MODEL : AY 1800 PL



Hand Pallet Truck Features

Feature	AY 1800 PL
AYERBE reference	580750
Equipment type	Long-fork hydraulic hand pallet truck
Load capacity (Q)	1,800 kg
Fork length (l)	1,800 mm
Forks (thickness x width)	48 x 160 mm
Overall width over forks (b5)	540 mm
Lowered fork height (h13)	85 mm
Lift (h3)	115 mm
Maximum fork height	200 mm
Overall length (l1)	2,205 mm (calculated)
Tiller height (h14)	1,230 mm
Steering wheels	Ø 200 x 50 mm, POLYURETHANE
Load rollers	Ø 80 x 70 mm, POLYURETHANE, tandem
Wheels	POLYURETHANE
Tiller rotation	200°
Overload valve	Standard
Hydraulic oil	ISO VG32, approx. 0.3 L
Noise level	< 70 dB
Weight	110 kg

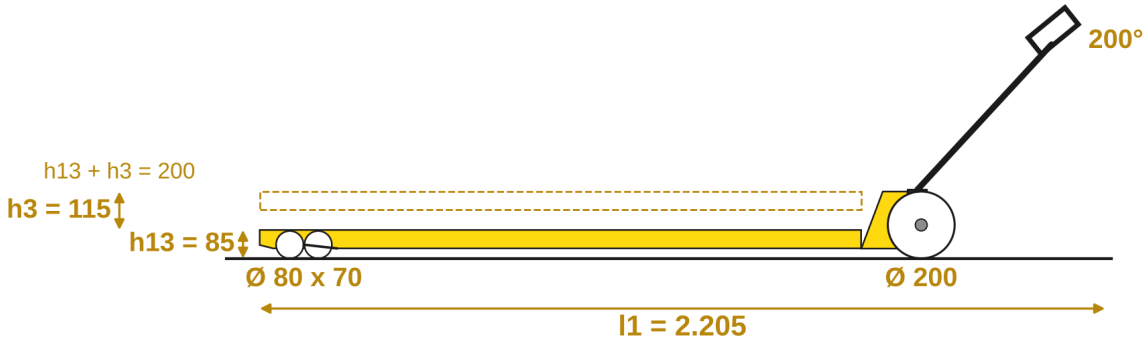
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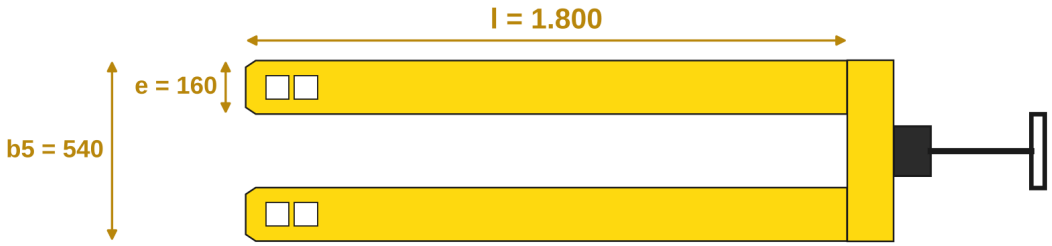
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MODEL : AY 1800 PL

Dimensions and Weight





Nº	Technical data (VDI 2198)	Symbol	Value
1.1	Manufacturer		AYERBE
1.2	Model		AY 1800 PL
1.3	Drive		Manual
1.4	Operation		Pedestrian
1.5	Load capacity	Q	1,800 kg
2.1	Service weight		110 kg
3.1	Wheels and rollers		POLYURETHANE
3.2	Steering wheels		Ø 200 x 50 mm
3.3	Load rollers		Ø 80 x 70 mm
3.5	Number of wheels, front / rear		2 / 4
4.4	Lift	h3	115 mm
4.9	Tiller height in drive position	h14	1,230 mm
4.15	Lowered fork height	h13	85 mm
4.19	Overall length	l1	2,205 mm (calculated)
4.22	Fork dimensions	s / e / l	48 / 160 / 1,800 mm
4.25	Overall width over forks	b5	540 mm

Maximum fork height: h13 + h3 = 200 mm. Indicative diagram, not to scale.

