Ergonomic Assessment

By Brendan Grimes
Certified Professional Ergonomist

J.Burrows Bathurst Racer High-Back Chair

JBBATHCHBK; JBBATHCHRD; JBBATHCHBE; JBBATHCHGY

Suited for people 170cm or taller.

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

ADJUSTABLE CHAIR TILT

PADDED FLIP-BACK ARMRESTS

120KG
WEIGHT CAPACITY

Summary

A reasonably comfortable chair, with good cushioning in the base, high back and fixed armrests. The lumbar section is not suitable for all. Suitable as a gaming chair for shorter-term use (max. 5 hours). Seat height adjustment allows for people about 170cm (5'7") or taller, provided seat base measurement is met*. The chair is well finished and has good fittings. For home use only. Not for commercial use.

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AS/NZS 4438:1997 compliance[1] – Yes
AFRDI Rating[2] – Not rated for commercial use

Posture Support

The seat base has a contoured base, with about 80-100mm thick cushioning and a backrest that provides reasonable support and comfort. The headrest appears to provide good support, while there is support for the thighs in the seat. The backrest has a reasonably thick and contoured lumbar section, but it is a bit low, so it would not suit all users.

Adjustability

The seat height can be adjusted from 475mm to 570mm. The chair can be tilt adjusted but does not appear to lock in place. Armrests can be lifted in line with the backrest. When in use, they sit at 245mm above the seat. There is no vertical adjustment of the backrest. Most controls are easy to operate and accessible whilst sitting in the seat.

Stability

It appears reasonably strong and stable, but there is minimal rocking back and forward. This chair has a 120kg weight capacity, which means it is capable of withstanding heavier individuals. The chair is on a 5-castor hard plastic and steel pedestal base and pillar, which is strong and stable.

Upholstery, Covering, Corners and Edges

The seat base and back rest are PVC, polyurethane (PU leather), foam cushioning, and well upholstered. 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 in the seat is good.

Dimensional Requirements / Anthropometrics[3]

Seat height adjustment from 475-570mm allows for people about 170cm (5'7") or taller. Seat depth is 460mm, suitable for people with a measurement of 500mm 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 490mm, and the width between the armrests is 490mm, essentially accommodating the whole population (at least 95%). The backrest height at 735mm and 480mm wide is a substantially sized high 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.