

User Manual

RAVAS ProLine Touch GMP

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1 Foreword

1.1 Notes on the Operating Instructions

Knowledge is required to operate the industrial truck safely, and this is provided by this ORIGINAL OPERATING MANUAL. The information is presented in a concise and clear format.

This operating manual may cover various models of industrial truck. When operating the truck or carrying out maintenance work, ensure that the description applicable to the specific model of industrial truck in use is followed. Our equipment is subject to continuous development. Please understand that we reserve the right to make changes to the design, equipment and technology. For this reason, no claims regarding specific characteristics of the equipment may be derived from the contents of this operating manual. Various sections of the manual have been compiled together. Consequently, there is no continuous numbering throughout the operating manual.

1.2 Safety instructions and markings

Safety instructions and important explanations are indicated by the following pictograms:

Symbol	Explanation
	DANGER!
	Assembly required

	CAUTION Warnings indicate the presence of a hazard that could result in serious personal injury, death or significant property damage if the warning is ignored
	CAUTION Caution is used to indicate the presence of a hazard that will or may cause a hazard. Failure to observe this may result in minor personal injury or property damage.

2 Intended use

2.1 General

The industrial truck must be used, operated and maintained in accordance with the instructions in this operating manual. Any other use is not in accordance with the intended use and may result in injury to persons, damage to the industrial truck or damage to property

2.2 Intended use

**CAUTION:**

The maximum load capacity and the maximum permissible load centre distance are indicated on the type plate and must be observed. The load must rest completely on the load-bearing equipment and be fully supported

The following activities are intended and permitted:

- Lifting and lowering loads.
- Transporting lowered loads.
- Weighing loads
- Filling of loaded containers

The following activities are prohibited:

- Carrying and lifting people.
- Pushing or pulling a raised load (>30 cm)
- Lifting long loads crosswise.

**CAUTION:**

To ensure that the industrial truck with weighing system functions correctly, care must be taken when using it. Improper handling or damage to the industrial truck or weighing system may lead to inaccurate measurement results.

3 Operator's responsibility

For the purposes of these operating instructions, an 'operator' is any natural or legal person who industrial truck themselves or on whose behalf it is used. In special cases (e.g. leasing, hire), the operator is the person who, in accordance with the existing contractual agreements between the owner and the operator of the industrial truck. The operator must ensure that the industrial truck is used only is used in accordance with its intended purpose and that hazards of any kind to the life and health of the operator or third parties are avoided. Furthermore, compliance with accident prevention regulations, other safety rules and the operating, maintenance and servicing guidelines must be ensured. The operator must ensure that all operators have read and understood them.

4 Fitting of additional equipment

The fitting or installation of additional equipment that interferes with or supplements the functions of the industrial truck is only permitted with the manufacturer's written consent. Where necessary, approval must be obtained from the local authorities, and this may affect technical approvals. However, approval from the authorities does not replace the manufacturer's consent.

5 Permissible operating conditions

5.1 General operating conditions

- Use in industrial and commercial environments.
- For the permissible temperature range, see "Operating conditions" on page 16.
- Use only on paved, load-bearing and level surfaces.
- Use only on clearly visible routes approved by the operator.
- Driving on inclines is not permitted.
- Use in semi-public traffic.

5.2 Operating conditions for the weighing system

1. The weighing system was calibrated prior to delivery for the location specified at the time of contract conclusion. Gravity is location-dependent and defined by gravity zones. If the industrial truck is to be used at a location other than the agreed one, recalibration of the weighing system is required. This can be carried out by the manufacturer or dealer service.

6 Description

The device must only be operated and maintained by trained personnel. The displays of the Proline Touch series offer all the benefits of professional weighing, counting and dosing in the food and pharmaceutical industries.

6.1 Vehicle description

The pallet truck is designed for use on level ground for the transport of goods. It can accommodate pallets with open deck or trolleys. The rated load capacity is indicated on the type plate or the Qmax load capacity plate.

The weighing system allows loads to be weighed, weights to be totalled, a total weight to be displayed, or material to be dispensed into and from containers. If the printer option has been activated, the current weighing data and entered data, such as date and time, can be printed on the built-in printer.



