

## TECHNICAL SPECIFICATION OF DIAMOND STRETCHER – MT-416

**TECHNICAL NAME:** HOSPITAL STRETCHER

**COMMERCIAL NAME:** DIAMOND STRETCHER

**MODEL:** MT-416

**PRODUCT SPECIFICATIONS AND TECHNICAL FEATURES:**

DIAMOND STRETCHER – MT-416



imagem meramente ilustrativa

**Structure:**

Tubular structure made of carbon steel sheets of different thicknesses, designed to withstand the stresses and rated load of the product. The chassis consists of a structure made of 60 × 40 × 2.0 mm tubes with 1/4" thick plates. The mattress platform is composed of a structure made of 40 × 20 × 2.0 mm tubes with 1/4" thick plates. The metal bed platform structure consists of articulated sections made of a framework of 30 × 20 × 1.2 mm tubes with 3 mm and 3/16" thick plates.

**Optional:**

- Similar structure with the same characteristics in stainless steel;
  - Similar structure with the same characteristics in aluminum;
  - Mattress platform built with "U" profile in carbon steel with 3.2 mm thickness, available in carbon steel, stainless steel, or aluminum.
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**Bed Platform:**

Structured thermoplastic bed platform with patient containment and mattress retainer, removable. Fixation is performed independently on the articulated sections of the metal bed structure.

**Optional:**

- Two articulated sections of the metal bed structure;
  - Fixed structured thermoplastic bed platform;
  - Removable bed platform in perforated or solid stainless steel sheet;
  - Removable bed platform in perforated or solid carbon steel;
  - Removable bed platform in perforated or solid aluminum sheet;
  - Removable ABS bed platform;
  - Bed platform in wooden board (MDP, MDF, or TS).
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**Movement:**

Movement is performed by a telescopic mechanical system that guides the vertical linear motion of the actuators responsible for raising the stretcher (column system). Stretcher movements are performed using gas springs and a hydraulic actuator, operated by foot pedals and manual levers.

The movements provided by the stretcher are: Fowler, semi-Fowler, backrest elevation, leg elevation, bed platform elevation and lowering, Trendelenburg, and reverse Trendelenburg.

**Optional movement system:**

- Similar mechanical system with the same characteristics in stainless steel;
- Similar mechanical system with the same characteristics in aluminum;
- Retractable hand crank;
- Articulated movement system.

**Optional movement:**

- N/A.
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**Casters and Braking System:**

Equipped with 6" diameter thermoplastic casters, providing floor protection, low rolling noise, and excellent load capacity. Total and directional braking system operated by foot-actuated levers.

**Optional casters:**

- 3" diameter thermoplastic or zinc-plated casters, with or without brakes;
- 4" diameter thermoplastic or zinc-plated casters, with or without brakes;
- 5" diameter thermoplastic or zinc-plated casters, with or without brakes;
- 6" diameter zinc-plated casters, with or without brakes;
- 8" diameter thermoplastic or zinc-plated casters, with or without brakes;
- 10" diameter thermoplastic or zinc-plated casters, with or without brakes;
- 4" diameter thermoplastic casters with total and directional lock;
- 5" diameter thermoplastic casters with total and directional lock;
- 6" diameter thermoplastic casters with total and directional lock;
- 8" diameter thermoplastic casters with total and directional lock.

**Optional braking systems:**

- Individual braking system on all four wheels;
- Individual braking system on two diagonal wheels;
- Individual braking system on the two foot-end wheels;
- Individual braking system on the two head-end wheels.

**Side Rails and Rail System:**

Set of two side rails made of high-impact blow-molded polyethylene. Compact rail system with locking mechanism.

**Optional side rails:**

- Four polyethylene side rails;
- Two or four metal tube side rails (carbon steel, stainless steel, or aluminum) 3/4" × 1.2 mm;
- Two or four wooden side rails (MDF, MDP, or TS).

**Optional rail system:**

- Retractable system with lock;
  - Universal up-and-down system with lock;
  - Stacking system.
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**Surface Finish of the Metal Structure:**

All carbon steel structures receive anti-rust chemical treatment and electrostatic powder coating, cured at 220°C in an oven, thereby increasing the chemical resistance of the structure.

**Optional:**

- High-gloss polishing for stainless steel, ensuring excellent asepsis.
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**Chassis Finish:**

Chassis covered with thermoplastic.

**Optional:**

- Without covering;
- Partial thermoplastic covering;
- Partial or full aluminum covering;
- Partial or full painted carbon steel covering;
- Partial or full stainless steel covering.

**Accessories:**

- 01 IV pole with height adjustment (Standard);
  - Fluid bag holders (drain) (Optional);
  - Mattress pad (Optional);
  - Radiolucent mattress pad (Optional);
  - Oxygen cylinder holder (Standard);
  - Trendelenburg/Reverse Trendelenburg angle indicator (Optional);
- Monitor holder (Optional);
  - Holder for triple oxygen rail (Optional);
  - Flowmeter holder (Optional);
  - Holder for humidifier and hoses (Optional);
  - Patient restraint straps (Optional);
  - Retractable side table (Optional);
- Radiolucent backrest with X-ray cassette tray (Optional);
  - Radiolucent bed platform with X-ray cassette tray (Optional);
  - 5th wheel (Optional);
  - Driven 5th wheel (Optional);
  - Wall bumper protector (Optional);
  - Wall bumper with PVC coating (Standard);
  - Standard decorative finish for side rails (Standard);
- Utility basket (Standard);
  - CPR backboard (Standard);
  - Transport handle with fixed height, removable (Optional);
  - Transport handle with height adjustment, removable (Optional);
  - Transport handle with fixed height, retractable (Optional);
  - Transport handle with height adjustment, retractable (Optional).

**Technical Data:**

1. Backrest Fowler:  $80^{\circ} \pm 25\%$  inclination
2. Leg Fowler:  $25^{\circ} \pm 25\%$  inclination
3. Trendelenburg:  $12^{\circ} \pm 25\%$  inclination
4. Reverse Trendelenburg:  $-12^{\circ} \pm 25\%$  inclination
5. Maximum height adjustment: 0.85 m
6. Minimum height adjustment: 0.53 m
7. Bed platform: Length 1870 mm × Width 600 mm × Height 550–870 mm
8. Overall dimensions: Length 2130 mm × Width 790 mm × Height 550–870 mm
9. Safe working load: 280 kg / Maximum patient weight: 250 kg

**Optional:**

- **Bed platform:**
  - Length: 1600–2000 mm
  - Width: 500–900 mm
  - Height: 400–1050 mm
- **Overall dimensions:**
  - Length: 1800–2200 mm
  - Width: 600–1000 mm
  - Height: 400–1050 mm
- **Safe working load / Maximum patient weight:**
  - Safe working load: 230 kg / Maximum patient weight: 200 kg
  - Safe working load: 300 kg / Maximum patient weight: 270 kg
  - Safe working load: 350 kg / Maximum patient weight: 330 kg

**Design and Standards Compliance:**

The ADVANCED Stretcher Trolley was developed in accordance with the following standards:

- ♣ RDC 665/2022 – ANVISA
  - ♣ ABNT 60601 – General
  - ♣ ABNT 60601-1 – Collateral
  - ♣ ABNT NBR ISO 9001:2015
  - ♣ ABNT NBR ISO 13485:2016



**Manufacturer and Distributor:**

Meta Móveis de Metais Ind. e Com. Ltda.

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**FINAME:** 3766723

Date: Abr/2024	Rev.04	Prepared by: Artur Ferreira	<a href="http://www.metahospitalar.com.br">www.metahospitalar.com.br</a>
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