

Airline Wheelchairs

FOR DISABLED PASSENGERS




Melrose
KIWI CONCEPT CHAIRS

Can I reduce cabin loading time for wheelchair users, and am I catering to their needs on long haul flights?



Let's address the facts, seating wheelchair users take staff away from other jobs and increases loading and unloading time. Both of these problems can affect scheduling and the public perception of the airline.

We can not change the aircraft design or the wheelchair user, but we have redesigned our aisle wheelchairs. We've given them new features that have been developed to assist the cabin staff with safe and speedy transfers of wheelchair users. Our design process included our engineering and fabrication departments working with six of our staff whom are wheelchair users. This group collaborated with airline flight crews to refine the designs and to provide: easier and quicker transferring, increased comfort and safety, easier pushing, maneuvering and braking, and easier to fold (folding aisle chair).

Design changes have included lowering the centre of gravity to provide a much more stable platform for wheelchair users to transfer onto, it also reduces the effort required to tilt the wheelchair back allowing the front castors over the gap between the sky bridge and the aircraft. Although the seat is lower the handles have remained at the same heights so cabin staff don't have to bend.

Other changes include the redesign and placement of the foot operated lockable brake for both passenger safety and cabin staff usability.

MELROSE AIRCRAFT/AIRPORT WHEELCHAIR MODELS

Melrose Passenger Transit Wheelchair - for use around the terminal up to the aircraft door.

Melrose Fixed Aisle Wheelchair - for use from the aircraft door to the aircraft seat.

Melrose Folding Aisle Wheelchair - onboard aisle chair to provide mobility about the cabin during long flights.

Melrose Folding Lift Aisle Wheelchair - onboard raising aisle chair to provide mobility about the cabin during long flights.





90008

PASSENGER TRANSIT WHEELCHAIR

The Melrose Airport Terminal Wheelchair transports wheelchair users from the check-in or even the carpark to the aircraft door.

An assistant is required to push this wheelchair so it has a full width padded push bar. Large anti tip bars extend behind the rear wheels and can be used to help tilt the wheelchair's front castors up over curbs.

As a fixed frame (non folding) wheelchair, it provides a longer life cycle because the frame has no moving parts. The frame is hand made from aircraft grade aluminium and is lightweight and rust resistant. Many of our components are made inhouse to ensure we maintain exact tolerances from the highest quality materials.

All four wheels are solid, these provide less rolling resistance for easier pushing and maneuverability, they also require very little maintenance over their life.

We provide a cushion for skin protection, the skin on a disabled



STANDARD SPECIFICATIONS

Lightweight aluminum frame
Seat Width 520mm
Seat Depth (length) 430mm
Cushion with removable wipe to clean cover
Adjustable height, flip up, foot-plates
Lift-back armrests
6" solid wide castors, 18" solid rear wheels
Hand operated drum brakes
Seat-belt with car style buckle
Under-chair luggage carrier
Max user weight 200kg
Five-year frame warranty

OPTIONS AND ACCESSORIES

Fluro and Metallic colours
Seat-belt with velcro or plastic clasp fastening
Airline or Airport logo printed on seat back

passenger can be susceptible to pressure areas, abrasion and bruising, after a short period on hard surfaces.

Armrests provide support for passengers with poor or no balance, they also allow the passenger to pressure relief if required. Our armrests rotate back out of the way to allow egress from the side.

A Hip Seat-belt provides extra security for passengers. It also prevents the pelvis from sliding forward and rotating the passengers natal cleft on to the seat base.

Flame retardant soft trim materials can be used and can be certified to FAR23.853(a) and FAR25.853(a) App F Part I(a)1(ii) if required.

We can finish the chair in a large range of durable heat resistant powder-coat colours and we can also have your airline or airport logos printed onto the seat back.





90000

FIXED AISLE WHEELCHAIR

While moving passengers from the aircraft door to the aircraft seat, the Melrose Aisle Chair uses velcro fastening on webbing straps to secure the passenger, although seat belt type buckles are also an option.

Design changes have included lowering the centre of gravity to provide a much more stable platform for wheelchair users to transfer onto, it also reduces the effort required to tilt the wheelchair back allowing the front castors over the gap between the sky bridge and the aircraft. Although the seat is lower the handles have remained at the same heights so cabin staff don't have to bend.

All four wheels are solid, so there is no down time repairing punctures. The frame is made from aircraft



grade aluminium and is lightweight and rust resistant.

We can finish the chair in a large range of powder-coat colours and we will also have your airline or airport logos printed onto the seat back.

Other options include the addition of a hand operated brake for safe control when negotiating inclines on the sky-bridge.