CAUTION regarding calibrated weighing systems:

The validity of the calibration expires in the event of damage to the industrial truck, manual interference with the operation of the equipment (such as opening the housing), or damage to or removal of the verification labels.

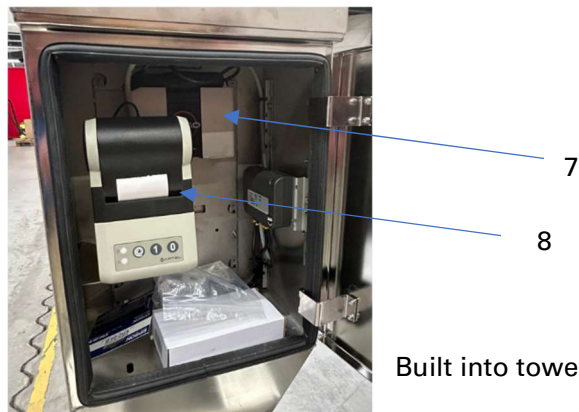
Weighing systems subject to calibration with deviations outside the permissible error limit, a missed recalibration date, or expired calibration validity must be taken out of service.

7 Component and functional description

7.1 Overview



1. Drawbar including handle for raising/lowering
2. Steering wheels
3. Foot parking brake
4. Load-bearing equipment
5. Swivel castors
6. Scale display



7. Battery
8. Printer

Built into tower:

8 Technical data

The technical data provided complies with the German guideline "Data sheets for industrial trucks". Subject to technical changes and additions.

8.1 Pallet truck specifications:

Rated load capacity:	2000 kg
Load centre of gravity:	600 mm
Lowering speed	
Manual with/without load:	max 90 / 20 mm/s

8.2 Weight display:

Maximum capacity:	1000 kg
Graduation:	0.1 kg from 0 kg to 1000 kg load

Optional multi-range display:

Multi-range scale ("Multi-Interval" scale) automatically switches the display to the finer display range (smaller division) when unloaded, or back to e as soon as the load falls below a certain threshold.

0.1 kg from 0 kg to 200 kg load

0.2 kg from 200.2 kg to 400 kg load

0.5 kg from 400.5 kg to 2000 kg load

Electrical connection:	12 VDC, power consumption max. 20 VA.
Operating temperature:	-10 °C to +40 °C, max. 95% relative humidity
Screen and keyboard:	7-inch colour TFT display (800 x 480 pixels) with wide viewing angle, touchscreen operation.

8.3 Weighing system deviation

Within a temperature range of -10 to +40 °C, the maximum weighing deviation is 0.1% of the weight measured.



CAUTION:

The ambient temperature must remain constant. Short-term temperature fluctuations affect reproducibility.

Even a barely perceptible draught acts as a mechanical load on the balance and can affect the weighing result.

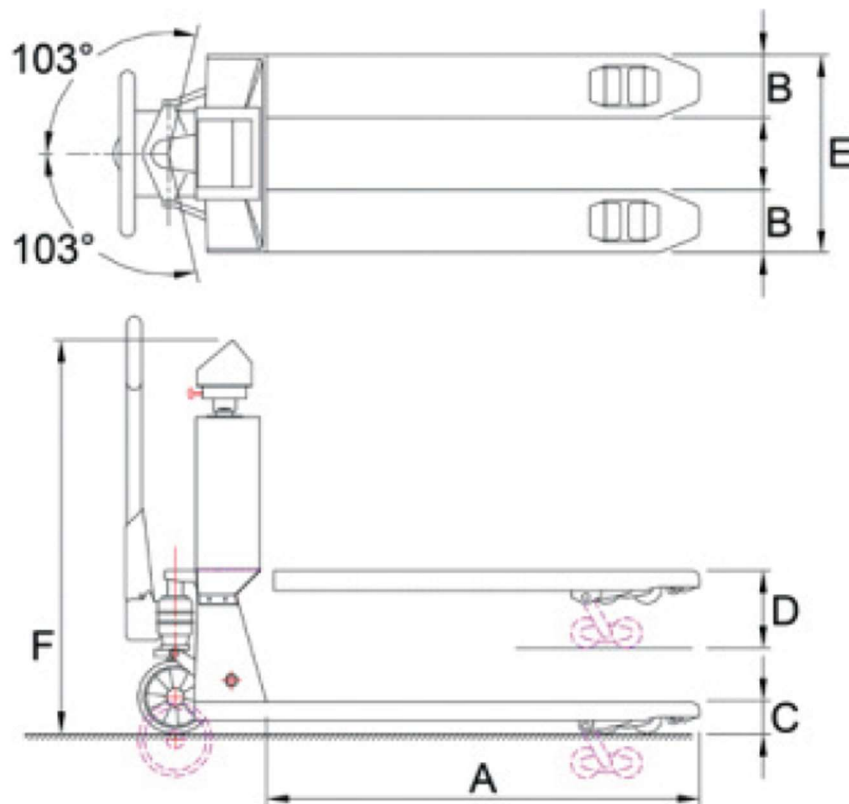
8.4 Dot matrix printer:

Power supply:	12 V DC
Operating temperature:	-5 to 50°C
Dimensions:	8.3 x 8.5 x 4.8 cm
Weight:	125 g without paper roll
Print output:	max. 24 characters per line
Paper roll:	57 x DN 50 / DN 12 mm Item no. PRP-PAP-RAVAS-57-50-12
Ribbon:	black Item no. RAV-PRP-RIB-RAVAS

8.5 Weight:

Net weight:	170 kg
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8.6 Dimensions:



A	Fork length	1150	mm
B	Fork width	160	mm
C	Minimum fork height	90	mm
	Minimum clearance	20	mm
D	Maximum fork height	205	mm
	Lifting height	120	mm
E	Width over forks	550	mm
F	Height of top edge of display	1225	mm

8.7 Battery:

Battery type:	Lithium battery LiFePO4
Nominal voltage:	12.8 V
Rated capacity:	10 Ah
Rated energy:	128 Wh
Dimensions:	151 x 65 x 99 mm
Weight:	1.06 kg
Charging temperature:	-3 to 60°C
Discharge temperature:	-3 to 60°C
Storage temperature:	-20 to 45°C

8.8 Tyres:

Tow bar tyres: Nylon with stainless steel bearing

Load tyre: Single nylon with stainless steel bearing

8.9 Operating conditions:

Ambient temperature: -3 to 40°C



CAUTION:

Rapid temperature changes must be avoided, as otherwise moisture may condense in the electronics. The weighing system must be switched off during acclimatisation if there are significant temperature differences.

Rapid short-term temperature changes affect reproducibility

9 Transport:

Improper securing of the industrial truck and the mast during transport can lead to serious accidents. Loading must only be carried out by specially trained personnel. The personnel must be trained in load securing on road vehicles and in the use of load securing aids. The correct assessment and implementation of load securing measures must be determined on a case-by-case basis. When transported on a lorry or trailer, the industrial truck must be properly lashed down. The lorry or trailer must be fitted with lashing eyes. Secure the industrial truck against unintended movement using wedges or wooden blocks. Use only lashing straps with sufficient breaking strength.

10 Initial commissioning:

Procedure:

- Check the equipment for completeness.
- Connect the battery
- Switch on the scale display (see scale display operating instructions)

The industrial truck can now be put into operation in accordance with the instructions for daily commissioning.

11 Battery replacement / charging:

11.1 Safety regulations for handling rechargeable batteries:

Maintenance personnel

The operator is authorised to charge rechargeable batteries and replace batteries. These operating instructions and the regulations of the battery and battery charger manufacturers must be observed when carrying out these tasks.

Battery disposal

Batteries may only be disposed of in accordance with and in compliance with national environmental protection regulations or waste disposal laws. The manufacturer's disposal instructions must be strictly followed.



CAUTION:

Risk of accident and injury when handling batteries

Batteries and rechargeable batteries contain chemicals that are toxic and corrosive. Avoid contact at all costs.

