

Technical information for Hyster service centres



This manual is intended solely for the specialized technicians of the Hyster service network.

A418.....

P1.6 - P1.8
P2.0 - P2.2



IMPORTANT

The Service Manuals are updated regularly, but may not contain the most recent product design modifications. The updated technical information is in any case available from your nearest authorised Hyster® dealer. The Service Manuals provide the guidelines for correct maintenance and are designed for use by appropriately trained technicians. Incorrect maintenance or non-compliance with the instructions contained in this manual could cause damage to property or injury and even death to people.

We therefore recommend that you read this manual carefully and keep it in a good condition so it is always decipherable and complete.

This manual does not replace the use and maintenance manual, it is a supplement to it.

HYSTER *Product support group*

SECTIONS

This handbook is composed of the following sections:

- Section 1: **Presentation**
- Section 2: **Installation and settings**
- Section 3: **Diagnostics and measurements**
- Section 4: **Electrical system**
- Section 5: **Hydraulic system**
- Section 6: **Mechanics**
- Section 7: **Reduction gear**
- Section 8: **Braking system**
- Section 9: **Standard maintenance**

Use the sections index with the numbered black bands to go quickly to the desired section.

SYMBOLS



Signals a danger that can cause accidents to people or damage to the machine.



Signals danger due to high temperatures.



Signals important notes or information to take into particular consideration.



Signals disposal/recycling of harmful substances under the protection of current legislation.

INSTALLATION PROCEDURES

For the installation procedures, carry out the reverse procedure to disassembly, observing any notes and information given for the truck to function properly.

GENERAL SAFETY RULES

PERSONAL SAFETY

- Always wear the personal protective equipment in situations requiring it.
- Pay particular attention to the risk of getting crushed due to moving parts, oscillations, material not properly secured when performing lifting operations or moving loads.
- Do not wear any rings, watches, jewellery, loose or hanging items of clothing such as scarves, unbuttoned jackets or tops with open zippers that can get caught up in moving parts.
- Never do any cleaning, lubrication or maintenance work with the battery connected.
- Using compressed air to clean the parts, protect yourself with goggles that have side protection. The maximum air pressure must not exceed 1 bar.

SAFETY AT THE WORKPLACE

- Make sure that all the work tools are perfectly efficient and ready for use. Keep the work surfaces clean and clear of debris that can come into contact with parts of the machine and cause damage.
- Make sure you keep sparks, naked lights and cigarettes away from fuels or flammable materials such as the gas of the batteries and fuels.
- Make sure that the work area is ventilated, well illuminated, dry and clean. Remove any puddles of water or oil stains.
- Make sure that the equipment, devices or lifting machinery used is able to sustain the load in a stable manner.
- Never use gasoline, diesel fuel or other flammable liquids such as detergents: instead use non-flammable and non-toxic trade solvents.
- When working outside the garage, move the machine preferably onto the level and block it. If working on a slope is inevitable, block the machine beforehand and move it onto a level area as soon as possible with a certain margin of safety.
- Disconnect the batteries and label all the controls to signal that work is in progress. Block the machine and every attachment that has to be raised.
- Never perform any servicing on the machine with persons at the controls, unless they are accredited operators and help with the operation to be performed.
- When towing use solely the prescribed coupling points and check that the pins and/or bolts are firmly secured before pulling. Lift and handle all the heavy parts with lifting equipment of adequate capacity. Use the lifting eyebolts intended for this purpose. Make sure no one is near the load to be lifted.
- Avoid twisting chains or metal ropes.
- Do not trust bent or damaged chains or ropes: do not use them for lifting or pulling. Always wear the safety gloves to handle them.
- Do not accumulate rags soaked in grease or oil: they are a great fire hazard. Always put them away into a closed metal container.
- Used oil must be specially collected. It must not be disposed of into normal drainage system pipes. Special companies can be employed to dispose of or recycle industrial oils according to the laws in force in individual countries.
- When welding is necessary, you must use appropriate safety protection: dark goggles, hard hat, overalls, gloves, safety footwear. Dark goggles must be worn also by those who are not doing the work if they remain nearby during the welding.

**Thanks very much for your reading,
Want to get more information,
Please click here, Then get the complete
manual**

JustClickHere 

NOTE:

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click on it.**

**Have any questions please write to me:
admin@servicemanualperfect.com**

- Before using the batteries, make sure that both ends of the cables are connected to the terminals as prescribed: (+) with (+) and (-) with (-).
- Do not short-circuit the terminals.
- The gas released when charging is highly flammable. When charging, leave the battery compartment uncovered for more effective ventilation and take off the plugs.
- Never check the battery charge with "jumpers" obtained by putting metal items on the terminals.
- Before taking any action, check that no elements are shorted.
- Always disconnect the battery before working on the electrical system.
- For battery chargers and similar equipment, use solely auxiliary power sources with an effective ground connection to avoid any electric shocks.
- Fluid passing through a very small orifice can be virtually invisible and have sufficient force to penetrate under the skin; in such cases, having to make a check, use a card or a piece of wood.
- Having to check the system pressure, use the specific instruments.

