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Introducing the **SmartSeat™** from CareFlex:  
**Experience a Revolution  
in Specialist Seating**







## About CareFlex

CareFlex has produced innovative specialist seating in the UK since 1995. We've built an enviable reputation by listening carefully to our customers and manufacturing progressive products of the highest quality, designed to meet the needs of patients and care providers alike.



# Evolution of the SmartSeat™

## Advanced Technology and Materials

Our commitment to progress in specialist seating means we are always masterminding new ways to solve old problems in chair design. So when it came to engineering our latest chair, we worked with Europe's leading automotive seating consultants to make it the most sophisticated chair on the market. The precision technology, cutting-edge design and user insights gained from the healthcare, automotive and aviation industries have enabled us to continue to push the boundaries of what's possible in specialist seating.

## Revolutionary, Patented Design

After many months of meticulous designing, trialling and learning, we have developed a chair that uses technology unseen in our industry until now. Along with unprecedented advances in patient support and practical everyday usage, our new chair incorporates 3 new design patents to provide more features as standard and greater versatility than ever before.



## Features to look out for:

1. **Unique stowable and adaptable footplate** – can be stowed or deployed at any angle of chair tilt without disruption to the patient, whilst providing customised comfort and support
2. **Precision engineered floating-tracking legrest** – comes with our new 'floating tracking technology' for optimum pressure and posture management
3. **Integral seat-width adjustment system** – incorporated into the chair frame; no need for additional cushions or tools for adjustment

We're proud to introduce you to the SmartSeat: the first chair of its kind. It represents the pinnacle of our knowledge and expertise today, and is set to lead the design of tomorrow.





# The new **SmartSeat™** from CareFlex: Revolution from the footplate up



## Neat-Fitting, Hook & Loop-Free Covers

**Adapting to a changing world:** All SmartSeat materials and upholstery are designed to meet the increasing demands of infection control. Its neat-fitting covers use J-strip technology from the automotive industry instead of the usual hook and loop fastenings, meaning less risk of infection and a smarter finish to the chair. All materials are built to be resistant to moisture ingress and are easy to clean.



## Easy Seat-Width Adjustment – No Extra Supports Required

**Advanced engineering:** By adapting automotive technology, the SmartSeat offers tailored seat width adjustment built into the chair itself – it is also designed to cope with off-set postures without the need to store additional supports. The simple, single-handed adjustment system makes the chair easy to use and ideal for multiple users, with no need to remove upholstery or use tools for adjustments. In addition, both arms are removable as standard, allowing easy access and transfer from both sides, at no extra cost.

*This is the medium sized chair*

*Tilt-in-Space Functionality*



## Floating-Tracking Legrest

**Specialist technology:** The legrest of the SmartSeat uses 'floating tracking technology' to control its angle and extension. This system allows the legrest to smoothly follow the biomechanical movement of the lower legs as they pivot at the knee joint, giving uniform support to the lower legs and knee whilst preventing drag to the skin. The result is a reduction in discomfort and adverse pressure build-up for the occupant.



## Integral Footplate

**Unique design:** The SmartSeat is the first chair to offer an integral footplate that can be deployed at any point in the range of motion and stows away seamlessly behind the legrest. This makes it safer and easier for the occupant to rise to standing for greater independence. The footplate can also be extended to accommodate larger feet, and its angle can be adjusted to allow the client to achieve maximum comfort when their legs are elevated.

## Advanced Materials

**Responsible sourcing:** We aim to produce products that are easy to use and responsibly made. Accordingly, the SmartSeat is built from fully recyclable materials (such as EPP foam), which also give higher performance in the field. So, from neat finishes, to water-proof properties and the ability to replace individual elements of the chair, you can be confident that your SmartSeat will perform to the highest standards every day.





# SmartSeat™: Precision Engineered with CareFlexibility

## For Different Environments

The SmartSeat is adaptable to both individual and multi-user environments – from care homes to specialist hospital wards, and in the home. Both arms quickly and easily detach from the chair without the need for tools, making it suitable for left or right side transfer. Plus, the SmartSeat can cope with varying hip shapes and sizes, as well as off-set postures – without the need for storage of additional blockers or hip supports.

## For Clients with Varying Needs

The SmartSeat keeps users in a good midline position throughout the full Tilt-in-Space motion, supporting their posture and relieving pressure all over. It's a flexible chair, suitable for those with congenital conditions (e.g. Cerebral Palsy), neurological conditions (e.g. MS, MD, MND), early stage HD, lower limb amputees, those in stroke rehabilitation or with learning difficulties, and the frail and the elderly.

It is especially well adapted where:

- easy transfer is critical
- infection control is an issue
- posture, pressure and support are important in equal measure



*This is the small sized chair*

## Choose from 30 Colour and Fabric Options

When ordering your SmartSeat, you can select your cover from our standard range of stylish fabrics and colours. Vapour-permeable fabric can also be used for the seat, legrest, backrest and arms – a stretchy material that maximises the pressure relief qualities of the SmartSeat's memory foam and WaterCell Technology, and makes for easy maintenance. All our materials are built to be resistant to moisture ingress, are easy to clean, and meet crib-5 fire retardancy standards.



## Specialist Options & Accessories

The SmartSeat can be tailored to the specific needs of any individual through our range of advanced accessories.



### Pommel

The pommel supports the whole knee, preventing the legs from pinching together.



### Adjustable Laterals

Answers all issues of support pad thickness and placement with easy to use, tool-free width and height adjustment.



### Tray

A plastic tray with low profiled edges to aid activities and leisure.



### Flat Back

A simple and supportive cushion for the middle of the SmartSeat's three section back; a good choice for users who can maintain lateral control themselves.



### Contoured Back

A sculpted cushion designed to give moderate postural support to the trunk and to help maintain the occupant in a midline position in the chair.



### Soft-Profiled Headrest

This Dacron-filled cushion conforms to the user's shape and stabilises head position without generating pressure to the back of the head.



### Shallow and Deep Headrests

A simple, soft and pliable cushion that conforms to the user's head for ultimate pressure relief.



### In-Line Headrest

Provides full cranial support and incorporates memory foam to reduce the risk of pressure problems at the sides of the head; also aids visibility to either side.



### Basic Pelvic Belt

A simple webbing belt, ideal for use during portering.



### Pelvic Belt with Sub-ASIS Pads

Helps maintain pelvic position with padding to help reduce pressure at the front of the pelvis and hips when in use.



### 4-Point Pelvic Belt with Sub-ASIS Pads

Provides greater control and padded support for the sitting posture.



### Chest Harness

Provides comfort and support whilst not restricting active positioning. The lower straps have multi-direction buckles which swivel to avoid twisting and provide comfort.



### Sternum Harness

Provides greater upper trunk stability but allows for user movement; particularly useful for patients who lean forwards heavily in the chair.



### Groin Harness

A positioning aid to provide maximum pelvic control and prevent the user from sliding forward in the seat.



### Manual or Motorised

Tilt-in-Space and legrest functions can be operated by either manual gas action control or 24V DC battery controlled motors.