

Operating Instructions
Hand pallet trucks
HU Profi

Issue 08.2000

Index

Introduction

1.1 Product description

1.2 General information on service and maintenance

1.3 Spare parts

1.4 Dimensions

Correct operation

2.1 Maximal lifting capacity

2.2 Danger zones

2.4 Incorrect operation 2.3 Service and maintenance

Assembly of the handle

w

4 Adjust of lowering action

O Functions and operation

Spare parts lists Oil level

right to make changes and modifications to the product at any time. Should this lead to differences and/or discrepancies please contact your service centre All the information contained in this handbook is valid as of 08.98. We reserve the

Introduction

economic way. Acting in accordance with these instructions helps to avoid danmust read the operation instructions and act accordingly: time of the truck. Anyone involved in doing any of the following work with the truck gers, reduce repair costs and down time and to increase the reliability and lifecontain important information on how to handle the truck in a safe, correct and him to use it to the full extent of its intended capabilities. The operating instructions tion. I hese instructions are intended to acquaint the user with the truck and enable All users must read these operating instructions carefully prior to the initial opera-

- operation, including preparation, trouble shooting during operation and cleaning
- maintenance, inspection, repair
- transport

regulations for safe and professional work must be adhered to. respective country and area where the truck is used, also the commonly accepted Apart from the operating instructions and the accident prevention act valid for the

Hand Pallet Trucks



= Product description

completely level ground This electric fork lift truck has been designed to lift, lower and transport loads over

must never be exceeded safety of personnel and to prevent damage to the truck this maximum lifting capacity A nameplate on the frame shows the maximal lifting capacity of the truck. For the

made to the truck. The manufacturer is to be consulted before any attachments or modifications are

1.2 General information on service and maintenance

the quality of service. For this reason the recommended inspections, service and maintenance are to carried out on time and with great care. The working life span, operational reliability and safety of the truck depend greatly on

.3 Spare parts

ing information available when ordering spare parts: To eliminate delays, mistakes and to save time and reduce costs always make follow-

- Truck model
- Model code
- Part-number
- Part designation
- Number of parts required
- Exact delivery address and means of transport

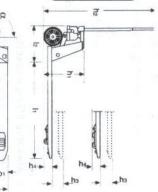
insufficient or incorrect data in the spare part order. We cannot accept any responsibility for the faulty supply of spare parts resulting from

Use only original Yale spare parts

Dimensions in mm

/lodel	₹	굺	ੜ	굿	7	2	ā	b 2	Ω	Wght
										k
J Profi 20S	410	1230	120	80	1150	373	150	520	95°	74
lu Profi 20T	410	1230	120	8	1150	373	150	520	95°	76
u Profi 25S	410	410 1230 120	120	8	1150	373	150	520	95°	75
lu Profi 25T	410	1230	120	80	80 1150	373	150	520	9	77

T T T T

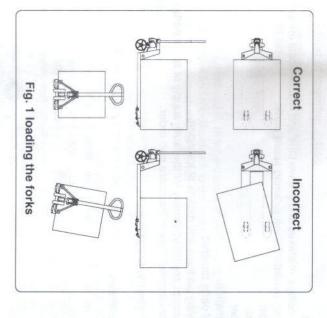




Correct operation

N

The hand pallet truck has been constructed to transport pallets/skeleton boxes, containers or similar over even, level ground. The lifting and lowering hydraulic unit and the steering assembly are protectively incorporated within the robustly welded steel frame. The bearings for the steering and the lifting linkage are also situated here. This construction facilitates access for inspection and service. When required the valves are easily removed and replaced. The hydraulic and steering assemblies form a single compact unit. Steering and the lift and lower operations are controlled from the handle. The load should be positioned equally on both forks and load centre must be between the load and steering wheels. The load is to be positioned so that there is no danger of it overturning. The steering has a lock of more than 90° in both directions



2.1 Maximal lifting capacity

The Yale hand pallet truck was designed to transport loads up to the rated capacity. The capacity indicated on the truck is the maximum safe working load which must not be exceeded.

Hand Pallet Trucks



2.2 Danger zones

Do not lift or transport loads while personnel are in the danger zone. Do not place hands or feet under the raised forks.

Raised loads are not to be left unattended for a longer period of time.

The operator may only start to move the load when he is sure the load will not overturn and that all personnel have left the danger zone.