- Do not dismantle or force open batteries or rechargeable batteries.
- Do not expose batteries and rechargeable batteries to heat, fire or direct sunlight.
- Do not short-circuit batteries and rechargeable batteries. Store batteries and rechargeable batteries in such a way that no short-circuit can occur due to contact with other batteries and rechargeable batteries or metal objects.
- Never use batteries or rechargeable batteries from different manufacturers, or of different capacities, sizes or types, in the same device at the same time.
- Failure to observe this warning may result in an explosion!
- Seek medical attention immediately if a battery or rechargeable battery has been swallowed.
- Do not subject batteries and rechargeable batteries to impact.
- Keep battery terminals and contacts clean and dry.
- If a battery or rechargeable battery leaks, do not allow the liquid to come into contact with the skin or eyes. If this does happen, rinse the affected area with plenty of water and seek medical attention immediately.
- Store batteries and rechargeable batteries in a clean and dry environment, out of the reach of children.

12 operation

12.1 Safety regulations for the operation of the industrial truck

Operating Licence

The industrial truck may only be operated by persons who have been trained in its operation, have demonstrated their ability to drive and handle loads to the operator or their representative, and have been expressly authorised by them to operate the vehicle; where applicable, national regulations must be observed.

Rights, duties and rules of conduct for the operator

The operator must be informed of their rights and duties, instructed in the operation of the industrial truck and familiar with the contents of this operating manual. When operating industrial trucks in pedestrian-operated mode, safety footwear must be worn.

Prohibition of use by unauthorised persons

The operator is responsible for the industrial truck during the period of use. The operator must prohibit unauthorised persons from moving or operating the industrial truck. No persons may be carried or lifted.

Damage and defects

Damage and other defects to the industrial truck or attachment must be reported to the supervisor immediately. Industrial trucks that are unsafe to operate (e.g. worn-out wheels or defective brakes) must not be used until they have been properly repaired.

Repairs

Without authorisation and without special training, the operator must not carry out any repairs or modifications to the industrial truck or attachments such as scales. Under no circumstances must the operator disable or tamper with safety devices or switches.

12.2 Danger zone

Risk of accident/injury in the danger zone of the industrial truck

The danger zone is the area in which persons are at risk from the movement or lifting actions of the industrial truck, its load-handling attachments or the load. This also includes the area that can be reached by a falling load or a lowering/falling work attachment.

- Keep unauthorised persons out of the danger zone.
- Give a warning signal in good time if there is a risk to persons.
- If unauthorised persons do not leave the danger zone despite being asked to do so, bring the industrial truck to a standstill immediately.

12.3 Description

12.3.1.1 Lifting / Lowering Pallet Truck

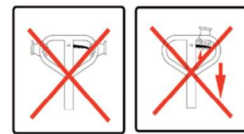


The tiller of the pallet truck also serves as a pump handle. A built-in valve allows the tiller to be moved slowly into the desired position. To lift the load, the drawbar must be moved quickly. To lower the load, the operator carefully pulls the drawbar's release lever, which activates this function. The lowering function is infinitely adjustable. The upper part of the drawing has been added to illustrate the functions mentioned.



CAUTION:

There is a risk of becoming trapped under the forks and pallets. Ensure that no one is standing nearby when lowering the forklift. When operating the forklift, always position your hands at the top of the handle and always use both hands.



CAUTION:

Always park the pallet truck with the forks in the lowest position. Always park the pallet truck on a level surface to prevent it from rolling unintentionally into areas where it could endanger other people.

12.3.1.2 Parking brake

The industrial truck can be braked or secured by operating the brake lever on the right-hand side.

Pressing the brake lever on the left-hand side releases the brake.



CAUTION:

Braking performance may deteriorate as the tyres wear down. Observe the service schedule.

12.3.1.3 Scale display

See separate instructions for the ProLine Touch Basic Terminal for hand pallet trucks.

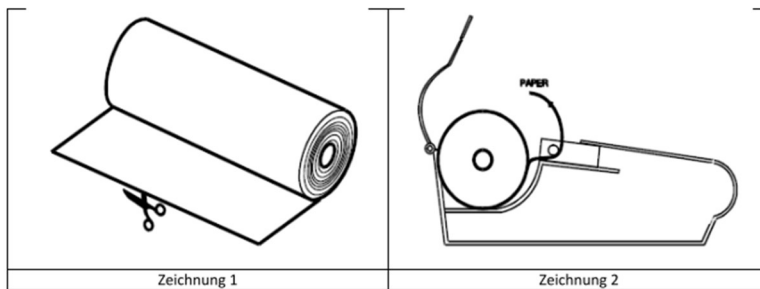
12.4 Lifting and transporting loads

See separate instructions for the ProLine Touch Basic Terminal for hand pallet trucks.

