



Tipping semi-trailers

Innovative and efficient in every detail

| meiller.com

Series 44 tipping semi-trailers

Innovative and efficient in every detail

The MEILLER tipping semi-trailer programme for the 44 series combines innovative solutions with a modern design. The series is designed for daily use in harsh conditions – and, with our models, is now optimised even better to your individual application.

High payloads can be transported fast and safely thanks to the low tare weight of the semi-trailer. Handling and operation are easy and practical – for economic and uncomplicated use. MEILLER tipping semi-trailers are designed for maximum productivity – from the very first day and throughout their entire operating life. MEILLER stands for top product quality and value retention.

Highest quality due to intelligent detailed solutions

MEILLER tipping semi-trailers are outstanding due to their excellent driving and tipping properties: thanks to a low overall centre of gravity and a stiff and torsion-resistant frame structure, the tipping semi-trailer travels safely on the road. MEILLER uses innovative running gears that are dynamically balanced and low-maintenance. Special axles for use on the construction site round off the programme.

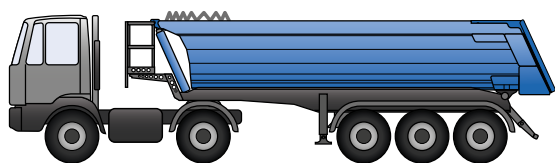
MEILLER steel and aluminium tipper bodies impress with a triple-shell, low wear concept. This means they can be perfectly matched to your individual operating conditions. MEILLER tipper bodies tip fast and safely. The lowering cycle can be further accelerated by a quick lowering mechanism.

The tipping semi-trailer is easy to fill due to its low loading edge. The low dumping edge makes unloading easier.



For economic use in the construction sector: from small to large earthmoving, the transport of bulk material, right up to the removal of heavy demolition rubble.





Everything from a single source!

Perfectly matched components ensure high reliability. With MEILLER, everything comes from a single source – from the chassis frame and the hydraulic system right up to the tipper body. This integration allows us to match the tipping semi-trailer to your application so that optimum efficiency is guaranteed.

MEILLER tipping semi-trailers are rugged and have a long lifetime due to the use of high-strength materials and the latest production processes. The frame construction is stable and well protected against corrosion – for daily use.

The MEILLER tipping semi-trailer series 44 is designed for rugged use and features an even better payload ratio.

We have the solution for transporting your bulk materials such as sand, gravel or excavated material. In addition to bulk materials, rocks and concrete rubble can also be transported effortlessly – both on-road and off-road.

Benefits

- No compromise in stability and intrinsic value
- Greater payload due to lower tare weight
- Extremely rugged and resilient
- Impressive handling on the road and in difficult terrain

TECHNICAL DATA

For	2" and 3.5" king pins
With	2, 3 or 4 axles
Nominal lengths	from 6.6 m to 10.6 m
Rated volume	from 18 m ³ to 53 m ³

The universal MEILLER tipping semi-trailer



Series 44

The ideal tipping semi-trailer for every use

The new MEILLER tipping semi-trailer impresses with its payload-optimised components and solutions. The MEILLER development department reduced the weight while improving stability and wear resistance. During thousands of kilometres driven in road and field tests, we optimised our tipping semi-trailer until it satisfied our high quality demands. The result is a practical tipping semi-trailer that can transport bulk materials more efficiently than ever before.

Economic lightweight

Profit from new efficiency! Save time and money in every transport cycle! Benefit from a higher payload and comfortable driving characteristics with the new and innovative MEILLER solutions thought out down to the last detail.

Transport more bulk material because the intrinsic weight is reduced by up to 320 kg.

The lower overall centre of gravity ensures good road holding. The vehicle is stable when tipping.

A wheeled loader fills the tipper body more easily over the lower loading edge. The lower dumping edge has also made unloading more effortless.

