

Trolley model

UT-M2

STEEL LINE

The UNI-TROLL Trolley model UT-M2 steel line is a robust and durable trolley designed to carry two 600 x 400 mm ISO modular RPC boxes (Returnable Plastic Crates) or four Normpack 200 plant trays (400 x 285 mm) per shelf cart level.

Base Frame

The Base Frame has two swivel and two fixed Ø125 mm high quality double ball bearing castors which ensure easy manoeuvrability. Castors have a strong and durable 40 mm blue PUR tread that ensures noise-reduction when rolling. Four special bolts make eventual replacement of a damaged castor quite easy. Base frames are prepared for mount of a UT lift brake.

Corner posts

The patented corner post profiles are split up. Each base frame having eight 75 cm long posts and four 35 cm post extenders. All with a patent applied for coupling piece fixation. Posts can be placed safely in the patent applied for trolley base frame magazine with the function of orderly storing and noise reduction. This magazine also protects the posts from being damaged and makes them quite easy to manage manually or by automation. The divided corner posts ensure many different height combinations.



The UT-M2 BF incl. a set of corner posts has item no. 1087700. Incl. a lifting brake type TRT160 the item no. is 1087701.

Stacking

As an essential feature UT Base Frames are designed to be placed on the top of another assembled trolley. Applicable to all types of trolley setups, these must contain at least one shelf. Having a double-layer trolley build on the top ensures the use of the full truck height on long-distance transportations and safe working environment with correct height access to goods when the top trolley is taken down to the floor with a fork lifter. Trolley base frames with all posts included can be stacked on top of each other to reduce transport cost when empty base frames are returned or put in storage. Reduction empty to full is 1:5.5.

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Measures and ability

The UT-M2 base frame is 891 x 616 mm outside and the height from floor level to top of the corner guides is 270 mm and the next base frame stacks by 210 mm. When stacked empty, 12 base frames can be stacked on top of each other and reaches then a height of 2580 mm. Sideways trucks can carry 4 pcs. UT-M2 trolleys in a normal 2480 mm wide trailer. Divide the length of the trailer in mm by 891 and you find the number of rows that can be loaded.

The steel versions unladen weight of base frames including posts is 40.6 kg (base frame 23.6 kg and the 12 post parts - in total 17.0 kg). The trolley's carrying capacity is 400 kg SWL (Safe Working Load). Generally steel grade SG 235 is used and where applicable, only steel qualified for hot dip galvanizing is used.

Shelf options

Trolley UT-M2 shelves are available in four different versions. In each of the four corners of all shelf types a strong hook ensures correct and safe position of the shelf in the posts' access holes with 50 mm intervals. The interaction between the hooks and the holes of the posts is a patented function. Empty shelves can be stacked on the corner guides of the trolley base without the use of posts, but must then be secured by straps. Shelves can easily be set into the post holes manually, by machinery or robot arms. The shelf setting is easy to automate either loaded with goods or empty, which is an essential part of the UNI-TROLL design strategy.

Steel shelf UT-M2 PWS ①

The shelf UT-M2 PWS (PlyWood Steel) 800 x 600 mm loading area is stackable and carry 100 kg UDL. It's stackable by 16 mm in the height on the side edges to reduce the goods volume when returned empty. It's unladen weight is 4.6 kg. The film faced plywood plates, double sealed on edges are fastened to the short and long steel profiles at the edges with rivets. The four ø 6 mm steel hook in the corners are welded to the long side profile. The UT-M2 PWS is a resilient design with its 6.5 mm plywood plate, and both long and short side profiles are electroplated. Hooks are electro galvanized and blue passivated.

The UT-M2 PWS has item no. 1087881.

Wire grid shelf UT-M2 WSH ②

The wire shelf UT-M2 WSH 800 x 600 mm loading area and carry 40 kg UDL. It's not stackable. It's unladen weight is 2.8 kg. The four ø 6 mm steel hooks in the corners are integrated in the welded grid construction. A water tray is available as an extra possibility when desired. The UT-M2 WSH is a full open grid electroplated, yellow passivated and sealed design in 4 mm steel.

The UT-M2 WSH has item no. 1087960.

Aluminium shelf UT-M2 PWA ③

The plywood aluminium shelf UT-M2 PWA 800 x 600 mm loading area is stackable and carry 80 kg UDL. It's stackable by 20 mm on the side edges to optimize use of space when returned empty. It's unladen weight is only 3.0 kg. The film faced plywood plates, double sealed on edges are fastened to the short and long aluminium profiles at the edges with rivets. The four ø 6 mm aluminium hooks in the corners are welded to the short side profile. The UT-M2 PWA is a noticeably light, but extraordinarily resilient design with its 6.5 mm plywood plate. Parts of aluminium is easy to separate from the PlyWood when recycling.

The UT-M2 PWA has item no. 1087940

Plastic shelf UT-M2 PPGF ④

The plastic shelf UT-M2 PPGF 800 x 600 mm loading area is a Poly Propylene Fibre Glass version that carries 40 kg UDL (Uniform Distributed Load). It's stackable by 21 mm on the side edges to reduce the goods volume when returned empty. Its unladen weight is 4.8 kg. The colour is anthracite grey and the material impact-resistant and it's easy to clean.

The plastic shelf plates are held by a patented shock-absorbing high-tensile 6 mm electroplated, yellow passivated and sealed steel wire. The feature ensures the long lifetime of the UT-M2 PPGF shelf, including a minimal risk of bending of the carrying hooks. The plastic plate and the carrying steel wire is easy to disassemble for recycling.

The UT-M2 PPGF has item no. 1096850.



Extra equipment

Trolleys from UNI-TROLL has a wide range of options for creative and new thinking demanding users. Potential use of the trolley for pick&pack by e-trade or distribution of goods in a store and have asked for a feature called a **UT-Ladder**. It's a 3-step 660 mm high self-lifting ladder. Easy to add and remove. Specifications on demand.

Below is mentioned some equipment available for the users. Many other creative ideas have been thought over and tested.

The **UT Lifting Brake** type TRT160 is a standard strong lifting brake mounted under every base frame, as they are prepared for it, and the special bolting method makes it remarkably simple to add. It's a good feature to ensure trolleys are not running away during loading and unloading from a truck or by placement at sloped areas. Specification is available.

The **UT-M2 Parcel Bag** is useful for parcel transport and transportation of special items and for grading of any waste and goods in any situation. Must be used with at least one shelf on

the top of the trolley. An ideal combination to the shelf concept for e.g. orderly collection and distribution of parcels and for city distribution. Specification is available.

A special **UT-M2 Shelf Cart** is developed by one of our many cooperation partners for use with AMR e.g. MIR or OTTO for organized automatic internal transport. UT supply with a **UT-M2 Cart Kit** for users, which need extra shelves in the height. The combination with "normal" UT-trolleys gives extended flexibility and new options for the user. Specification is available.

The **UT-M2 VF** (Vertical Farm Rack) is a **LED-light** equipped for growing or exposure unit at a standard UT-M2 Base Frame with 4 pcs. of the PPGF plastic shelves equipped with an added very slim patented construction. This includes 12 LED spots at each shelf. The four shelves are controlled by a 240 Volt Power Supply unit. A special brochure is available.

UNI-TROLL reserves its right to change its technical specifications at any time.