

Flexible transport. More efficient work. Overcome challenges.



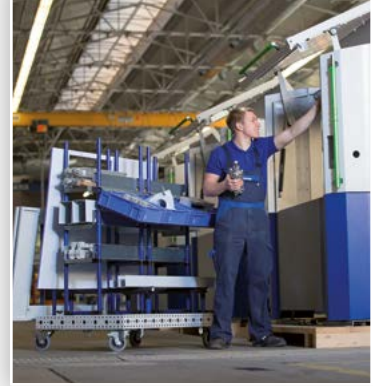
4Dflexiplat

Lean philosophy

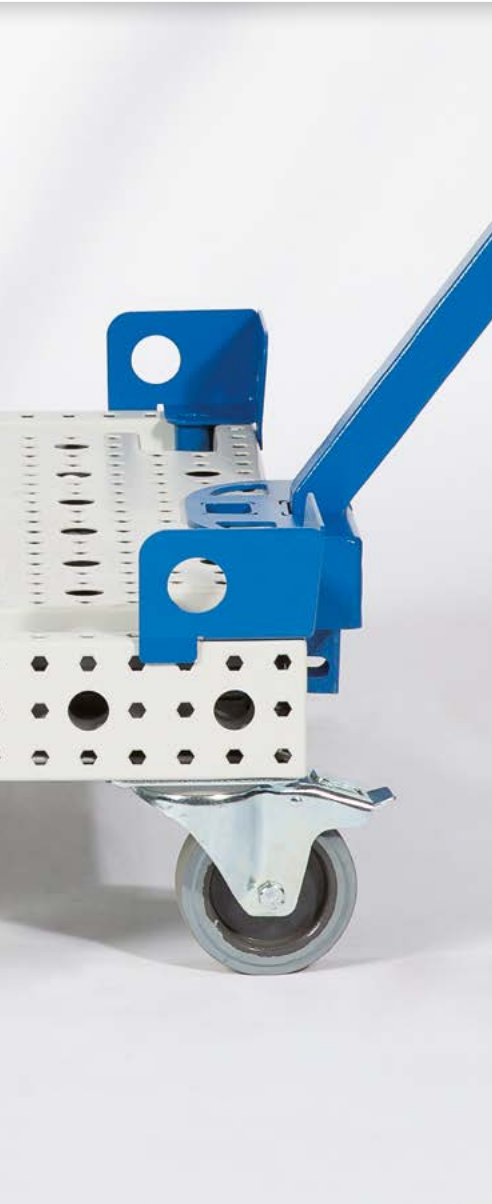
Optimise set-up processes and get materials flowing. 'Lean philosophy' is always about a process of change within company culture:

- › Increase value added for the customer
- › Eliminate waste
- › Optimise production flows

4Dflexiplat will raise your lean methodology to a new level.



4Dflexiplat



„True creativity is always the result of not having much.“ Wolfgang Joop

The most savings potential is in transport and in providing material and information. Many companies don't foster the customer-supplier relationship within the company itself enough. This results in material not being provided in the way it is needed for the subsequent process (internal customer). The one who ought to be managing value added is just looking after ancillary processes.

4Dflexiplat was developed in house at KMK to meet their own needs, and was adjusted and put to the test over a number of years.

The result is a modular means of transportation which serves as a logistics and an assembly trolley.

It's all down to intelligently connecting work flows and methods within the production chain. **4Dflexiplat** supplies you with material at an ergonomic height or picks up material thus integrating the product into your processes.

Few standardised superstructures support a variety of tasks throughout the entire process chain. The hole grid is standardised, meaning it is the same everywhere. As a result, superstructures can be flexibly added to the platform. Reduce your range of different transport trolleys to just one single system. Find out more ...

