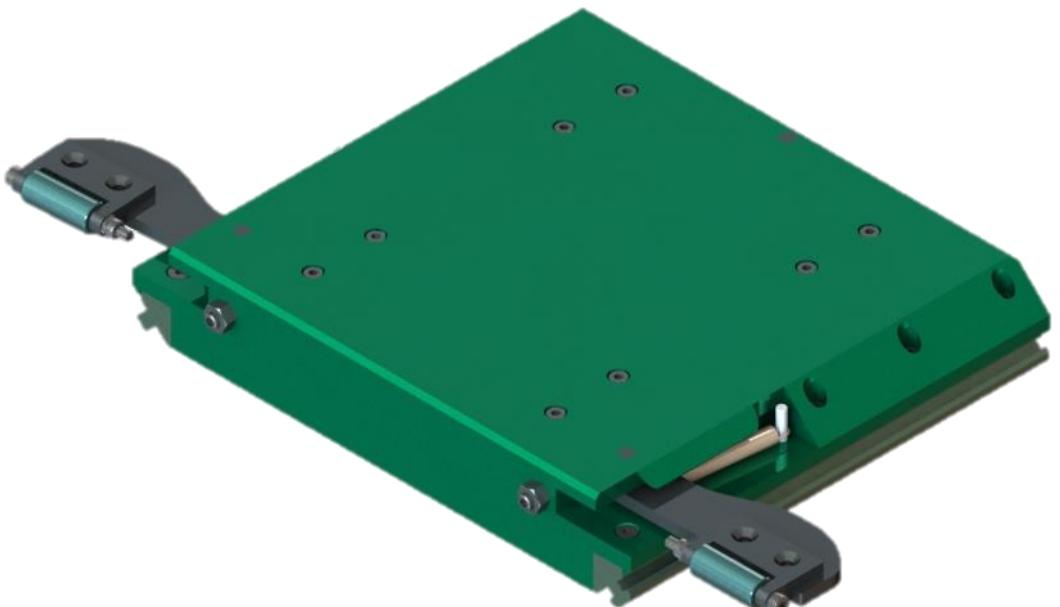




Product Description ENG

Dolly Mover® - The Upgrade for Your Supermarket



Introduction

For more than 20 years, our **supermarkets** and **trolleys** have provided solutions in our product portfolio that optimize your production processes. If you have already integrated such trolleys and supermarkets into your manufacturing, you have laid the foundation for **automating your production**, as these products are compatible with Automated Guided Vehicles (**AGVs**) and Autonomous Mobile Robots (**AMRs**), such as the Active Shuttle from Bosch Rexroth.

Have you already acquired an AMR or are you about to procure one? Then we have the perfect **upgrade for your entire system**. With our "**Dolly Mover®**," you can shorten your lead times and save significant costs

Here's how it works:

An AMR can pick up your trolleys at designated pick-up points and deliver them to the target supermarket. But what happens when the entrance to the supermarket is already occupied by a trolley? The AMR stops and waits until the trolley is removed before it can load the supermarket.

With the Dolly Mover®, you can eliminate these waiting times and prevent AMR congestion at the loading side of the supermarket. By using the Dolly Mover®, the AMR can push the trolleys in the supermarket forward by one position each, creating space for another trolley. This means the trolleys no longer need to be manually inserted, ensuring they are regularly moved to the unloading side. As a result, the AMR that needs to pick up the trolleys from this side no longer has to enter the supermarket entirely but can ideally pick up the trolley directly from position one, leading to significant time savings. For more information, see the step-by-step graphical explanation on pages 4 and 5.

Assembly

The Dolly Mover® can be easily integrated into your existing supermarket (Bloksma G3 with aluminum rails). No electrical connections or complex preparatory work are necessary. Since the Dolly Mover® is guided by two rails, your existing supermarket only needs to be supplemented with a 1200 mm long rail.

Please refer to the following illustration (Fig. 1) and the order list on page 8 for the individual components required to retrofit your existing supermarket.