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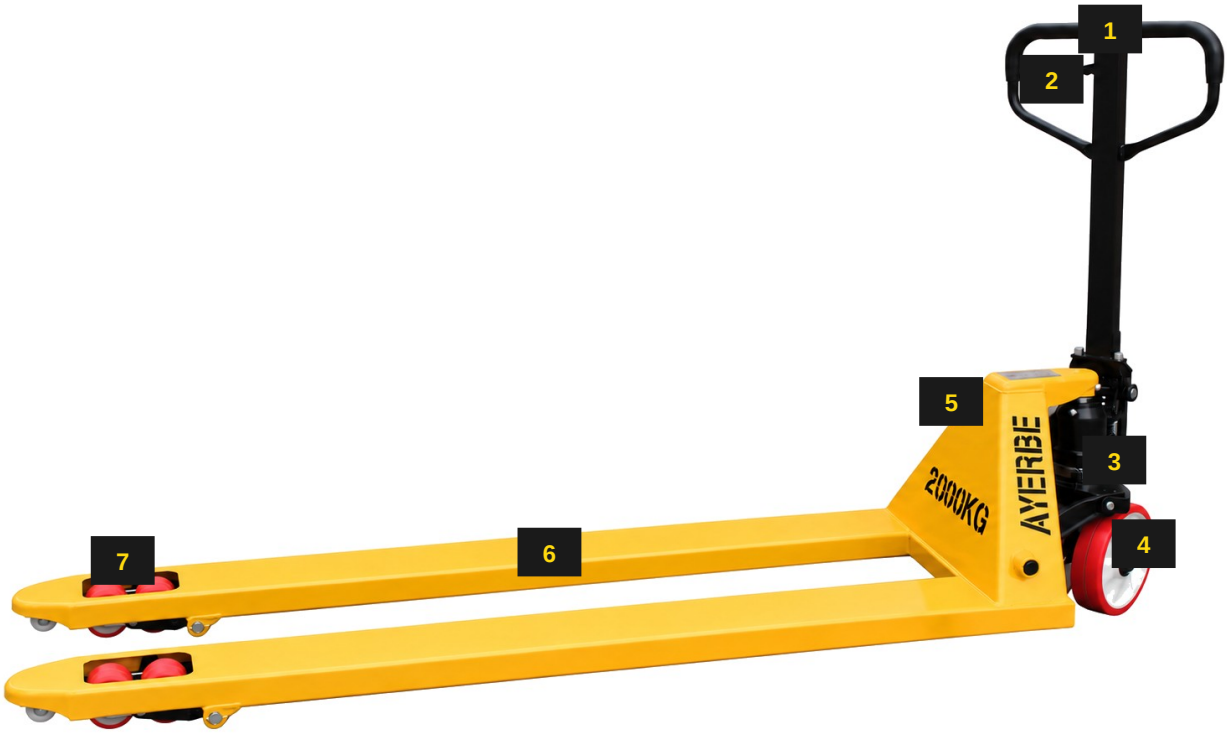
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Equipment Description



1	Tiller	5	Chassis
2	Three-position lever	6	Forks
3	Hydraulic pump	7	Tandem load rollers
4	Ø 200 mm steering wheels		

Details



Tiller with control lever



Hydraulic pump and steering wheels



Tandem load rollers

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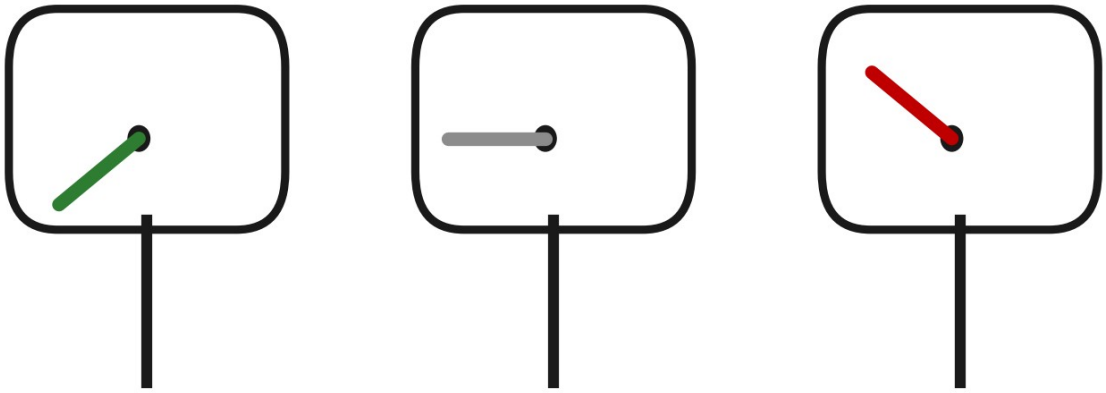
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Three-position lever

RAISE | NEUTRAL | LOWER



Lever down | Lever centred | Lever up

Position	Use
Raise (lever down)	Pumping the tiller raises the forks up to 200 mm.
Neutral (lever centred)	To move the pallet truck: the tiller moves freely and the pump does not act.
Lower (lever up)	The forks lower in a controlled way; when the lever is released, lowering stops and it returns to neutral.

What it means in practice

Overload valve

If the load exceeds the capacity, the valve acts and the truck will not lift: it protects the machine and the operator.

