 3                             | Q-Logic 3   | Q-Logic 3           | Q-Logic 3              |                     |
|                                | Battery Charger              | 6A Off-Board                           | 8A Off-Board                                       | 8A Off-Board                           | 8A Off-Board  | 8A Off-Board  | 8A Off-Board                          | 8A Off-Board  | 8A Off-Board        | 8A Off-Board           |                     |
|                                | Motor Packages               | 2-Pole                                 | 4-Pole, Rear-wheel                                 | 2-Pole Mid-wheel                       | 2-Pole Mid-wheel  | 2-Pole Mid-wheel  | 4-Pole High-torque                    | 4-Pole Front-wheel  | 4-Pole Front-wheel  | 4-Pole High-torque     |                     |
| DIMENSIONS & WEIGHTS           | Battery Weight <sup>7</sup>  | 2x 17.5 kg                             | 2x 23.5 kg   | 2x 17.2 kg                             | 2x 18.1 kg  | 2x 17.2 kg  | 2x 23.5 kg                            | 2x 23.5 kg  | 2x 23.5 kg          | 2x 23.5 kg             |                     |
|                                | Base Weight                  | 35.0 kg                                | 58.0 kg  | 63.0 kg                                | 57.0 kg   | 63.0 kg   | 65.0 kg                               | 58.9 kg   | 63.5 kg             | 89.0 kg                |                     |
|                                | Weight Capacity <sup>4</sup> | 135.0 kg                               | 136.0 kg   | 136.0 kg                               | 136.0 kg  | 136.0 kg  | 204.0 kg                              | 136.0 kg  | 204.0 kg            | 272.0 kg               |                     |
|                                | Overall Length <sup>6</sup>  | 43.0"                                  | 34.8"  | 35.5"                                  | 32.5"   | 32.23"  | 35.6"                                 | 39.9"   | 39.9"               | 38.25"                 |                     |
|                                | Overall Width                | Seat width +7"                         | 24.2"  | 24.2"                                  | 21.8" (14" wheels)<br>20.47" (12.5" wheels)                         | 24.4"   | 26.25"                                | 24"   | 24"                 | 29.25"                 |                     |

# Powerchair Weight Matrix

The below table lists the approximate weight of each powerchair component for powerchairs distributed within New Zealand. This can be used to calculate an approximate weight of a powerchair, however, is only a guide and weights can vary. Please also note, cushions, backs, armrests and other accessories will increase the overall weight of a powerchair. Battery weight may also vary based on the manufacturer. Refer to the powerchair specs sheet for additional information.

