EC DECLARATION OF CONFORMITY
in accordance with Machinery Directive 98/37/EEC (Appendix II A)

We,

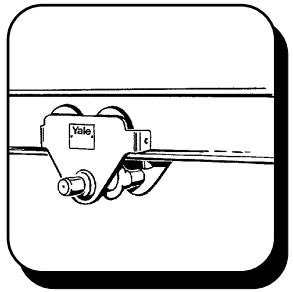
Yale Industrial Products GmbH
D- 42549 Velbert, Am Lindenkamp 31

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

Machine description:	Push Trolleys Model HTP Type A Beam width max. 220 mm Capacity 500 kg - 5000 kg Type B Beam width max. 300 mm Capacity 500 kg - 5000 kg Geared Trolleys Model HTG Type A Beam width max. 220 mm Capacity 500 kg - 5000 kg Type B Beam widt max. 310 mm Capacity 500 kg - 20000 kg
Machine type:	Hand Trolleys
Serial number:	from manufacturing year 11/94 (serial numbers for the individual capacities/models are registered in the production book with the remark CE-sign)
Relevant EC Directives:	EC Machinery Directive 98/37/EEC
Transposed harmonised standards in particular:	EN 292, part 1 (safety of machines) EN 292, part 2 (safety of machines) EN 349 (safety of machines)
Transposed (either complete or in extracts) national standards and technical specifications in particular:	9. GSGV BGV D8 (Winden, Hub- und Zuggeräte) BGV D6 (Krane) DIN 15018 (Krane) DIN 15070 (Laufräder) DIN 15085 (Laufräder)
Quality assurance:	DIN EN ISO 9001 (Certificate Registration No.: 151)
Date / Manufacturer's authorized signature:	24.01.2003
Identification of the signee:	Dipl.- Ing. Andreas Oelmann Manager Quality Assurance

Yale®

Hand Trolleys



Push type Model HTP

Type A Beam width max. 220 mm
Capacity 500 kg - 5000 kg
Type B Beam width max. 300 mm
Capacity 500 kg - 5000 kg

Geared type Model HTG

Type A Beam width max. 220 mm
Capacity 500 kg - 5000 kg
Type B Beam width max. 310 mm
Capacity 500 kg - 20000 kg

Operating Instructions

Yale®

Yale Industrial Products GmbH
Postfach 10 13 24 • D-42513 Velbert, Germany
Am Lindenkamp 31 • D-42549 Velbert, Germany
Tel. 0 20 51- 600 - 0 • Fax 0 20 51- 600 -127

Ident.-Nr.: 09900027 / 01.03

SELBY ENGINEERING & LIFTING SAFETY LTD.
Lifting Equipment and Height Safety Specialists
www.liftingsafety.co.uk sales@liftingsafety.co.uk
Tel: +44 (0) 1977 684 600 Fax: +44 (0) 1977 685 300

Contents:

1. INTRODUCTION

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

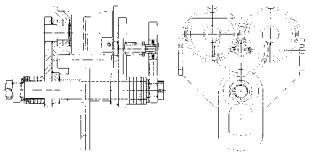
- operation, including preparation, trouble shooting during operation and cleaning
- maintenance, inspection, repair
- transport

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

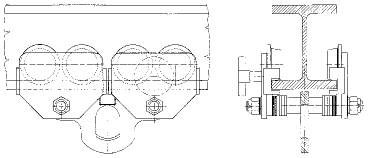
Yale Hand Trolleys

• Installing instructions for model 10000 and 20000 kg HTG type B
Measure the flange width of the beam. Evenly distribute the two spacer sleeves and spacer washers on both sides of the load bar equal to the beam flange width plus 4 mm.
The clearance between the trolley wheel flange and the beam edge must be 2 mm on both sides when finally assembled.
Place the side plates on the load bar and distribute the remaining spacer washers on the outside of the side plates equally on both sides ensuring that at least 1 large and 3 small adjusting washers are mounted between the side plate and slotted nut. Secure one side plate with a slotted nut. Lift the trolley to the beam (ensuring that the hand chain side faces the desired direction) and place it on the beam flange. Secure the second side plate with a slotted nut and tighten both slotted nuts tightly. Check operation of the trolley by rolling it along the beam with load. Make sure the trolley is properly adjusted to the beam, each wheel rolls freely and makes good contact with the flange of the beam and that the side plates are parallel.
Secure the slotted nuts with cotter pins.