Modularity

Patented logistics system

Basic design platform (L x W x H)

600 x 800 x 100 mm

1200 x 800 x 100 mm

2000 x 800 x 100 mm

Load capacity max. 1000 kg

Hole grid 100 x 100 mm with DN28

Threaded hole grid (rivet nut)

33 x 33 mm with M8

Wheel set height 155 mm

Outsides powder coated

(RAL 7035) for use in

dry areas

Plug-in modules

- › Table module (e.g. heights 1000/850/650/450mm)
- › Table modules with 3D design
- › Tray module
- › Module combinations
- › Special solutions
- › ESD version available



Table module (heights)





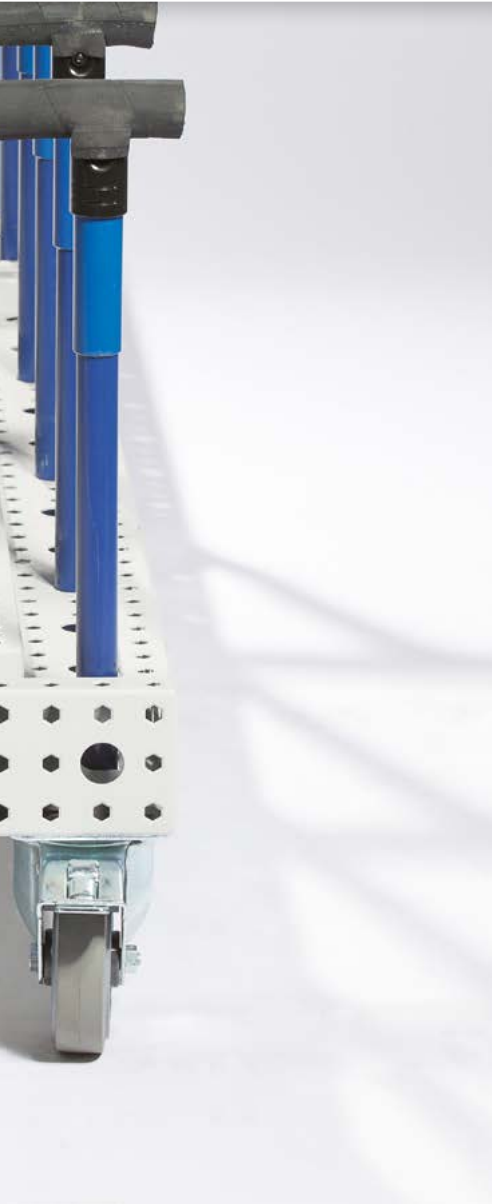
Table module 3D design



Tray module



Basic design platform



Overcome logistical challenges in next to no time!

The name, **4Dflexiplat**, is a combination of the three standardised measurements: length, width and height (= 3D), with time being the fourth dimension (= 4D). **flexiplat** stands for the flexibility which the platform offers its users.

„Time“ stands for productivity potential. The **4Dflexiplat** tool allows you to reach the highest level of productivity in shop floor management. A combination of functional basic platforms, a pipe construction system and additional accessories create a design out of standard modules that is suitable for almost all

activities. Thanks to its standardised hole grid, **4Dflexiplat** provides a surface for constructing customised designs using pipe systems. Different pipe construction systems available on the market are suitable.

This flexibility means that after the product life cycle, for example, the transport and work trolley can either be dismantled or converted. Uniform containers, modules and platforms mean that all parts can be changed at whatever stage in the process, thus forming a cycle.

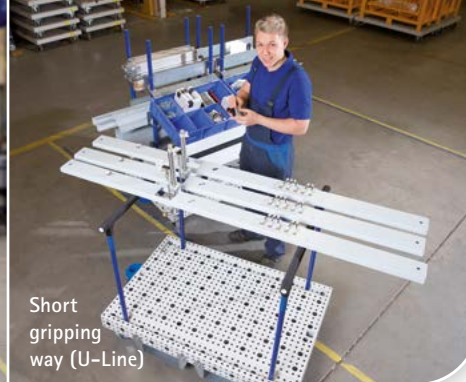
Ergonomics



4Dflexiplat



Individual working height



Short gripping way (U-Line)



Work more ergonomically, efficiently and intelligently!

