# IOM manual



# Mobile solutions for pumps and pump units

Edition 2016 rev. 1



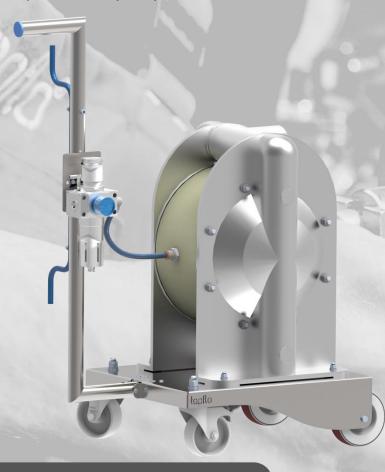
Read this instruction manual carefully before you install and operate the pump.

# **Trolley models:**

Troll S

Troll M

Troll L



>> All about your flow

www.tapflo.com

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# O. GENERAL

## 0. GENERAL

The following instruction manual embraces safety and operation rules for the mobile solution (trolleys) for pumps and pump units. Before beginning to operate the trolley and the devices mounted on it, please read this instruction carefully.

In case of any not understanding of the instruction, technical problems, or a need for spare parts – please contact your local Tapflo distributor.

#### WARNING:

Before placing an order for a trolley, please verify if the baseplate of a device mounted on the trolley does not exceed the available operation surface of the trolley. Moreover, it should be verified that the weight of the mounted device does not exceed allowed loads on the trolley.

The dimensions of the operation surfaces and the allowed loads on the trolleys are stated in paragraph 2 of this instruction manual.

#### 0.1. Introduction

Mobile Pump Units are found as the best solution for the users of spread technological processes. The portability of the Units allows easy movement to various locations. This means almost limitless application.

Contruction elements of the trolleys are made of AISI 304 stainless steel, which guarantees appropriate chemical resistance and mechanical strength.

With proper attention to maintenance, mobile solutions for pumps and pump units will give efficient and trouble free operation. This instruction manual will familiarize operator with detailed information about installing, operating and maintaining the pump.

## 0.2. Warning symbols

The following warning symbols are present in this instruction manual. This is what they say:



This symbol stands next to all safety instructions in this instruction manual where danger to life and limb may occur. Observe these instructions and proceed with utmost caution in these situations. Inform also other users of all safety instructions. In addition to the instructions in this instruction manual, the general safety and accident prevention regulations must be observed.



This symbol signals possible danger caused by the presence of electric fields or live wires.

# O. GENERAL

<u>1.</u>

## 0.3. Qualification and training of personnel



The personnel in charge of installation, operation and maintenance of the trolleys must be qualified to carry out the operations described in this manual. Tapflo shall not be held responsible for the training level of personnel and for the fact that they are not fully aware of the contents of this manual.

Operator of a trolley is obligated to obey safety and caution rules, including but not limited to:

- not exceeding allowed loads on a trolley,
- using a trolley in accordance with its appliance,
- providing even distribution of mass and stability of a trolley, while and after placing a pump or a pump unit on an operations surface of a trolley
- assembling pump or a pump unit to the trolley with connecting elements, in accordance with instruction manual of the assembled pump or pump unit,
- acting particularly carefully while driving a trolley along slope surfaces, it is unacceptable to drive a trolley crossways a slope surface.
- wearing protection clothing: protective gloves, shoes, googles etc.
- securing the trolley from rolling down or turning over.

# 0.4. Nameplate

1 – model of a trolley, as below: Troll L 466 S S - standard execution X -ATEX execution B - trolley with a cabinet for automatition devices 268 - operation surface dimensions - 268x268 408 - operation surface dimensions - 478x408 285 - operation surface dimensions - 196x500 344 – operation surface dimensions – 252x630 466 - operation surface dimensions - 356x710 390 - operation surface dimensions - 312x900 490 - operation surface dimensions - 380x1120 540 - operation surface dimensions - 430x1250 610 - operation surface dimensions - 480x1400 S - 2 fixed wheels + support M - 2 fixed wheels + 2 swivel wheels with a brake L - 2 swivel wheels + 2 swivel wheels with a brake Troll - trolley standard Tapflo, 2015

- 2 serial number of a trolley
- 3 allowed loads on a trolley
- 4 year of production



A nameplate on a trolley should be kept clean, so it would always be possible to identify it.