No chance of wear

Solutions that protect the vehicle in daily use:

- Optimised force transmission on the new chassis frame minimises crack formation
- Tailored blanks: reinforced floor plate in the rear third due to the higher abrasive wear
- Optional wear plates for a longer lifetime



Insulated tipping semi-trailer with MHPS half-pipe steel tipping body



The established MEILLER tipping semi-trailer combines a high payload with great robustness. Its rugged design enables universal use with different loads and changing driving surfaces. In addition to sand, gravel and excavated material, the tipping semi-trailer can also easily transport rocks and concrete rubble. The durable chassis brings the payload safely to its destination – even in difficult terrain.



For heavy-duty use: The MEILLER tipping semi-trailer

Wide product range for customer-specific tipping semi-trailers

Your individual requirements are just as special as the range of applications for our tipping semi-trailers is wide. With our coordinated product range, you can design a complete product that makes no compromise and that satisfies all your needs.

MEILLER offers you the tipping semi-trailer

- in different lengths
- with a steel or aluminium tipper body
- in half-pipe or box form
- with individual side wall thicknesses
- with practical tailgates
- with different axles

MEILLER provides tipping semi-trailers that meet your requirements.

Flexible robustness

Use your vehicles flexibly at all times! Respond calmly to spontaneous changes. The tipping semi-trailer is ideal for all applications. It can move almost any bulk material even on difficult terrain, and provides versatile loading options.

Benefit from the low tare weight and the good payload of the tipping semi-trailer at the same time. The vehicle and tipping semi-trailer have comfortable and safe driving characteristics. The driver is supported by the low centre of gravity and innovative running gear.

Long lifetime

At MEILLER a long life is the top priority: even after many years of hard use, your MEILLER tipping semi-trailer retains its value and remains attractive for resale. We support this by improving stability and robustness in every detail.



The MHKA tipping semi-trailer with box in aluminium sandwich construction.

Tipping semi-trailer programme

MHPS44.3-N

Version
M = MEILLER

Tipping direction
to the rear

Tipper body shape
P = half-pipe construction
K = box-type construction

Tipper body material
S = steel
A = aluminium

Series 44



Number of axles
2 axles
3 axles

Version
N = Normal
L = Long



MHPS HALF-PIPE / STEEL TIPPING BODY

VERSIONS

		With tailgate	K Short	N Normal	L Long	
2 axles 	Type		MHPS44.2-K	MHPS44.2-N	MHPS44.2-L	
	Nominal length		6.6 m	7.6 m	8.6 m	
	Rated volume	Outboard: S1/S4	20 – 23 m ³	23 – 28 m ³	26 – 32 m ³	
		Inboard: S2/S5	19 – 22 m ³	22 – 27 m ³	25 – 31 m ³	
3 axles 	Type			MHPS44.3-N	MHPS44.3-L	
	Nominal length		-	7.6 m	8.6 m	
	Rated volume	Outboard: S1/S4/S6*	-	-	23 – 28 m ³	26 – 32 m ³
		Inboard: S2/S5	-	-	22 – 27 m ³	25 – 31 m ³
Side wall heights			1,400 to 1,700 mm			

* The S6 tailgate is subject to some restrictions. For further information, please contact our sales department.





Tipping semi-trailer with
MEILLER heat insulation,
see page 16



MHKA BOX / ALUMINIUM TIPPER BODY

VERSIONS

		With tailgate	K Short	N Normal	L Long
2 axles 	Type			MHKA44.2-N	
	Nominal length		-	7.6 m	-
	Rated volume	Outboard: S1	-	25 – 35 m ³	-
		Inboard: S2	-	24 – 34 m ³	-
3 axles 	Type			MHKA44.3-N	MHKA44.3-L
	Nominal length		-	7.6 m	8.6 m
	Rated volume	Outboard: S1	-	25 – 35 m ³	28 – 40 m ³
		Inboard: S2	-	24 – 34 m ³	27 – 38 m ³
Side wall heights			1,400 to 2,000 mm		

Drive safely – tip safely

Best driving characteristics due to innovative running gear

Drive comfortably and safely: MEILLER running gears are optimally matched to each other: the stiff and torsion-resistant MEILLER chassis frame and axle, bearing, brake, shock absorber and air spring components from renowned manufacturers guarantee the best driving characteristics. A low centre of gravity ensures safe road holding. MEILLER offers a reinforced frame for high trailer and axle loads.



