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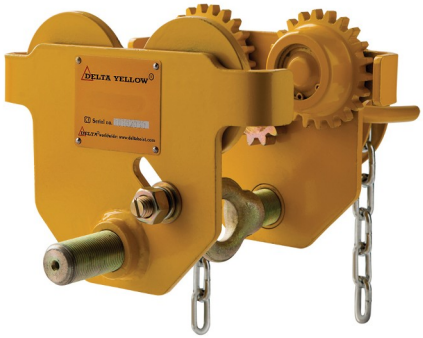
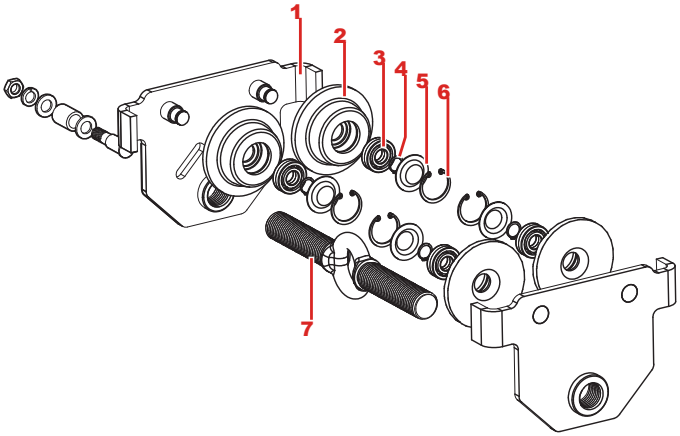


DELTA®

Trolley

DR.0.026 | DR.0.027 | DR.0.036 | DR.0.037
DY.0.036 | DY.0.037
DB.0.036
Instruction manual

A



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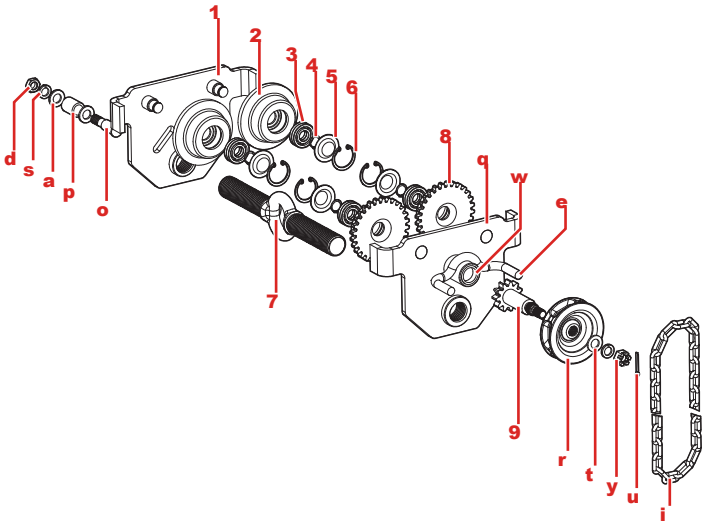

PAVLÍNEK®
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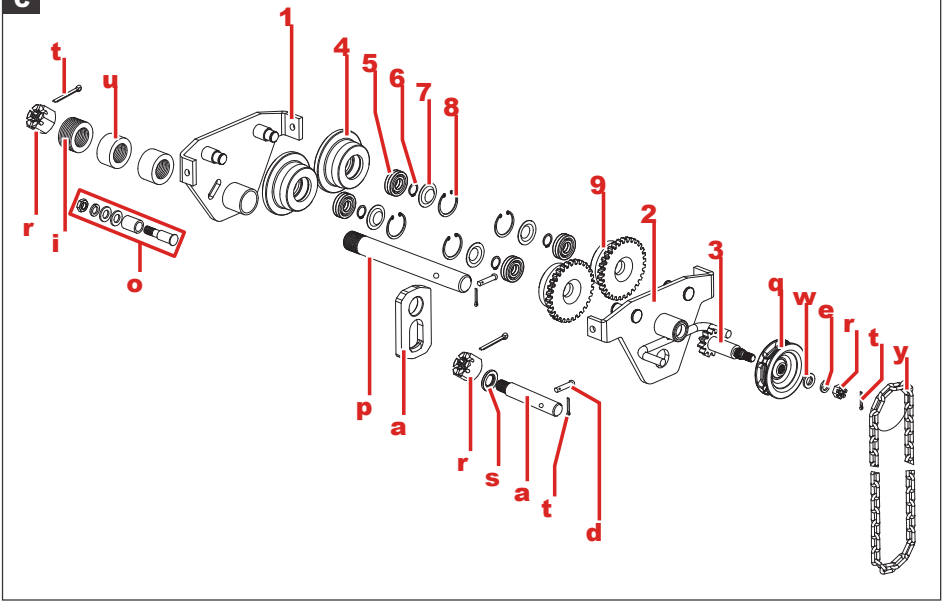
C