• Hand chain
To mount the hand chain position the slot on the outer edge of hand chain wheel below the chain guides. Place one link of the hand chain vertically into the slot and turn the hand wheel until the link has passed the chain guides on both sides.



Geared type Model HTG 10 000 kg



Geared type Model HTG 20 000 kg

2.5 MOVING THE LOAD

The load is moved by pushing the attached unit (hoist) or the load.

Geared trolleys are moved by pulling the hand chain.

2.6 INSPECTION / MAINTENANCE

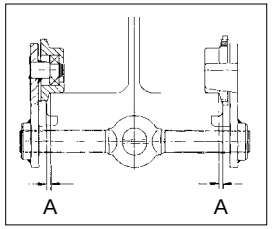
• Regular inspections
To ensure that the hoists/trolleys remain in safe working order they are to be subjected to regular inspections by a competent person. Inspections are to be annual unless adverse working conditions dictate shorter periods, The components of the hoist are to be inspected for damage, wear, corrosion or other irregularities and all safety devices are to be checked for completeness and effectiveness. To test the brakes and overload devices a test load of the hoist's rated capacity is required. To check for worn parts it may be necessary to disassemble the hoist. Repairs may only be carried out by a specialist workshop that uses original Yale spare parts.

Inspections are instigated by the user.

2.4 FUNCTION / OPERATION

• Installing instructions for model HTP/G type A
Screw the end of the clevis load bar (item 1; fig. 1) marked “L” approx. 3 mm into the side plate also marked “L”. Screw the second side plate approx. 3 mm onto the other end of the clevis load bar. Rotate the clevis load bar until the threaded ends reach the outer side of the side plates. By rotating the clevis load bar the trolley width can be pre-adjusted to the required beam size. Position the trolley on the lower beam flange. Rotate the clevis load bar to achieve the correct clearance "A".

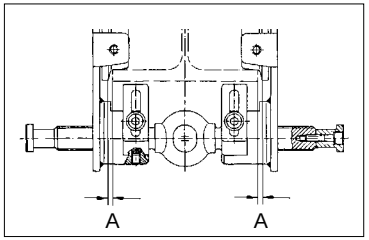
Capacity:	Dimension "A"	Beam width
500 - 1000 kg	1,0 - 1,5 mm	min. 50 - max. 220 mm
2000 - 3000 kg	1,5 - 2,0 mm	min. 58 - max. 220 mm
5000 kg	2,0 - 2,5 mm	min. 90 - max. 220 mm



Attention: On wide beams the clevis load bar ends must at least be flush with outer face of the side plates.

• Installing instructions for model HTP/G type B
Screw the end of the clevis load bar (item 1; fig. 1) marked “L” approx. 3 mm into the side plate also marked “L”. Screw the second side plate approx. 3 mm onto the other end of the clevis load bar. Rotate the clevis load bar until the threaded ends reach the outer side of the side plates. Position the end limit discs and lockwashers, one on each end of the clevis load bar (fig. 1) and secure tightly with the cylinder screws. They serve as limit stops for the clevis load bar when working at max. beam width and must always be fitted.
By rotating the clevis load bar the trolley width can be pre-adjusted to the required beam size. Position the trolley on the lower beam flange. Rotate the clevis load bar to achieve the correct clearance “A”.

Capacity:	Dimension "A"	Beam width
500 - 1000 kg	1,0 - 1,5 mm	min. 160 - max. 300 mm
2000 - 3000 kg	1,5 - 2,0 mm	min. 160 - max. 300 mm
5000 kg	2,0 - 2,5 mm	min. 160 - max. 300 mm



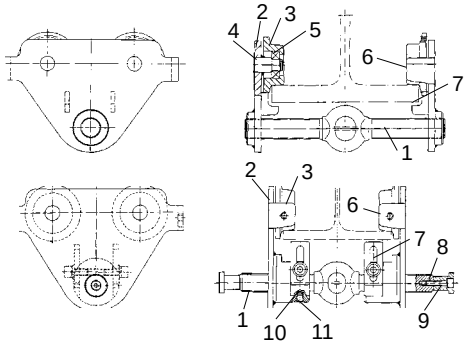
Attention: If the beam flange width exceeds the maximum permitted the end discs will jam the clevis load bar. Under no circumstances should the trolley be used on beams with flanges that exceed the maximum permitted.

