

# BT tyro

Product presentation  
BT Tyro lowlifters



# Content

- Sales approach
- Main specification and features
- Competition
- Model differentiation



## BT Tyro – LHE130B & LHE150 & LHE160

Powered Pallet Truck - Entry models

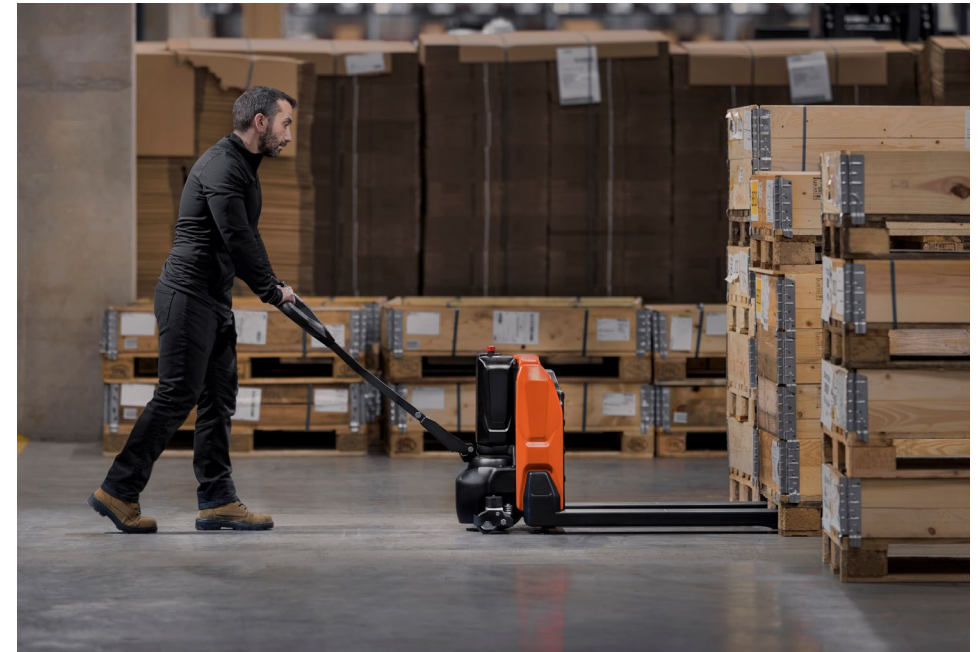
Developed, manufactured and tested according to EU norms by Noblelift. Verified by TMHE R&D with in-house standard tests performed



# BT tyro

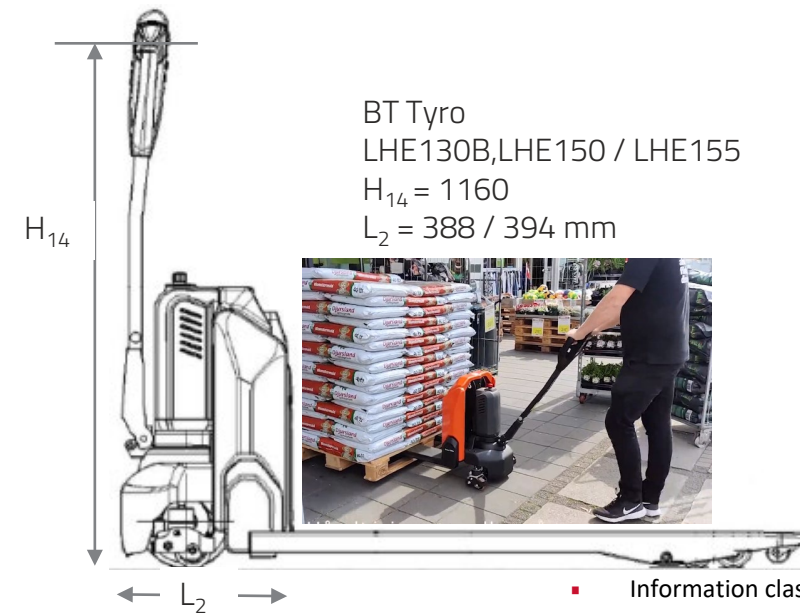
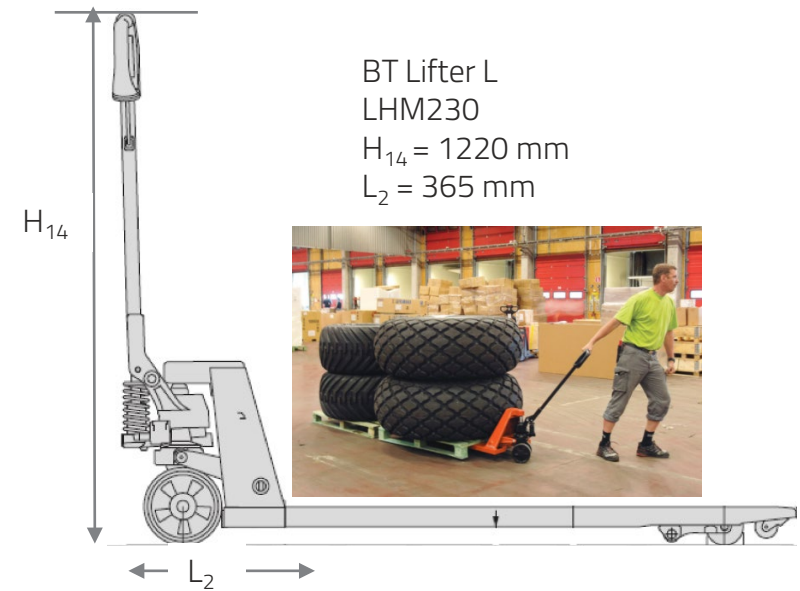
## Sales approach

