Ergonomic Assessment

By Brendan Grimes
Certified Professional Ergonomist

Pago Matrix Advance Medium-Back Heavy-Duty Chair

PAMAT3LMBK

Suited for people 167cm or taller.

*provided seat base measurement is met. See page 2 for guidance.

ADJUSTABLE BACK TILT

ADJUSTABLE BACK HEIGHT

ADJUSTABLE SEAT TILT

AFRDI
STRUCTURAL CERTIFICATION

AFRDI
SUSTAINABILITY CERTIFICATION

130KG
WEIGHT CAPACITY

Summary

The chair offers a comfortable and supportive seat with good ergonomic features, adjustability and comfort. Seat height adjustment allows for people about 167cm (5'5.5") or taller, provided seat base measurement is met*. The seat base offers generous width, while the chair is stable and sturdy, well upholstered and has good fittings. It would be suitable in industrial settings, as well as the home office, and is able to withstand high usage.

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AS/NZS 4438:1997 compliance[1] – Yes
AFRDI Rating[2] – Blue Tick Level 6 (Heavy Commercial); Green Tick Certification

Posture Support

Comfortable compact seat with reasonable cushioning and comfort. The seat base has adequate foam thickness (60mm) of moulded foam for comfort and support. There is a generous lumbar section on the backrest, which is height adjustable to suit most users.

Adjustability

The seat height can be adjusted from 450mm to 565mm, and tilts forward about 40mm. The backrest has tilt capacity, including lockable and reclining positions, with multiple settings. Backrest tilt range between 85 to 110 degrees. All controls are easy to operate and accessible whilst sitting in the seat. It has 'flick' levers, with a positive 'click' to reinforce selection.

Stability

It appears very strong and stable and should withstand prolonged use. It appears it will have good durability. There is no side wobble or rocking back and forward. This chair has a 130kg weight capacity, which means it is capable of withstanding heavier individuals. The chair is on a 5-castor solid plastic and steel pedestal base which is strong and stable.

Upholstery, Covering, Corners and Edges

The seat base and backrest are fabric and excellently upholstered and finished. The corners and edges are well-rounded and smooth. There are no sharp projections, sharp edges or rough surfaces evident. Edges accessible to users are rounded with a minimum radius of 2mm. The ends and feet of tubular metal components are capped/closed and finished smoothly. It appears to have adequate air/water vapour permeability, except where non-permeability is required for hygiene or ease of cleaning. The foam thickness is acceptable.

Dimensional Requirements / Anthropometrics[3]

Seat height adjustment from 450-565mm allows for people about 167cm (5'5.5") or taller. Seat depth is 500mm, suitable for people with a measurement of 540mm or more from their buttocks to the back of the knee (see note on Seat Depth measurement below). The width of the seat base is 535mm, essentially accommodating the whole population (at least 95%). The backrest height at 435mm (with adjustment to 505mm) and 450mm wide is a small-medium backrest suitable for most of the population.

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Seat Depth
While seated, measure from your buttock to the back of your knee, then subtract 40mm.

1 AS/NZS 4438:1997 Height-adjustable swivel chairs: Relevant standard for adjustable swivel office chairs. 2 AFRDI Rating: Rated by Australasian Furnishing Research & Development Institute Limited, independent tester/certifier of furniture products. Blue Tick Certification ensures stability, durability, ergonomic dimensions, safety and strength and ignition mitigation sources. Green Tick Certification means material is sustainably sourced, requires low operating energy, waste is minimised during production and the ability to recycle components at end of life of product is maximised. 3 Anthropometrics: Based on data from S Pheasant, Bodyspace, Anthropometry, Ergonomics and Design, 1988; World Engineering Anthropometry Resource.