After adjustment ensure that the final position of the clevis load bar is vertical. The top hook of the hoist can now be hung into the clevis.
The weight of the hoist automatically secures the adjustment of the trolley.
A set screw and copper plug secures the clevis load bar in position.
The four anti-tilt devices with washers, lockwashers and screws are to be adjusted so that the distance between the top of the anti-tilt devices and the underside of the beam is between 3 and 5 mm.

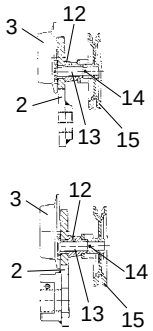
Yale Hand Trolleys

1. 1 TECHNICAL INFORMATION

Push type Model HTP-A and B



Geared type Model HTG-A and B



(other parts like push type)

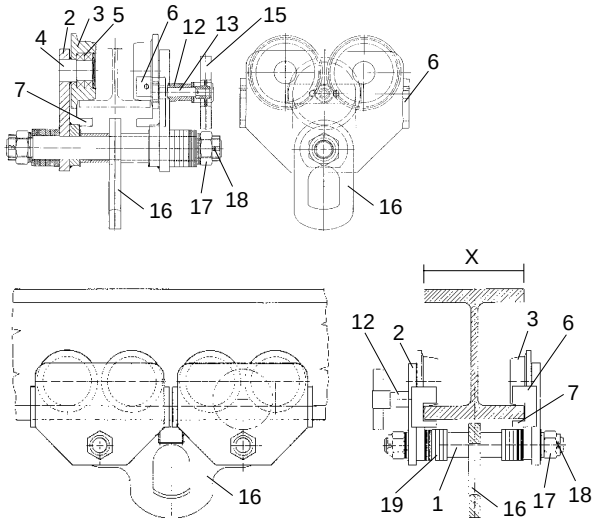


Fig.-No.:	Description
1	Clevis load bar
2	Side plate
3	Wheel
4	Axle
5	Bearing
6	Anti-drop device
7	Anti-tilt device
8	Limit stop screw
9	Cyl. screw
10	Copper plug
11	Screw
12	Axle housing
13	Axle
14	Sleeve
15	Hand wheel
16	Clevis
17	Castle nut
18	Split pin
19	Spacer

Fig. 1

Capacity kg	Beam width (x) Model HTP Type A mm	Model HTP Type B mm	Model HTG Type A mm	Model HTG Type B mm	Min. radius curve m	Net weight Model HTP Type A kg	Model HTP Type B kg	Model HTG * Type A kg	Model HTG * Type B kg
500	50 - 220	160 - 300	50 - 220	160 - 300	0,90	8,0	10,6	9,7	12,6
1000	58 - 220	160 - 300	58 - 220	160 - 300	0,90	9,0	12,0	11,2	14,1
2000	66 - 220	160 - 300	66 - 220	160 - 300	1,15	16,0	19,3	18,0	21,3
3000	74 - 220	160 - 300	74 - 220	160 - 300	1,40	32,0	35,8	35,4	39,2
5000	90 - 220	180 - 300	90 - 220	180 - 300	1,80	48,0	52,2	51,8	56,0
10000	-	-	-	125 - 310	1,80	-	-	-	104,0
20000	-	-	-	125 - 310	5,00	-	-	-	230,0

* w/o hand chain

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2. OPERATING INSTRUCTIONS

2.1 CORRECT OPERATION

Maximum capacity

• The Yale hand trolley was designed to travel on a beam and carry a load up to the rated capacity. The capacity indicated on the trolley (see nameplate) is the maximum safe working load which must not be exceeded.