# 1. INSTALLATION

# 1. INSTALLATION

# 1.1. Receiving inspection

Although precaution is taken by us when packing and shipping, we urge you to carefully check the shipment on receipt. Make sure that all parts and accessories listed on the packing list are accounted for. Immediately report any damage or shortage to the transport company and to us.

A trolley can be sent as an assembled or unassembled device.

A trolley can be transported on its own wheels or in other transportation way. While transporting a trolley, it should be secured from any damage.

If weight of a trolley exceeds 40 kg, manual loading and unloading of it should be done by at least two persons.

## 1.2. Storage

If the equipment is to be stored prior to installation, place it in a clean location. Clean a trolley thoroughly before installation.

### 1.2.1. Safety



In the interest of health and safety it is essential to wear protective clothing and safety goggles when operating, and/or working in the vicinity of Tapflo trolleys.

# 1.2.2. Cleaning and disinfection



Cleaning and disinfection of a trolley is of greatest importance when a trolley is used in a food process installation. Use of a pump system that is NOT cleaned or disinfected can cause contamination of the product or environment.

## 2. TECHNICAL DATA

## 2.1. Appliance

Tapflo trolleys are designed for transportation of pumps or pump units, suitable for exact type of a trolley. It is not allowed to use Tapflo trolleys for transportation of any other devices.

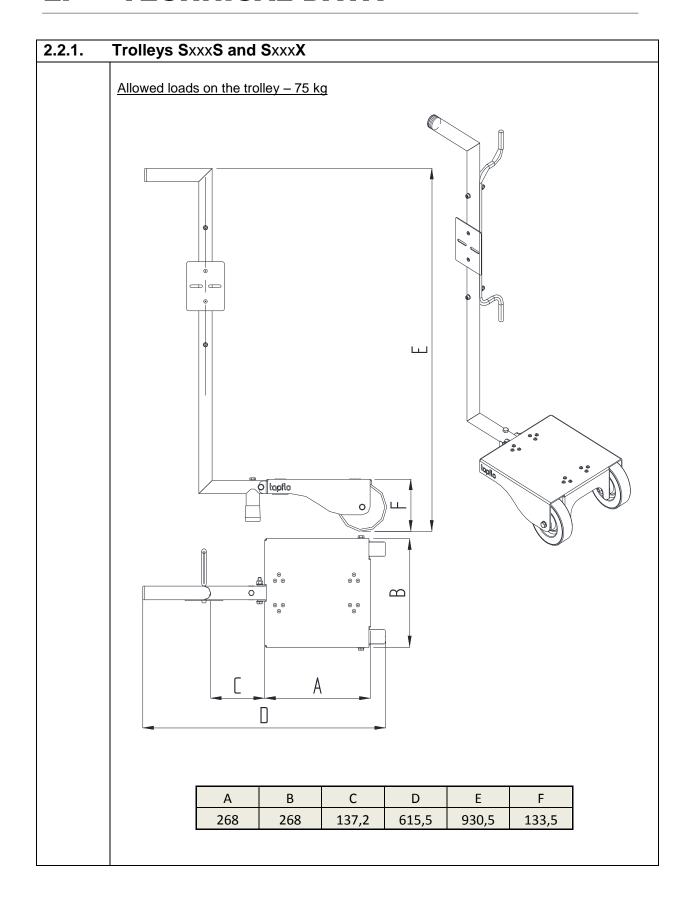
<u>Appliance of Tapflo trolleys:</u> walking distance transportation of pumps and pump units, on the even, hardened surface.