- Main opportunity is to convert and to sell up from manual hand pallet trucks to fully electric at an affordable cost
- Address our main competition where we see a clear offer on entry level lowlifters, easy-buy, primarily online – to better compete in this segment and to defend our position
- Target with these products is additional sales and we want to avoid shifting sales from our Levio range
- For onboarding of smaller companies into the Toyota family for future business

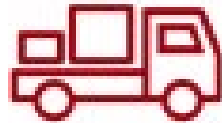


## We see great potential in conversion

- Our BT Lifter hand pallet trucks are valued products by our customers. These trucks are used in a very wide range of applications. With the support of the good relationship, we have formed a good base to develop our cooperation for the conversion steps.
- BT Tyro models are positioned between our BT Lifter and BT Levio series in our product portfolio
- We see great potential for customers that want to step up from manual and semi-electric use to full electric at a low cost
- Similar dimensions for a manual /semi-electric truck to fit in confined applications
- Hand pallet truck customers are looking for an extra boost in productivity (work more efficient) and ergonomics (less strain for the operator)



## Customer/Applications BT Tyro



### LHE130B / LHE150 / LHE160

- For occasional, horizontal transports of lighter goods
- For hand pallet truck customers looking for an extra boost in productivity and ergonomics
- Ideal in the retail sector for handling goods in small shops or supermarkets.
- Ideal in the transport and distribution sector for onboard lorry/backtail of a lorry use.
- **...any small customer in all industry segments that needs a light horizontal transport**



**Product**

**LHE130B**

Rated capacity	1300 kg
Speed	4.6/4.8 km/h (with/without load)
Battery size	24V, 20 Ah (Li-Ion)
Body width $b_1$	540 mm
Truck length $l_2$	388 mm
Lift height $h_{23}$	195 mm
Service weight	125 kg (incl battery)
Turning radius $W_a$	1336 mm
Aisle width EU-pallet $A_{st}$	2013 mm
Max. gradeability	6/16% (with/without load)
Temperature range	+5° C to + 40° C.

**Step-in choice** when stepping up from manual hand pallet truck use!



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## Product

**LHE130B VS LHE150**

## Specification Comparison

			Previous LHE130
Rated capacity	1300 kg		1300 kg
Speed	4.6/4.8 km/h (w/w.o load)	=	4.6/4.8 km/h
Battery size	24V, 20 Ah (Li-Ion)	▼	24V, 36 Ah
Body width $b_1$	540 mm	=	540 mm
Truck length $l_2$	388 mm	=	380 mm
Lift height $h_{23}$	195 mm	=	195 mm
Service weight	125 kg (incl battery)	✓	137 kg
Turning radius $W_a$	1336 mm	=	1330 mm
Aisle width EU-pallet $A_{st}$	2013 mm	=	2000 mm
Max. gradeability	6/16% (w/w.o load)	=	6/16%
Temperature range	+5° C to + 40° C.	=/▲	+5° C to + 40° C.

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**Product**

**LHE150**

Rated capacity	1500 kg
Speed	4.6/4.8 km/h (with/without load)
Battery size	24V, 40 Ah (Li-Ion)
Body width $b_1$	540 mm
Truck length $l_2$	388 mm
Lift height $h_{23}$	195 mm
Service weight	132 kg (incl battery)
Turning radius $W_a$	1336 mm
Aisle width EU-pallet $A_{st}$	2013 mm
Max. gradeability	6/16% (with/without load)
Temperature range	+5° C to + 40° C. (-18°C as option)

**Main model** with options and performance to suit most applications



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## Product

**New LHE150 VS previous LHE130**

## Specification Comparison

			Previous LHE130
Rated capacity	1500 kg	▲	1300 kg
Speed	4.6/4.8 km/h (w/w.o. load)	=	4.6/4.8 km/h
Battery size	24V, 40 Ah (Li-Ion)	▲	24V, 36 Ah
Body width $b_1$	540 mm	=	540 mm
Truck length $l_2$	388 mm	▲	380 mm
Lift height $h_{23}$	195 mm	=	195 mm
Service weight	132 kg (incl battery)	▼	137 kg
Turning radius $W_a$	1336 mm	▲	1330 mm
Aisle width EU-pallet $A_{st}$	2013 mm	▲	2000 mm
Max. gradeability	6/16% (w/w.o. load)	=	6/16%
Temperature range	+5°C to + 40°C. (-18°C as option)	=/▲	+5° C to + 40° C.

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BT Tyro – LHE160

## Product

**LHE160**

Rated capacity	1600 kg
Speed	4.8/5.2 km/h (w/w.o load)
Battery size	48V, 20 Ah (Li-Ion)
Body width $b_1$	540 mm
Truck length $l_2$	394 mm
Lift height $h_{23}$	195 mm
Service weight	145 kg
Turning radius $W_a$	1342 mm
Aisle width EU-pallet $A_{st}$	2019 mm
Max. gradeability	10/16% (w/w.o. load)
Temperature range	+5°C to + 40°C. (-18°C as option)

When added capacity,  
productivity, up-time and  
**extra boost** in steeper  
slopes are required!