STANDARD SPECIFICATIONS

- Lightweight aluminium frame
- Wide range of colours
- Adjustable foot-plate height
- Flip up foot-plates
- 6" wide solid castors
- 12" solid rear wheels
- Max user weight 120kg
- Foot operated push to lock brake
- Black fabric sling, cushion and back
- Velcro leg strap and seat restraining straps
- Five-year frame warranty

OPTIONS AND ACCESSORIES

- Fluro and Metallic colours
- Hand operated drum brakes
- Seat-belt type buckles on restraining straps
- Airline or Airport logo printed on seat back





90005

FOLDING AISLE WHEELCHAIR

The Melrose Folding Aisle Chair is an onboard aisle chair that provides mobility about the cabin during long flights.

It collapses down to 230mm height, 380mm width and 736mm length, this allows it to be safely stowed into most aircraft lockers.

The frame is hand made from aircraft grade aluminium and is lightweight and rust resistant. Many of our components are made inhouse to ensure we maintain exact tolerances from the highest quality materials. Flame retardant soft trim materials can be used and can be certified to FAR23.853(a) and FAR25.853(a) App F Part I(a)1(ii) if required.

All four wheels are solid, these provide less rolling resistance for easier pushing and maneuverability up and down the aisles.

We can finish the chair in a large range of powder-coat colours and we will also have your airline or airport logos printed onto the seat back.



STANDARD SPECIFICATIONS

Lightweight aluminium frame

Folded Dimensions:

Height 230mm

Width 380mm

Length 736mm

Weight 8.1kg

Max user weight 120kg

Solid roller-blade castors

4" wide solid rear wheels

Foot operated push to lock brake

Alloy seat with cushion and fabric back

Restraining straps with composite clasp

Five-year frame warranty

OPTIONS AND ACCESSORIES

Fluro and Metallic colours

Hand operated (D's Locks) brakes

Seat-belt type buckles on restraining straps

Airline or Airport logo printed on seat back





90007

FOLDING LIFT AISLE WHEELCHAIR

The Melrose Folding Lift Aisle Chair is an onboard aisle chair that provides mobility about the cabin during long flights.

It collapses down to 350mm height, 380mm width and 745mm length, this allows it to be safely stowed into most aircraft lockers.

The seat lift hoists the user from 480mm up to 660mm allowing easier access over non folding aircraft seat armrests.

The frame is hand made from aircraft grade aluminium and is lightweight and rust resistant. Many of our components are made inhouse to ensure we maintain exact tolerances from the highest quality materials.

Flame retardant soft trim materials can be used and can be certified to FAR23.853(a) and FAR25.853(a) App F Part (a)1(ii) if required.

We can finish the chair in a large range of powder-coat colours and we can also print your airline logo onto the seat back.



STANDARD SPECIFICATIONS

Lightweight aluminium frame

Folded Dimensions:

Height 350mm

Width 380mm

Length 745mm

Weight 17.2kg

Seat Height from floor:

480mm up to 660mm

Max user weight 150kg

Foot operated push to lock brake

Alloy seat with cushion and fabric back

Restraining straps with composite clasp

Five-year frame warranty

OPTIONS AND ACCESSORIES

Fluro and Metallic colours

Hand operated (D's Locks) brakes

Seat-belt type buckles on restraining straps

Airline or Airport logo printed on seat back



MELROSE WHEELCHAIRS

Melrose Kiwi Concept Chairs Ltd. - formed in 1992 in Christchurch, New Zealand by Philip Melrose, Annette Melrose and Mike Turner.

Melrose Kiwi Concept Chairs USA Inc. - formed in July 2008 in Fresno, California, USA.

Melrose Wheelchairs is a wheelchair manufacturing company that build custom, made to measure wheelchairs for long term wheelchair users (ie paraplegics, amputees). They also build sports wheelchairs, particularly wheelchairs for rugby, tennis, basketball, bowls and lacrosse. These wheelchairs are also custom made and are built to the customers specifications as required by the athlete, the sport, and the position they play. One off specialty wheelchairs or large multiple run orders can all be accommodated. Melrose Wheelchairs also produce and supply wheelchair parts to other wheelchair manufacturers.

History

Philip Melrose, innovator and designer, had an offshore powerboat accident in 1991, which left him a paraplegic. After a number of frustrations with his first wheelchair he decided to build one for himself out of lightweight titanium. This was successful so he gradually had more built as he sold them to friends and acquaintances.

The small part time garage interest became a business when Mike Turner joined Phil to do the fabrication. It has slowly grown to a medium size business with it's own factories in both Christchurch, New Zealand and in Fresno, California. The business has developed a reputation worldwide for its rugby wheelchairs.



Philip Melrose (seated), Annette Melrose and Mike Turner

Melrose Wheelchairs Service Contract

Ask us about a comprehensive maintenance and repair service to maintain all your aisle chairs on a regular ongoing basis.



PO Box 35059 Shirley, Christchurch

109 Sawyers Arms Road, Papanui, Christchurch 8052, New Zealand

Phone +64-3 354 5616 • Fax +64-3 354 4356 • Email sales@melrosechairs.co.nz • www.wheelchairs.co.nz