



SAVI - Independent Ergonomic Chair Assessment

Date: May 2026

Executive Summary

Advanta engaged Dane Casserly Advisory Services (Exercise and Sport Scientist / Ergonomic Specialist) to conduct an independent ergonomic assessment of the SAVI task chair. This assessment reviews chair dimensions, available adjustment ranges, and control usability in relation to relevant anthropometric data and accepted ergonomic principles.

This assessment is limited to the chair itself and does not include evaluation of an individual user or a specific workstation environment.

Dane Casserly has more than 15 years of experience conducting ergonomic assessments and providing recommendations, with a particular focus on office ergonomics. He is a current HFESA member, a committee member of the WA branch, and a former WA professional development coordinator.

Methodology

This assessment was conducted through an independent review of the chair's physical dimensions, adjustment ranges, control layout, and functional features against accepted ergonomic principles and relevant anthropometric considerations for office seating. The review considered the chair's capacity to support neutral posture, user adjustability, lumbar support, pressure distribution, dynamic sitting, and compatibility with desk-based work. Findings are based on observation and measurement of the chair only and do not include assessment of an individual user, specific task demands, or workstation configuration.

General Ergonomic Design and Adjustability

The SAVI task chair demonstrates a sound ergonomic design and provides multiple adjustment features intended to accommodate a broad range of users. Adjustment controls are accessible from the seated position, logically located, and consistent with commonly accepted ergonomic control conventions. This supports correct postural set-up and promotes ease of adjustment during use.

The seat height adjustment is operated via a rear-facing lever positioned on the right-hand side of the chair. The upward lifting action reflects expected control movement, enabling intuitive operation while seated.



Additional adjustment controls—including the seat pan depth adjustment and backrest/seat pan tilt mechanism—are positioned on the left-hand side. Control orientation follows a consistent clockwise-facing layout, reducing cognitive load and likelihood of adjustment error. The backrest/seat pan tilt lever is forward-facing while the seat pan lever is in a neutral/symmetrical shape.

When engaged downward, the backrest/seat pan tilt mechanism allows locking into one of four preset working postures. When left unlocked, the mechanism enables weight-responsive movement, supporting dynamic sitting and postural variation, which is consistent with ergonomic recommendations for prolonged seated tasks.

The SAVI is rated for users up to 140kg, and comes with a 5 year warranty.

Chair Features	Comments
Seat height	The seat height adjustment range is 450–545mm and is controlled via a right-hand side, rear-facing lever. This control is appropriately located for frequent adjustment and supports achieving a neutral seated posture with feet flat on the floor and knees flexed to approximately 90 degrees. The seat height adjustment range of 450–545 mm is consistent with commonly accepted ergonomic ranges for task seating and should accommodate a broad proportion of adult users when used with appropriate desk height and foot support as needed.
Seat pan depth	The seat pan depth adjusts between 440–520mm via a symmetrical lever with four lockable positions and spring-assisted movement. Lever placement minimises forward reach beneath the seat pan and is suitable for lower-frequency adjustment. The available range supports effective lumbar contact while maintaining appropriate clearance (approximately 2–4 cm) behind the knees to support circulation and comfort for users, when adjusted correctly.
Seat width and cushion	The seat pan width is 520mm and incorporates a waterfall (rounded) front edge with slightly raised lateral contours, creating a shallow concave profile. This design provides adequate hip clearance and supports comfort during extended sitting, while allowing for postural movement. The seat cushion uses medium-soft density foam with a total height of 120mm, contributing to even pressure distribution across the seated surface.
Backrest design	The backrest height measures 580mm and is finished in a 3D air mesh material that provides breathability and a degree of elastic support. The height and width profile will suit a broad adult user range, providing support from the lumbar region through to the upper thoracic area. The backrest narrows from the lumbar region (480mm) toward the thoracic region (430mm), supporting natural spinal contours.
Lumbar support	The lumbar support offers height adjustment from approximately 100–121 mm at the lowest setting to 170–280 mm at the highest setting. This adjustment range is sufficient to accommodate a broad adult user range. Adjustment is operated via a circular lift mechanism, enabling the lumbar contour to be positioned to suit individual anthropometry and preferred seated posture.



Armrests	Armrest height adjusts between 260–330 mm using a button-activated mechanism with seven lockable positions. Button placement allows adjustment with minimal effort. Armrest width offers an internal range of 480–500 mm via lateral slide adjustment, while armrest length adjusts between 240–290 mm across five semi-lock positions. The molded armrest surface is convex and provides forearm support while maintaining functional access to the work surface and desk edge.
Backrest tilt	The backrest tilt range is approximately 90–125 degrees and is controlled via a left-hand-side, forward-facing lever with four lockable positions. Unlocking requires deliberate user weight, which reduces the likelihood of inadvertent adjustment. When left unlocked, the mechanism permits weight-responsive movement, supporting dynamic sitting and postural variation in accordance with ergonomic recommendations for prolonged seated work. Lever placement minimises reach beneath the seat pan and aligns with expected ergonomic control operation, supporting ease of use.

Disclaimer: This assessment is based solely on an evaluation of the chair. A separate ergonomic assessment is required to determine the chair's fit and suitability for an individual user in their work or task setting.

Prepared by: Dane Casserly, Bachelor of Exercise and Sport Science