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Product

**New LHE160 VS previous LHE155**

Specification Comparison

Previous LHE155

Rated capacity	1600 kg	▲	1550 kg
Speed	4.8/5.2 km/h (w/w.o load)	=	4.8/5.2 km/h
Battery size	48V, 20 Ah (Li-Ion)	=	48V, 20 Ah (Li-Ion)
Body width $b_1$	540 mm	=	540 mm
Truck length $l_2$	394 mm	▲	386 mm
Lift height $h_{23}$	195 mm	=	195 mm
Service weight	145 kg	▼	149 kg
Turning radius $W_a$	1342 mm	▲	1336 mm
Aisle width EU-pallet $A_{st}$	2019 mm	▲	2006 mm
Max. gradeability	10/16% (w/w.o load)	=	10/16% (with/without load)
Temperature range	+5°C to + 40°C. (-18°C as option)	=/▲	+5° C to + 40° C.

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## Safety and ergonomic advantages compared to a hand pallet truck

### Features

- Requires no effort to get heavy loads to start moving
- Requires no effort to get loads moving up in slopes
- No unintentional rolling in any situation that could cause accidents and/or damage of goods
- Situations that requires stopping and starting in slopes
- Requires no frequent manual pumping strokes to lift the loads
- Limited unauthorized use or theft



### Benefits

- Less strain for the operator in his daily work
- Safe operation



## Main Features &amp; Benefits - LHE

## Productivity advantages compared to a hand pallet truck

**Features**

- Electrical traction instead of manual
- Electrical lift instead of manual

**Benefits**

- More efficient operation compared to a hand pallet truck
- Saves time and cost
- Facilitates effectiveness in applications involving higher ground friction and slopes



## Compact machine size

### Features

- Favourable truck dimensions similar to a hand pallet truck

### Benefits

- Compactness offers easy maneuvering in confined areas and excellent visibility over forks
- Easy to store and transport

	LHE130B	LHE150	LHE160	LHM230
Body width b <sub>1</sub>	540 mm	540 mm	540 mm	520 mm
Truck length l <sub>2</sub>	388 mm	388 mm	394 mm	365 mm



## Main Features & Benefits – LHE

### Low weight

#### Features

- Low weight, including battery
  - 125 kg (LHE130B)
  - 132 kg (LHE150)
  - 145 kg (LHE160)

#### Benefits

- Can enter more weight restricted areas such as back of a lorry, elevators and mezzanine floors
- Can be used in areas where heavier truck models cannot operate



## Easy energy solution – Updated Batteries

### Features

- Exchangeable cassette type battery (LiFePO4) and external charger
  - LHE130b - Battery capacity 24V, 20 Ah Li-Ion, Charger 24V / 8A
  - LHE150 - Battery capacity 24V, 40 Ah Li-Ion, Charger 24V / 12A
  - LHE160 - Battery capacity 48V, 20 Ah Li-Ion, Charger 48V / 9A
  - External chargers with wall socket connection with possibility to charge inside or outside of the truck
- Integrated Battery Management System (BMS)
- Second battery as optional accessory

### Benefits

- Easy to detach battery with guiding system to put battery in place
- Easy and fast charging procedure - anywhere
- BMS for controlling charge/discharge, temperatures, short circuits etc for reliable use.



### Previous range

Until January 2025



### New range

From February 2025



**Different casing compared to current battery. Incompatible fit between different generations, current VS new.**

## Main Features & Benefits – LHE

### New Option

## Low temperature battery – LHE150 & LHE160

### Features

- Battery option enables operations and charging down to - 18°C
- Exchangeable cassette type battery (LiFePO<sub>4</sub>) and external charger
  - LHE150 - Battery capacity 24V, 40 Ah Li-Ion, Charger 24V / 12A
  - LHE160 - Battery capacity 48V, 20 Ah Li-Ion, Charger 48V / 9A

### Benefits

- Allows usage in low temperature applications, such as lorries, non-heated warehouses and fridge rooms
- Heating function during charging, no increased consumption during normal operations.



Main Features & Benefits – LHE

New Option

With or Without castor wheel– LHE150 & LHE160

**Features**

- With Polyurethane Castor wheels, ø80x30 mm on each side.
- or
- Without castor wheel

**Benefits**

- With castor wheels
  - Increase stability on flat surfaces
- Without castor wheel
  - Ease operations on uneven surfaces.
  - Minor reduction of footprint, beneficial in very confined areas.
  - Adds a full cover foot protection plate.



## Main Features & Benefits – LHE

### New Option

## High traction drive wheel – LHE150 & LHE160

### Features

- High Traction polyurethane drive wheel  $\varnothing 210 \times 75$  mm centrally placed
- Only in combination without castor wheel

### Benefits

- Ease operations on slippery terrain.
- Extra grip in slopes and uneven terrain.