BELTS, ROPES AND SUSPENSION ELEMENTS: USER ADVICE

- Keep a record of all the suspension elements used, stating the characteristics of the suspension elements and the data given on the identification plate .
- Never leave belts, cords or suspension elements in use whose identification plate has been lost.
- Always use belts, ropes or suspension elements of suitable dimensions. Concerning the suspension elements, take into consideration the lifting angle and any unbalancing of the load.
- The bells on the suspension elements must be sized in proportion to the hook of the overhead travelling crane and anyhow must be free to move easily.
- Always rest the load in the race of the hook.
- Never load the tip of the hook.
- When lifting, avoid sudden operations that can jerk on the ropes and belts.
- Never do any lifting with the ropes and belts twisted.
- Knots are not permissible. Always protect the ropes and belts when they come into contact with sharp edges.
- When moving with no load, to prevent impact and accidental hooking, hang the hooks in the bells and close the safety ones.

Using suspension elements under conditions of unbalanced load

If lifting unbalanced loads it is advised as a precaution to downrate the load capacities of the lifting elements:

- Slings with 2 booms, consider them as corresponding to 1 boom.
- Slings with 3 and 4 booms, consider them as corresponding to 2 booms.





Tips for maintenance

Periodically examine the belts, ropes and suspension elements according to current legislation to define their state of service.


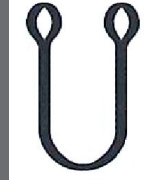


Change them in the following cases:

- When the components show: deformation, cracks, hollows, cuts or abrasions.
- When the wear of the components exceeds 10% of the original dimensions.
- When the sling shows signs of overloading.




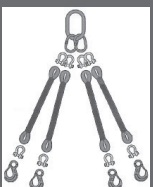
Belt capacity table

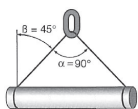
	Colour				
Working load capacity (kg)	purple	1000	2000	1400	800
	green	2000	4000	2800	1600
	yellow	3000	6000	4200	2400
	grey	4000	8000	5600	3200
	red	5000	10000	7000	4000
	brown	6000	12000	8400	4800
	blue	8000	16000	11200	6400
	orange	10000	20000	14000	8000
	orange	12000	24000	16800	9600
	orange	15000	30000	21000	12000
	orange	20000	40000	28000	16000
	orange	25000	50000	35000	20000
	orange	30000	60000	42000	24000
Coefficient		1	2	1.4	0.8

Rope capacity table

	Colour	Track (mm)				
Working load capacity (kg)	black	35	500	1000	700	400
	purple	50	1000	2000	1400	800
	black	50	1500	3000	2100	1200
	green	60	2000	4000	2800	1600
	yellow	75	3000	6000	4200	2400
	grey	120	4000	8000	5600	3200
	red	150	5000	10000	7000	4000
	brown	180	6000	12000	8400	4800
	blue	240	8000	16000	11200	6400
	orange	300	10000	20000	14000	8000
Coefficient			1	2	1.4	0.8

Suspension element capacity table

	Colour				
Working load capacity (kg)	purple	1000	1400	2100	2100
	green	2000	2800	4200	4200
	yellow	3000	3800	6300	6300
	grey	4000	5600	8400	8400
	red	5000	6600	9800	10500
Coefficient		1	1.4	2.1	2.1



Working load capacity: the working load capacity is calculated with an angle at the centre of 90°

TORQUE SETTINGS FOR SCREWS, NUTS AND FITTINGS



Before disassembling the various parts and nuts and bolts, read the following carefully.

To make the threaded matings secure, *LOCTITE 270* is used for tightening the screws.

If it is not possible to unscrew the bolts because this product has been used, avoid applying extensions to the tools, instead slightly heat the area (at most 50°C) so as to eliminate the *LOCTITE 270* effect.

In the cases described, reapply *LOCTITE 270* during installation in a moderate quantity (30% of the mating surface).

The torque setting used for tightening the threaded couplings is extremely important to make the coupling secure and the machine safe.

The tables on this page give the classes of bolts normally used with the relevant torque settings.

Nominal diameter	TORQUE SETTING Nm	
	Class 8	Class 10
M3	4	5.2
M4	7	9.15
M5	12.14	14.8
M6	17.2	20.9
M8	31.8	38.1
M10	50.5	60.3
M12	74.2	88.5
M14	101.2	120.8
M16	138.2	164.9
M18	176.6	203.5
M20	225.4	259.7
M22	278.8	321.2
M24	324.8	374.2
M27	422.3	486.5
M30	516.1	594.7

				Pre-load N	TORQUE SETTING Nm					
					Class 5.8	Class 8.8	Class 10.9	Class 10.9	Class 10.9	Class 10.9
M4	0.7	7	3	2400	1.92	1.44	3.07	2.3	4.17	3.13
M5	0.8	8	4	3880	3.88	2.91	6.2	4.65	8.43	6.33
M6	1	10	5	5490	6.58	4.94	10.5	7.9	14.3	10.8
M8	1.25	13	6	9990	16	12	25.6	19.2	34.8	26.1
M8	1	13	6	10700	17.1	12.8	27.4	20.5	37.3	27.9
M10	1.5	16	8	15825	31.7	23.8	51	38	69	52
M10	1.25	16	8	16700	33.4	25.1	53	40.1	73	55
M12	1.75	18	10	23025	55	41.4	88	66	120	90
M12	1.25	18	10	25150	60	45.3	96	72	130	98
M14	2	21	12	31400	88	66	140	105	190	145
M14	1.5	21	12	34125	96	72	155	115	210	155
M16	2	24	14	42850	135	105	220	165	300	225
M16	1.5	24	14	45600	145	110	235	175	320	240
M20	2.5	30	17	66875	270	200	430	320	580	435
M20	1.5	30	17	74250	295	225	475	355	650	485



= with lubricant

CORRECT METHOD FOR APPLYING FEMALE FITTINGS

To assure a reliable seal between female fittings and the adapters in this manual, it is necessary to observe the following procedure, which differs from the one for assembling rigid pipes.

