MENGELE

Three way tipping trailer and skip tippers



Tipping trailers for professional use

MENGELE Agrartechnik

A company of the Lely Group

LELY

innovators in agriculture



Tipping trailers for professional use

High performance transport technology is the basis of modern agriculture. All through the year large quantities must be moved quickly and efficiently, during harvesting, fertilising or other farm activities. Transport technology that enhances the efficiency and therefore the profitability of the entire work process. The specifications are clearly defined: large loading capacity, simple operation, fast and trouble-free loading and unloading, economy and a long service life. Mengele tipping trailers fulfil these requirements exactly – whether as a three-way or skip tipping trailer. See it for yourself!



Hot-dip galvanised V-frame.

Suspension with sprung support.



The new generation of chassis frames

The newly developed chassis frames of Mengele tipping trailers are built of high-quality closed steel section (fine grain steel) and guarantee highest stability and safety even in extreme operating conditions. A special feature of the vehicle types from 16 t onwards is the variable suspension height of the parabolic springs that, depending on the tyres, can always guarantee ideal chassis or platform height. All round hot-dip galvanisation provides long lasting corrosion protection.

Suspension

Leaf and parabolic suspension with sprung support and wide tyres ensure comfortable transport, a long service life and safety on all types of terrain. The independent suspension guarantees ideal adaptation to off-road ground conditions and maximum protection of turf.

Hard chrome plated telescopic cylinders

The reinforced cardanically mounted, hard chrome plated telescopic cylinders provide enormous lifting power for trouble-free and safe tipping.

Tipping bearings

The large-scale tipper bearings are self-centring in the bearing holder. The intelligent construction of the connectors prevents cross-over connection.

Cardanically mounted tipping mechanism.



Tipping bearings.



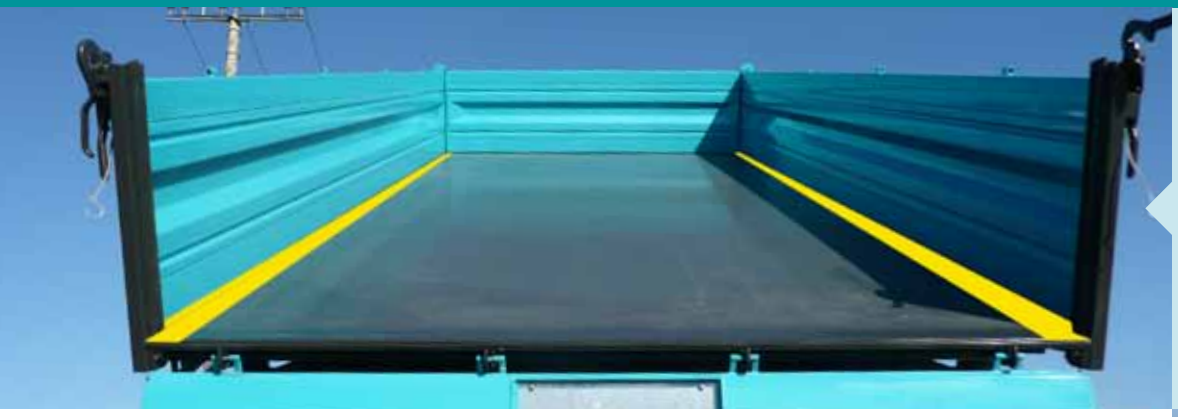
Protection against cross-over connection.





Unique platform construction

The tipping frame with a 4 or 5 mm steel floor, generously dimensioned longitudinal beams and a number of solid cross members is torsionally rigid in all directions, making it unique in the tipping trailer market. The outer location of the tipper bearings ensures optimum stability even in extreme operational conditions.



Conical platform for safe unloading.

Standard conical platform

All tandem and two-axle vehicles (with the exception of MEDK 20000 and MZDK 18000) are standardly fitted with a conical platform. This ensures safe unloading even of sticky silage material.

Rape-tight superstructure

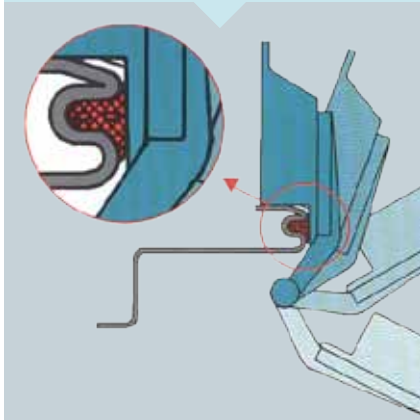
The all round rubber gaskets (standard from 8000 TA onwards) in the specially profiled edges of the platform, corner stakes and front gate ensure that three-way tipping trailers are permanently sealed even against fine-grained materials. The closing angle of the boards creates a self-cleaning effect when they are raised.