MEILLER tipping technology

Tip and lower safely and quickly: the powerful, original MEILLER hydraulic system ensures a high working speed. The quick lowering mechanism saves up to 40% time when lowering. High overload reserves, high initial lifting force and the low overall centre of gravity make tipping safe. Long guides reduce the tendency of the piston to kink. A tipping alert warning system monitors the inclination of the tipping semi-trailer and warns the driver early.

MEILLER hydraulic system: Powerful. Durable. Efficient.

- MEILLER high-quality and stable hydraulic system
- Dirt-resistant and wear-free due to high-strength materials and nitrided surfaces
- Optimised tipping valves and pumps ensure best cycle times
- Sensitive movement control even under heavy loads due to proportional technology
- Practically maintenance-free due to optimally designed oil circuits
- The MEILLER hydraulic system is completely manufactured in Munich in accordance with the highest quality standards.
- High spare parts availability due to in-house production



Your benefits

- **Weight-optimised frame for very good driving characteristics**
- **Original MEILLER hydraulic system: powerful and durable**
- **Innovative axle technology with low-maintenance bearings**
- **Lifting axle lowers fuel consumption and reduces tyre wear**

Drive safely – brake safely

Manoeuvre less in dense road traffic: the manoeuvring aid improves curve handling, especially on roundabouts and when turning. This also reduces tyre wear.

Choose between drum and disk brakes. Full control through wear sensors for brake linings and the monitoring of tyre pressures.

Drive off quickly with the starting aid

Engage the starting aid at the press of a button to gain extra traction in rough terrain. The starting aid improves the tractor traction.



The MEILLER hydraulic system is specially designed to meet the requirements of the construction industry.

Lifting axle for economic transport

Axle lifting systems reduce tyre wear and fuel consumption on empty runs. When the vehicle is loaded, the lifting axle automatically lowers and provides a higher total axle load with greater driving stability.

Sturdy frame

The stiff and torsion-resistant lead frame of the MEILLER tipping semi-trailer is designed for the widest range of loads. The frame ensures the best tipping and driving characteristics with reduced weight and handles high payloads with ease.

At the same time, the overall centre of gravity is lower. MEILLER's innovative design optimises weight, strength and durability in every detail.



The frame of the tipping semi-trailer – weight-optimised in every detail.

Tipper bodies for everyday use

The right tipping semi-trailer for every application

MEILLER tipper bodies are designed for a long lifetime: they are crack-resistant and low wear for the harshest applications. The bulbous shape protects against abrasive and impact wear. The reduced loading height makes filling easier and lowers the centre of gravity. This improves the driving and tipping characteristics.

Choose the right tipper body for your application:

- Steel or aluminium tipper body
- Tipper body shape half-round (P=Half-pipe) or square (K=box/classic)
- In the Short, Normal, Long or Volume version
- Different wall and floor thicknesses

Customised floor plates

MEILLER floor plates are intelligently adapted to wear: abrasive wear is higher in the rear third. Reinforced plates are used here, thus ensuring an even longer lifetime. The remaining area has a weight-optimised design.

Large-volume superstructures

If you transport light bulk material with a high volume: MEILLER large-volume superstructures hold agricultural products or recycling materials.

Steel tipper bodies

- Robust and payload-optimised
- Particularly suitable for short routes and frequent tipping
- Designed for abrasive bulk materials such as gravel, rocks, concrete rubble and aggregates

Aluminium tipper bodies

- Particularly lightweight
- Ideal for operations with few tipping operations each day and a high road transport component
- Designed for less abrasive bulk materials such as sand, gravel and grit
- Provide chemical resistance to most aggressive bulk material properties

Our extended product range provides you with the right tipping semi-trailer for every application.