## Main Features & Benefits – LHE

### Reduced speed when cornering - LHE150 & LHE160

#### Features

- Automatic speed reduction when cornering at above  $\sim 40^\circ$  steering arm angle.
- A proximity switch keep track of the steering angle

#### Benefits

- Reduced speed for safe and productive operation
- Reduced risk of load instability when cornering
- Reduced risk of foot injuries, especially when operating in high steering arm angles

**NOTE** – Not applicable for LHE130B



## Main Features & Benefits – LHE

### Low energy consumption

#### Features

- Low energy consumption – thanks to low weight and Li-Ion technology
- Energy consumption:
  - LHE130B – 0,17 kWh/h\*
  - LHE150 – 0,18 kWh/h\*
  - LHE160 – 0,20 kWh/h\*

#### Benefits

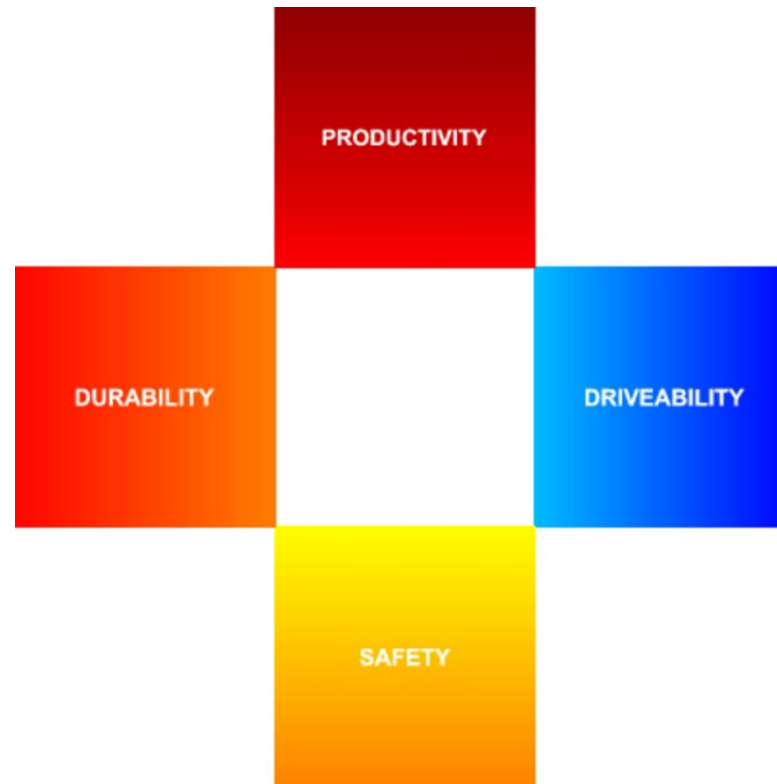
- More uptime per charge and less CO<sub>2</sub> emissions



\*according to EN 16796:2016

# BT tyro

Customers can benefit from:



# BT tyro

Customers can benefit from:



## Simple and intuitive tiller arm control

### Features

- Ergonomic and intuitive control buttons
- All functions can be used with either hand
- Comfortable rubber grip on handle

### Benefits

- Enables excellent control
- Easy maneuvering in confined areas
- Good grip regardless of temperature



## Central steering arm

### Features

- Centrally placed steering arm as on a hand pallet truck
- Tiller arm within truck profile in upright position
- The tiller arm is supported by a gas spring which helps to return the tiller softly to its vertical position

### Benefits

- Simplifies the control during traveling, turning and pallet picking – the truck is symmetrical, no special skills required
- Excellent maneuverability also in confined areas when used in turtle mode (see Turtle mode slide)
- Gas spring helps to return the tiller arm to its vertical position



## Features &amp; Benefits Driveability

## Steering arm angle

**Features**

- +/- 90° steering angle as on a hand pallet truck

**Benefits**

- Excellent manoeuvrability in confined areas such onboard a lorry



## Features &amp; Benefits Driveability

## Turtle mode

**Features**

- Creep speed activated through the turtle button
- Ability to drive the truck with the tiller arm in upright position at creep speed by pressing the turtle button at the same time
- Turtle mode confirmed in the display

**Benefits**

- Improved drivability and safety in confined areas.



## Features &amp; Benefits Driveability

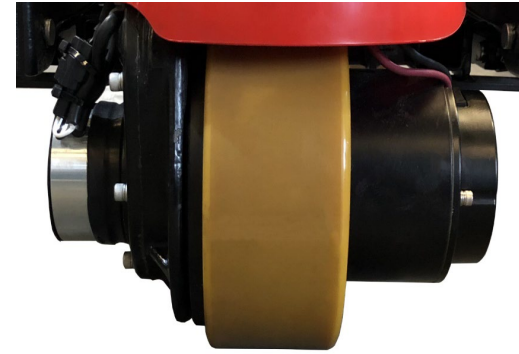
## Wheels configuration – LHE130B

**Features**

- Polyurethane Drive wheel  $\varnothing 210 \times 75$  mm centrally placed
- Polyurethane Single fork wheels  $\varnothing 80 \times 93$  mm
- Full foot cover, replacing castor wheels.

**Benefits**

- Safe pallet handling, same setup as LHM230
- Easy entry and exit also for bottom boarded pallets



## Features &amp; Benefits Driveability

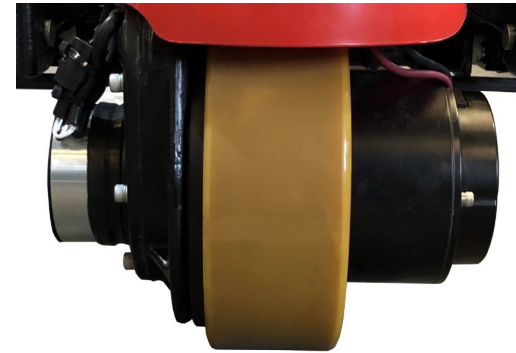
## Wheels configuration – LHE150 &amp; LHE160

**Features**

- Polyurethane Drive wheel  $\varnothing 210 \times 75$  mm centrally placed  
Optional as High Traction version. Ease operations on slippery terrain.
- Polyurethane Castor wheels,  $\varnothing 80 \times 30$  mm on each side.  
Optional with or without. Ease operations on uneven surfaces.
- Polyurethane Bogie fork wheels  $\varnothing 80 \times 70$  mm