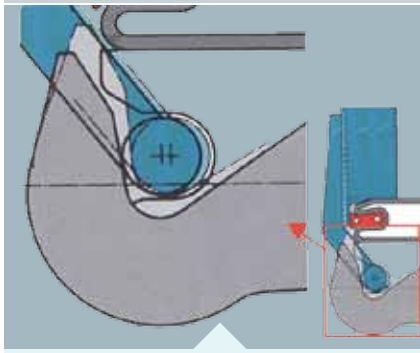


Rape-tight superstructure, self-cleaning platform.

Locking of foldable side boards and tailgate

Central locking ensures easy handling of the foldable boards to the left, right and rear: the robust locking hook with a 30 mm draw guarantees secure locking. The foldable board extensions are simply fitted together with board connectors, no tools are required. The boards can be folded singly or together with the extensions.





Adjustable locking hooks with 30 mm draw.

Reinforced board hinges.



Board connector.

Board fixing.







Mengele single axle tipping trailers – the versatile all round talent

The Mengele single axle compact tipping trailer with a low centre of gravity and therefore optimum load capacity is the perfect vehicle for all applications. With maximum permitted total weight from 3 t to 8 t, a wide range of extensions, tyre types and additional equipment, Mengele provides the ideal vehicle for every farm. The single axle tipping trailers from Mengele have excellent road holding characteristics and manoeuvrability.



MEDK 3000



MEDK 4000 with first steel board extension set.



MEDK 6400



MEDK 8000 with first steel board extension set.

Hot-dip galvanised chassis frame

The torsionally rigid, hot-dip galvanised V-frame of high-quality closed steel section guarantees high stability and safety even in extreme operating conditions. All single axle models are standardly equipped with an overrun brake with reverse drive mechanism. The support wheel can be swivelled and adjusted in height.

Stable platform construction, variable extensions

The tipping frame with a 4 mm steel floor and the outer location of the tipping bearings provide optimum stability. All models are standardly equipped with powder-coated steel boards. The central locking system at the rear and the grain discharge slide are standard from MEDK 4000 onwards. Central locking for the side boards is standard or optional depending on the model chosen. The vehicles can be variably fitted from an extensive range of foldable board extensions.



Mengele tandem tipping trailers – transport for professionals

Mengele tandem tipping trailers combine functionality and cost-effectiveness. The new chassis frames have been developed to top truck standard with a low centre of gravity and broad spring rate for top road holding and driving comfort. The extensive programme of tandem tipping trailers includes vehicles ranging from 8 t to 20 t.



MEDK 8000 TA



MEDK 10000 TA

The new generation of chassis frames

The newly developed V-chassis frames of Mengele tandem tipping trailers are manufactured from high quality closed steel section (fine grain steel) and guarantee a high degree of stability and safety even in extreme operating conditions. A special feature of the vehicle types from 16 t onwards is the variable height of the parabolic suspension that, depending on the tyre size, always guarantees optimum height of the chassis and platform. The sprung tandem axle minimises pressure on the soil and ensures off-road driving comfort and safety for fast road driving.

Unique platform construction

The tipping trailer frame with a 4 mm steel floor, generously dimensioned longitudinal beams and a number of massive cross members is unique in the market. The standard conical shape of the platform ensures safe discharge of all kinds of material. The outer location of the tipper bearings ensures optimum stability even in extreme operating conditions.

Robust side boards

The cold rolled, laser welded side boards of steel section are 60 or 70 mm thick. The state of the art powder-coating provides excellent protection against corrosion. The central locking system for the boards to the left, right and at the rear and the broad grain discharge slide in the tailgate are standard for all tandem models. The vehicles can be variably fitted from a wide range of foldable board extensions.



MEDK 14000 TA with 2nd set of swinging steel board extension.



MEDK 16000 TA with 2nd set of swinging steel board extension.



MEDK 18000 TA with 2nd set of swinging steel board extension and hydraulic tail gate.



Mengele two axle tipping trailers – highest truck standard

The ideal tipping trailers for long transport distances: the individually sprung axles ensure a high degree of stability and quiet run. High speed axles are available for up to 100 km/h. Maximum performance: for example in grain and sugar beet transport. The two axle tipping trailers programme includes vehicles ranging from 8 t to 18 t.



MZDK 18000 with roll-up tarpaulin and step.