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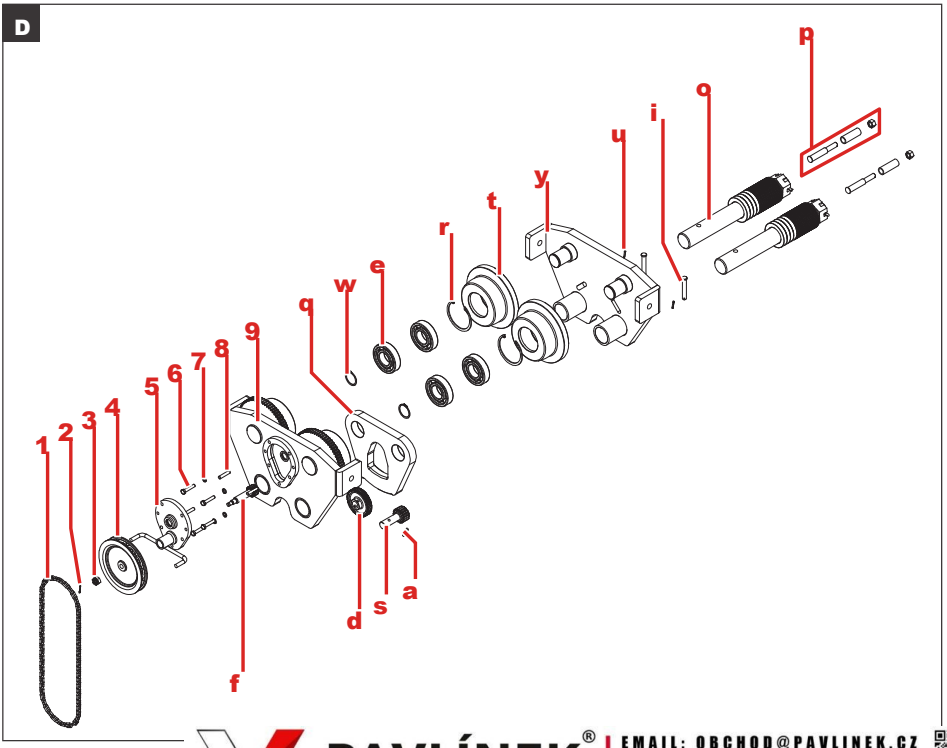

