



RollerForks®

Palletless transport
the new revolution



RollerForks®
A trademark of Meijer Special Equipment

RollerForks®



Using the unique RollerForks® will make pallets unnecessary for a wide range of applications. They are one of the most ingenious developments in materials handling for many years. By allowing your goods to be handled without the need for expensive timber or artificial pallets, the RollerForks® will save you money and space. This system combined with low-cost slipsheets offers a revolutionary form of "one-way pallets" which

will show a rapid return on investment. RollerForks® meet the highest quality standards and have been tested at a large number of international companies. RollerForks® have been developed and patented by Meijer Special Equipment in The Netherlands underlining the innovative character of Meijer Special Equipment. MSE is also the manufacturer of the well known telescopic lift truck fork system - Kooi-Reachforks®.

Varied range of application

RollerForks® can be fitted to most trucks with an FEM fork carrier including lightweight electric stackers. Products in boxes and cartons, bagged goods, FIBC's, etc. when placed on a slip-sheet can be transported with RollerForks®. Since there are no hydraulics or lubrication required, the RollerForks® are particularly well suited to the food and pharmaceutical industries. It is also possible to place a load with slip-sheet on a standard pallet for internal transport and storage. When goods on slip-sheets have to be stored in racking it is important that racks have supporting boards in place.



RollerForks® easily fit on every lift truck.



If used as a pair, normal pallets can also be transported.



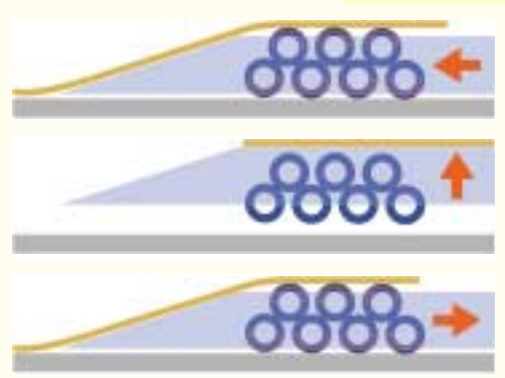
If one load is placed on top of another it is necessary to have them separated by two slip-sheets. The RollerFork® must operate between the two sheets – the bottom sheet allowing the forks rollers to function correctly.



During transportation the load is fixed on the forks.

The basic principle

The RollerFork® consists of a special lift truck fork that serves as a supporting frame with a special hinge in the heel allowing it to always lie flat on the floor. Inside the fork are two layers of rollers, one on top of the other, that drive each other when the forks are moved over the floor. The basic principle is that the upper rollers rotate at exactly the same speed but in the opposite direction as the lower rollers, which are in contact with the ground. When the RollerFork® is lifted up from the ground the rollers automatically lower and the load is held on the forks. The RollerFork® and the rollers are made of high-grade materials, and because there are no axial forces there is hardly any wear and tear. Any dust and dirt will end up on the floor.



Advantages of slipsheets

When pallets need to be replaced it is important to know that it is possible to save more money when loaded lorries or containers are transported from one location to the other. The advantages of slipsheets over pallets are:

- lower purchasing costs
- more volume and weight capacity available in trailers and containers
- 98% less empty stacking space needed
- less handling, less administration and less return transport
- better hygiene and easier to clean
- more ecologically sound



Replacing a push-pull

Whilst the application of slip-sheets has been a success in some applications, the hydraulic attachment required, the push-pull, is expensive and heavy. As a result some of the potential advantages are undone. Compared to a push-pull system the RollerForks® offer the following unparalleled advantages:

- lower investment costs
- RollerForks® weigh little more than ordinary forks allowing a smaller lift truck to be used
- no hydraulic connection needed
- applicable to light weight electric stackers
- no loss of visibility
- almost no maintenance needed because there are no hydraulics and no lubrication points.
- RollerForks® can also be used for lifting standard pallets

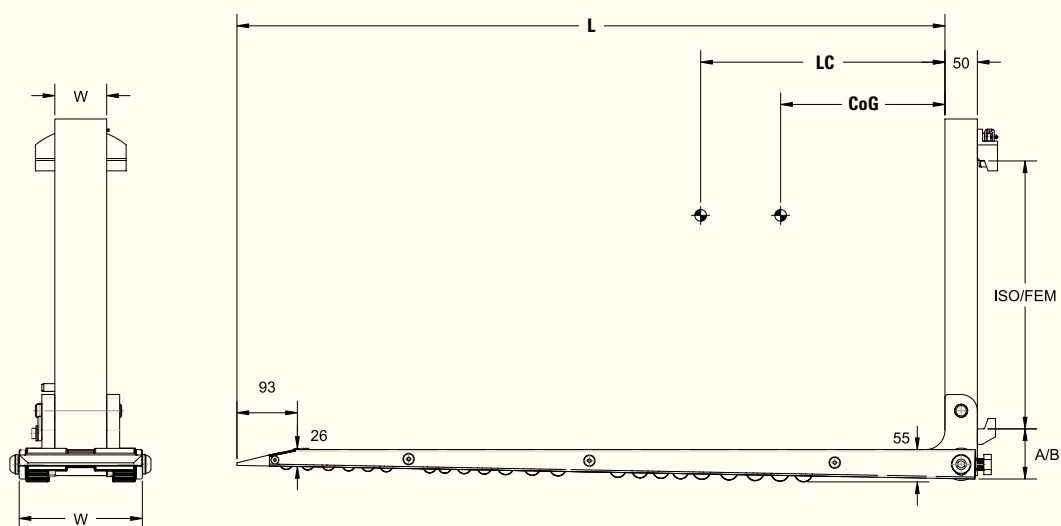
The lift truck equipped with RollerForks® is smaller and lighter has the same lifting capacity. Companies investing in Palletless handling for the first time will also find that the benefits extend to the receivers of their slip-sheeted products. The much lower start-up costs associated with the RollerForks® will mean that more customers will accept their introduction and implement similar handling systems.



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Introduction of the RollerForks®

Before trials or introduction of the RollerForks® it is important to look in detail at the application and objectives. This will involve a basic study of the logistic process, size and types of packing (maximum weight 2000 kg), choice of slip-sheets etc. If the analysis leads to a trial it is important to have good on-site technical support. When testing, the RollerForks® can be fitted on a standard FEM fork carrier of an existing lift truck. No additional hydraulic functions are required.



Specifications

RollerForks® with two rows of rollers per fork

Type	Cap./per pair 500 mm.	Length mm.	Width W1 mm.	Width W2 mm.	CoG mm.	Weight/per pair kg.	Suspension ISO/FEM
RF 10-1100	1000	1100	190	80	345	130	II A or B
RF 10-1200	1000	1200	190	80	395	135	II A or B
RF 20-1100	2000	1100	210	100	340	148	II A or B
RF 20-1200	2000	1200	210	100	390	155	II A or B

- Other lengths available on request.
- Depending on the product and the width of the load it might be necessary to use 3 or 4 RollerForks® next to each other. RollerForks® meet the international standards mentioned below.
- RollerForks® can also be used for lifting FIBC's and/or bagged goods.

ISO 9001-2000

Quality management for development
and production.

ISO 2328

Dimensions and tolerance of suspension.

CE

European guideline for machines (98/37),
forks have a safety factor of three times
rated capacity.



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