Tailgates

The right tipping semi-trailer for every application



Tailgates – practical!

Choose your ideal solution from the different tailgate variants. The switchable tailgates S4 or S5 with jaw or claw lock provide ultimate flexibility. The S6 tailgate variant opens hydraulically – in conjunction with the i.s.a.r.-control radio control unit, very comfortably at the press of a button.

Hinged tailgate swings open from the top

The hinged tailgate is low wear and opens as early as a tipping angle of 3°.

Tailgate opens hydraulically

The hydraulic tailgate opens fully before the tipping operation starts or during tipping and remains open throughout the tipping. The S6 tailgate variant closes hydraulically tight without a lock.

Your benefits

- Payload-optimised components
- Suitable for paver applications
- Sturdy tailgate locks
- The right solution for everyone: optimally designed product range



Secure locking and perfect dosing with the grain slider.

Accessories for tailgates

Extend your application

- Dosing device
- Leak-proof locks
- Grain slider with leak-proof locks
- Rubber seal
- Double joint

Tailgate variants

TOP-HINGED OPENING



HYDRAULICALLY OPENING



ALUMINIUM VOLUME



S6 can be controlled remotely

TAILGATE		OPENS	LOCK		
		Top-hinged	Hydraulically	Optionally both	
Inclined	Outboard	S1	S6 (without lock)	S4	Jaw
	Inboard	S2		S5	Claw
Straight		G12 with ½ and ½ wing door			

Attachment parts and accessories

Extend as you want – the right vehicle for everyone

Optimise your MEILLER tipping semi-trailer for your own special application. The accessories are aimed at making your daily work routine safe and practical. The programme ranges from access steps and storage options right up to camera systems.



MEILLER tarpaulin systems

Cover your transported material: save fuel and protect your load. The electrical version provides comfortable operation with the MEILLER i.s.a.r.-control radio control unit. MEILLER tarpaulin systems are optimally matched to MEILLER tipper bodies. Benefit from an integrated solution from a single source.

- Manual or electrical sliding tarpaulin, with continuous rail (safe from storms), with or without tarpaulin protective roof
- Side roll-up tarpaulin with patented quick-action lock

MEILLER tarpaulin systems are available as sliding or roll-up tarpaulins.



Lamps with LED technology

Benefit from additional road safety and long life with MEILLER lamps equipped with LED technology.

- LED rear lighting with integrated triangular reflectors
- LED working lights
- LED side marker lamps
- Outline and marker lights



Additional road safety and long life with MEILLER lamps equipped with LED technology.

Climb onto the vehicle quickly and safely

- Steel or aluminium access ladder, folding, with ergonomic quick lock (UVV-compliant)



Operate your sequences fast and safely with the practical i.s.a.r.-control radio control unit.

MEILLER i.s.a.r.-control radio control unit

The MEILLER i.s.a.r.-control radio control unit gives you full control: tip from a safe distance and at a location with the best visibility. The preprogrammed sequences of the sequence control make operation even easier.

Make your daily work routine easier with further practical accessories:

- Camera system
- Visual package
- Tipping alert
- Operating platform
- Tool box
- Mudguards
- Hose suspension
- Useful items such as fire extinguishers, brush and shovel holders, wheel chock and bracket, electrical socket
- Towing coupling
- Telescopic support unit
- Etc.



Sturdy fixtures for the mudguards are indispensable for use on the construction site.