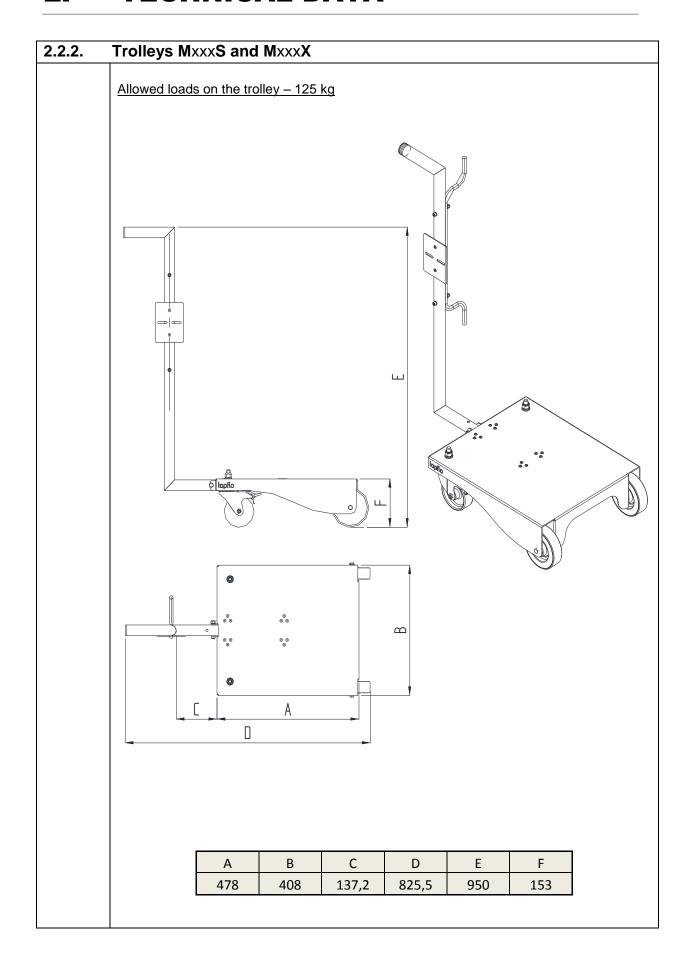
Trolleys should not be used for transportation on public roads.

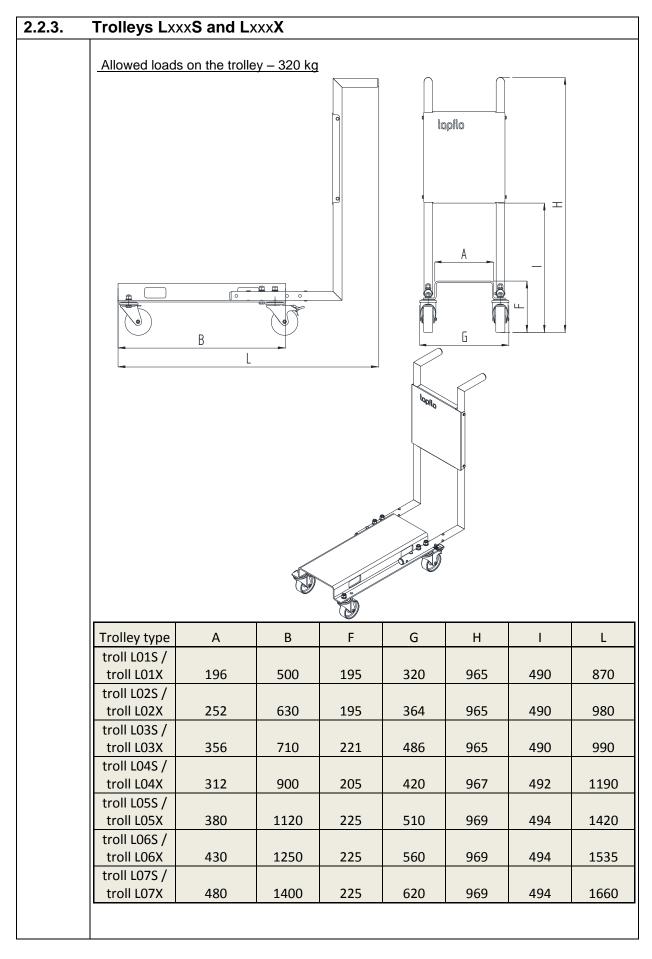
Working area: in-house facility transportation.