Female fittings without a gasket (metal/metal joint)

Screw on the nut by hand and then, with the aid of a wrench, tighten by another quarter turn.

Female fittings with O-ring

Screw on the nut by hand and then, with the aid of a wrench, tighten by another half turn.

In every case make sure that the pipe is properly aligned before tightening the nut on the adapter.

TORQUE SETTINGS

METRIC REVOLVING FEMALE			
UNF thread	Outside diameter of the pipe	Torque setting Nm	
		Nominal torque	min / max
M 12x1.5	6	20	15 - 25
M 14x1.5	8	38	30 - 45
M 16x1.5	8	45	38 - 52
	10		
M 18x1.5	10	51	43 - 85
	12		
M 20x1.5	12	58	50 - 65
M 22x1.5	14	74	60 - 88
	15		
M 24x1.5	16	74	60 - 88
M 26x1.5	18	105	85 - 125
M 30x2	20	135	115 - 155
	22		
M 36x2	25	166	140 - 192
	28		
M 42x2	30	240	210 - 270
M 45x2	35	290	255 - 325
M 52x2	38	330	280 - 380
	42		

REVOLVING FEMALE jic 37°			
UNF thread	Size	Torque setting Nm	
		Nominal torque	min / max
7/16-20	-4	15	9 - 21
1/2-20	-5	20	13 - 27
9/16-18	-6	30	18 - 42
3/4-16	-8	50	30 - 70
7/8-14	-10	69	44 - 94
1.1/16-12	-12	98	63 - 133
1.3/16-12	-14	118	73 - 163
1.5/16-12	-16	140	90 - 190
1.5/8-12	-20	210	135 - 285
1.7/8-12	-24	290	200 - 380
2.1/2-12	-32	450	300 - 600

BSP REVOLVING FEMALE		
UNF thread	Torque setting Nm	
	Nominal torque	max
G1/4	20	15 - 25
G3/8	34	27 - 41
G1/2	60	42 - 76
G5/8	69	44 - 94
G3/4	115	95 - 135
G1	140	115 - 165
G1.1/4	210	140 - 280
G1.1/2	290	215 - 365
G2	400	300 - 500

ORFS REVOLVING FEMALE			
UNF thread	Size	Torque setting Nm	
		Nominal torque	max.
9/16-18	-4	14	16
11/16-16	-6	24	27
13/16-16	-8	43	47
1-14	-10	60	68
1.3/16-12	-12	90	95
1.3/16-12	-14	90	95
1.7/16-12	-16	125	135
1.11/16-12	-20	170	190
2-12	-24	200	225
2-1/2-20	-32	460	490



The values given in the tables refer to galvanized steel fittings. Fittings of other materials have other values.

INSTRUCTIONS FOR INSTALLING FLEXIBLE HOSES AND FITTINGS

Inspection of pipes and fittings

When even just one of the following conditions arises the pipe must immediately be disconnected and replaced:

- a shift of the connector on the pipe;
- the presence of damage, cuts or abrasions on the surface layer;
- hardening or stiffness of the pipe, the presence of burns or cracks due to heat exposure;
- the presence of cracks, damage or bad corrosion on the connector;
- the presence of leaks along the pipe or at the connector;
- the presence of permanent creases, compression, flattening or twists in the pipe;
- the presence of blisters, softening, wear of the external coat.

Pre-installation inspection

Before installing a flexible hose it is necessary to inspect the pipes carefully. First check that the type, size, reference code and length are correct, then check there is no debris, blockages, bubbles, peeling of the outer layer or any other visible defects.

Installation

Avoid twisting the pipe, which could cause it to burst under pressure.

There must be an adequate radius of curvature to prevent constriction and collapse. The life of the assembled pipe decreases considerably when below the minimum radius of curvature.

The pressure can cause changes in the length of the pipe, up to + 2%. It will be wise to have a slightly greater length than the requirement in order to compensate for these changes.