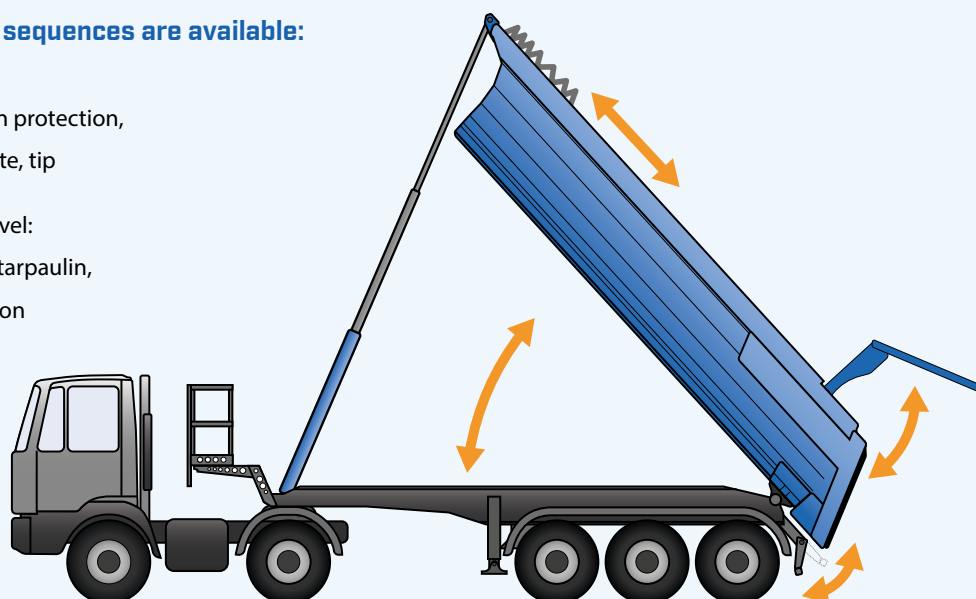
Accessories for the running gear

Extend your application:

- Spare wheels
- Spare wheel holder under the chassis
- Mudguards made from plastic or aluminium with bolted fixtures

Two different programme sequences are available:

1. Tip out: fold up rear underrun protection, retract tarpaulin, open tailgate, tip
2. Lower and make ready to travel: lower, close tailgate, extend tarpaulin, lower rear underrun protection



Driver assistance system

Control and monitor your tipping semi-trailer

Gain extra safety and comfort with the MEILLER assistance system. Whether in the cabin, on the SmartBoard® or from your mobile phone – operate numerous semi-trailer functions from a safe distance. Optimise your economic use by accessing all relevant operating data in real time.



Optimising economic efficiency

Control and monitor your MEILLER tipping semi-trailer with the MEILLER assistance system.

Safety

Receive warnings when the

- Axle load is too high
- Tipper body tipping angle is too steep

Diagnostics

Benefit from rapid assistance by reading out an error log that you can also immediately send by e-mail.

Analysis

Optimise the use of your vehicle fleet by analysing all the relevant operating data.

Displays

Learn about the vehicle status:

- Display the total axle load and single axles in t
- Display the tipping angle of the tipper body
- Display information on the tipping semi-trailer
- Display fault messages

Functions

Very conveniently control a number of functions:

- Lift and lower the lifting axle
- Switch the starting aid on and off
- Lift and lower the running gear with air suspension
- Regulate the driving level
- Adjust the braking pressure of the finisher brake



Options

- Lock and unlock the steering axle
- Display the tyre pressure and temperature, tyre pressure warning
- Receive warning of brake pad wear
- Tyre pressure control system with automatic tyre inflation system in case of pressure drop

The MEILLER assistance system – a practical aid in daily operation.





Fast and easy access

Access the MEILLER assistance system from a safe distance:

- from the SmartBoard®
- from a mobile phone
(Android OS from Version 4.1 Jelly Bean)

You will quickly find your way around the clearly arranged user interface.

SmartBoard®

Control your MEILLER tipping semi-trailer with the side-mounted SmartBoard®. Besides displaying a large amount of operating data, operate the finisher brake, lifting axle and starting aid.