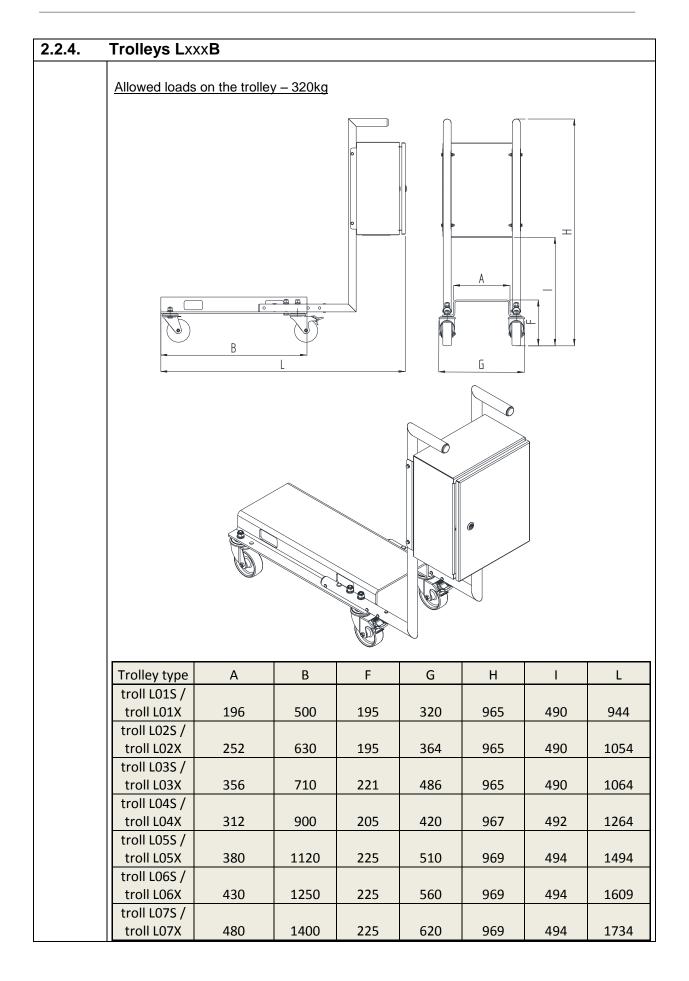
# 2.2. Dimensions and load capacities

Before placing an order for a trolley, please verify if the baseplate of a device mounted on the trolley does not exceed the available operation surface of the trolley. Moreover, it should be verified that the weight of the mounted device does not exceed allowed loads on the trolley.









# 3. ASSEMBLY INSTRUCTION

#### **ASSEMBLY INSTRUCTION** 3.

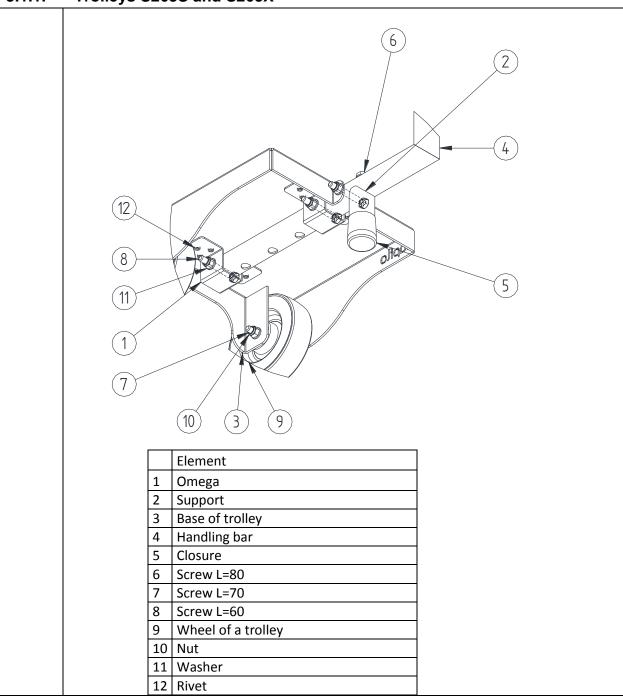
WARNING! Before assembling a device on a trolley, it should be verified that the weight of the mounted device does not exceed allowed loads on the trolley.

