

The leading clinically evidenced¹ powered hybrid support surface is now **more sustainable** - helping **reduce pressure ulcer incidence** and **releasing time to care**², while **lowering the environmental impact**.

Dyna-Form[®] Mercury Advance

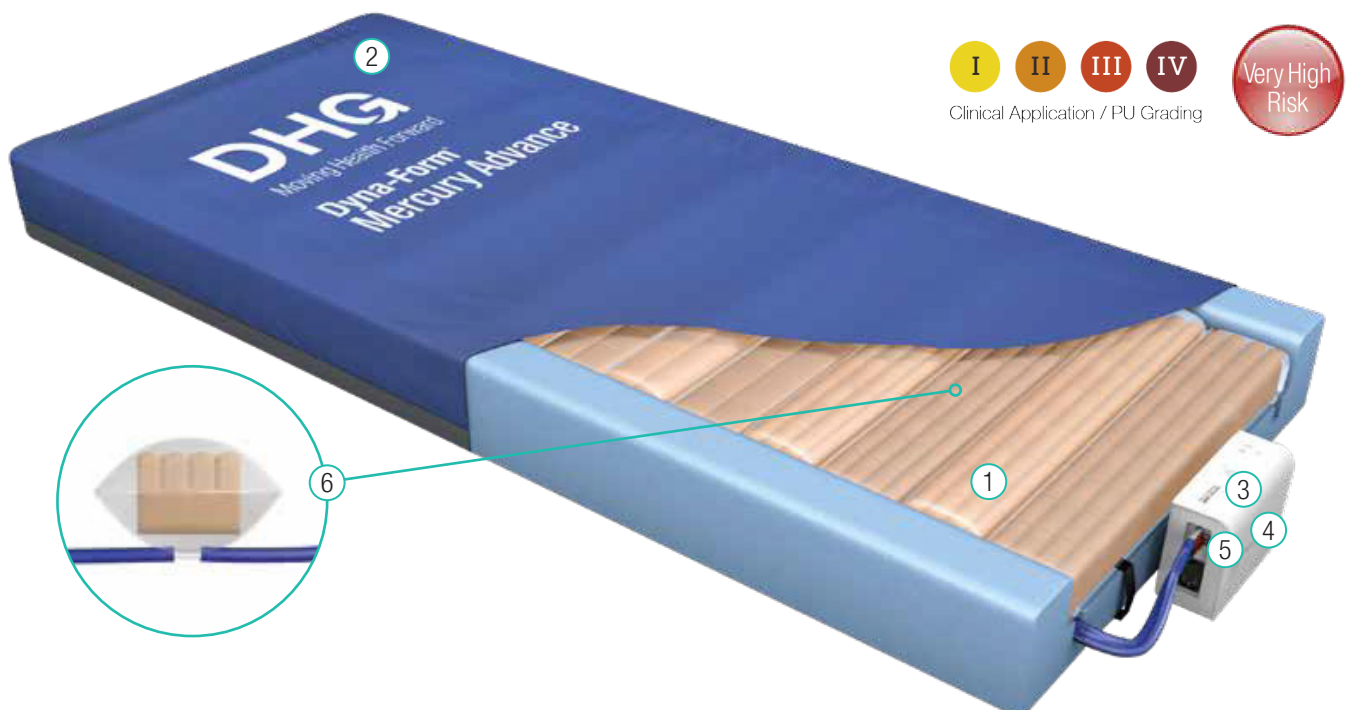
with orbis[™] foam

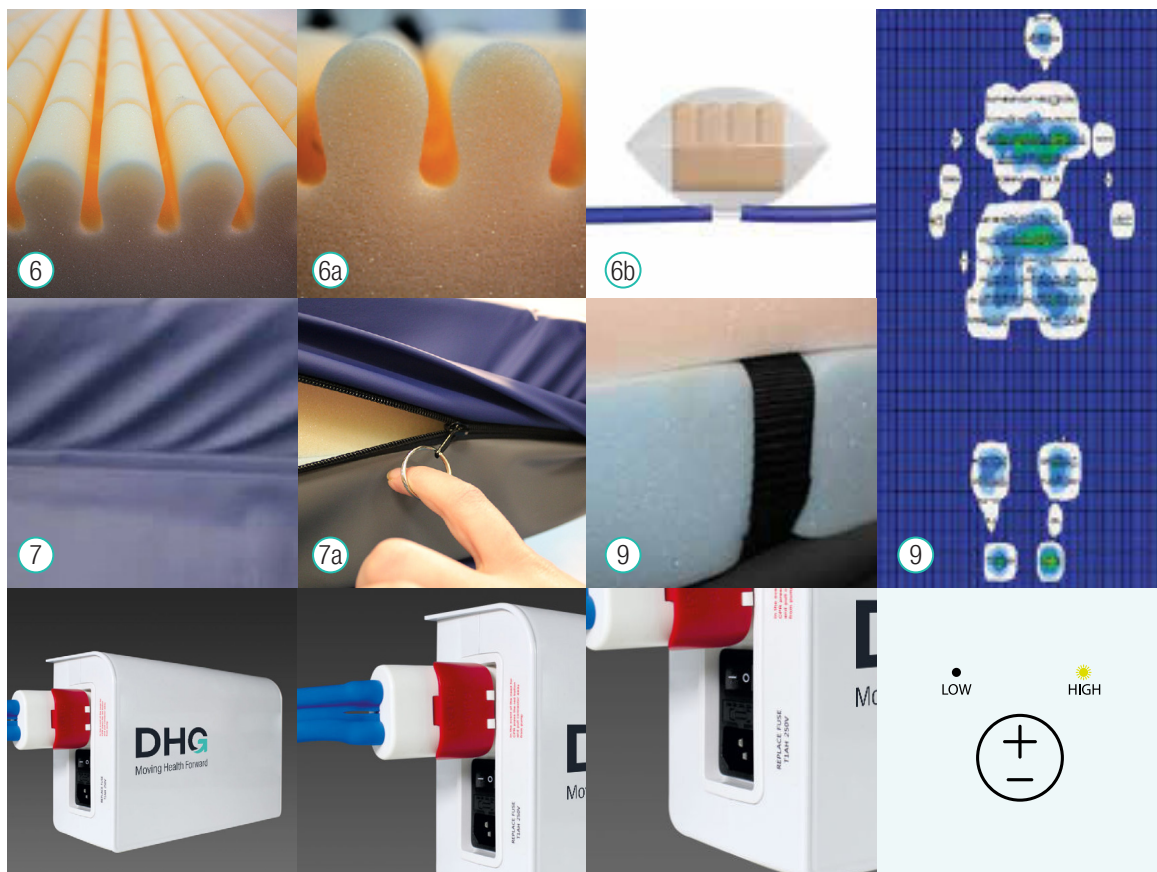
DHG's Dyna-Form Mercury Advance support surface, proven to deliver positive clinical and health economic outcomes², is now the **first powered hybrid support surface to be made from sustainable foam** - providing a solution that benefits end-users, caregivers, healthcare systems, and the wider environment.