|   |           | REAR-WHEEL DRIVE |                | MID-WHEEL DRIVE |                        |                | FRONT-WHEEL DRIVE  |                  |                     |               |
|---|-----------|------------------|----------------|-----------------|------------------------|----------------|--------------------|------------------|---------------------|---------------|
|   |           | KARMA KP25.2     | QUANTUM R-TRAK | PRIDE J623 2.0  | QUANTUM EDGE 3 STRETTO | QUANTUM EDGE 3 | QUANTUM Q6 EDGE HD | QUANTUM 4FRONT 2 | QUANTUM 4FRONT 2 HD | QUANTUM Q1450 |
| Batteries (total weight of two batteries)                               |           | 26.0 kg          | 46.5 kg        | 34.5 kg         | 34.5 kg                | 34.5 kg        | 46.5 kg            | 46.5 kg          | 46.5 kg             | 46.5 kg       |
| Base (base + motors + controller)                                       |           | 35.0 kg          | 58.0 kg        | 62.2 kg         | 57.4 kg                | 62.8 kg        | 65.0 kg            | 59.0 kg          | 63.5 kg             | 88.5 kg       |
| Seating (width & depth adj + side rails + seat pan + back canes/mounts) | 12" - 16" |                  | 12.0 kg        | 12.0 kg         | 12.0 kg                | 12.0 kg        |                    | 12.0 kg          | 12.0 kg             |               |
|   | 16" - 20" |                  | 13.5 kg        | 13.5 kg         | 13.5 kg                | 13.5 kg        | 13.5 kg            | 13.5 kg          | 13.5 kg             |               |
|   | 20" - 24" |                  | 17.5 kg        | 17.5 kg         |                        | 17.5 kg        | 17.5 kg            | 17.5 kg          | 17.5 kg             | 17.5 kg       |
|   | 24" - 28" |                  | 21.5 kg        | 21.5 kg         |                        | 21.5 kg        | 21.5 kg            | 21.5 kg          | 21.5 kg             | 21.5 kg       |
| TB3 Tilt Only   |           |                  | 18.3 kg        | 18.3 kg         | 18.3 kg                | 18.3 kg        | 18.3 kg            | 18.3 kg          | 18.3 kg             | 18.3 kg       |
| TB3 Tilt & Elevate with 10" Lift  |           |                  | 39.8 kg        |                 |                        |                | 40.0 kg            | 38.5 kg          | 38.5 kg             |               |
| TB3 Tilt & Elevate with 12" Lift (iLevel)                               |           |                  |                | 40.0 kg         | 38.9 kg                | 41.5 kg        |                    |                  |                     |               |
| TB3 Recline   |           |                  | 13.5 kg        |                 | 13.5 kg                | 13.5 kg        | 13.5 kg            | 13.5 kg          | 13.5 kg             | 13.5 kg       |
| TB3 Manual Centre Mount (inc footplates + calf pads)                    |           |                  | 9.3 kg         | 9.3 kg          | 9.3 kg                 | 9.3 kg         | 9.3 kg             | 9.3 kg           | 9.3 kg              | 9.3 kg        |
| TB3 Powered Centre Mount (inc footplates + calf pads)                   |           |                  | 13.3 kg        | 13.3 kg         | 13.3 kg                | 13.3 kg        | 13.3 kg            | 13.3 kg          | 13.3 kg             | 13.3 kg       |
| TB3 Powered 70° Swing Away (inc footplates + calf pads)                 |           |                  | 13.3 kg        | 13.3 kg         | 13.3 kg                | 13.3 kg        | 13.3 kg            | 13.3 kg          | 13.3 kg             | 13.3 kg       |
| TB4 Seating System (includes all functions + foot platform)             |           |                  |                |                 | 96kg                   | 96kg           |                    | 96kg             |                     |               |

# Powered Functions Matrix

| Powered Function                          | Weight Capacity<br>(Use PWC capacity if lower) | Max Seat Size | Notes   |
|---|--|---------------|---|
| TB3 Tilt                                  | 136 kg   | 22"W x 22"D   |   |
| TB3 Tilt HD                               | 204 kg   | 32"W x 24"D   | For use with HD Base only   |
| TB2 Tilt HD                               | 272 kg   | 32"W x 28"D   | HD bases up to 204kg. Quantum 1450 up to 272kg.   |
| TB3 Tilt & Elevate with 12" Lift (iLevel) | 136 kg   | 22"W x 22"D   |   |
| TB3 Tilt & Elevate HD with 10" Lift       | 180 kg   | 24"W x 24"D   | For use with HD Base only   |
| TB3 Recline                               | 204 kg   | 32"W x 28"D   |   |
| TB3 Manual Centre Mount                   | 204 kg   | N/A           |   |
| TB3 Powered Centre Mount                  | 204 kg   | N/A           |   |
| TB3 Powered 70° Swing Away Legrests       | 136 kg   | N/A           |   |
| TB4 Seating System                        | 136 kg   | 22"W x 22"D   | For use with Edge 3, Stretto and 4Front 2 only (exc 4Front HD). Weight includes all functions and articulating foot platform. |

Note: Measurements are rounded up to one decimal place.

- Speed varies with user weight, terrain type, battery charge, battery condition and tyre pressure
- Without legrests
- Battery capacity may change when adding power positioning systems
- Weight capacity is dictated by the selection of seating
- All measurements +/- 1/8"

- Without front riggings
- Battery weight may vary +/- 1.3kg based on manufacturer. Powerchairs require two batteries.
- Flat free may be substituted for solid wheels
- 20" depth can only be achieved with extension rails and are not standard. Modifications may be needed for stump supports or elevating legrests to accommodate the extensions.