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PRESENTATION

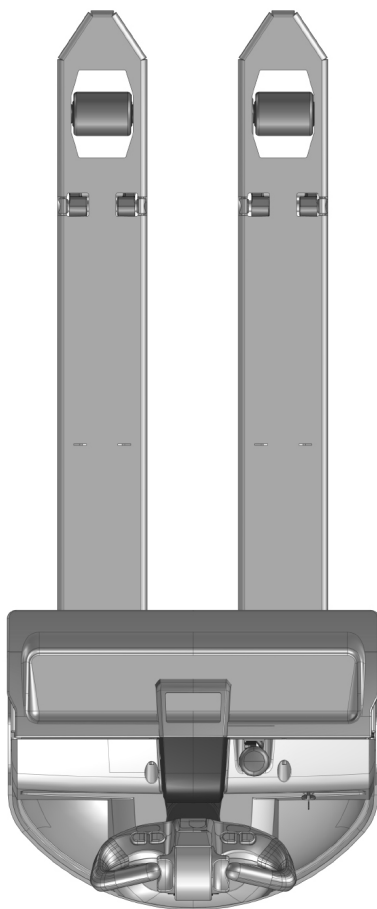
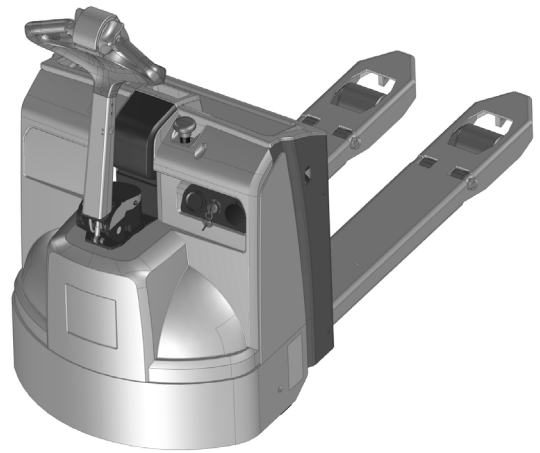
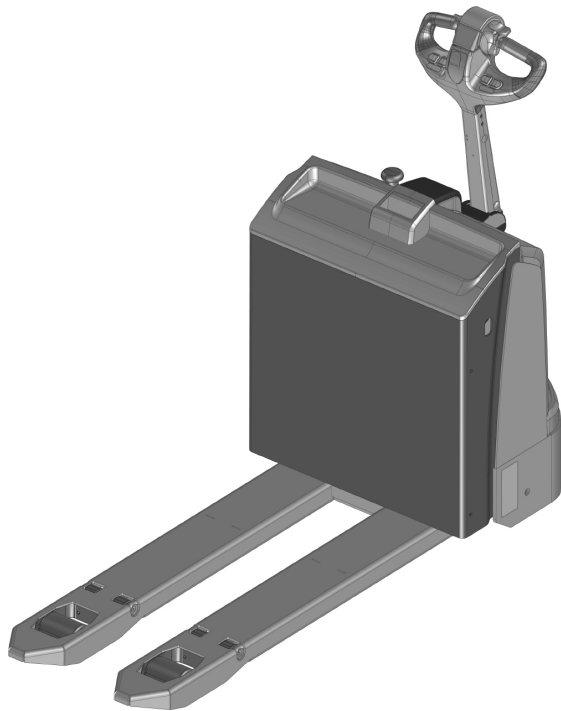
TRUCK PRESENTATION	2
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TRUCK PRESENTATION

The new range of pedestrian tiller operated pallet trucks has a nominal load capacity of from 1600 kg to 2200 kg.



These trucks are electric vehicles on which a battery provides sufficient current for driving and lifting. The battery is in the compartment on the fork frame and is raised/lowered together with the movement of the forks. The battery compartment also acts as a load rack and helps keep the load blocked.

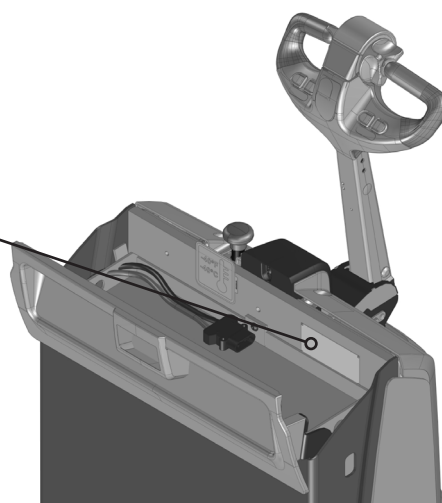
The tiller is used to select the various functions, among which steering, selecting the drive mode, braking, directing the truck and controlling the speed, lifting and lowering of the forks.

VIEWS OF THE TRUCK

TRUCK AND LOAD IDENTIFICATION DATA

TRUCK IDENTIFICATION DATA PLATE

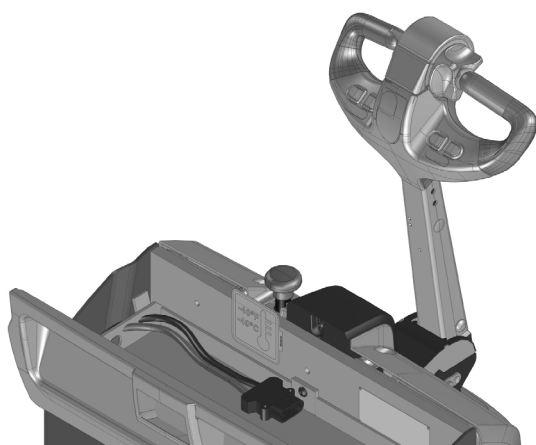
			HYSTER EUROPE, Centennial House, Frimley Business Park Frimley, Surrey GU16 7SG, United Kingdom MADE IN ITALY					
MODEL		SERIAL NUMBER		YEAR OF CONSTRUCTION				
NOMINAL CAPACITY kg		MASS WITHOUT BATTERY kg		BATTERY MASS MIN MAX kg				
PERSONS ON BOARD		NOMINAL POWER kW		BATTERY VOLTAGE Volt				
MAXIMUM TRACTION FORCE N		POWER PULL N		EXERTED TIME min				



