



The Hospital Bed Hydraulic 5 Function S-5 (VM-BHH5F) is a five-function medical bed with hydraulic height adjustment (450–800mm), gas spring-controlled backrest (0–70°) and kneerest (0–35°), Trendelenburg and Anti-Trendelenburg tilt (0–16°), and a 200mm bed-end extension. Safe working load: 250kg. Bed platform: 1960×900mm. Overall dimensions: 2210×990mm. Height adjustable via hydraulic pump. Backrest and kneerest operated by gas spring. Central locking castors. Aluminium alloy side rails (1 set) and HP-4 head/foot boards (1 set) included. Quilt shelf standard. Backrest angle indicator and fifth castor optional.

Five-Function Hydraulic Adjustment System for Clinical Positioning

The S-5 (VM-BHH5F) is a five-function hydraulic hospital bed designed for acute care wards, step-down facilities, and frail care environments where flexible patient positioning is required for clinical management, pressure injury prevention, and nursing access. The five core functions are hydraulic height adjustment (450–800mm via hydraulic pump), backrest elevation (0–70°, gas spring), kneerest elevation (0–35°, gas spring), Trendelenburg and Anti-Trendelenburg tilt (0–16°, gas spring), and a 200mm bed-end extension for patient length accommodation. Height adjustment across a 350mm range allows the bed to be lowered for patient transfer safety and raised to ergonomic nursing height, reducing clinician musculoskeletal load during patient care procedures.

The Trendelenburg and Anti-Trendelenburg function provides positional management for conditions including postural hypotension, post-procedural positioning, and aspiration risk reduction. All adjustment mechanisms are rated to a 250kg safe working load — a specification that extends clinical applicability to heavier patients without requiring a separate heavy-duty bed configuration.

Gas Spring and Hydraulic Controls with Central Locking

Backrest and kneerest adjustment, as well as Trendelenburg and Anti-Trendelenburg tilt, are all controlled by gas spring mechanisms — providing smooth, stepless adjustment without the mechanical play associated with manual ratchet systems. The hydraulic pump controls height adjustment, delivering stable, controlled elevation that can be locked at the desired working height. Central locking of all castors is a standard feature, securing the bed in position during patient care and transfers and eliminating the need to individually lock each castor wheel. A backrest angle indicator is available as an optional feature, providing a visual reference for clinicians managing patients with position-dependent clinical conditions such as dysphagia or respiratory compromise. A fifth castor is optionally available to improve stability during bed movement across ward environments.

Construction, Dimensions, and Included Accessories

The bed platform measures 1960×900mm, with an overall bed length of 2210mm and width of 990mm — standard acute care ward dimensions compatible with standard hospital mattresses. Structural bed height without mattress is 450mm at lowest position. Safe working load of 250kg is rated across the full range of positions and functions. Included as standard: one set of HP-4 head/foot boards and one set of aluminium alloy side rails with folding/removable bedside function for patient access and fall prevention. A quilt shelf is included as a standard fitting. Bed-end extension operates by manual operation and is listed as an optional configuration. Estimated bed weight is 125kg. Available in South Africa from Vital Medical, the VM-BHH5F is suited to general medical wards, rehabilitation units, frail care facilities, and step-down care environments requiring a full five-function hydraulic bed with a high safe working load.

TECHNICAL SPECIFICATIONS TABLE

No.	Specification	Detail	Configuration
1	Length	2210mm (± 10 mm)	Standard
2	Width	990mm (± 10 mm)	Standard
3	Bed platform size	1960×900mm (± 10 mm)	Standard
4	Height range	450-800mm (± 10 mm)	Standard
5	Backrest angle	0-70° ($\pm 2^\circ$)	Standard
6	Kneerest angle	0-35° ($\pm 2^\circ$)	Standard
7	Trendelenburg / Anti-Trendelenburg	0-16° ($\pm 2^\circ$)	Standard
8	Safe working load	250kg	Standard
9	Bed end extension	200mm (± 20 mm)	Standard
10	Backrest control	Gas spring	Standard
11	Kneerest control	Gas spring	Standard
12	Height adjustment	Hydraulic pump	Standard
13	TR & ATR control	Gas spring	Standard
14	Castor locking	Central locking	Standard
15	Quilt shelf	Included	Standard
16	Bed end extension operation	Manual	Optional
17	Backrest angle indicator	Available	Optional
18	Fifth castor	Available	Optional
19	Head/foot board	1 set — HP-4	Included
20	Side rails	1 set — Aluminium alloy	Included
—	Estimated bed weight	125kg	—
—	Bed height (no mattress)	450mm	

SKU: VM-BHH5F