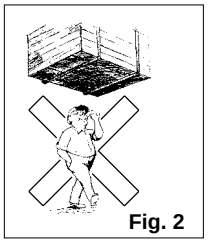


Fig. 2

Danger zones

• Do not lift or transport loads while personnel are in the danger zone.
• Do not allow personnel to pass under a suspended load.
• After lifting, a load must not be left unattended for a longer period of time.
• Start moving the load only after it has been attached correctly and all personnel are clear of the danger zone.

Attaching the load

• The operator must ensure that the load is attached in a manner that does not expose himself or other personnel to danger by the hoist, chain(s) or the load.

Temperature range

• The trolley can be operated in ambient temperatures between -10^{O} C and +50° C. Consult the manufacturer in case of extreme working conditions.

Regulations

• The accident prevention act and/or safety regulations of the respective country for using trolleys must be strictly adhered to

Maintenance / Repair

• In order to ensure correct operation not only the operation instructions, but also the conditions for inspection and maintenance must be complied with. If defects are found stop using the trolley immediately.

2.2 INCORRECT OPERATION

• Do not exceed the rated capacity of the trolley.
• Do not use the trolley for the transportation of people (fig. 3)
• Welding the trolley is strictly forbidden. (fig. 4).
• Avoid side pull, i. e. side load on either clevis load bar or side plates (fig.5). Always lift with a straight line between clevis load bar and load centre.

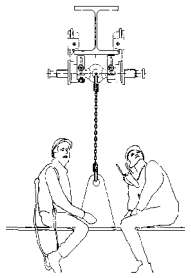


Fig. 3

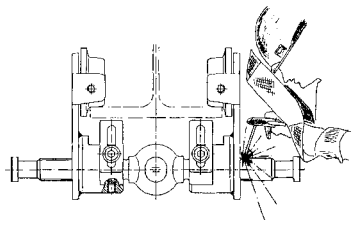


Fig. 4

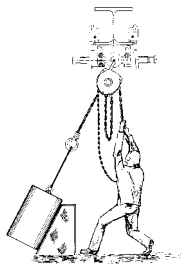
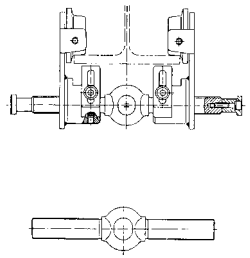
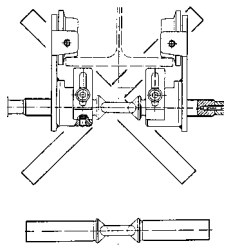


Fig. 5

• Incorrect attachment to, or incorrect loading of the clevis load bar i.e. applying load to the “flat” side of the clevis load bar, is forbidden (fig. 6)
• Do not throw the trolley down. Always place it properly on the ground.



Correct:
Once the trolley has been adjusted the clevis load bar must be in a vertical position, relevant to the beam, as illustrated. The top hook of the hoist can now be hung into the clevis. The weight of the hoist automatically secures the adjustment of the trolley.



Incorrect:
Once the trolley has been adjusted the clevis load bar must be in a vertical position, relevant to the beam, as illustrated on the left. Load must not be applied to the “flat” side of the clevis load bar .

Fig. 6

2.3 INITIAL OPERATION

• **Inspection prior to initial operation**
Each trolley must be inspected prior to initial operation by a competent person. The inspection is visual and functional and shall establish that the trolley is safe and has not been damaged by incorrect transport or storage. Inspections should be made by a representative of the manufacturer or the supplier although the company can assign its own suitably trained personnel. Inspections are instigated by the user.

• **Inspection before starting work**
Before starting work inspect the trolley all load bearing constructions every time for visual defects. Furthermore test that the load and hoist are correctly attached.
The selection and calculation of suitable carrying beams is the responsibility of the user.

• **Inspecting the clevis load bar**
Inspect for correct assembly and visually check for external defects, deformations, superficial cracks, wear or corrosion marks.

• **Check adjustment of the anti-tilt device**
Check that the clearance between the top of the four anti-tilt devices and the underside of the beam is correctly adjusted.

• **Check adjustment of the trolley width**
Check that the clearance between the trolley wheel flange and the beam outer edge is equal on both sides and within the tolerances given. Enlarging the clearances, e.g. to enable the trolley to negotiate larger curves, is forbidden.