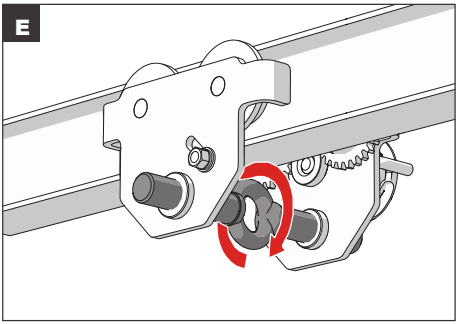

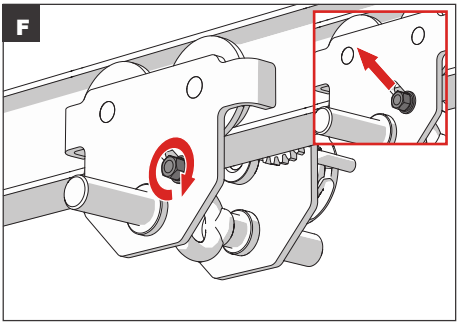

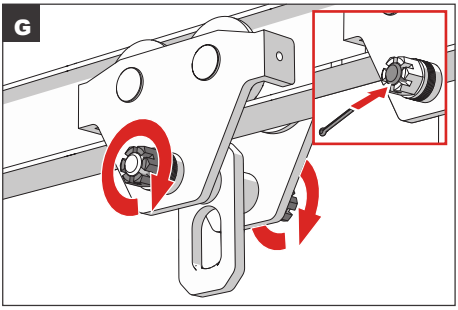

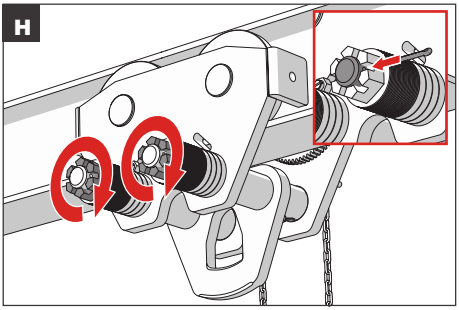

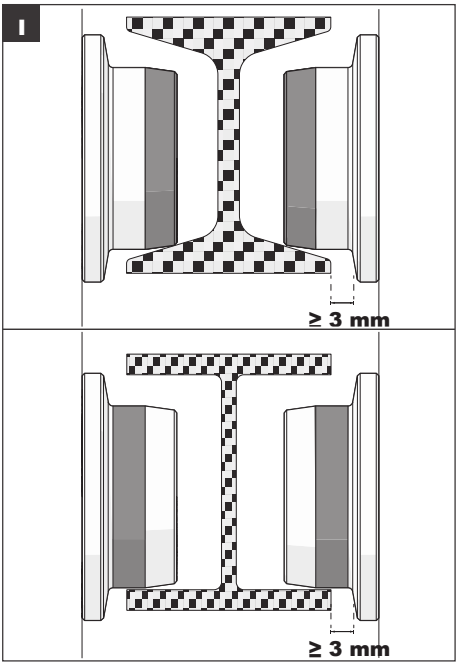

EN

Trolley
Instruction manual

Original instructions
This manual has been translated into multiple languages. The original manual is written in UK English. All other language versions are translations the original manual.

Copyright

Disclaimer of liability
The manufacturer cannot be held responsible for personal injury, damage to the machine, or property damage caused by incorrect use, foreseeable misuse, or failure to follow the instructions in this manual. This also applies to unauthorised modifications of the machine and the use of non-approved spare parts, tools, or accessories.

Contact details
For questions about the machine or this manual, please contact:

DELTA Hoisting Equipment
Uiterdijk 6
1505 GW Zaandam
The Netherlands
Tel. +31 20 626 6666
E-mail: sales@deltahoist.com
Website: www.deltahoist.com

1. Introduction

1.1. About this document
This manual contains all instructions and safety information for installation, commissioning, operation, and maintenance of the machine.
This manual is intended for the following individuals:
- Personnel involved in the installation of the machine.
- Personnel involved in the operation of the machine.
- Personnel and qualified technicians involved in the maintenance of the machine.

Ensure you have fully read and understood the instructions in this manual before you transport, install, operate, or maintain the machine. Keep this manual near the machine for future reference.
Illustrations are for the general understanding and may differ from the actual machine.

1.2. Symbols in this manual

WARNING
Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION
Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE
Is used to address practices not related to physical injury.

2. Safety

2.1. Intended use and reasonably foreseeable misuse
The machine is primarily intended to be used in combination with a hoist. Together, the hoist provides the vertical lifting movement, while the trolley ensures safe horizontal travel along the beam. The primary purpose of the machine is to facilitate material handling operations in various industrial and commercial settings.
The following is considered foreseeable misuse:
- Operating the machine in a manner that deviates from or exceeds the specified operating conditions.
- Failing to comply with the instructions provided in this manual.
- Failing to account for the combined weight of both the hoist and the load when calculating whether the trolley capacity is exceeded.
- Neglecting to rectify faults, malfunctions, or defects of the machine that pose safety risks.
- Neglecting protection from any kind of moisture or water.
- Unauthorised removal or modification of machine parts.
- Using spare parts or accessories that have not been approved by the manufacturer.

2.2. Qualification of personnel
This machine may only be operated by personnel who:
- are 18 years of age or older;
- are in good physical and mental condition;
- are competent and qualified;
- have read and understood the instructions in this manual;
- will work in accordance with the instructions provided in this manual;
- have experience operating similar equipment;
- are aware of all potential hazards and act accordingly.

2.3. Personal protective equipment (PPE)
To prevent personal injury, the following personal protective equipment must be worn during the

transportation, installation, operation, and maintenance of the machine:

Symbol	Description
	Wear head protection.
	Wear protective gloves.
	Wear foot protection.