**Benefits**

- Castor wheels give the machine extra stability and robustness. Optional to remove.
- Safe and steady pallet handling
- Bogie wheels more easily climb over uneven surfaces
- Easy entry and exit also for bottom boarded pallets



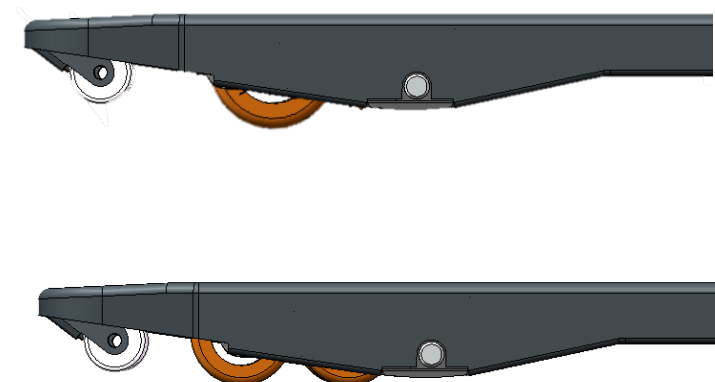
## Pallet entry

### Features

- Pallet entrance and exit shape on forks
- Climber wheels as standard

### Benefits

- For better work with closed pallets or when pallets are taken across



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Customers can benefit from:



## Features &amp; Benefits Safety

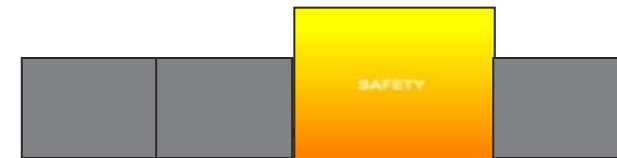
## Tiller arm safety button

**Feature**

- Changes drive direction when pushed if driving in steering arm direction

**Benefit**

- Reduces the risk for operator getting stuck between obstacle and truck



## Emergency switch

### Feature

- Emergency switch placed on an easy access position
  - Press the button to cut off traction or lift
  - The truck stops immediately

### Benefit

- Easy to reach, easy to use – safe
- In case of emergency the emergency safety switch immediately cut power supply through the battery BMS system and the electronic control circuit (2 circuit functionality).
- Also work as a safe option for shut down when truck is parked or not operating.



## Features & Benefits Safety

### Visibility

#### Feature

- Excellent visibility is a combination of:
  - Low and centrally placed tiller arm
  - Low chassis

#### Benefit

- Excellent visibility in all situations
- Centrally placed tiller arm gives better visibility of the sides of the truck
- Visibility similar to a hand pallet truck with its small dimensions



## Features &amp; Benefits Safety

## Horn

**Feature**

- Horn button for easy reach with one hand

**Benefit**

- The operator can warn the surrounding environment to avoid accidents



## Pin-code Access

### Features

- Start up the truck with a four-digit pin-code
- One user code and one administrator code

### Benefits

- Enables easy access
- Prevents unauthorized use of the truck
- Makes it more difficult to steal compared with a hand pallet truck



## Brakes

### Features

- Parking brake is activated when the steering arm is in its lowest and highest position
  - The arm automatically rises to the highest position
  - There's a damper before the arm gets to its lowest position
- No unintentional roll-back when stopping in slopes

### Benefits

- Easy to brake as the parking brake is activated as soon as the operator leaves the truck
- Makes the operation safer in terms of feet and body injuries when working with heavier goods compared with hand pallet trucks.
- Overall, more ergonomic operation in slopes compared to a standard hand pallet truck
- Avoid unintentional damage of heavier goods when working in slopes



## Foot protection

### Features

- Foot protection cover
- Low distance to floor
- Castor wheels with additional protection

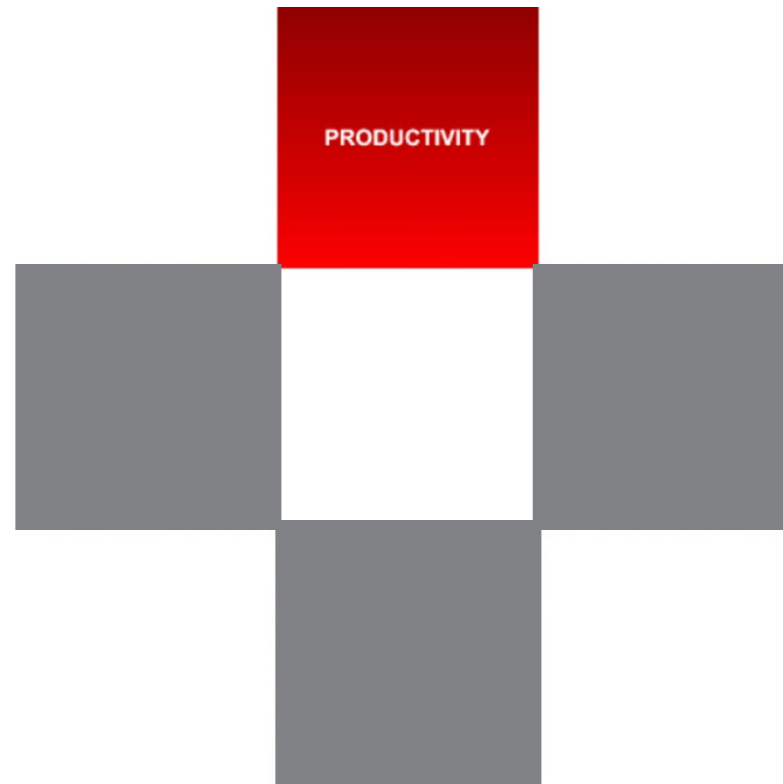
### Benefits

- Driver's feet is protected due to cover design with only a small gap between floor and machine
- Castor wheel protection increase driver safety and protects also the wheel itself