Professional frame construction

The newly developed, torsionally rigid chassis frames of the Mengele two axle tipping trailers are manufactured from high quality, micro-alloyed fine grain steel. The offset frame construction of closed steel section guarantees high stability. The freely steerable bogie with its large scale, smooth running, ball bearing supported ring is constructed to the highest truck standards. The leaf suspension with sprung support ensures excellent off-road driving comfort and safety for fast road driving.

Unique platform construction

The tipping frame with a 4 mm or 5mm steel floor, generously dimensioned longitudinal beams and a number of massive cross members, is unique in the market. An extra wide platform with a high loading capacity can be safely unloaded thanks to the conical superstructure. The outer location of the tipping bearings ensures optimum stability even in extreme operating conditions.

Robust side boards

The wide box dimension of 60 or 70 mm and the cold rolled and laser welded steel section of the boards provide exceptional stability. The state of the art powder-coating of the boards gives excellent protection against corrosion. The central locking system of the boards to the left, right and rear and a wide grain discharge slide in the tailgate are standard for all tandem models. The vehicles can be variably equipped from a comprehensive range of foldable extensions.



MZDK 18000 with divided side boards.



MZDK 10000




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Mengele flat bed tandem tipping trailers – professional transport

Mengele flat bed tandem tipping trailers are mainly characterised by their very low centre of gravity, making them ideal vehicles both for agriculture and industry. A low platform height, wide frame construction and sprung support span combined with a sprung tandem aggregate ensure driving comfort. The tandem flat beds are available with maximum loading weights of 10 t, 12 t or 15 t.



MEDK 16000 TA/TL



MEDK 10000 TA/TL

Optimum chassis height

The newly developed V-chassis frames of the Mengele flat bed tandem tipping trailer with an extra-wide chassis frame and sprung support span are manufactured from high-quality closed steel section (fine grain steel) and guarantee the highest degree of stability even on uneven ground. The sprung tandem axle aggregate with sprung support is finely coordinated with the tyres to guarantee the lowest possible chassis and platform height.

Unique platform construction

The tipping frame with a 4 mm steel floor, generously dimensioned longitudinal beams and a number of solid crossbeams is unique in the market. The standard conical platform ensures safe discharge of all materials. The outer location of the tipping bearings ensures optimum stability even in extreme operating conditions.

Extra stable boards

The wide box dimension of 60 mm or 70 mm and the cold rolled, laser welded steel section of the boards provide exceptional stability. The state of the art powder-coating of the boards provides excellent corrosion protection.
The central locking system of the boards to the left, right and rear and a wide grain discharge slide in the tailgate are standard for all tandem models. The vehicles can be variably equipped from a comprehensive programme of foldable board extensions.



MEDK 12000 TA/TL



MEDK 12000 TA/TL with 2nd set of swinging steel board extension.



Sprung drawbar

Mengele tandem axle tipping trailers are fitted with sprung drawbars from 21 t onwards to ensure that heavy loads are safely transported over uneven terrain and at high speed on the road. The drawbar itself can be turned and is suitable for high and low attachment.

Optional equipment



Low attachment for MEDK 16000/18000.



Low attachment for MEDK 8000/10000/12000.



K80 ball-headed bearing coupling.



Hydraulic support arm.



Support foot with reduction gear.



Saddle support jack.



Chassis stabilizer.



Trailed steering axle.



Automatic towing coupling.



Hydraulic tailgate for chopped material – with unique opening and closing mechanism

The hydraulic tailgate for chopped material with a large jib enables safe unloading even of large heaps of material. The torsionally rigid construction of the tailgate in combination with a stable swivel bearing (no slot) guarantees safe closing.

Optional equipment



Tarpaulin with step.



Foldable tarpaulin roof tube.



Grain discharge funnel with fine dosage.



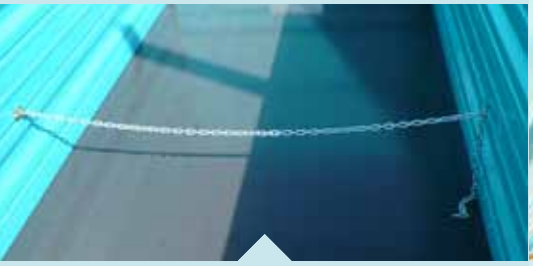
Discharge channel.



Lifting springs.



Corner chains.



Tensioning chain.



Inclined supports.



Gravel gate.