2.3 Service and maintenance

Adhering to the inspection and maintenance instructions is as much a part of the "defined intended use" of the truck as acting in accordance with the operating instructions. If faults are detected the truck must be put out of service immediately. To ensure that the truck remains in safe working order it is to be subjected to regular inspections by a competent person. Inspections are to be annual unless adverse working conditions dictate shorter periods. The components of the truck are to be inspected for damage, wear, corrosion or other irregularities and all safety devices are to be checked for completeness and effectiveness. Repairs may only be carried out by a specialist workshop that uses original Yale spare parts.

The bearings of pins, axles and linkage are to be cleaned and greased (e.g. Shell FD 2 or similar). Check the hydraulic system for leaks and top-up the hydraulic reservoir (max. oil level = bottom edge of filler bore) with forks lowered.

2.4 Incorrect operation

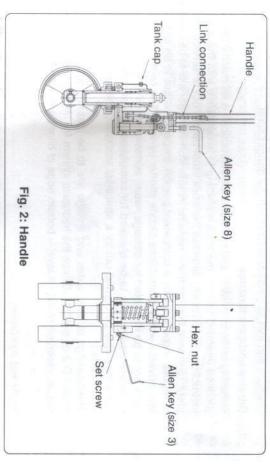
- Do not exceed the maximum lifting capacity of the hand pallet truck.
- It is forbidden to carry personnel on the hand pallet truck.
- Space the load evenly on the forks
- It is forbidden to use the hand pallet truck (without brakes) on gradients.
- It is forbidden to lift loads with the tips of the forks (e.g. to raise a machine).

Indent-Nr.: 09900113/0898E



w Assembly of the handle (see Fig. 2)

handle onto the actuating block and secure with three screws. Connect the link connection to the lever. Threading the link connection through the bore of the actuating block. Place the



Adjust lowering action (see Fig. 2)

setscrew 11/2 turns anticlockwise the setscrew in a clockwise direction until the forks just start to lower. Now turn the lever to the "Neutral" middle position (Fig. 4 y1). Loosen the hex. nut. Slowly turn pumping actions with the handle until the forks are fully raised. Switch the control Switch the control lever to the lower "Down" position (Fig. 4 y2) and make several

Secure the setscrew with the locking nut.

The lowering function must be available in all handle positions.

Functions and operation (Up/Down/Neutral, see Fig. 4)

5

several pumping actions with the handle UP: Switch the control lever to the lower "Down" position (Fig. 4 y2) and make

Down: Switch the control lever to the raised "Up" position (Fig. 4 - y3), until the forks have lowered to the desired position

tion (Fig. 4 - y1). Neutral: To transport a load the control lever must be in the centre "Neutral" posi-

Hand Pallet Trucks



Oil level (See Fig. 2)

6

Check the oil level every six months (oil viscosity 30 Cst at 40 °C / total volume

Check the oil level as follows:

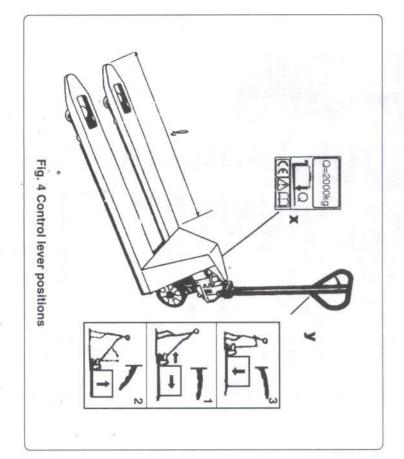
Lower the forks completely. Remove the cap (screw, seal washer and O-Ring)

Remove seal and rubber cover.

Add oil until it is level with the lower edge of the opening

Replace cap.

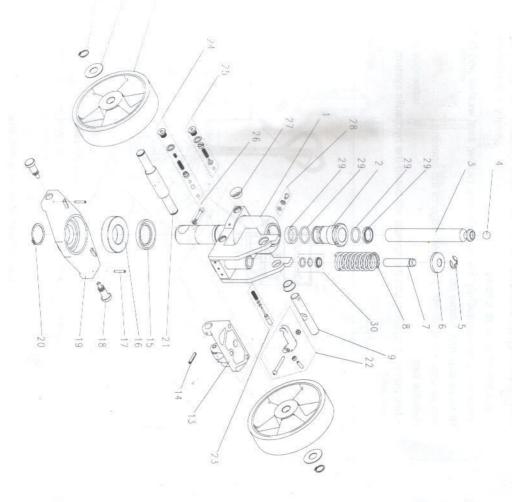
A few pumping actions with the handle will bleed the hydraulic system.