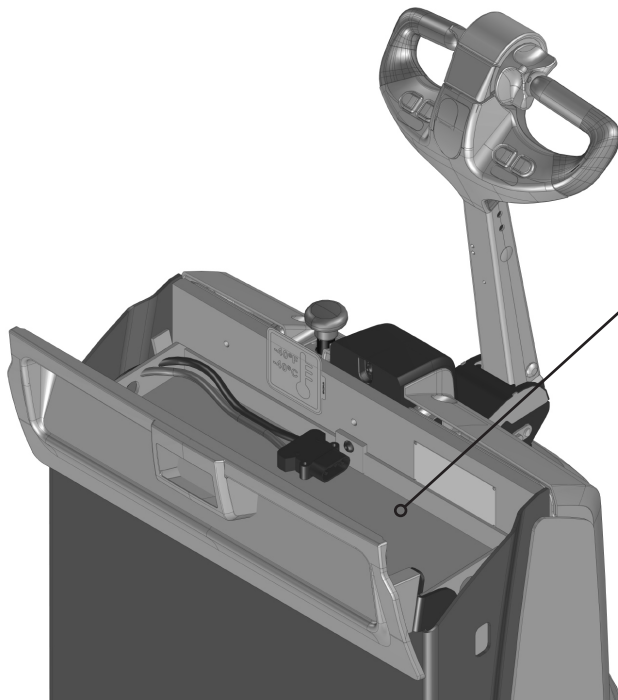
The truck identification data plate is located in the battery compartment.

- Manufacturer's name
- Model
- Serial number
- Weight without battery
- Year of manufacture
- Max. battery weight
- Min. battery weight
- Battery voltage
- Nominal load capacity
- Persons on board

TRUCK SERIAL NUMBER



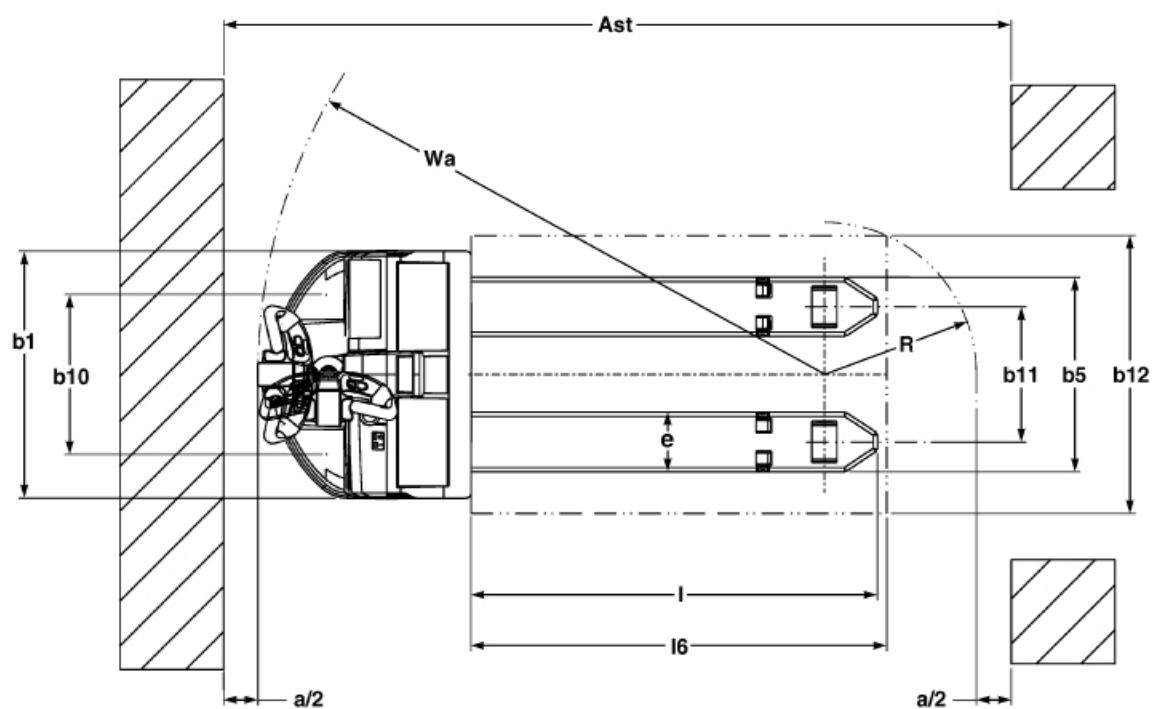
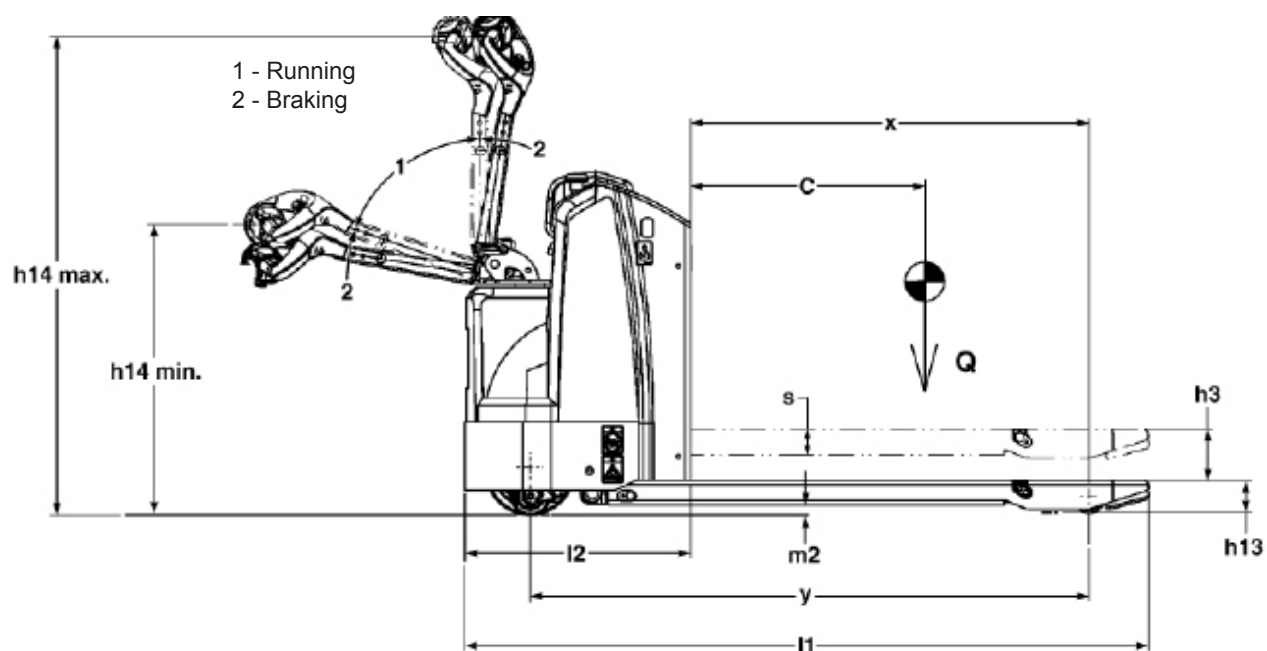
The truck serial number is stamped on top of the frame.