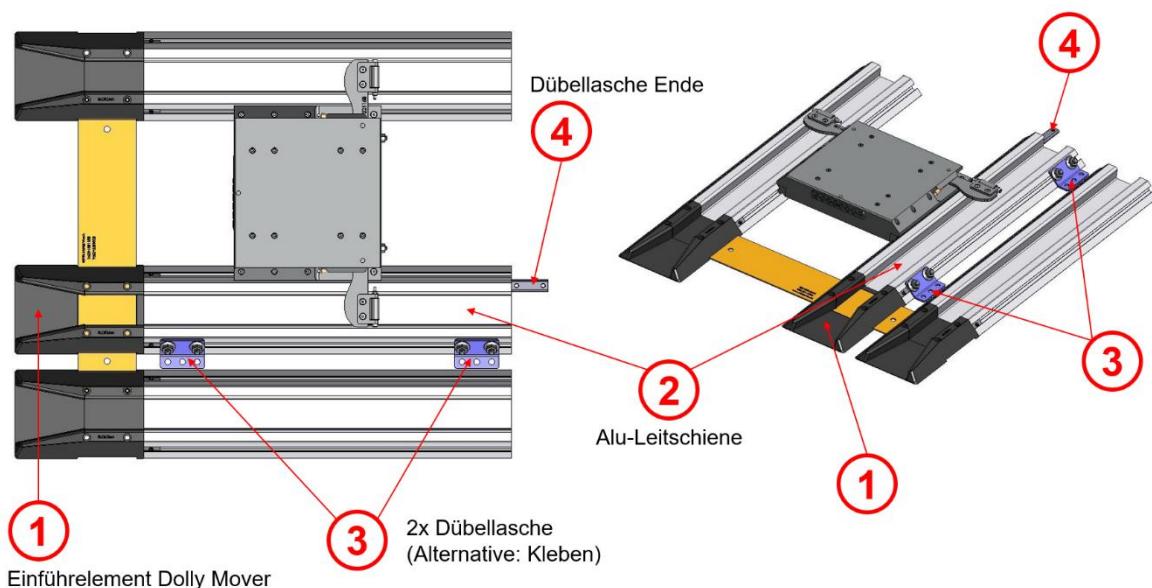


Fig. 1: Components for Dolly Mover®

Compatibility

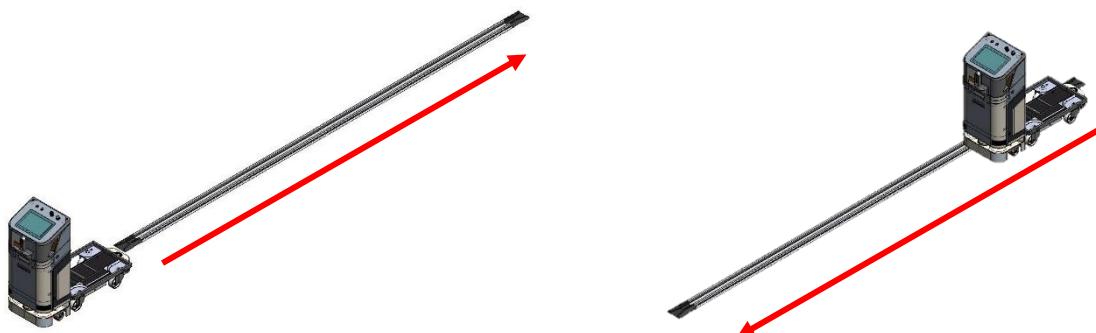
The Dolly Mover® is compatible with almost all trolleys from our BOF model range in the dimensions of 600x400 mm. Additional trolleys may be compatible upon review. No further programming of the AMR is necessary for the integration of the Dolly Mover®. Since our test runs were conducted with the Active Shuttle from Bosch Rexroth, we recommend using this AMR. We assume no liability for the use of other AMRs.

Our USPs

As outlined in the introduction, the Dolly Mover® shortens your lead times and prevents AMR congestion at the loading side of your supermarket. Depending on the size of your supermarket, this may also allow you to reduce the number of AMRs required.

The following briefly explains why the Dolly Mover® saves you so much time.