# BT tyro

Customers can benefit from:



## Features &amp; Benefits Productivity

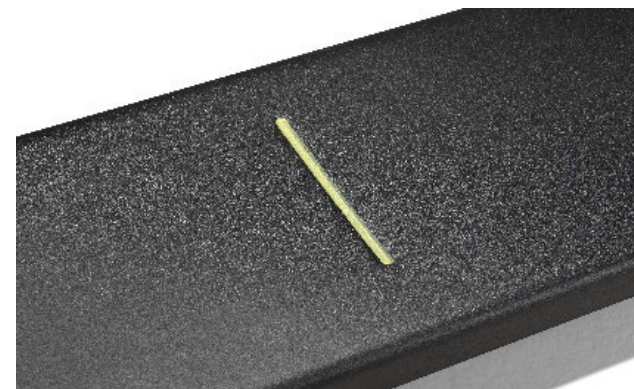
## Long side handling marking on forks

**Features**

- Fork design includes 800 mm marking

**Benefits**

- Operator guidance for long side handling of Euro-pallets



## Display

### Features

- Up front information to the operator about Truck status/Hour meter/Error codes/Battery status

### Benefits

- Immediate operator alert
- Easy error identification
- Easy battery monitoring



# BT tyro

Customers can benefit from:



## Features & Benefits Durability

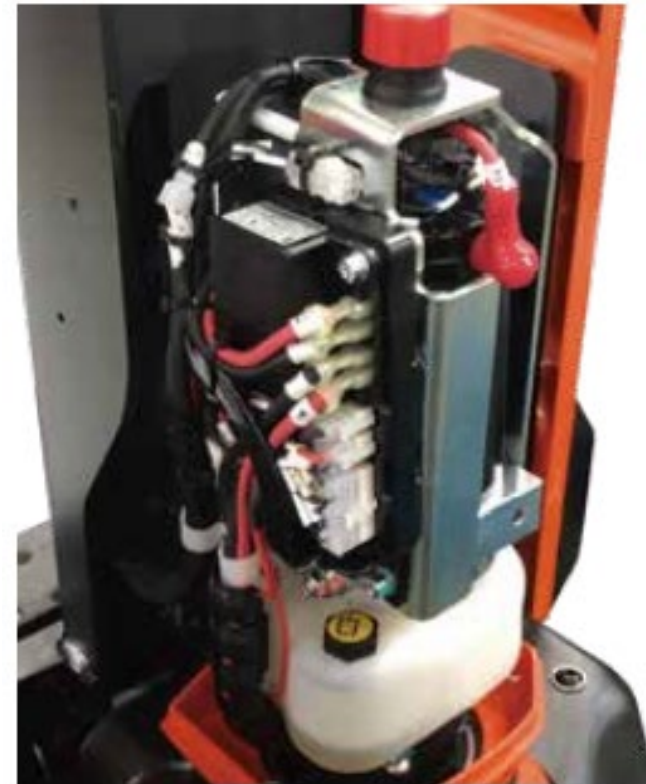
### Easy access

#### Feature

- Easy access to components for repair and maintenance work

#### Benefit

- Easy and quick maintenance ensures increased uptime



## Features & Benefits Durability

Can access

### Features

- Easily diagnosed with help of Curtis handheld programmer or PC software, including fault history.
- Ability to adjust acceleration/deceleration behavior, speed settings, value of reduced speed in corners/with lifted forks, speed with tiller in its upright position and braking parameters according to customer's need

### Benefits

- Easy to access for fast and easy service diagnostics and settings
- Can be easily diagnosed with help of Curtis handheld programmer



## Features &amp; Benefits Durability

## Drive unit

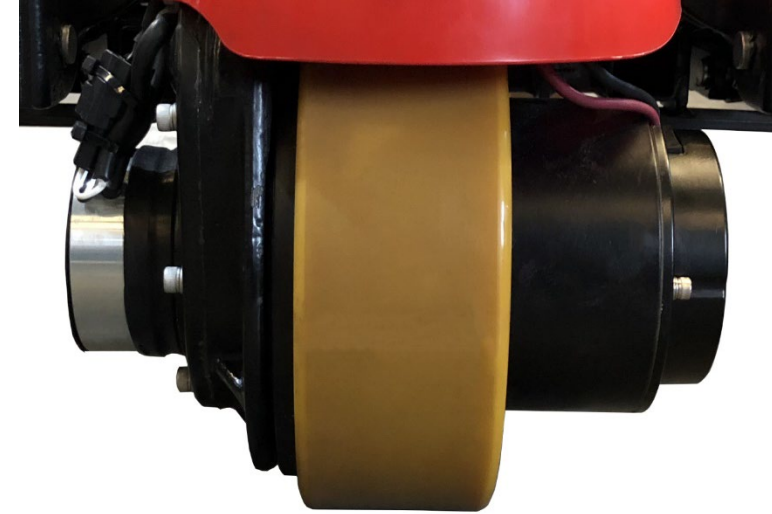
LHE130B

**Features**

- Drive unit with electromagnetic brake and traditional horizontal structure of gearbox
- Same drive unit as the BT Tyro LHE150 & SHE100