6



Hydraulic



Hand Pallet Trucks

Hydraulic

Pos. Part-No.

Description

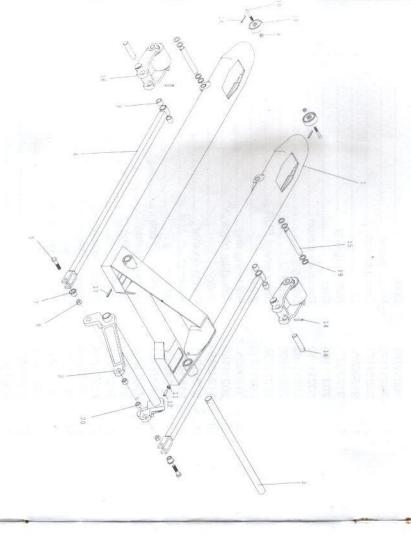
Quantity

Shaft	Seal kit (lift Seal kit (p	20211221	30
y lever, assyvalve, assy	Seal kit (li	100-100	
g lever, assyvalve, assycontrol valve, assy	Odb (rains	20211220	* 29
g lever, assyvalve, assye, assycontrol valve, assy	Can (tank	20211219	28
y lever, assyvalve, assye, assycontrol valve, assy	bush	9153088	27
y lever, assyvalve, assye, assye	Fitting	20211218	26
g lever, assy. valve, assy.	Pressure	20211217	25
g lever, assy.	Main valve, assy.	20211216	24
g lever, assy.	Lowering	20211215	23
	Operating	20211214	22
•	Shaft	20211212	21
ring	Retaining ring	9129009	20
plate	Bearing plate.	20211210	19
ng bolt	Connecting bolt	20211127	18
	Rollpin	9134098	17
	Bearing	9151815	16
asher	Thrust washer	20211211	15
	Rollpin	9134058	14
block	Actuating block	20211165	13
ring	Retaining ring	9129025	12
	Washer	20211213	=
eel PUR	Steer wheel PUR	20211132	0
	Shaft	20211166	9
	Spring	20211163	ω
piston	Pressure piston	20211162	7
	Cap	20211164	0)
ring	Retaining ring	9123027	Oi
	Ball	9159025	+2
ston	Lifting piston	20211171	ω
iide	Piston guide	20211170	2
	Body	20211161	_





Frame



Hand Pallet Trucks

Frame

Pos. Part-No.

Description

Quantity

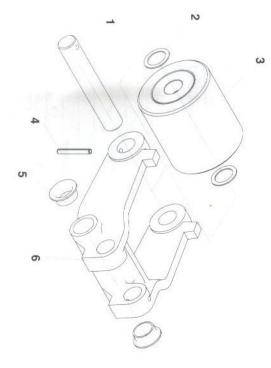
8 N N N N		9121220	Č
N N N N	Shim washer		19
N N N	Load roller, single PA	20211313	18.4
2 2	Load roller, single PUR	20211205	18.3
2	Load roller, tandem PA	20211312	18.2
	Load roller, tandem PUR	20211123	18.1
···	Rollpin	9134001	17
2	Shaft (link/LRG)	20210326	16
2	Shaft (frame/LRG)	20210324	15
4	Rollpin	9134050	14
2	Entry roller	20210317	13
···	Screw	09102029	12
 -	Lockwasher	09122032	=
2	Screw	9101052	10
2	Screw with clamping element	9115805	9
4	Bush	20211105	8
2	Eccentric	20211104	7
2	Screw with clamping element	9115118	0
2	Screw	9101049	G
2	Link (1220)	20212106	4.2
2	Link (1150)	20211106	4.1
1	Shaft (686)	20212126	3.2
1	Shaft (520)	20211126	3.1
	Crank (686)	20212100	2.2
<u>-</u>	Crank (520)	20211100	2.1
	Frame (1220 x 686)	20212122	1.2
 _	Frame (1150 x 520)	20211122	$\vec{\Box}$







