**Efficient material supply**

**Using the item Engineeringtool   
to design customised tugger trains**

**Efficient supplies of materials at the perfect tempo – tugger trains are used in many areas of logistics and production. The** [**Engineeringtool**](https://item.engineering/DEen/tools/) **from item now offers the option of digitally designing customised tugger trains and thus ensuring a demand-based material flow. Stable basic frames and structures can be rapidly created from the numerous components in the** [**item MB Building Kit System**](https://www.item24.de/en/productworld/building-kit-system.html) **and** [**item Lean Production Building Kit System**](https://www.item24.de/en/productworld/lean-production.html) **and adapted with ease.**

Many automotive and mechanical engineering companies and logistics service providers use tugger trains to make materials available for their production operations on a just-in-time basis. These tugger trains consist of a towing vehicle and several trailers – tugger train trolleys. The trolleys are used to transport goods and production equipment in load carriers from the storage facility to their destinations. As the transported goods vary in size, weight and shape, the tugger trains need to be optimised accordingly.

**Ultra-easy design thanks to the item Engineeringtool**

The item building kit system philosophy makes it possible to design stable and robust tugger trains of numerous types. The item Engineeringtool provides the ideal digital support in this process. Users deploy the intelligent software to quickly and easily design custom trolleys and load carriers using item aluminium profiles, matching fasteners and other accessories. Whether it be standard constructions, for example for europallets or mesh crates, or [customised tugger train solutions](https://youtu.be/93_kz-aj5qU), the engineering program offers countless design options for basic frames and structures. Thanks to the modular concept, tugger trains can be flexibly extended or modified at any time. All components are coordinated with each other and can be used together in a range of combinations.

**Wide selection of components**

Users assemble their custom tugger train in the item Engineeringtool from the countless components available. These include Swivel and Fixed Castors from the item MB Building Kit System, which offer features such as optimum rolling properties and a load-carrying capacity of up to 500 kilograms. They ensure optimum handling and outstanding directional stability for the trolleys. item offers a variety of different Drawbar designs for connecting several trolleys together or with the towing vehicle. This makes it possible to connect to commonly used coupling systems in electrical towing vehicles and to automated guided vehicles. Other components, including the Stacking Guide, Corner Deflector Guard and Forklift Pocket, enable users to [adapt frames](https://item.engineering/DEen/tools/engineeringtool/C0101-55FF27PDX) to various load carriers. What’s more, large numbers of components from the item Lean Production Building Kit System are available to ensure an efficient material supply in line with the lean philosophy. For all engineering results, the item Engineeringtool also provides the installation guide and full project documentation. On completion, the entire construction can be ordered as a project through the Online Shop.

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**Photos:** 2 (source: item)

**Caption 1:** Users deploy the item Engineeringtool to quickly and easily construct custom trolleys and load carriers using item aluminium profiles, matching fasteners and other accessories.

**Caption 2:** In addition to various Fixed and Swivel Castors, the Forklift Pocket, Stacking Guide and Corner Deflector Guard, item offers a variety of different designs for Drawbars that can be used for optimally connecting tugger train trolleys with each other and with the towing vehicle.

**About item**

item Industrietechnik GmbH is the pioneer in building kit systems for industrial applications and a partner of the manufacturing industry across the entire globe. Today, the item product portfolio comprises more than 4,000 high-quality components designed for use in machine bases, work benches, automation solutions and lean production applications. The company has received a string of awards for products with ground-breaking industrial design and end-to-end ergonomics.

item is spearheading digital engineering by driving forward the digitalisation of processes with software tools developed in-house. The item Academy offers training at various levels with on-demand training and online courses available in multiple languages.

Headquartered in Solingen, Germany, item has subsidiaries in various countries. Some 900 employees worldwide harness their know-how and passion to develop innovative solutions and services. Twelve sites make sure the company is always close to customers in Germany, with a global logistics chain ensuring swift delivery times for all components.

**Company contact**

Nicole Hezinger • item Industrietechnik GmbH

Friedenstrasse 107 - 109 • 42699 Solingen • Germany

Tel.: +49 212 65 80 5188 • Fax: +49 212 65 80 310

Email: n.hezinger@item24.com • Internet: [www.item24.com](http://www.item24.com)

**Press contact**

Jan Leins • additiv pr GmbH & Co. KG

Press work for logistics, steel, industrial goods and IT

Herzog-Adolf-Strasse 3 • 56410 Montabaur • Germany

Tel.: +49 26 02-95 09 91 6 • Fax: +49 26 02-95 09 91 7

Email: jl@additiv-pr.de • Internet: [www.additiv-pr.de](http://www.additiv-pr.de)/maschinenbau