Controlled lowering

The load only lowers while the lever is held up: when released, lowering stops.

200° tiller rotation

Tight manoeuvres in narrow aisles, lorries and back rooms. The wheels turn with the tiller.

Factory greased

All bushes and bearings are greased at the factory and have grease points to extend their service life.

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MODEL : AY 1800 PL

Construction

- Folded steel sheet structure: high strength and long service life.
- Hydraulic pump with overload valve and three-position control lever on the tiller.
- Ergonomic tiller with 200° rotation: the steering wheels turn as the tiller is moved.
- Factory-greased bushes and bearings, with grease points.
- Tandem load rollers and entry/exit rollers for easy pallet entry and exit.

NYLON or polyurethane wheels

	POLYURETHANE (standard)	NYLON
Rolling resistance	Low	Very low: less pushing effort
Floors	Delicate, painted or resin	Smooth and concrete
Noise	Quiet	Noisier
Floor marks	Non-marking	May mark delicate floors
Durability	Good, protects the floor	Highly wear-resistant

Options and Variants to Order

Option	Description
Other fork lengths	From 800 to 1,220 mm in the AY 2500 range
Width over forks	520 mm (standard: 540 mm)
Load rollers	Single (Ø 80 x 93 mm) or tandem (Ø 80 x 70 mm)
Parking foot brake	Pedal with LOCK (braked) and MOVE (free) positions
Progressive drive and parking brake	Lever on the tiller with drum brake
Quick Lift	Under 120 kg it reaches maximum height in about 5 pumps

Options available depending on model: check availability and lead times with AYERBE.

Compatible Pallets

Pallet	Entry	Use
Two Euro pallets 800 x 1,200 mm	From the 800 mm side	Moves two pallets at once
Pallet 1,200 x 1,800 mm	From the 1,200 mm side	Support along the full length
Long loads	Boards, profiles, coils	More support under the load
Pallet 1,000 x 1,200 mm	From the 1,200 mm side	The forks protrude 600 mm

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Maintenance Schedule

Interval	Operation
Daily	Inspection before starting work (see list).
Monthly	Check the hydraulic oil level. Lubricate the grease points with long-life grease (also after each cleaning) and remove any dirt.
Every 6 months	Change the hydraulic oil (sooner if it is dark or gritty). Grease each grease nipple.

Daily inspection

- With the truck unloaded and the forks lowered: check for deformation or cracks, and for noise or jamming in the lifting mechanism.
- Check for oil leaks and that the forks do not lower on their own.
- Check that the wheels turn freely and are free of debris or damage; that bolts and nuts are tight; the brake, if fitted; and that all labels are in place.
- Oil: ISO VG32 (30 cSt at 40 °C), approx. 0.3 L. If it looks milky, there is water: change it immediately.
- Air bleeding: set the lever to the lower position and pump the tiller several times.

Faults and Remedies

Problem	Probable cause	Remedy
Does not lift, does not lift fully or lifts slowly	Low or dirty oil; lever out of adjustment; overload (valve acting); oil too thick from cold; air in the circuit	Top up or change the oil; adjust the lever; reduce the load; move to a warmer place; bleed
Does not lower or does not lower fully	Obstacle under the machine; lever out of adjustment; rusty piston rod; rod or pump deformed by overload	Remove the obstacle; adjust the lever; store with forks down and rod greased; replace
Lowers by itself without using the lever	Impurities in the oil; worn seals or parts; lever out of adjustment	Change the oil; replace parts; adjust the lever
Oil leaks	Worn or damaged seals; other parts cracked	Replace seals or parts

Repairs and pressure valve adjustment must only be carried out by trained technical staff.

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Safety Instructions

- Only trained and authorised personnel wearing safety footwear may operate it.
- Do not overload: maximum 1,800 kg, with the load evenly spread over both forks.
- Do not use it on slopes or inclined surfaces: it could get out of control.
- Lifting or carrying people is prohibited.
- Do not allow anyone in front of or behind the machine while it is moving, lifting or lowering.
- Keep feet away from the front of the wheels and hands and feet away from the lifting mechanism.
- Do not carry unstable, unbalanced or badly stacked loads, or work in explosive atmospheres.
- Watch out for uneven floors and never leave the loaded truck unattended.

Conditions of Use and Standards

- Indoor use on firm, smooth, level floors; not water-resistant: use in a dry environment.
- Ambient temperature from +5 °C to +40 °C; minimum lighting of 50 lux.
- Compliant with Machinery Directive 2006/42/EC. CE marked.
- Applications: warehouses, factories, shops and workshops; loading and unloading lorries; order picking.



1,800 mm forks for two Euro pallets or long loads

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