2.4. Safety precautions

Despite the safe design and construction of the machine and the prescribed protective measures, residual risks still exist. The following safety precautions must be taken to reduce the residual risk to the minimum:

WARNING

Falling hazard: Never use the machine to lift, support or transport people.

Crushing hazard:
- Always ensure that the total weight of the hoist and the load does not exceed the rated capacity of the trolley. The complete system of beam, trolley, hoist, and load must be taken into account when calculating safe working load.
- Never exceed the rated capacity of the machine specified on the nameplate.
- Always ensure that the supporting structure and load attaching equipment are rated to support the weight of the machine and the load and are in good condition.
- Always ensure that the end stops are placed on the beam.
- Never lift guided loads without additional protective devices.
- Always ensure all fasteners are properly tightened after completing the installation.
- Never walk or stand under suspended load. Always stand clear of suspended load.
- Never knot or shorten the chain.
- Never operate the machine with a damaged or cracked chain.
- Never weld the chain.
- Never operate a damaged or malfunctioning machine.
- Approval must be obtained from the manufacturer before using the machine in combination with other machines.
- Always inform people when the lifting procedure is about to start.
- Never stand between fixed objects and the suspended load.
- Never place body parts or any objects between the machine and the load.
- Always ensure that the load is resting on solid ground and not under tension when you release the load.
- Never leave suspended load lifted unattended. Always lower the load onto a flat surface before leaving in unattended.
- Always perform a functional test after any maintenance activity.

Chemical burn hazard: Never lift or transport loads which could cause widespread damage when being dropped.

Distraction hazard:
- Always maintain focus during operation and do not let distractions in your surroundings divert your attention.
- Never operate the machine under the influence of drugs, alcohol, or medication.

Swinging hazard:
Never perform any operations onto the load when the load is lifted.

CAUTION

Mechanical hazard: Maintenance and repairs must only be performed by qualified personnel.

Safety hazard:
- Always wear the necessary personal protective equipment.
- Never remove the nameplate, operating, and warning labels from the machine.

Tripping hazard: Never leave the machine haphazardly on the ground.

Risk of improper functioning of the machine:
- Always ensure the trolley wheels and beam are clean and free of debris when operating the machine to minimise resistance.
- Never install the trolley on a beam with a ≤1:500 slope.
- Never use spare parts or accessories that have not been approved by the manufacturer.

Risk of damaging the machine:
- Never drop the machine and avoid bumping.
- Never lift load at an angle. Lifting load at an angle will damage the chain.

2.5. Emergency situations

In case of an emergency, do the following:
1. Notify others in the vicinity about the emergency.
2. Instruct people to move to a safe distance.
3. Set up safety perimeter around the machine and directly underneath the load to prevent access by unauthorised people.
4. Contact the appropriate emergency services and provide them with all relevant information.
5. Follow any additional emergency procedures or protocols specified by your company or site.

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3. Description of the machine

3.1. Design and function

The machine is designed for use in combination with a hoist to transport suspended loads horizontally along a beam. The machine operates manually, either by pushing the load (DR.0.026, DR.0.036, DY.0.036, DB.0.036) or by pulling the hand chain (DR.0.027, DR.0.037, DY.0.037), allowing controlled and guided movement across the beam length. The movement mechanism involves wheels that roll along the lower flange of an I-beam.

The machine is fitted with side plates and adjustable spacers that allow compatibility with a range of beam widths. End stops must be installed on the beam to limit travel and prevent unintentional dismounting.

3.2. Main parts

3.2.1. 0.5 – 5 ton push trolley

See image A

This chapter is only applicable for DR.0.026 / DY.0.036 / DB.0.036.

Part		Quantity
1	Two gear case assembly	1×
2	Driven wheel	4×
3	Bearing	4×
4	Axle ring	4×
5	Bearing ring	4×
6	Hole ring	4×
7	Equalizer pin	1×

3.2.2. 0.5 – 5 ton geared trolley

See image B

This chapter is only applicable for DR.0.027 / DY.0.037 / DB.0.037.

Part		Quantity
1	Two gear case assembly	1×
2	Driven wheel	2×
3	Bearing	4×
4	Axle ring	4×
5	Bearing ring	4×
6	Hole ring	4×
7	Equalizer pin	1×
8	Tooth gear	2×
9	Driven spindle	1×
q	Right side gear case assembly	1×
w	Copper sleeve	1×
e	Catch pin	1×
r	Chain wheel	1×
t	Spacer washer	1×
y	Hex castle nut	1×
u	Split pin	1×
i	Chain	1×
o	Roll spindle	1×
p	Roll sleeve	1×
a	Spacer washer	2×
s	Spring washer	1×
d	Hex nut	1×

3.2.3. 10 ton push trolley

See image C

This chapter is only applicable for DR.0.03610.