DATA POSITION

The truck documentation is located in the battery compartment.

GENERAL SPECIFICATIONS

P1.8 - P2.0



GENERAL SPECIFICATIONS				
CHARACTERISTICS	1.2	Model		P 1.6
	1.3	Propulsion: battery, diesel, LPG, petrol, electric		Battery
	1.4	Steering: tiller, pedestrian, standing, sitting		tiller
	1.5	Load capacity, load	Q (t)	1.6
	1.6	Centre of gravity	c (mm)	600
	1.8	Load distance from the load wheel axle ⁽²⁾	x (mm)	955
	1.9	Wheelbase (WB) ⁽²⁾	y (mm)	1368
WEIGHTS	2.1	Unladen weight ^{(1) (3)}	kg	545
	2.2	Load per axle when loaded (front/rear)	kg	841 / 1304
	2.3	Load per axle when unladen (front/rear)	kg	425 / 120
WHEELS AND CHASSIS	3.1	Tyres: full rubber, polyurethane, vulkollan (front/rear)		polyur.
	3.2	Tyre size, front	ø (mmxmm)	250 x 75
	3.3	Tyre size, rear	ø (mmxmm)	85 x 110
	3.4	Additional wheels (size)	ø (mmxmm)	100 x 40
	3.5	Wheels: quantity, (x= traction) (front/rear)		1x+2 / 2
	3.6	Front track width	b ₁₀ (mm)	461
	3.7	Rear track width	b ₁₁ (mm)	390
DIMENSIONS	4.4	Lifting	h ₃ (mm)	130
	4.9	Height of tiller in operating position (min/max)	h ₁₄ (mm)	744 / 1221
	4.15	Lowered forks height	h ₁₃ (mm)	83
	4.19	Total length ⁽²⁾	l ₁ (mm)	1734
	4.20	Length of the forks at the heel ⁽²⁾	l ₂ (mm)	578
	4.21	Overall width	b ₁ /b ₂ (mm)	712
	4.22	Fork size	s/e/l (mm)	64 / 172 / 1156
	4.25	Outer fork gauge	b ₅ (mm)	560
	4.32	Ground clearance at wheelbase centre	m ₂ (mm)	21
	4.33	Load dimension b 12 × l 6 crossways	b ₁₂ × l ₆ (mm)	-
	4.34.1	Working aisle width with 1000 x 1200 pallet ⁽²⁾	A _{st} (mm)	2337
	4.34.2	Working aisle width with 800 x 1200 pallet ⁽²⁾	A _{st} (mm)	2204
	4.35	Turning radius ⁽²⁾	W _a (mm)	1535
PERFORMANCE	5.1	Travel speed with/without load	km/h	6 / 6
	5.1.1	Travel speed with/without load.....	km/h	6 / 6
	5.2	Fork lifting speed with/without load	m/s	0.04 / 0.05
	5.3	Fork lowering speed with/without load	m/s	0.09 / 0.04
	5.7	Gradient, with/without load	%	10 / 15
	5.8	Maximum gradeability with/without load	%	14.5 / 20
	5.10	Service brakes		electromagnetic
ELECTRIC MOTORS	6.1	Traction motor, S2 60 minutes	kW	1.25
	6.2	Lift motor, SR 15% rating	kW	1.2
	6.3	BS battery, DIN 43531/35/36 A,B,C, no ⁽⁴⁾		Din 43535 B
	6.4	Battery voltage/nominal capacity ⁽¹⁾	V/Ah	24 / 250
	6.5	Battery weight ^{(1) (3)}	kg	212
	6.6	Energy consumption per VDI cycle	kWh/h at number of cycles	0.384
Drive/lift mech.	8.1	Type of control		AC ~ Mosfet
Upd. data	10.7	Noise level at driver's position	dB (A)	< 70