4Dflexiplat is first a sustainable solution for making production processes more efficient, and second, protects employees' health by providing ergonomic conditions while providing yet more quality and efficiency. By using **4Dflexiplat**, you will get your materials to the right stage in the process without having to look, stoop or run around for them. Everything in one place and ready to be used! And all at the optimal working position.

The fact that the platforms can be rolled means that a forklift truck is not needed to put them in the right position. Short distances allow materials to be allocated perfectly. As a result, you gain time. Ergonomic

heights mean you don't have to reach as far (best point). Integrated small parts boxes mean you can find items quickly. Their corresponding design allows you to recognise instinctively if your material or tool is not complete.

A work space is soon constructed using just a few standard modules which you can also use to transport items. Commissioned material, assembly parts and even tools are delivered straight to your workplace, U or flow lines for this part of the value added process. No additional picking, unpacking, disposing of packaging materials and no having to relocate to other workplaces.

Productivity



Before (top): Confusing and not ergonomic material supply. After (bottom): Process and cost optimization and high flexibility.



Machining



Welding



Assembly flow production



Set Cart





Bending



Set Cart

Increase productivity and employee satisfaction

There are enough static structures! Being able to roll the trolleys means you can best position your materials without using other tools. Unnecessary distances and movement are avoided.

4Dflexiplat is the modular system for tools and materials. Great flexibility, process optimisation and a high savings potential go hand in hand with this system. Productivity is increased because unnecessary distances are eliminated and time is not wasted. All activities are concentrated on the direct value added. The most efficient workplaces cultivate

satisfaction and also motivation. Only productive and goal-oriented activities increase productivity. Besides streamlining processes, well-structured internal logistics also result in cost optimisation.

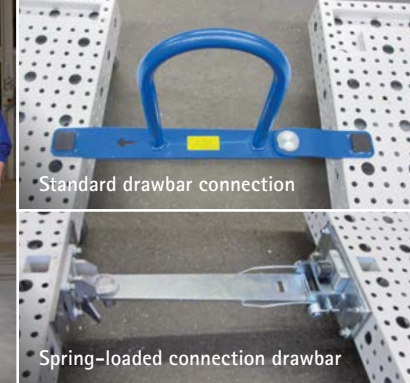
An improvement in quality is then a logical result. Using ergonomics results in less fatigue and more attention being paid to the work at hand. Obtaining an overview of the parts allows for transparency within processing sequences and when completing materials.

Tugger trains

Trolley tugger



Connection with drawbar system



Standard drawbar connection

Spring-loaded connection drawbar



You'll make a quantum leap by incorporating 4Dflexiplat modules into your tugger trains.
Small amounts of material x higher number of trips = materials in flow.
Standard is the tugger with drawbar connection. More flexibility provides easy latching in frame systems.

4Dflexiplat



Tugger transport trolley



Simple plugging into E-Frame



E-Frame tugger

Get moving, locally or globally!

Tugger trains bring together lots of advantages. The towing bar provides the tugger train with directional stability for your internal logistics. Expensive single 'taxi trips' using the fork lift truck are replaced and material enters the workflow efficiently. Without any empty runs. A standardised means of transport with all the necessary functions is required: **4Dflexiplat**.