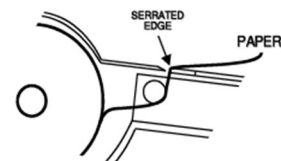
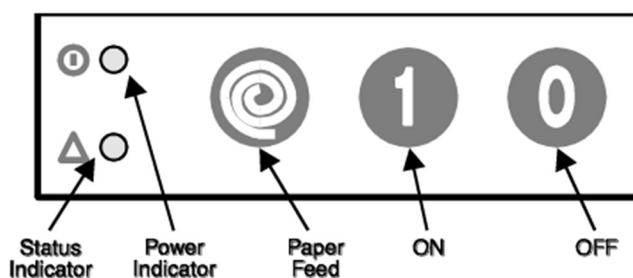
12.5 Matrix printer

External dot matrix printer mounted on the tower. To minimise energy consumption and thus conserve battery power, the printer is only powered during the printing process.

Paper change



- To open it, gently press the cover on both sides and lift it upwards. Do not pull too hard to avoid causing damage.
- Remove the remaining paper using the paper feed button; **do not pull the paper out from the back of the printer!**
- Unroll a few centimetres of the new paper roll and check that the end is cut straight. (see diagram 1)
- Place the new paper roll in the holder and close the cover.
- Feed the start of the paper through the paper feed until you feel resistance.



- Press the paper feed button and pull the paper through the printer mechanism. (see diagram 2)
- Keep the button pressed until there is enough paper for it to protrude safely from the cover.

Replacing the ribbon:

- To open, gently press the cover on both sides and pull it upwards. Do not pull too hard to avoid damage.
- Remove the old ribbon by gently pulling on the plastic casing (Figure 1).



Figure 1



Figure 2



Figure 3



Figure 4

- Insert the ribbon (Figure 2) in the same position. Ensure that the paper is between the ribbon and the plastic housing. (Figure 3)
- Gently press down on the top edge of the ribbon holder to move it into the correct position (Figure 4)

13 Troubleshooting:

This chapter enables the user to identify and rectify simple faults or the consequences of incorrect operation themselves. When troubleshooting, follow the sequence of steps specified in the table.

If the industrial truck cannot be restored to working order after carrying out the following 'remedial measures', please contact the manufacturer's service department. Further troubleshooting must only be carried out by the manufacturer's qualified service personnel. The manufacturer has a customer service team specially trained for these tasks.

To enable the customer service team to respond to the fault quickly and effectively, the following information is important and helpful:

- Serial number of the scale display
- Description of the fault
- Current location of the industrial truck.

Lifting not possible:

- Handle in incorrect position
- Maximum load capacity exceeded
- Automatic neutral valve in incorrect position

No scale display

- Check the power supply and replace the battery if necessary
- See separate instructions for the ProLine Touch Basic Terminal for hand pallet trucks

14 Maintenance and inspection



CAUTION:

The industrial truck is equipped with sensitive measuring technology:

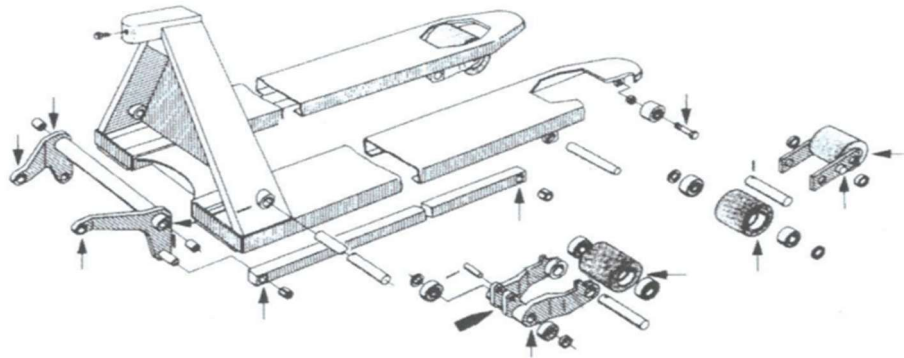
To ensure that the industrial truck with weighing system functions correctly, extra care must be taken when using it. Improper handling or damage to the industrial truck or weighing system can lead to inaccurate measurement results

The operating conditions of an industrial truck have a significant influence on component wear. Where demands are higher, the intervals should be shortened accordingly.