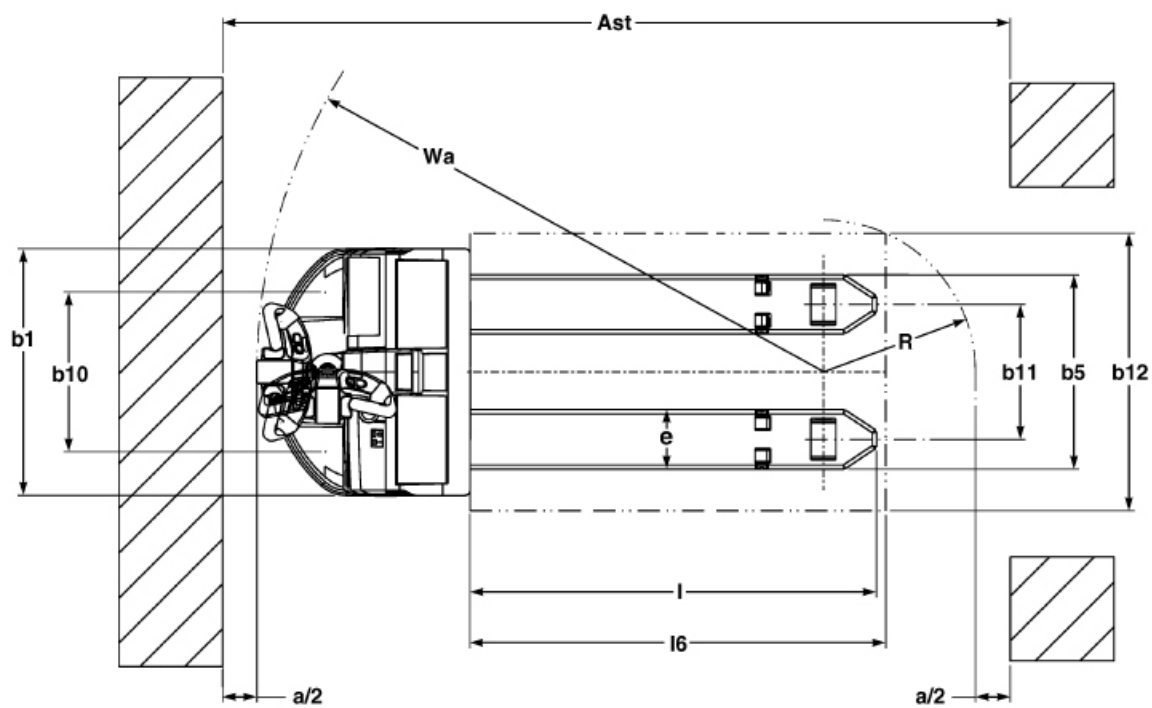
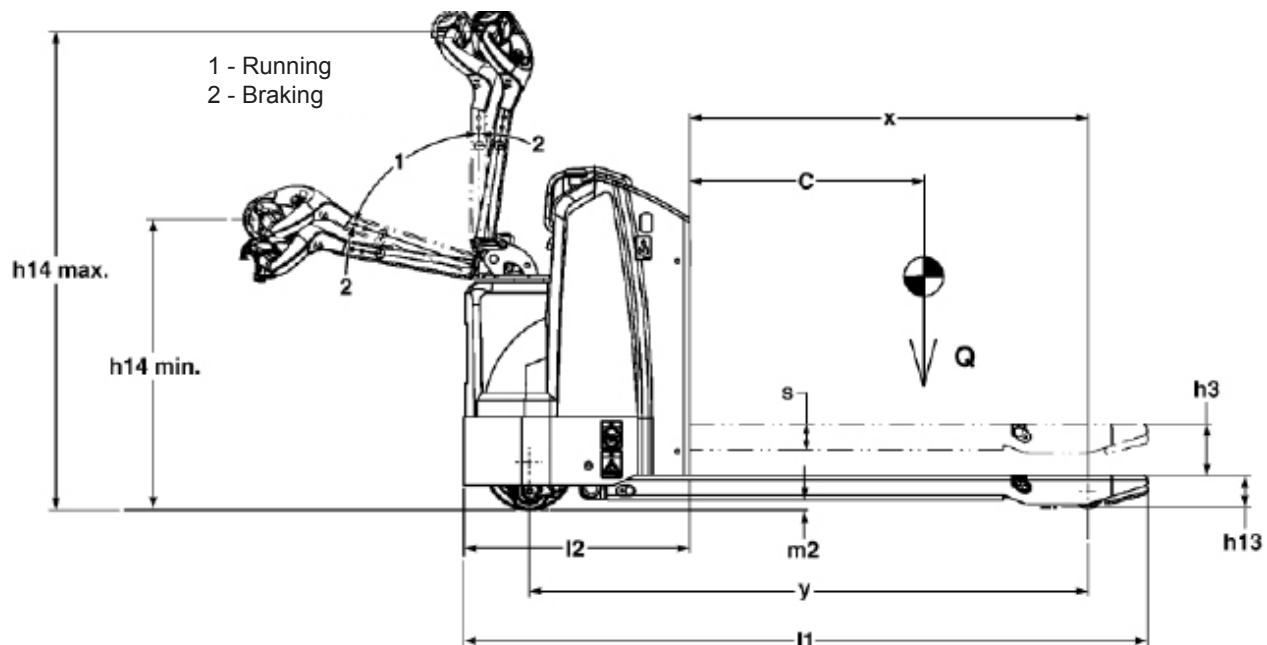
(1) On P1.6 P1.8 available batteries 150Ah,210Ah.
On P2.0 available batteries 150Ah, 210Ah, 250Ah, 315Ah.
On P2.2 available batteries 210Ah, 250Ah, 315Ah.

