

FUNDAMENTAL CONSIDERATIONS

Critical aspects of the scooter.

Price Range?

\$300 or less

\$500 +/-

\$700 +/-

\$900 +/-

\$1,200 +/-

\$1,500 +/-

\$2,000 +/-

\$2,500 +/-

\$4,000 +/-

\$6,000 +/-

\$8,000 +/-

\$10,000 or more

Other:

Top Speed?

- 10 mph (16kmh) or less
- 15 mph (24 kmh)
- 20 mph (32 kmh)
- 25 mph (40 kmh)
- 30 mph (48 kmh)
- 35+mph (56+ kmh) or more
- Other:

Travel Distance?

- 10 miles (16 km) or less
- 15 miles (24 km)
- 20 miles (32 km)
- 30 miles (48 km)
- 40 miles (64 km)
- 50+ miles (80km+)
- Other:

Total Weight? (Portability consideration)

- 20lbs (9kg) or less
- 20-30lbs (9-14kg)
- 30-40 lbs (14-18kg)
- 40-50 lbs (18-23kg)
- 50-60 lbs (23+kg)
- 60 lbs (27 kg) or more
- Other:

Motor Power? (Important for hills, off-road terrain, and rider weight capabilities)

- 150 watt or less
- 250 watt
- 350 watt
- 400 watt
- 500 watt
- 800 watt
- 1,000 watt
- 1,200 watt or more

Wheelchair User Considerations

The following are specific aspects to keep in mind when using a wheelchair with the scooter.

Scooter Configuration

- 1-wheel Wheelchair Attachment (designed for wheelchairs)
- 2-wheel Traditional (falls over when not mounted)
- 3-wheel Tricycle (free stands, articulates)
- Lean-to-Steer (large turning radius, 2 skateboard like wheels in front)
- Reverse Tricycle (Two steering wheels in front, one in rear)
- Other:

Starting Method

- Kick Start/Push to start
- From Dead Stop (recommended for ease of use)

Drive Wheel(s)

- Front (less traction on hills)
- Rear (more traction of hills)
- Dual (most traction)

Wheel Size?

- 5"
- 6"
- 7"
- 8"
- 10"
- 12"
- 14"
- 16"
- 18" or more
- Other:

Folding Stem?

- Yes (important for portability)
- No (harder to carry)

Adjustable Handlebar Height?

- Yes (important for proper height)
- No (typically too high)
- Designed for Wheelchair Users

Deck Height? (affects the mounting angle of the wheelchair unless using an under-mount method).

- 4" (10cm)
- 5" (13cm)
- 6" (15cm)
- 7" (18cm)
- 8+" (20 cm)
- No deck
- Other:

Kickstand Position? (important to be able to manually reach it when mounted)

- None
- Front
- Side
- Rear
- Wheeled Stand

Requires semi-permanent docking station attached the wheelchair's frame.

- Yes
- No

Battery & Motor Considerations

Battery Type?

- Lithium (most common)
- Lead-Acid (cheap, low capacity)
- Nickel-Metal Hydride (cheap, low capacity)
- Other:

Battery Voltage? (affects speed and capacity)

- 36 volts
- 48 volts
- 52 volts
- 60 volts or more
- Other:

Battery Capacity? (Amp Hours x Volts = Watt Hours)

- 150+/- Wh
- 250+/- Wh
- 350+/- Wh
- 450+/- Wh
- 550+/- Wh
- 700+/- Wh
- 900+/- Wh
- 1,200+/- Wh
- Other:

Motor Type?

- Brushless DC (BLDC, newer technology, requires controller)
- Brushed DC (older technology, 2 wires)

Gears? (affects speed and efficiency)

- 1 (or no gears)
- 2
- 3 (common)
- 4
- 5

IATA Travel Compliant? (allowed for air travel)

- Yes
- No
- Unknown

Frame & Tire Considerations

Tires Type?

- Solid (more bumpy ride)
- Pneumatic (could get flat, more comfortable ride)

Tire Width?

- Standard
- Wide
- Extra-Wide (more stable, better traction)

Brakes?

- Front (better on declines)
- Rear (skids on steep declines)
- Dual (best braking)

Electronic Brake?

- Yes (will not work when the battery dies)
- No

Mechanical Brake?

- Foot (not useful for wheelchair users)
- Drum
- Disk
- None

Front Suspension? (adds weight)

- Spring
- Hydraulic
- Air-piston
- Combination (most effective)
- None

Rear Suspension? (adds weight)

- Spring
- Hydraulic
- Air-piston
- Combination (most effective)
- None

Accessories

Operating Lights?

- Yes
- No

Seat Option?

- Yes (typically removable, costs extra)
- No

Smart Phone App?

- Yes (control features via Bluetooth)
- No

Luggage Bag/Carrier?

- Yes
- No

Comments?

Manufacturer website is <https://maxi.unawheel.eu/>

Submitted 1/27/22, 2:34 PM