Load roller, single

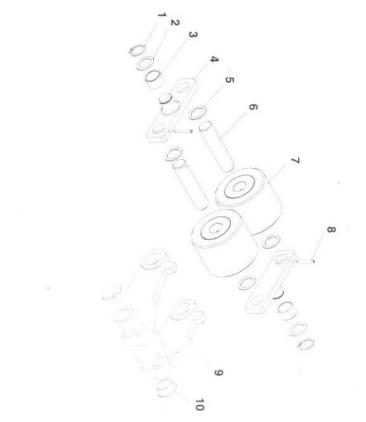


Pos.	Pos. Part-No.	Description	Quantity
_	20211204	Shaft (load roller S)	-
2	9121177	Shim washer	2
3	20211200	Load roller single Pa	_
3.2	20211201	Load roller single PUR	
4	9134050	Rollpin	→
5	9153088	Bush	2
6	20211203	Load roller fork single	_

Hand Pallet Trucks



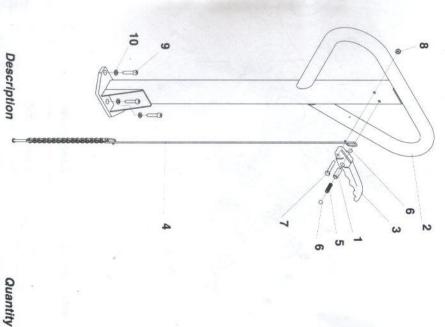
Load roller, tandem



Pos.	Pos. Part-No.	Description	Quantity
_	9129025	Retaining ring	2
N	9121220	Shim washer	N
ů	20211110	Bush	2
4	20210320	Link	2
5	9121177	Shim washer	4
6	20210323	Shaft (load roller T)	N
7.1	20211263	Tandem load roller PUR	N
* 7.2	20211202	Tandem load roller Pa	2
00	9134085	Rollpin	2
9	20211264	Load roller fork, tandem	_
10	9153088	Bush	2



Handle



20211135 Sleeve	ω	Lockwasher	9122033	10	
Screw with cla	ω	Screw	09102024	9	
Sleeve Handle Lever Link connectic Spring Ball, 8 mm Screw	_	Screw with clamping element	9115135	00	
Sleeve Handle Lever Link connectic Spring Ball, 8 mm	_		9101056	7	
Sleeve Handle Lever Link connectic Spring	2	Ball, 8 mm	9159008	6	
Sleeve Handle Lever Link connection	_		20211145	G	
Sleeve Handle Lever	_	Link connection	20211142	4	
Sleeve	_	Lever	20211140	ů	
Sleeve	_		20211138	2	
	_		20211135	_	

Pos.

Part-No.

Hand Pallet Trucks



in accordance with Machinery Directive 89/392/EEC. Appendix II A. EC DECLARATION OF CONFORMITY

We

D- 42549 Velbert, Am Lindenkamp 31 Yale Industrial Products GmbH

and in accordance to the operating instructions and/or not be inspected regularly. Furthermore, validity of this declaration will cease in case that the machine will not be operated correctly this declaration will cease in case of any modification or supplement not being agreed with us previously. complies with the essential health and safety requirements of the EC Machinery Directive. The validity of hereby declare, that the design, construction and commercialized execution of the below mentioned machine

Machine description:

HU-Series - Hand Pallet Trucks

HU PF 12 - Electric Pallet Trucks, manual lift

HU HS 10, HU ES 10 - Scissor Pallet Trucks, manual/power lift

EGU ES - Electric Pallet Trucks, power lift and traction EGU EL - Electric Pallet Trucks, power lift and traction

HV TM - Manual Drive Stackers, elctro-hydraulic lift

EGV TE - Electro-hydraulic Stackers

EGV TG - Electro-hydraulic Stackers EGV LE - Electro-hydraulic Stackers

EGV LE F - Electro-hydraulic Stackers

Industrial trucks

Serial number:

Machine type:

EC Directives: Relevant

standards in particular: Transposed harmonised

from manufacturing year 01/98

in the production book with the remark CE-sign) (serial numbers for the individual capacities/models are registered

EN 292, part 2 (safety of machines) EN 292, part 1 (safety of machines)

94/44/EEC, revised in 98/37/EEC with effect from 12 August, 1998 EC Machinery Directive 89/392/EEC, edition 91/368/EEC and

EN 394 (safety of machines)

specifications in particular: or in extracts) national standards and technical Transposed (either complete

VBG 36 (Flurförderzeuge)

Quality assurance:

acc. to EC-Directive 90/683 EEC

DIN/ISO 9001 resp. DIN/EN 29001, module H

Identification of the signee: Date / Manufacturer's authorized signature: 01.01.1998

Dipl.-Ing. Manager Quality Control