Mengele skip tipping trailer – quality from the start

The newly developed, self supporting skip construction from Mengele is the ideal transport vehicle for a high performance farm. The very low centre of gravity and the outer location of the tipper bearings ensure absolute stability even in difficult conditions. The comprehensive programme of skip tipping trailers includes vehicles from 8 t to 21 t.



M12000 TA with board extension.



M16000 TA with board extension.

Ideal chassis height

The newly developed V chassis frame of Mengele skip tipping trailers with extra wide chassis frame and sprung support are manufactured from high-quality steel section (fine grain steel) and guarantee high stability even on uneven terrain. The low-lying parabolic or leaf sprung tandem axle aggregate with wide sprung support and track width ensures a high degree of safety during loading and unloading and excellent driving comfort even at high travelling speeds.

Safe unloading

Mengele's newly developed self supporting skip construction of 4 mm plate steel provides a high degree of stability. The extremely rigid stanchion construction holds the skip together even under the heaviest of loads and thereby ensures safe locking of the tailgate. The new "half pipe" skip shape and smooth inner wall enable even very sticky materials to be unloaded safely and cleanly.

Perfect locking

Stable swivelling bearings on the hydraulic rear wall (no slot) prevent uneven cylinder lift and guide the tailgate safely into the lock position. Furthermore, the tailgate can be locked hydraulically. The integrated rubber gasket guarantees a rape-tight sealing. The large discharge slide (440 x 240 mm) allows controlled unloading of free flowing materials.

Standardly available with foldable extensions

The board extensions are available in different heights and can all be folded at the side. This enables the vehicle to be loaded also from lower loaders, combine harvesters etc. The hydraulic tailgate can still be opened. On request the front gate can be folded hydraulically.



M 20000 TA with board extension.



Hydraulic rear wall with grain discharge slide.



Hydraulic front gate.

Foldable board extension.



	Max. permissible weight (kg)	Empty weight (kg)	Diameter of live ring (mm)	All-steel floor (mm)	Platform size, inner length (approx. mm)	Platform size, inner width (approx. mm)	Side board height (mm)	Rear board height (mm)
Single axle tipping trailers								
3000	3,500	600		4	2,500	1,500	400	400
4000	4,000	950		4	3,000	1,620	400	400
5000	5,000	1,000		4	3,500	1,800	400	400
6000	6,000	1,200		4	4,000	2,000	500	500
6400	6,400	1,400		4	4,000	2,200	500	500
8000	8,000	1,700		4	4,000	2,200	500	500
Tandem tipping trailers								
8000 TA	8,000	2,365		4	4,500	2,250/2,180	600 + 500	600 + 600
10000 TA	10,000	2,420		4	4,500	2,250/2,180	600 + 500	600 + 600
12000 TA	12,000	2,520		4	4,500	2,250/2,180	600 + 500	600 + 600
14000 TA	14,000	2,820		4	4,500	2,250/2,180	600 + 600	600 + 600
16000 TA	16,000	3,250		4	5,250	2,250/2,180	600 + 600	600 + 600
18000 TA	18,000	3,400		4	5,250	2,250/2,180	600 + 600	600 + 600
20000 TA	18,000	3,500		4	5,250	2,250/2,180	600 + 600	600 + 600
21000 TA	20,000	4,400		5	5,250	2,420	800 + 500	800 + 500
Two axle tipping trailers								
8000	8,000	2,315	1,050	4	4,500	2,250/2,180	600 + 500	600 + 600
10000	10,000	2,380	1,050	4	4,500	2,250/2,180	600 + 500	600 + 600
12000	12,000	2,520	1,050	4	4,500	2,250/2,180	600 + 500	600 + 600
16000	16,000	3,260	1,100	4	5,250	2,250/2,180	600 + 600	600 + 600
18000 konisch	18,000	3,460	1,100	4	5,250	2,250/2,180	600 + 600	600 + 600
18000 Palette	18,000	4,220	1,100	5	5,250	2,420	800 + 500	800 + 500
Low bed tandem tipping trailers								
10000 TA/TL	10,000	2,420		4	4,500	2,250/2,180	600 + 500	600 + 600
12000 TA/TL	12,000	2,520		4	4,500	2,250/2,180	600 + 500	600 + 600
16000 TA/TL	16,000	3,250		4	5,250	2,250/2,180	600 + 600	600 + 600