**Benefits**

- Drive wheel can be easily removed or replaced by the new one without disassembling of the drive unit from the truck
- Same recognizable parts within the BT Tyro range



Type: DC  
Voltage: 24V  
Dimensions of driving wheel: 210x75 mm  
Power of electric motor: 650W  
Rotation speed: 2650 rpm  
Gear ratio: 24.685  
Duty: S2  
Insulation class: F  
Torque of electromagnetic brake: 8 Nm

## Drive unit

LHE150

### Features

- Drive unit with electromagnetic brake and traditional horizontal structure of gearbox
- Same drive unit as the BT Tyro LHE130B & SHE100

### Benefits

- Drive wheel can be easily removed or replaced by the new one without disassembling of the drive unit from the truck
- Same recognizable parts within the BT Tyro range



Type: DC  
Voltage: 24V  
Dimensions of driving wheel: 210x75 mm  
Power of electric motor: 650W  
Rotation speed: 2650 rpm  
Gear ratio: 24.685  
Duty: S2  
Insulation class: F  
Torque of electromagnetic brake: 8 Nm

## Features &amp; Benefits Durability

## Drive unit

LHE160

**Features**

- Drive unit with electromagnetic brake and traditional horizontal structure of gearbox

**Benefits**

- Drive wheel can be easily removed or replaced by the new one without disassembling of the drive unit from the truck



Type: DC  
Voltage: 48V  
Dimensions of driving wheel: 210x75 mm  
Power of electric motor: 1000W  
Rotation speed: 2950 rpm  
Gear ratio: 24.685  
Duty: S2  
Insulation class: F  
Torque of electromagnetic brake: 8 Nm

## Fork configurations

### Features

- Available fork configurations (Length x width over forks):
  - LHE130B: 1150x540 mm, 1000x685 mm
  - LHE150: 1150x540 mm, 1150x520 mm, 1000x685 mm, 800x520 mm
  - LHE160: 1150x540 mm



### Benefits

- Possibility to customize the forks depending on type of load carrier

## Features &amp; Benefits Durability

## Forks

**Features**

- Increased steel thickness of frame and forks
- U-shape reinforcements for the full length of fork from both sides.

**Benefits**

- Ensures the twisting resistance and overall rigidity of the frame

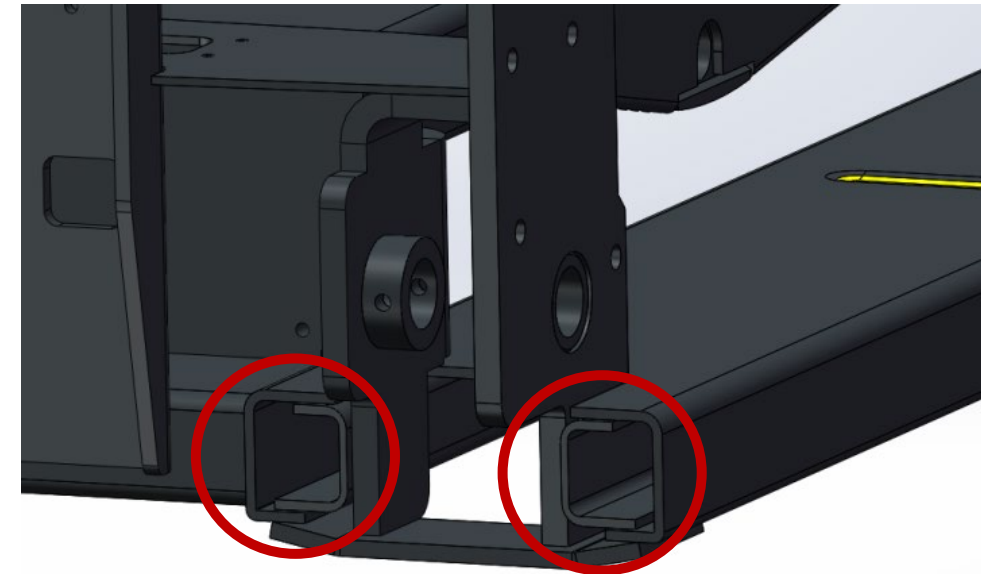
Thickness of forks and reinforcements:

LHE130B uses 4.0 mm steel thickness

LHE150 uses 4.0 mm steel thickness

LHE160 uses 4.5 mm steel thickness

Supporting structure: LHE130B and LHE150 uses 6.0 mm steel; LHE160 uses 10 mm steel. The frame of LHE155 is 20% heavier than the frame of LHE130



## IP class on components

Component	Unit	IP class	
		LHE130B/LHE150	LHE160
Motor	Drive motor	IP44	IP44
Electronic cards	Controller Curtis	IP65	IP54
	Tiller arm	IP54	IP54
Chargers	All versions	IP65	IP65







## Multiple strong points compared to competitor products

### USP's

- Overall competitive price and reasonable lead time
  - Automatic speed reduction when cornering
  - PIN code access
  - Best gradeability performance with rated load (LHE155)
- Apart from this the LHE trucks are equally as good as the competition when it comes to performance and outer dimensions. See also next slides.