It should also be checked, if the weight of a trolley with a device mounted on it does not exceed limits stated in the local law regulations concerning manual transportation.

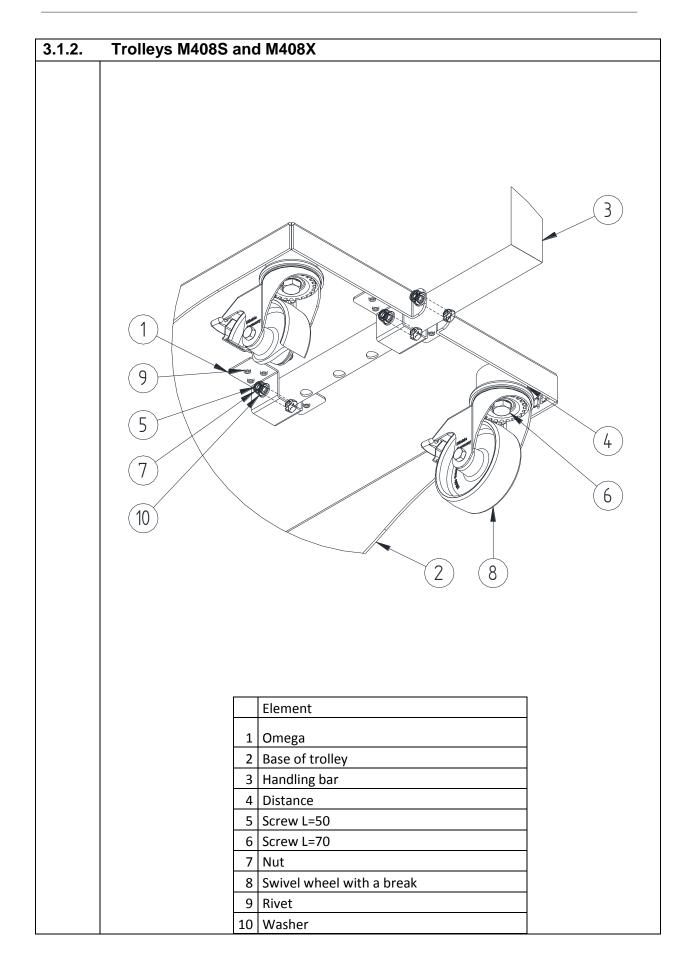
#### 3.1. Assembly of the trolleys

A trolley can be sent to a customer as an unassembled device. If the trolley is sent unassembled, all the elements of it should be mounted before placing a pump or a pump unit - in accordance with this manual.

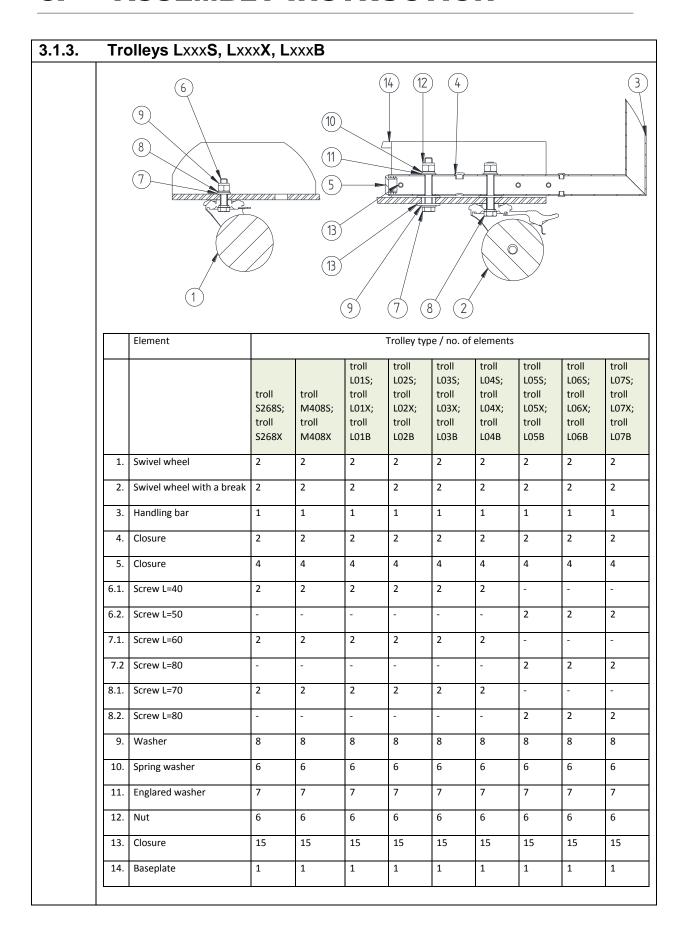
#### Trolleys S268S and S268X 3.1.1.