Part		Quantity
1	Left side plate	1×
2	Right side plate	1×
3	Driven shaft	1×
4	Driven wheel	2×
5	Bearing	4×
6	Snap ring	4×
7	Bearing cap	4×
8	Circlips for hole	4×
9	Active wheel	2×
q	Hand chain wheel	1×
w	Flat washer	1×
e	Spring washer	1×
r	Slotted nut	3×
t	Split pin	4×
y	Hand chain	1×
u	Sleeve	2×
i	Adjust washer	1×
o	Roller sleeve	1×
p	Axle	1×
a	Suspension plate	1×
s	Step washer	1×
d	Fix pin	2×

3.2.4. 10 – 30 ton geared trolley

See image D

This chapter is only applicable for DR.0.03710 / DR.0.03720 / DR.0.03730.

Part		Quantity
1	Hand chain	1×
2	Split pin 3.2×22	1×
3	Slotted nut M12	1×
4	Hand chain wheel	1×
5	Box cover assembly component	1×
6	Hexagon head bolt M10×50	4×
7	Spring washer	4×
8	Cylindrical pin 10×50	2×
9	Right side plate	1×
q	Suspension plate	1×
w	Snap ring	2×

e	Bearing	4×
r	Retaining ring	2×
t	Driven wheel	2×
y	Left side plate	1×
u	Split pin	2×
i	Fix pin	2×
o	Axle	2×
p	Roller sleeve	2×
a	Cylindrical pin 8×40	1×
s	Driven shaft assembly component	1×
d	Gear	1×
f	Active shaft assembly component	1×

4. Transport and storage

4.1. Transport

1. Place the machine in the original packaging or container to protect the machine from damage during transport. Use suitable padding materials to prevent any impact or vibration.
2. Properly secure the machine within the transporting vehicle to prevent any movement while during transport.

4.2. Storage

Store the machine indoors in a clean and dry environment, on a flat and stable surface. Ensure the storage location has an ambient temperature within the specified range.
Store the machine without any load attached.

5. Installation

5.1. Checking the contents

1. Remove the packaging and padding materials from the machine.
2. Check if all parts are present and in good condition.

Quantity	Part
1×	Trolley

5.2. Mounting the machine

Check whether the beam meets the following requirements before installing the machine:

- The beam must be designed, tested, and marked with safe working load adequate for the total weight of the trolley, hoist and load to be suspended upon it.
- Found suitable for the desired application.
- Fitted with end stoppers.
- Levelled so that the trolley does not run away by gravity.

Check the beam width is within the parameter of your trolley capacity:

Capacity (Ton)	Beam width (mm)
0.5	50 – 305
1	58 – 305
2	66 – 305
3	74 – 305
5	90 – 305
10	130 – 305
20	136 – 305
30	136 – 305

5.2.1. For 0.5 – 5 ton models

See image Eand F.

1. Measure the width of the beam where the machine will be installed.
2. Install the equalizer axle to the side plates and turn it clockwise or counter clockwise to adjust the width of the trolley.

CAUTION Risk of damaging the machine: Axle threads needs to be placed correctly to the side plates. When turning the axle it should go smooth, if not, this means that is not placed correctly, immediately stop turning and install again, otherwise threads will get damaged.

3. Double check the beam width in relation to the trolley.
4. Lift the trolley to the beam.

NOTICE Keep 3 mm clearance between wheel edge and the beam flange.

5. See chapter §5.2.4. for instructions on positioning the trolley wheels based on the beam flange type.
6. Install the trolley onto the beam. *See image* E.

CAUTION Risk of improper functioning of the machine. Never install the trolley on a beam with a ≤1:500 slope.

7. Loosen the hex nut of the roll spindle. *See image* F.
8. Adjust the roll spindle placement to come in contact with the beam.
9. Tighten the hex nut of the roll spindle.

5.2.2. For the 10 ton push trolley model

This chapter is only applicable for DR.0.03610.
See image F and G .