MEILLER SmartBoard®



Heat insulation for road construction

Fully integrated solution with maximum ease of operation

Maintain constantly high temperatures when delivering asphalt to road finishers. MEILLER heat insulation prevents the mixed material from cooling down. Provides full control: the temperature measuring system shows real-time current values – with an app or GPS telematics system as an option.

MEILLER heat insulation – reliably insulates

MEILLER uses sturdy water-repellent insulation material (80 mm) together with double-plated stainless steel panelling. This is fitted to side walls, front panels, floor and tailgates. MEILLER heat insulation breathes: this ensures that condensed water dries off as it builds up. For top

insulation, a MEILLER thermal tarpaulin covers the superstructure – the electrical version is operated by the radio control unit. Mounting the spare wheel holder and access steps on the front wall is possible without restriction.



Fulfills the requirements of the Federal Construction Ministry:
thermally-insulated MEILLER tipping semi-trailer for road construction.

Precision measuring system

Reliable measuring technology monitors the temperature at four measurement points. Choose from the following display and data transmission:

- Preparation of the measuring system
- Preparation of the measuring system with cable and 4 sensors (no display unit)
- Temperature display, incl. serial interface
- Temperature display with mobile Bluetooth printer, including serial interface
- Temperature display via the Thermo app



MEILLER maintains constantly high asphalt mix temperatures during transport.

MEILLER manufacturer certificate according to DIN 70001

You can also count on compliance with legal regulations for improving the asphalt paving quality. MEILLER carries out the verification calculation in cooperation with the Research Institute for Heat Protection (FIW).



Measurements are made every minute: a transport log monitors the quality of every load.

Simple maintenance

Simply replace the insulation panel by panel if there is any damage. This lowers repair costs and is quick to carry out. The sensor system is easy to reach via a dedicated access.



Your benefits

- Safe heat insulation of your transported material – no thermal bridges
- No damage from bulk material thanks to the sturdy, temperature-insensitive version
- Temperature measuring system with high functional range

The MEILLER company

Innovation from tradition for more than 160 years

First-class quality and reliability characterise our products as well as creating the basis for the high satisfaction of our customers. We systematically optimise the product development process chain to constantly increase our quality standards.

Company

MEILLER is a synonym for innovative products and system solutions for the construction and waste management sectors. Our claim: to realise market-oriented innovations through the best technical solutions – with motivated employees, cutting-edge production processes and the contribution made by our suppliers.



Every MEILLER employee is proud of the high quality of all MEILLER products.

Product quality

MEILLER attaches particular importance to exemplary product quality and excellent value retention. That is why all components are designed for harsh operating conditions and a long lifetime. They are characterised by good processing, reliability and low wear.



Fast service

Benefit from the expertise and competence of our experienced team. Our mobile after-sales service as well as our worldwide customer service points respond to you immediately whenever you require service.

Be assured, you're in good hands.

Spare parts

Minimise down times through high availability and reliable delivery of spare parts. Our sophisticated logistics will supply original parts quickly to wherever they are needed.

Place your trust in the familiar quality of original MEILLER spare parts matched optimally to your MEILLER product.



Urgently required original MEILLER spare parts come quickly to wherever they are needed.



