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QYD SERIES — STANDARD ELECTRIC TUG

QYD-120-LA48

12.0 Tonne Walk-Behind Electric Tug

12,000 KG CAPACITY

A pedestrian, walk-behind electric tug built to move up to 12,000 kg around factories, warehouses and vehicle production lines — towing multiple trailers in a single run.

QYD-120-LA48 walk-behind electric tug, shown with rear pin/ball coupling and LED warning beacon. Photo shows a representative QYD-series unit in an alternate colour — standard production colours are Grey RAL 7024 / Yellow RAL 1023 (see below). Exact appearance may vary by model size.

Grey — RAL 7024 Yellow — RAL 1023

KEY FEATURES

- **Handle Auto-Brake Safety Interlock:** The tiller houses a micro-switch safety module — let go of the handle and it springs upright, cutting power and applying the electromagnetic brake instantly.
- **Stepless Speed Control:** Brushless drive motor with a smooth, progressive throttle curve — gentle take-off that won't jolt or snake a trailing load.
- **Tight Turning, Narrow Aisles:** A compact chassis and short wheelbase make it easy to manoeuvre through tight racking and doorways a forklift can't reach.
- **Fail-Safe Electromagnetic Braking:** Power-off braking with automatic park-lock on grades — no separate handbrake needed, and it holds the load the moment power is cut.
- **Lead-Acid Standard, Lithium Optional:** Runs all shift on the standard 48V lead-acid pack, or step up to a 48V lithium-ion battery for faster charging and a longer service life.
- **Quick-Swap Battery Compartment:** Toolless battery compartment for fast pack changes on multi-shift sites — minimal downtime between runs.

TECHNICAL SPECIFICATIONS

PERFORMANCE	
Rated Towing Capacity	**12,000 kg**
Rated Drawbar Pull	**3,900 N**
Maximum Drawbar Pull	**5,200 N**

DIMENSIONS & WEIGHT	
Overall Length × Width × Height	**1,975 × 805 × 1,226 mm**
Wheelbase	**1,199 mm**
Unladen Weight (incl. battery)	**780 kg**

POWER & BATTERY	
Drive Motor	**3.5 kW Brushless**
Battery	**48V / 107Ah lead-acid (lithium optional)**
Charger	**48V smart charger**

CHASSIS, BRAKING & STEERING	
Drive / Castor Wheels	**Solid rubber drive wheels, polyurethane castor**
Braking System	**Electromagnetic, fail-safe (power-off engages brake)**
Steering	**Mechanical tiller steering**
Standard Coupling	**Rear pin hitch + tow ball (combination)**

SAFETY FEATURES

- ✓ Handle-release auto-brake (micro-switch safety circuit)
- ✓ Emergency stop button
- ✓ Over-voltage, under-voltage, over-current & over-heat protection
- ✓ Low-battery alarm with fault code display
- ✓ Audible warning buzzer while driving
- ✓ Anti-rollaway interlock — won't start unless the tiller is in the working position

STANDARD INCLUDES

- QYD-120-LA48 electric tug
- 48V smart charger
- Rear pin hitch + tow ball coupling
- LED warning beacon + audible alarm
- Operator handbook & tool kit

UPGRADE OPTIONS

OPTIONAL UPGRADES

- + 48V lithium-ion battery upgrade
- + Rear auxiliary control panel — jog forward/reverse from the tow point while hitching
- + Custom, non-standard tow hitch or attachment — built to match your existing fleet

TOW HITCH & ATTACHMENT OPTIONS

Rear pin hitch + tow ball (combination) fitted as standard.

Every hitch and attachment point can be built to order to match your existing fleet:

- Tow balls — single or double, with pin-lock option
- Pin hitches — single, double or spring-loaded
- Wheelie-bin hitches — front or rear
- Trolley & pallet-jack attachments — clamping or spring-loaded lift
- Roller-pusher attachments — for drums, pipes & cable reels
- Spring-loaded tow bars

OPERATING ENVIRONMENT

Ambient Temperature	**-10°C to +45°C**
Floor Surface	**Sealed, level hard flooring, gradient ≤ 5%**
Altitude	**≤ 1,000 m**

STANDARD COLOURS

Grey — RAL 7024 | Yellow — RAL 1023

TILLER CONTROLS

Every function is within thumb's reach on the tiller head — no need to let go of the handle while driving or manoeuvring.

- Accelerator twist grip
- Emergency stop button
- Horn button
- Power switch with fault indicator
- Speed dial (Hi / Lo)

1-YEAR WARRANTY | LOCAL TECHNICAL SUPPORT | PARTS HELD IN STOCK

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Specifications provided for reference only and do not constitute a guarantee of performance. NATEX reserves the right to change specifications without prior notice — refer to the equipment's data plate and operator handbook for confirmed figures.