



POWERTUG MAKES LIGHT WORK OF HEAVY LOADS

Like the marine tugs that are used to move ships many times their own size and weight, the new PowerTug from Nu-Star Material Handling Ltd is ideal for manoeuvring loads up to 2000kg.

It is specially designed for moving dolly or trolley mounted loads fitted with four swivel castors. These can be notoriously difficult to control as they tend to 'crab', particularly where the flooring surface is uneven. The areas of operation can be many and varied, including general storage and warehousing operations, goods receiving and stock movements for retail shops, stores and supermarkets, together with parts and equipment transfers in industry and other engineering locations such as machine shops.

The PowerTug is pedestrian operated with a powered drive mechanism. It assists in compliance with Health and Safety regulations, helping to reduce manual handling accidents which can lead to lost or damaged stock as well as workforce sickness and absence. The unit is highly manoeuvrable and the compact size is ideal for use in confined areas. It is fully self contained, without trailing wires or airlines, and can be recharged from a 240V or 110V source. Unlike a forklift truck, the unit is not classified as a lifting device and can be operated by 16 year olds without the need for specialist training or certification.

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Once driven up to the load, an electrically operated attachment connects securely onto the dolly or trolley and enables safe movement of the load. A unique telescopic boom counteracts the swivel effect of front castors when in motion, and the unit is equally effective when operating with a mixture of fixed and swivel castors. All operator controls are housed within the ergonomic drive handle which includes remote load connection, steering and forward/reverse movements together with braking. Safety features include horn, auto-reverse and built-in hand guards.

Maximum speed, acceleration and braking can be adjusted to suit operating conditions and load requirements, while accessories include 'in-motion' bleeper, optional drive wheel materials for various floor conditions, together with standard or bespoke lifting attachment mechanisms.

A 600W 24V drive motor operates through a planetary gearbox with 18:1 reduction motion. There is an on-board battery charger for the twin, sealed, maintenance-free batteries, with 110A fully programmable motor controller for smooth control of motor speed and torque. Full diagnostics are also incorporated for fault identification and resolution, with all electrics complying to CE standards.

Technical

Chassis	-	6mm and 10mm Mild steel Zinc Plated
Drive motor	-	24V – 600W - Permanent magnet
Battery	-	2 x 12V 60Ah Cyclic Gel type batteries – Sealed Maintenance Free
Battery Charger-		On-Board – 3 Stage - 2 x 12V 10A Output
Gearbox	-	Planetary gearbox 18:1 reduction ratio
Motor Control	-	110A fully programmable Motor controller which gives smooth and effective control of motor speed and torque Four quadrant, full bridge power output stage.
Drive wheel	-	Standard Polyurethane with cut tread (other types available to suit various floor conditions)
Safety Items	-	Horn, Auto Reverse, Hand guards
Accessories	-	Motion bleeper, variety of drive wheel materials, standard and bespoke attachment mechanisms

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