	Max. permissible weight (kg)	Empty weight (ca.kg)	Diameter of live ring (mm)	Inner trough size length (approx. mm)	Inner trough size width (approx. mm)	Inner rough size height (approx. mm)	Optional board extension height (mm)	Max. capacity (approx. m³)
Skip tipping trailers								
M 8000 TA	8,000	3,200	4	4,700	2,280/2,180	1,500	500/600	22
M 10000 TA	10,000	3,300	4	4,700	2,280/2,180	1,500	500/600	22
M 12000 TA	12,000	3,500	4	4,700	2,280/2,180	1,500	500/600	22
M 14000 TA	14,000	3,780	4	4,700	2,280/2,180	1,500	500/600	22
M 16000 TA	16,000	4,150	4	5,540	2,280/2,180	1,500	500/600/800	28
M 18000 TA	18,000	4,300	4	5,540	2,280/2,180	1,500	500/600/800	28
M 20000 TA	20,000	4,880	4	5,540	2,280/2,180	1,500	600	28
M 21000 TA	21,000	5,250	4	6,150	2,280/2,180	1,500	600	30

Trough sheet thickness	Max. capacity (approx. m³)	Platform height (ca. mm)	Number of tipping rams/stages	Stroke (mm)	Track width (mm)	Standard tyres
400	4	800	1/3	800	1,250	10/75-15 10 PR
400	4.50	850	1/3	900	1,350	10/75-15 10 PR
400	5	880	1/3	1,050	1,450	11.5/80-15.3 10 PR
500	8	980	1/4	1,500	1,650	15.0/55-17 10 PR
500	9	1,050	1/4	1,500	1,800	15.0/55-17 10 PR
500	9	1,180	1/4	1,500	1,800	385/65 R 22.5 retreaded to agricultural standards
500/600	18	1,150	1/4	1,600	1,800	15.0/55-17 10PR
500/600	18	1,200	1/4	1,600	1,800	13.0/75-16 10 PR
500/600	18	1,200	1/4	1,600	1,800	13.0/65-18 12 PR
600	18	1,300	1/4	1,600	1,800	385/65 R 22.5 retreaded to agricultural standards
600	21	1,300	1/4	1,850	1,950	385/65 R 22.5 retreaded to agricultural standards
600	21	1,300	1/4	1,850	2,000	385/65 R 22.5 retreaded to agricultural standards
600	21	1,300	1/4	1,850	2,000	385/65 R 22.5 landw. runderneuert
500/600/800	24	1,300	1/4	1,850	2,000	385/65 R 22.5 landw. runderneuert
500/600	18	1,150	1/4	1,600	1,800	12.5/80-18 12 PR
500/600	18	1,200	1/4	1,600	1,800	12.5/80-18 12 PR
500/600	18	1,200	1/4	1,600	1,800	355/60 R 18 MPT Agro Trailer
600	21	1,340	1/4	1,850	1,800	385/65 R 22.5 retreaded to agricultural standards
600	21	1,340	1/4	1,850	1,800	385/65 R 22.5 retreaded to agricultural standards
500/600/800	24	1,360	1/4	1,850	2,000	385/65 R 22.5 retreaded to agricultural standards
500/600	18	950	1/4	1,600	1,880	15.0/55-17 14 PR ET -40
500/600	18	950	1/4	1,600	1,880	15.0/55-17 14 PR ET -40
600	21	1,180	1/4	1,850	1,950	435/50 R 19.5 retreaded to agricultural standards

Platform height (ca. mm)	Number of tipping rams/stages	Stroke (mm)	Track width (mm)	Standard tyres
1,150	1/4	1,600	1,800	15.0/55-17 Imp 10 PR Profil AW
1,150	1/4	1,600	1,800	13.0/65-18 Imp 12 PR Rofil AW
1,200	1/4	1,600	1,800	13.0/65-18 Imp 12 PR Rofil AW
1,300	1/4	1,600	1,800	385/65 R 22.5 l retreaded to agricultural standards
1,300	1/4	1,850	1,950	385/65 R 22.5 retreaded to agricultural standards
1,300	1/4	1,850	2,000	385/65 R 22.5 retreaded to agricultural standards
1,300	1/4	1,850	2,000	385/65 R 22.5 retreaded to agricultural standards
1,300	2/4	1,850	2,000	385/65 R 22.5 retreaded to agricultural standards



Passionate about farming

Lely has a long and deep history of recognizing the needs of modern farmers. Our products are developed with the cow as starting point. We strive to let her excel and as such, we supply products to farmers and contractors ranging from forage harvesting, to feeding, housing, caring, milking and energy sourcing. In addition we boast specific knowledge and experience in facilitating farmers to get the best out of their equipment. As such our in-depth knowledge of the complete farm cycle – from grass to glass – is unrivalled in the agricultural business.

We are committed to a sustainable, profitable and enjoyable future in farming.

Lely really cares for the environment.

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