DHG have partnered with the Vita Group to utilise Orbis[™] foam, Europe's first collection of sustainable polyurethane foams. Engineered from Renuva[™] polyols, Orbis[™] is a breakthrough in foam technology that **promotes circularity and sustainability** by actively **preventing post-consumer products from contributing to landfill**, or facing incineration. These post-consumer mattresses are then broken down into their constituent chemicals to enable re-use in the production of new polyurethane foam, creating a **circular solution**.

This new technology generates a **3% (1.2kg) reduction in CO₂ emissions per mattress**³ during its production, whilst **one mattress is recycled per every 16 new Mercury Advance mattresses** avoiding incineration that would produce approximately 22.8kg CO₂.⁴ As a result, each Dyna-Form Mercury Advance mattress contributes a **saving of 2.6kg of CO₂ emissions** when compared to a powered hybrid support surface made from traditional polyurethane foam.

The **Dyna-Form[®] Mercury Advance** is a powered hybrid mattress replacement system, offering both static pressure redistribution and alternating pressure relief. It is specifically designed for patients considered to be at **'Very High Risk'** of pressure ulcer development. Offering high levels of patient comfort, this unique system has the facility to 'step up' to that of a dynamic mattress when clinically required. Similarly, the mattress function can be 'stepped down' as the patient's condition improves.





Features

- ① Combined foam and dynamic mattress technology
- ② Fixed head section
Static mode
- ③ Pressure selection mode
2-in-1 mattress capability
Clinically proven foam mattress
Optional securing straps
- ④ Easy use power unit
Audible-visual warning system
- ⑤ Easy deflate CPR connector valve
- ⑥ Foam cell technology within a cycle of operation
6a: Close up shot of CME foam castellations within the cell
6b: Ability to change every individual cell, providing excellent cost management opportunities
- ⑦ Minimal weld design with protective zip flap cover, thus preventing ingress or harbouring of skin flora and other bacteria
7a: "Ring Pull" zip design to aid arthritic hands or other disabilities
- ⑧ Latest pressure mapping, highlighting system in mid cycle, substantiating exceptional pressure re-distributing capabilities
- ⑨ Cell structure, secured to the foam mattress core, preventing unwanted movement

Benefits

- Provides the ability to 'step up' and 'step down' care to that of the users clinical requirements
- Maintaining head and shoulder stability
- For rapid transfer or cleaning procedures
- Providing ultimate patient comfort, without affecting care procedures
- Minimises demands on logistics, decontamination and repair costs
- Over 25 clinical studies on the Mercury Advance
- Ensures safe use for both patient and carer
- Designed with the Community Care environment in mind
- Flashing LED and audible warning system alerts the carer/individual to low cell pressure or system failure
- Allows rapid deflation within 10 seconds

Technical Specifications

Product Codes	MAS12, Full System MAT12, Mattress Only PUM12, Pump Only
Product Dimensions	Standard Size: 198cm (L) x 88cm (W) x 15cm (H) Other sizes available on request
Risk Category	Very High Risk
Maximum User Weight	254kg
Weight of Product	13.3kg mattress 1.7kg power unit
Foam Density & Nominal Hardness	Foam Insert - 38-40kg/m ³ Nominal Hardness - 120N Blue CME Foam - 38-40kg/m ³ Nominal Hardness - 200N
Cycle Time	10 minutes
Voltage	220-240VAC, 50/60Hz
Power Consumption	10VA



1. Based on total number of published clinical studies. Contact DHG for full references of all Dyna-Form Mercury Advance published papers.
 2. Fletcher, J., Tite, M., & Clark, M. (2016). Real-world evidence from a large-scale multisite evaluation of a hybrid mattress. *Wounds UK*. 12(3):54-61.
 3. Vita Group Data (2025). Life cycle assessment of Orbis foam manufactured with Renuva technology. Data compared with conventional polyurethane foam manufacturing.
 4. Estimation based upon 1.9kg CO₂ per kg of foam incinerated.