1. Loosen the two hexagon socket head screws to release the axle of the trolley.
2. Remove the left and right side plates and washers from the shaft.
3. Measure the width of the beam where the machine will be installed.
4. Decide the number of washers to place on both sides of the trolley to ensure the suspension plate is in the middle.
5. Place the washers on the axle. Ensure that the amount of washers are the same on each axle and are equally divided.

NOTICE

- Keep 3 mm clearance between wheel edge and the beam flange.

- The distance between the balance middle part and the bottom of the beam must be 1 mm.
- Ensure that the contact surface (beam to wheel) is clean of debris.

6. Slide the washers and the left and right side plates back onto the axle.
7. Check the beam width in relation to the trolley.
8. Lift the trolley to the beam.
9. See chapter §5.2.4. for instructions on positioning the trolley wheels based on the beam flange type.
10. Install the trolley onto the beam.
11. Tighten the two nuts on both sides of the axle with a wrench. Insert the split pins to fix the axle. *See image* G.

6 **CAUTION** Risk of improper functioning of the machine. Never install the trolley on a beam with a ≤1:500 slope.

12. Loosen the hex nut of the roll spindle. *See image* F.
13. Adjust the roll spindle placement to come in contact with the beam.
14. Tighten the hex nut of the roll spindle.

5.2.3. For the 10/20/30 ton geared trolley model

This chapter is only applicable for DR.0.03710 / DR.0.03720 / DR.0.03730.
See image F and H .

1. Loosen the two hexagon socket head screws to release the axles of the trolley.
2. Remove the left side plate and washers from the axles.
3. Measure the width of the beam where the machine will be installed.
4. Decide the number of washers to place on the axle to ensure the suspension plate is in the middle.
5. Place the washers on the axle.

NOTICE

- Keep 3 mm clearance between wheel edge and the beam flange.
- The distance between the balance middle part and the bottom of the beam must be 1 mm.
- Ensure that the contact surface (beam to wheel) is clean of debris.

6. Slide the washers and the left side plate back onto the axle.
7. Check the beam width in relation to the trolley.
8. Lift the trolley to the beam.
9. See chapter §5.2.4. for instructions on positioning the trolley wheels based on the beam flange type.
10. Install the trolley onto the beam.
11. Tighten the nuts on the axles with a wrench. Insert the split pins to fix the axles. *See image* H.

6 **CAUTION** Risk of improper functioning of the machine. Never install the trolley on a beam with a ≤1:500 slope.

12. Loosen the hex nut of the roll spindle. *See image* F.
13. Adjust the roll spindle placement to come in contact with the beam.
14. Tighten the hex nut of the roll spindle.

5.2.4. Trolley wheel positioning

See image I

Image I illustrates the required contact surface between the trolley wheels and the beam, corresponding to each beam flange type.
The trolley wheels are suitable for both tapered and parallel flange beams.

5.2.5. Functionality test

The functional testing of the machine ensures that the machine operates correctly and safely.

1. Suspend a light load from the machine.
2. Make sure all four wheels make contact with the beam.
3. Replace the light load with the maximum safe load.
4. Follow the instructions in chapter §6. to move the load along the full length of the beam.

6. Operation

6.1. Preparation

6 **WARNING** Crushing hazard: Never operate a damaged or malfunctioning machine.

- Check if the trolley and additional equipment is correctly installed.
- Make sure that the additional equipment has the same or less capacity as the trolley, it may never exceed the working load limit.
- Check if all bolts and nuts are tightened.

6.2. Handling load

1. Secure the load to the hole in the equalizer pin.
2. To move the load:
   a. For a push trolley: Push the load manually.
   b. For a geared trolley: pull on the chain to move the load along the beam.

7. Maintenance

7.1. Maintenance schedule

It is recommended to start a commissioning logbook from the first day of use. Check the logbook template provided at the end of this manual.
Users/owners must comply with local, national, and international safety guidelines, which require the machine be professionally tested and recertified annually. Additionally, shorter recertification intervals may be necessa depending on the working environment.

Frequency	Activities	Instructions
Periodically	Check the side plates, shaft, wheels and hand chain for damage and deformation.	
	Check the legibility of the labels.	–
	Check the equipment for loose parts.	–
Annually	Inspection/re-certification lifting gear.	Please follow the according local guidelines for yearly inspection of the machine.

If dysfunctions are detected, please contact a certified professional.
If any abnormal situation occurs during any of the checks, immediately take the machine out of use and conta
your dealer or a certified professional.

