



*First Pneumatic Knee Joint **Designed, Developed and Manufactured in India**, in collaboration with CSIR, Government of India.*

**German Quality made in India**

**ISO 10328 13485**

## Walnut Medical P-Leg WM-001/WM-002

Material	High Grade Aluminum/SS316
Amputation Level	Above-Knee / Trans-Femoral
Overall Height	202mm
Product Weight	830g
Flexion Angle Connectors	145°
Connectors	Proximal - Pyramid Distal - Tube Clamp
Max Patient Weight for WM-001 with Aluminum Side Bars	100 Kgs
Max Patient Weight for WM-002 with SS-316 Side Bars	125 Kgs



the prosthesis side. This is especially advantageous when the user takes small compensating steps, turns in a circle or walks in confined areas.

The Walnut Medical P-Leg offers numerous advantages, not only whilst walking.

When sitting or kneeling, the large maximum flexion angle of 145° and the low system height when flexed make it both comfortable and practical.

### Easy to fit

Flexion and extension dampening can be separately and individually customized to the needs of the user. This effectively reduces the working time of the prosthetist and leads to rapid fitting success.

### Benefits

- Treatment of all amputation levels
- Powerful swing phase control
- Flexion and extension damping can be easily adjusted independently of the other
- High stance phase stability thanks to polycentric four-axis joint
- Robust, durable construction
- Lightweight aluminum design

### Single-chamber pneumatics control the swing phase

In swing phase, the smooth yet powerful single-chamber pneumatics - one chamber each for flexion and extension damping - do not run out of air, even at various walking speeds. Harmonious flexion and extension movements, and therefore an approximation of the physiological gait pattern, are made possible. Here the joint geometry effectively shortens the prosthesis during swing, resulting in more ground clearance.

### Four-axis polycentric structure ensures stance phase stability

In extension, the instantaneous centre of rotation is located above the joint and behind the load line, resulting in high stability in stance phase. The integrated extension assist spring ensures that the lower leg of the prosthesis is always extended at heel strike and weight can be safely supported on