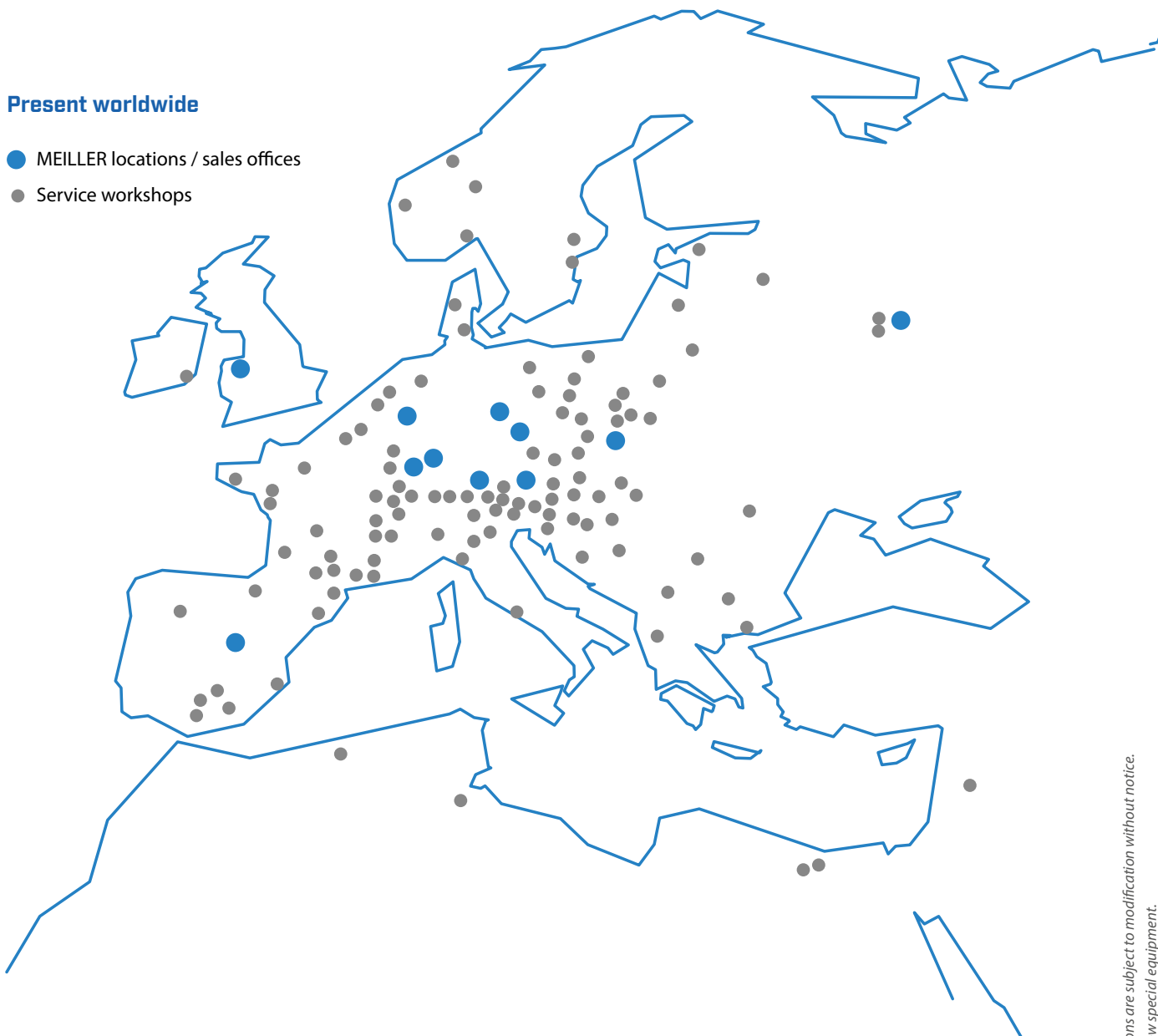
To this day, many technical milestones and innovations from MEILLER continue to shape the sectors of construction, waste management and the commercial vehicle industry all over the world.

MEILLER in your area

Full service from a single source

Present worldwide

- MEILLER locations / sales offices
- Service workshops



There's a MEILLER location near you.
Find the service workshops closest to
you by searching online at

meiller.com/en/service

1702_En-791-0321
Technical specifications are subject to modification without notice.
Illustrations may show special equipment.

F.X. MEILLER

Fahrzeug- und Maschinenfabrik - GmbH & Co KG · Ambossstraße 4 · 80997 Munich, Germany
Telefon: +49 89 1487 - 0 · Telefax: +49 89 1487-1355 / 1595 · info@meiller.com · www.meiller.com