7.2. Other maintenance

Maintenance activities that are not described in this chapter may only be performed by qualified personnel. Please contact your supplier.

8. Disposal

8.1. Disposal of packaging waste

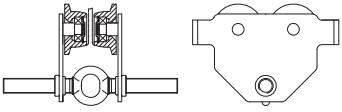
Dispose the packaging material in accordance with the local regulations.

8.2. Disposal of machine parts

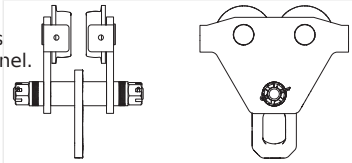
If the machine is defective, please contact your supplier. It may still be possible to repair the machine. If you still need to dispose the product, separate, and dispose the components of the machine into the applicable waste streams based on their material, in accordance with the local regulations.

9. Technical data

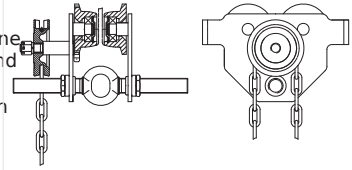
9.1. Capacity per model



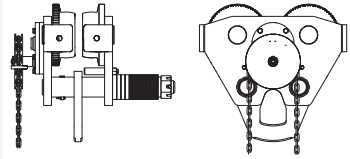
Push trolley	Capacity
Article code	Ton
DR.0.02600500 DY.0.03600500 DB.0.03600500	0.5
DR.0.02601000 DY.0.03601000 DB.0.03601000	1
DR.0.02602000 DY.0.03602000 DB.0.03602000	2
DR.0.02603000 DY.0.03603000	3
DR.0.02605000 DY.0.03605000	5



Push trolley	Capacity
Article code	Ton
DR.0.03610000	10



Push trolley	Capacity
Article code	Ton
DR.0.02700500 DY.0.03700500	0.5
DR.0.02701000 DY.0.03701000	1
DR.0.02702000 DY.0.03702000	2
DR.0.02703000 DY.0.03703000	3
DR.0.02705000 DY.0.03705000	5



Push trolley	Capacity
Article code	Ton
DR.0.03710000	10
DR.0.03720000	20
DR.0.03730000	30

9.2. Main dimensions

For a complete overview of the main dimensions of the machine and other data, please visit www.deltahoist.com for more information.

9.3. Rating plate

The rating plate is located on the machine. The following information can be found on the rating plate:

- Company name
- Serial number
- Manufacturing year
- Capacity
- Company website

10. Declaration of conformity

Hereby the manufacturer:

DELTA Hoisting Equipment
Uiterdijk 6, 1505 GW, Zaandam, Netherlands

declares that this product complies with all applicable provisions of the Machinery Directive 2006/42/EC and th electromagnetic compatibility directive 2014/30/EU.

Additionally, this product has been thoroughly inspected and tested. The data is in compliance with the techni requirements, which is gathered in our documentation.

Description:	DELTA – Push trolley			DELTA – Geared trolley	
Type:	DR.0.02600500	DY.0.03600500	DB.0.03600500	DR.0.02700500	DY.0.03700500
	DR.0.02601000	DY.0.03601000	DB.0.03601000	DR.0.02701000	DY.0.03701000
	DR.0.02602000	DY.0.03602000	DB.0.03602000	DR.0.02702000	DY.0.03702000
	DR.0.02603000	DY.0.03603000		DR.0.02703000	DY.0.03703000
	DR.0.02605000	DY.0.03605000		DR.0.02705000	DY.0.03705000
	DR.0.03610000			DR.0.03710000	
				DR.0.03720000	
				DR.0.03730000	

Authorized person:

Name:	M.F. Stam
Position:	Director
Place:	DELTA Hoisting Equipment, Uiterdijk 6, 1505 GW Zaandam, Netherlands
Signature:	

Logbook / Commissioning Log

EN

Company name	Article:
	Model:
	Serial number:
	First use*:
	Last inspection:

* Please make sure that you perform the required / mandatory annual inspection based on this date.

Before use / Periodically

Type of inspection	Date	Performed by

Annually

Type of inspection	Date	Performed by

After successful inspection and when put in use again, please start the logbook again from the inspection date. Use last inspection as reference date for the next annual inspection.
Always keep inspection certificates together with the logbook for own administration.
If you have any malfunctions, put the equipment out of use, contact a certified professional.

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EN – Original instructions
V1.0 – October 2025