# **ASSEMBLY INSTRUCTION**



# **ASSEMBLY INSTRUCTION**



# ASSEMBLY INSTRUCTION

#### 3.2. Assembly of a pump / pump unit, according to the measured dimensions of it

- 1. Check locations and diameters of mounting holes of pump or pump unit,
- 2. Place the assembled pump or pump unit on the operation surface of the trolley,
- 3. Check for any collisions between assembled device, its mounting elements and parts of the trolley,
- 4. Mark locations of the mounting holes of pump or pump unit on the operation surface of the trolley,
- 5. Measure the diameters of mounting holes of the pump or pump unit,
- 6. Drill mounting holes in the marked locations on the trolley's operation surface. Size of the drilled holes should be equal to the mounting holes of the pump or pump unit,
- 7. Assembly the pump or pump unit on the trolley. Use only those connecting elements, which are typed in the instruction manual of the assembled pump or pump unit.

The assembly works should only be performed by qualified personnel and in accordance with the local safety regulations.

#### 3.3. Assembly of a pump / pump unit, according to the catalogue dimensions of it

- 1. Check locations and diameters of mounting holes of pump or pump unit in the proper documentation,
- 2. Check for any collisions between assembled device, its mounting elements and parts of the
- 3. Mark locations of the mounting holes of pump or pump unit on the operation surface of the trolley,
- 4. Drill mounting holes in the marked locations on the trolley's operation surface. Size of the drilled holes should be equal to the mounting holes of the pump or pump unit,
- 5. Assembly the pump or pump unit on the trolley. Use only those connecting elements, which are typed in the instruction manual of the assembled pump or pump unit.

The assembly works should only be performed by qualified personnel and in accordance with the local safety regulations.

# 4. OPERATION

| 4.   | OPERATION   |
|------|---|
|      | NG: While operating a trolley, it should always remain stable.  |
| 4.1. |   |
| 4.1. | Everyday inspections  |
|      | Everyday inspection concerns general check-up of the device and its connecting elements. In case of noticing any damage of the device, all of the elements in operation should be immediately turned off.   |
| 4.2. | Periodical inspections  |
|      | <ul> <li>Periodical inspection concerns check-up of the wheels' bearings, in particular check-up for clearances, mechanical damages and condition of connecting elements.</li> <li>Periodical inspection should be performed at least every 6 monts.</li> <li>Every 3 months the wheels' bearings should be lubricated.</li> </ul>          |
| 4.3. | Maintanance   |
|      | A trolley should be remained clean. It can be cleaned with water.   |
| 4.4. | Repairs   |
|      | In case of damaging or failure of a trolley, it should be repaired by using original spare parts, which can be ordered at Tapflo. While ordering spare parts, it is essential to provide Code and Serial number of a trolley.  Repairs should only be performed by qualified personnel and in accordance with the local safety regulations. |
| 4.5. | Disassembly and waste materials   |
| 7.0. | Disassembly of the used parts should be done by using universal tools.  |
|      | Disassembly should only be performed by qualified personnel and in accordance with the local safety regulations.  |
| 4.6. | Spare parts   |
|      | Spare parts for the trolleys are: - wheels, - handling bars, - connecting elements.   |
|      | To order spare parts please contact your local Tapflo representative.   |

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