	Daily	Weekly	Monthly
Cleaning	x		
Check for damage and cracks	x		
Lubrication		x	
Oil level, pump			x
Parking brake	x		
Wheels for wear and damage	x		
Drawbar return function	x		
Screw connections			x
Legibility and completeness of signage and type plates			x
Lifting function/lowering function			x

Cleaning:

The frequency of cleaning depends on the operating environment of the industrial truck. It is recommended that cleaning requirements be determined in accordance with applicable company guidelines. The pallet truck can be cleaned with warm water and car wash detergent or a similar product. After cleaning, the truck should be wiped down and the moving parts lubricated (see the Maintenance and Lubrication section).

Lubrication of the chassis:**Warning:****Danger if oils are handled incorrectly**

Oils (chain spray / hydraulic oil) are flammable and toxic.

- Dispose of used oil in accordance with regulations. Store used oil safely until it is disposed of in accordance with regulations
- Do not spill oils.
- Immediately remove any spilled or leaked oil using a suitable absorbent material.
- Dispose of the mixture of absorbent material and oil in accordance with applicable regulations.
- Comply with the legal regulations governing the handling of oils.
- Wear protective gloves when handling oils.
- Do not allow oils to come into contact with hot engine parts.
- Do not smoke when handling oils.
- Avoid contact and ingestion. If swallowed, do not induce vomiting; seek medical attention immediately.
- If oil mist or vapours are inhaled, provide fresh air.
- If oils have come into contact with the skin, rinse the skin with water.
- If oil comes into contact with the eyes, rinse them with water and seek medical attention immediately.
- Change soaked clothing and shoes immediately

15 Decommissioning the hand pallet truck with scales

If the industrial truck with scales is taken out of service for longer than one month, it must only be stored in a frost-free and dry room.

16 Safety inspection based on time elapsed and exceptional incidents

The industrial truck or hand pallet truck with scales must be inspected at least once a year (observe national regulations) or following specific incidents by a person specially qualified for this purpose. The manufacturer offers a safety inspection service carried out by personnel specially trained for this task. A comprehensive inspection of the industrial truck's technical condition must be carried out with regard to accident prevention. In addition, the industrial truck must be thoroughly inspected for damage. The operator is responsible for rectifying any defects without delay.

17 Spare parts

Item number	Description
RAV-PTP-A-WH-SL-NYL-STST	Nylon load roller
RAV-PTP-A-WH-ST-NYL-STST	Nylon steering wheel
RAV-PTP-A-REP-STST	Seal kit for stainless steel pump
RAV-PTP-A-PUMP-STST	Lifting hydraulics pump in VA
RAV-PTP-A-HAN-STST	Complete drawbar in VA
RAV-IN-TOUCH-INT	IT8000 touchscreen display
RAV-INP-DISPLAY-TOUCH	7-inch touch display module
RAV-EB-POWERSUPPLY-TOUCH	Power supply board for touch display
RAV-SA-HO-SYN-JUNCTION	Load cell connection box, plastic
RAV-LC-500-M-1000	Load cell 500 kg, calibratable
RAV-PR-EXT-MX-MCPK6701	Martel MCPK6701 printer, light grey
RAV-PRP-PAP-RAVAS-57-50-12	Paper roll for dot matrix printer
RAV-PRP-RIB-RAVAS	Ribbon for dot matrix printer
RAV-SA-CH-14.6-5A	Charger for 5Ah Li-ion battery
RAV-BA-12.8V-10AH	12V 10Ah battery

18 Final decommissioning, disposal

The final and proper decommissioning or disposal of the industrial truck must be carried out in accordance with the applicable legal provisions of the country of use. In particular, the provisions for the disposal of the battery, operating materials, and the electronic and electrical systems must be observed. The dismantling of the industrial truck may only be carried out by trained personnel in accordance with the procedure prescribed by the manufacturer.