(2) See "batteries table"

(3) These values can vary by +/- 5%

(4) The 150Ah battery is not DIN 43635 B

P2.0L - P2.2



GENERAL SPECIFICATIONS					
CHARACTERISTICS	1.2	Model		P 2.0	P 2.2
	1.3	Propulsion: battery, diesel, LPG, petrol, electric		Battery	Battery
	1.4	Steering: tiller, pedestrian, standing, sitting		tiller	tiller
	1.5	Load capacity, load	Q (t)	2.0	2.2
	1.6	Centre of gravity	c (mm)	600	600
	1.8	Load distance from the load wheel axle ⁽²⁾	x (mm)	955	955
	1.9	Wheelbase (WB) ⁽²⁾	y (mm)	1440	1440
WEIGHTS	2.1	Unladen weight ^{(1) (3)}	kg	632	632
	2.2	Load per axle when loaded (front/rear)	kg	983 / 1452	983 / 1452
	2.3	Load per axle when unladen (front/rear)	kg	489 / 143	489 / 143
WHEELS AND CHASSIS	3.1	Tyres: full rubber, polyurethane, vulkollan (front/rear)		polyur.	polyur.
	3.2	Tyre size, front	ø (mmxmm)	250 x 75	250 x 75
	3.3	Tyre size, rear	ø (mmxmm)	85 x 110	85 x 110
	3.4	Additional wheels (size)	ø (mmxmm)	100 x 40	100 x 40
	3.5	Wheels: quantity, (x= traction) (front/rear)		1x+2 / 2	1x+2 / 2
	3.6	Front track width	b ₁₀ (mm)	461	461
	3.7	Rear track width	b ₁₁ (mm)	390	390
DIMENSIONS	4.4	Lifting	h ₃ (mm)	130	130
	4.9	Height of tiller in operating position (min/max)	h ₁₄ (mm)	744 / 1221	744 / 1221
	4.15	Lowered forks height	h ₁₃ (mm)	83	83
	4.19	Total length ⁽²⁾	l ₁ (mm)	1806	1806
	4.20	Length of the forks at the heel ⁽²⁾	l ₂ (mm)	650	650
	4.21	Overall width	b ₁ /b ₂ (mm)	712	712
	4.22	Fork size	s/e/l (mm)	64 / 172 / 1156	64 / 172 / 1156
	4.25	Outer fork gauge	b ₅ (mm)	560	560
	4.32	Ground clearance at wheelbase centre	m ₂ (mm)	21	21
	4.33	Load dimension b 12 × l 6 crossways	b ₁₂ × l ₆ (mm)	-	-
	4.34.1	Working aisle width with 1000 x 1200 pallet ⁽²⁾	A _{st} (mm)	2409	2409
	4.34.2	Working aisle width with 800 x 1200 pallet ⁽²⁾	A _{st} (mm)	2276	2276
	4.35	Turning radius ⁽²⁾	W _a (mm)	1607	1607
PERFORMANCE	5.1	Travel speed with/without load	km/h	6 / 6	6 / 6
	5.1.1	Travel speed with/without load.....	km/h	6 / 6	6 / 6
	5.2	Fork lifting speed with/without load	m/s	0.04 / 0.05	0.04 / 0.05
	5.3	Fork lowering speed with/without load	m/s	0.09 / 0.04	0.09 / 0.04
	5.7	Gradient with/without load	%	10 / 15	10 / 15
	5.8	Maximum gradeability with/without load	%	14.5 / 20	14.5 / 20
	5.10	Service brakes		electromagnetic	electromagnetic
ELECTICAL MOTORS	6.1	Traction motor, S2 60 minutes	kW	1.25	1.25
	6.2	Lift motor, SR 15% rating	kW	1.2	1.2
	6.3	BS battery, DIN 43531/35/36 A,B,C, no ⁽⁴⁾		Din 43535 B	Din 43535 B
	6.4	Battery voltage/nominal capacity ⁽¹⁾	V/Ah	24 / 375	24 / 375
	6.5	Battery weight ^{(1) (3)}	kg	288	288
	6.6	Energy consumption per VDI cycle	kWh/h at number of cycles	0.384	0.384
Drive/lift mech.	8.1	Type of control		AC ~ Mosfet	AC ~ Mosfet
Upd. data	10.7	Noise level at driver's position	dB (A)	< 70	< 70

(1) On P1.6 P1.8 available batteries 150Ah,210Ah.
On P2.0 available batteries 150Ah, 210Ah, 250Ah, 315Ah.
On P2.2 available batteries 210Ah, 250Ah, 315Ah.

(2) See "batteries table"

(3) These values can vary by +/- 5%

(4) The 150Ah battery is not DIN 43635 B