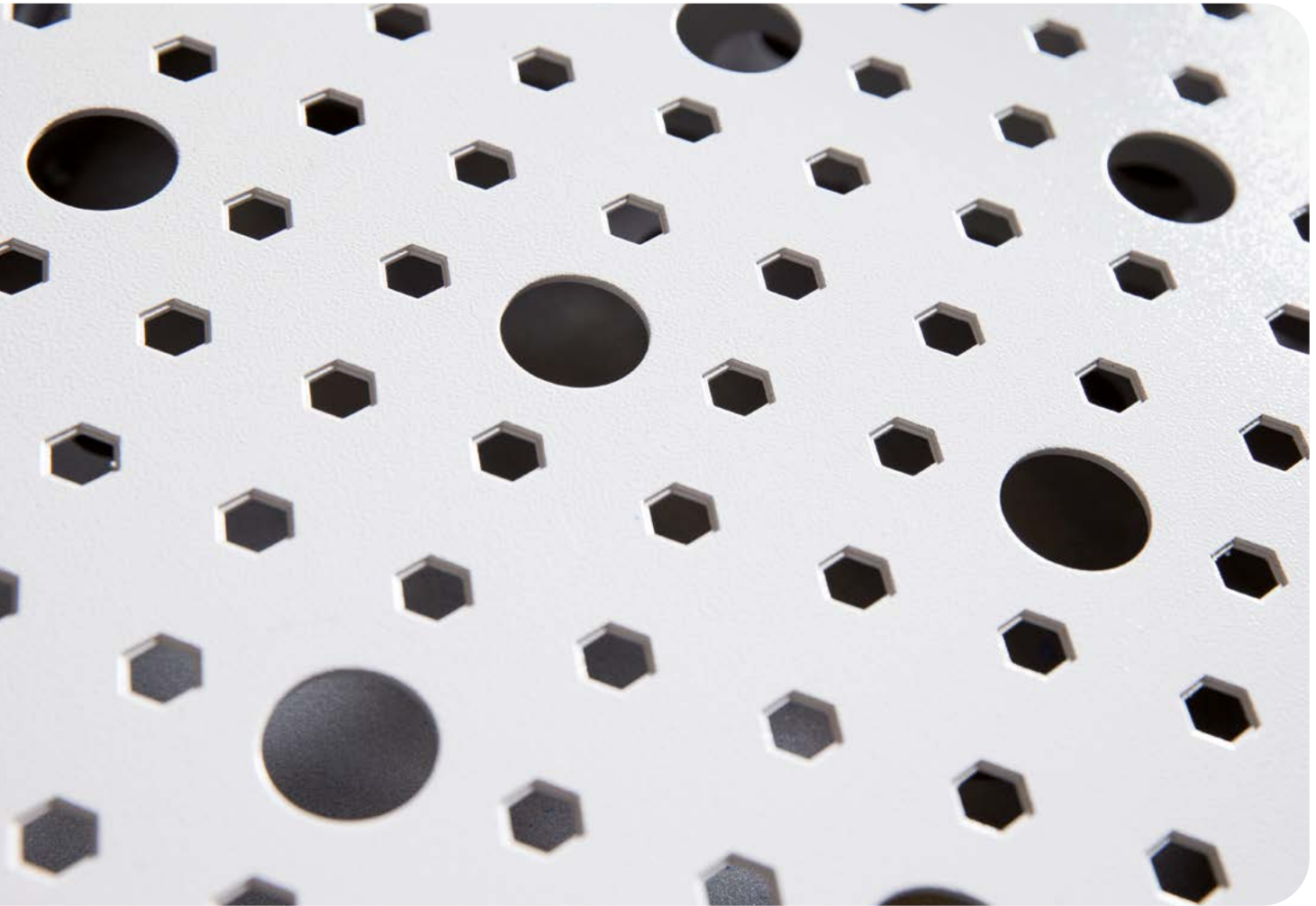
Joined together, the pluggable drawbar connection turns the 4Dflexiplat transport trolleys into a directionally stable tugger trolley for your internal logistics. Other drawbar systems are adaptable. **4Dflexiplat** can be used as a transport or change trolley with common E-Frame systems (also C-Frames and U-Frames and others).

Using **4Dflexiplat** in tugger trains saves on cost. The tugger train can not only be used around the site. In fact, the kinds of activities it can be used for are just as flexible as its construction – they are unlimited.

Outside of the company, the platform trolley can be turned into a transport rack. Material that is sourced and picked from the supplier can be put straight into the process. Products can be transported safely and efficiently on transport racks and so be ready and available for whatever the customer needs them for in the next processing stage.



Work more ergonomically, efficiently and intelligently!



4Dflexiplat

NeoLog GmbH
Fragnerstr. 2
84034 Landshut

Tel: +49.871.20217085
info@neolog.info
www.neolog.info