Situation without Dolly Mover®:

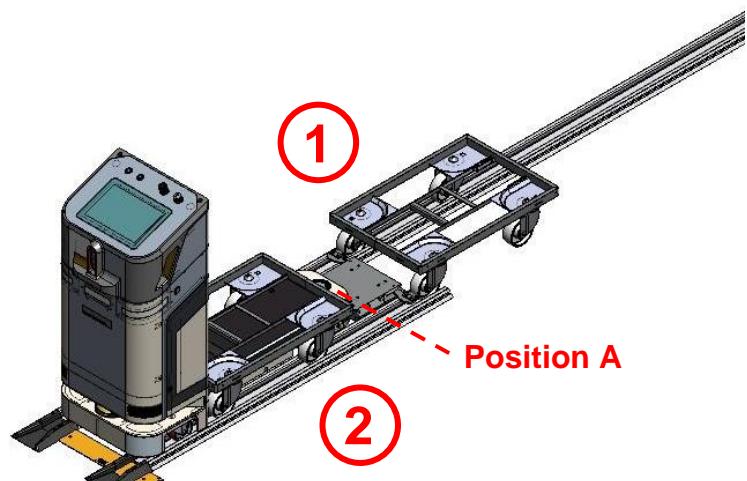


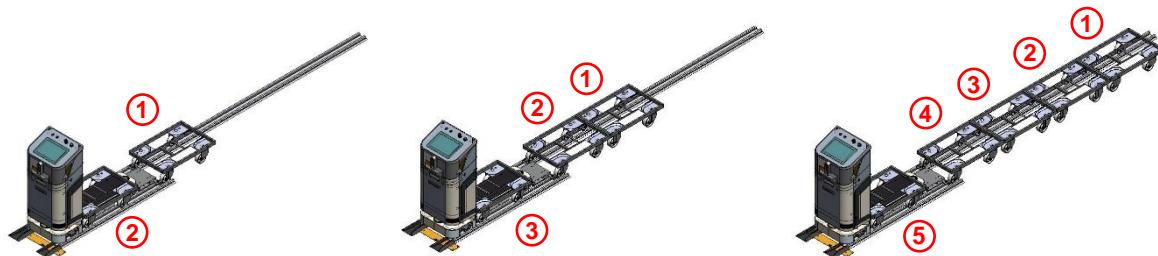
1. The AMR fills the empty supermarket
2. The AMR drives to the end of the supermarket and back again

Situation with Dolly Mover®:

The loaded AMR pushes the Dolly Mover®, which in turn pushes trolley 1. Trolley 2 is set down. This process repeats until the supermarket is fully stocked.

However, the AMR only needs to drive to position A inside the supermarket and can immediately exit again.