			
1.1-1.3t (24V)	MT12 	PTE1.1 / AME 13 	ECH 12C 
~1.5t (48v)	MT15 	PTE 16 / AME 16 	ECH 15 

BT Tyro competitor specification comparison (1.2-1.3t)

Competitor specification comparison						
			BT Tyro LHE130B	Linde MT12	Jungheinrich AME 1.3	Still ECH 12C
Rated capacity	Q	kg	1300	1200	1300	1200
Max. lift height	$h_3$	mm	115	110	110	115
Max. travel speed with/without load		km/h	4.6/4.8*	4.0/4.5	4.8/5.0	4.0/4.5
Overall length	$l_1$	mm	1530	1540	1623	1550
Overall width	$b_1$	mm	540	560	550	560
Aisle width requirement, Euro pallet	$A_{st}$	mm	2000	2062	2226	2062
Max. gradeability with/without load		%	6/16	4/10	5/20	4/10
Battery specification	V/Ah		24/20	24/20	48/20	24/20

\*Set to max performance, not recommended by supplier

BT Tyro competitor specification comparison (1.3-1.5t)

Competitor specification comparison						
			BT Tyro LHE150*	Linde MT15C	Jungheinrich AME 15*	Still ECH15C
Rated capacity	Q	kg	1500	1500	1500	1500
Max. lift height	$h_3$	mm	115	115	115	115
Max. travel speed with/without load		km/h	4.6/4.8*	4.0/4.5	4.6/4.8	4.0/4.5
Overall length	$l_1$	mm	1537	1550	1530	1550
Overall width	$b_1$	mm	540	560	540	560
Aisle width requirement, Euro pallet	$A_{st}$	mm	2013	2062	2000	2062
Max. gradeability with/without load		%	6/16	6/16	4/16	6/16
Battery specification	V/Ah		24/40	24/20	24/36	24/20

\*Possible to increase via settings.

Default setting for best uptime and lifetime.



\*\*See comparison on slide 57

BT Tyro competitor specification comparison (~1.5t)

Competitor specification comparison						
			<b>BT Tyro LHE160</b>	<b>Linde MT15</b>	<b>Jungheinrich AME 16</b>	<b>Still ECH 15</b>
Rated capacity	Q	kg	1600	1500	1600	1500
Max. lift height	$h_3$	mm	115	115	115	115
Max. travel speed with/without load		km/h	4.8/5.2 *	5.0/5.5	5.0/5.4	5.0/5.5
Overall length	$l_1$	mm	1536	1550	1536	1550
Overall width	$b_1$	mm	540	620	540	620
Aisle width requirement, Euro pallet	$A_{st}$	mm	2006	2100	2006	2100
Max. gradeability with/without load		%	10/16	8/20	8/16	8/20
Battery specification	V/Ah		48/20	48/20-30	48/20	48/20-30

\*Possible to increase via settings.  
Default setting for best uptime and lifetime.

BT Tyro competitor specification comparison Jungheinrich similar offer

Competitor specification comparison			 BT Tyro LHE150	 Jungheinrich AME 15
Rated capacity	Q	kg	1500	1500
Max. lift height	$h_3$	mm	115	115
Max. travel speed with/without load		km/h	4.6/4.8	4.6/4.8
Overall length	$l_1$	mm	1537	1530
Overall width	$b_1$	mm	540	540
Aisle width requirement, Euro pallet	$A_{st}$	mm	2013	2000
Max. gradeability with/without load		%	6/16	4/16
Noblelift model			PTE15N2 (PRO)	PTE15N

- JH also uses Noblelift as OEM supplier in this segment!
- Previously same spec but now more differences:
  - **TMHE offer enhance PRO model, with enhanced chassis and new handle.**
  - Castor wheels as standard for better stability and safety, but offered as option to remove, from both
  - Price now more adaptable trough selection of options.



Be aware – also available in same spec as Ameise brand at lower price than JH brand...

## Tyro vs Levio

- The Levio range is our core offer for more intense use
- It is important to be aware of the differences between the Tyro and Levio models
- Main differences in:
  - Durability
  - Productivity/ Performance/Ergonomics
  - Energy solutions
  - Customisation possibilities



	BT Tyro - LHE130B	BT Tyro - LHE150	BT Tyro - LHE160	BT Levio - LWI160	
Productivity/Performance	Travel speed with load (km/h)	4,6	4,6	4,8	6,0
	Travel speed without load (km/h)	4,8	4,8	5,2	6,0
	Lifting speed with load (m/s)	0,02	0,02	0,02	0,05
	Lowering speed with load (m/s)	0,05	0,05	0,05	0,12
	Rated capacity (kg)	1300	1500	1600	1600
	Available hours on one charge	2,5	4,5	4	10
	Li-Ion charge in 1 hour (%)	40%	30%	45%	100%
	Max Gradeability (%) with load	6	6	10	10
	Max Gradeability (%) without load	16	16	16	18
	Power drive motor (kW)	0,65	0,65	1,00	1,0
	Lift motor rating (kW)	0,5	0,5	0,80	1,0
	Drive control type	DC	DC	DC	AC
	Acceleration level	Low	Low	Medium	High
Others	Temperature range	+5°C to +40°C	+5°C to +40°C	+5°C to +40°C	-30°C to +40°C
	Sound level at the driver's ear	<70 dB	<70 dB	<70dB	59dB
	I_Site/Smart Access/POC	No	No	No	Yes
	Number of driver profiles / PIN codes	1 / 1	1 / 1	1 / 1	10 / 100
	Additional Options	Few	Few	Few	Many
	Special modifications	No	No	No	Yes