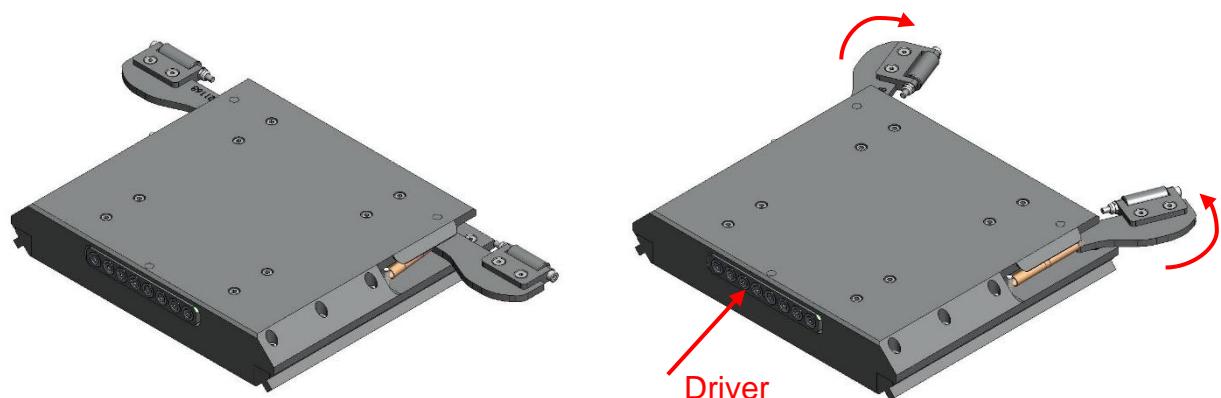




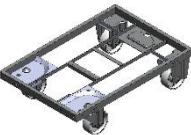
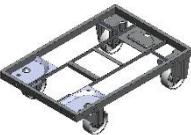
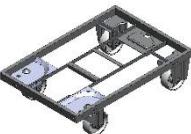
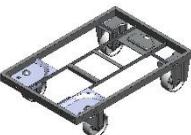
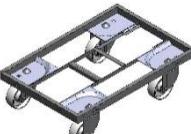
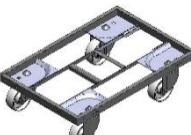
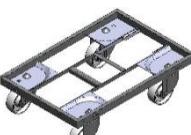
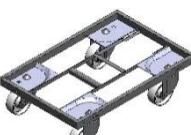
The AMR always pushes the trolleys forward by one position. In the right illustration, the supermarket is fully stocked. Here, trolley 1 can be easily removed by hand or by another AMR, without needing to enter or drive into the supermarket.

Functionality of the Dolly Mover®

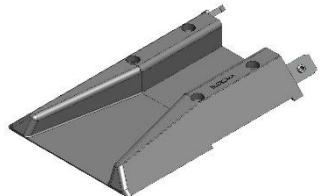
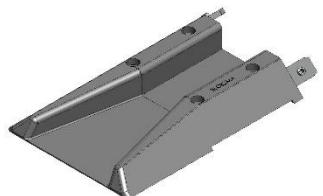
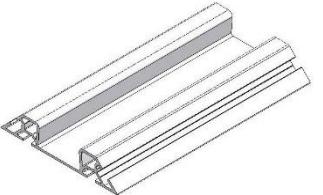
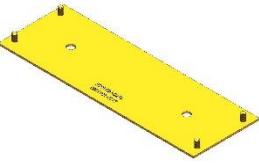
The AMR pushes the Dolly Mover® forward. It is held onto the AMR by means of carriers. As the AMR moves backwards out of the supermarket, the Dolly Mover® is pulled back under the trolley just placed. During this process, its arms fold in to allow passage under the trolley's wheels. A resistance on the infeed elements keeps it in the rails, and the connection to the AMR is released. Springs cause the arms of the Dolly Mover® to fold outward again, ready to push the next trolley forward.



Tested trolleys

Artikelnummer	Bezeichnung	
137786-NPO01	Trolley 600x400 2 swivel & 2 fixed castors / PA-wheels	
137786-NE002	Trolley 600x400 2 swivel & 2 fixed castors / ESD-wheels	
137786-NG003	Trolley 600x400 2 swivel & 2 fixed castors / Rubber-wheels	
137786-NCO05	Trolley 600x400 2 swivel & 2 fixed castors / PU-coated wheels	
137787-NPO01	Trolley 600x400 4 swivel wheels / PA-wheels	
137787-NE002	Trolley 600x400 4 swivel wheels / ESD-wheels	
137787-NG003	Trolley 600x400 4 swivel wheels / Rubber-wheels	
137787-NCO05	Trolley 600x400 4 swivel wheels / PU-coated wheels	

Released items

Article number	Designation	
138124-9005	Infeed element plastic black	
138124-1021	Infeed element plastic yellow	
138124-2009	Infeed element plastic orange	
138124-5002	Infeed element plastic ultramarine	
138124-6016	Infeed element plastic turquoise green	
138124-3001	Infeed element plastic rot	
138124-A9005	Infeed element aluminium black	
138124-A1021	Infeed element aluminium yellow	
138124-A2009	Infeed element aluminium orange	
138124-A5002	Infeed element aluminium ultramarine	
138124-A6016	Infeed element aluminium turquoise green	
138124-A3001	Infeed element aluminium red	
138318-xxxxx	Aluminium- guide rail SW 41 mm	
201500-0396	BG-connector / Track gauge	
201500-0714	BG-connector / Track spacing for supermarket end rail (see catalog 6.0 & 6.1, page 143)	

*supermarket components see catalog 6.0 & 6.1, page 137

Link:

https://www.bloksma.de/fileadmin/user_upload/Download/Produktflyer/BLOKSMA_Katalog_6_1_Web_NEU.pdf

Supermarket-Brochure:

https://www.bloksma.de/fileadmin/user_upload/Download/Supermarkt/BLOKSMA_Supermarkt_Broschueren_fuer_Web_2024.pdf

Order list

Article number	Designation	
285000	Dolly Mover®	
285100	Rail set – Dolly Mover®	