

Low-loader Vehicles





Pan-European competency.

For 150 years, Schwarz Müller has been making commercial vehicles for specific demands. Our customers benefit from this experience by the value added to their purchases.

Schwarz Müller Group is a family-owned enterprise based in Austria yet active internationally. Considered one of today's leading European commercial vehicle suppliers the Group centres its currently 21 sites in Central and Eastern Europe.

Schwarz Müller provides not only a broad range of vehicles but also optimised solutions for almost any industry. More than once, the premium manufacturer and innovation leader has set the pace regarding payload and handling and is thus decidedly adding value to everyday applications.

Another factor that has been speaking in Schwarz Müller's favour for decades is the Group's extensive service offering covering the entire product lifecycle: Significantly extends for vehicle's useful life. Services include everything from maintenance and OEM spare parts availability to rentals and leasing.

Schwarz Müller Group produces at four sites: Special-purpose vehicles are made at its Upper Austrian headquarters. Standard and near-stand-

ard vehicles are made in the Czech Republic and Hungary, whereas skip container vehicles are made in Neustadt/Dosse. Our annual production output amounts to about 11,000 vehicles. Over 350 service centres located along the major European transport routes ensure that your vehicles will remain available for everyday use.

Since 1871, Schwarz Müller has been working to win and retain industrial innovation and technology leadership based on the competency and know-how of its employees. Lightweight design and its benchmarks set by Schwarz Müller for over 25 years is but one example.

Other areas include construction, metal structures or welding where Schwarz Müller periodically kicks off new developments or often is the first supplier using new vehicle manufacturing technologies. This is how turn innovation into mass production. Thus, if you are looking for smart vehicle solutions, special requirements or top quality, try Schwarz Müller to find an ideal partner.

Smart visionary vehicles.

A Schwarz Müller vehicle must successfully face various challenges. This is why construction makes the first difference.

Compared to towing vehicles, the role of commercial trailers will further gain in importance because, owing to current traffic densities as well as infrastructural and legal constraints, the number of towing vehicles will grow but slowly. The performance of both trailers and bodies therefore needs to increase. Schwarz Müller is driving this development with smart designs: Bodies and trailers provide many improvement options from payloads, longer useful lives and simplified handling to cost reductions.

A competent and innovative team of over 2,150 development, design and manufacturing personnel share Schwarz Müller's vision and turn it into smart vehicle. Latest innovations such as the POWER LINE semitrailer, the first walking floor weighing less than seven tons or the thermo-tipper trailer for transporting temperature-controlled asphalt are impressive examples of this spirit of innovation.

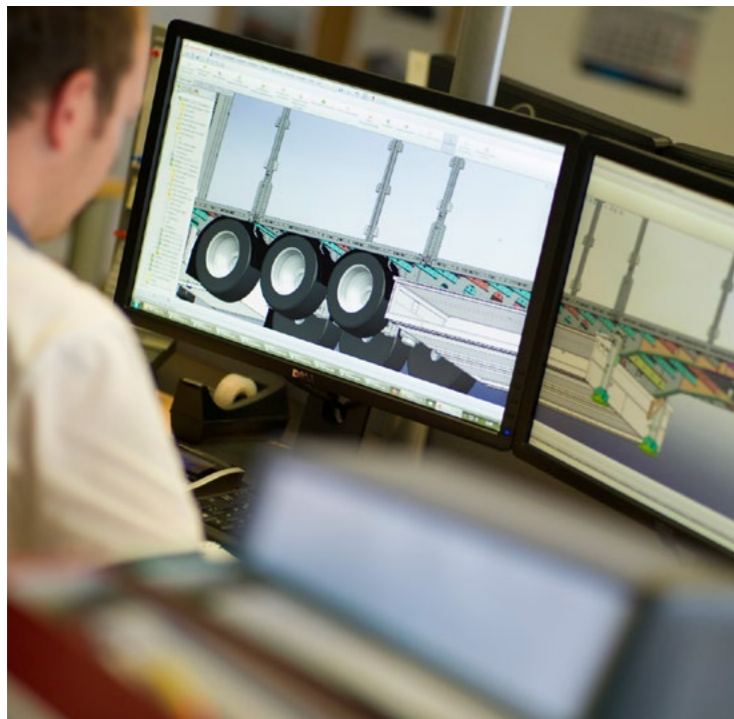
And quality is not an accidental feature of Schwarz Müller either: 3D design down to the

smallest detail and highly efficient quality assurance methods ensure that the vehicles are powerful performers in everyday practice.

A typical characteristic of Schwarz Müller is the specialised handling of steel and aluminium in production. It is one of fundamentals of the premium quality that Schwarz Müller vehicles are distinguished by.

The vehicles of the two Schwarz Müller and Hüf-fermann brands roll out to the construction sec-

tor, infrastructure companies, raw materials and reusables industries and short-distance & long haul forwarders. The enterprise is the only full-range supplier at premium level to make eight groups including a total of 150 different types of vehicles. Our more than 1,000 model variants satisfy almost any specific wish a customer may have. All of these vehicles share top-level quality, sturdiness, toughness and an optimised payload.



Intelligent Solutions for Maximum Flexibility.

Flat-bed vehicles from Schwarzmüller are all-rounders. They can transport construction machinery with a weight of up to 60 tonnes – but also timber, containers and other bulky goods. Each flat-bed vehicle is characterised by optimum transformability which allows it to adapt to a wide range of requirements.

Schwarzmüller flat-bed vehicles are designed with the robustness, durability and optimum flexibility that you would expect from premium products: they have more to offer and last longer. The unique pallets for approx. 30 different vehicle groups,

with axles ranging from two to five, various platforms, components from different manufacturers and diverse range of extra equipment serve only one purpose: overcoming any challenge in the transportation of construction machinery or building materials!



A flat-bed vehicle that can Hold Absolutely Anything.

Schwarz Müller offers drawbar, central-axle and semitrailer vehicles in two to five-axle configuration and with various different steering axles. The platforms are available in straight, offset or even removable designs. Equipping these with stanchions for timber transportation or with twistlocks for containers expands the range of usage possibilities even more. Hydraulically lowerable platforms make it possible to achieve added loading height where required.

The Schwarz Müller intelligent concept includes an extensive range of configuration details and equip-

ment options to further optimise use by sector and cargo. The rear loading ramp is for instance also available in a two-part configuration and is height-adjustable as standard. There is also the option of vertical and horizontal hydraulic ramp actuation. An accessory compartment and optional toolboxes ensure sufficient stowage space. Pull-out warning signs and warning beacons complete the legally stipulated configuration for special transportations. It is not just the loading process that offers added value; greater stability, easier handling and increased safety for the driver are also key factors.

Drawbar trailer



Semitrailer



Central-axle trailer

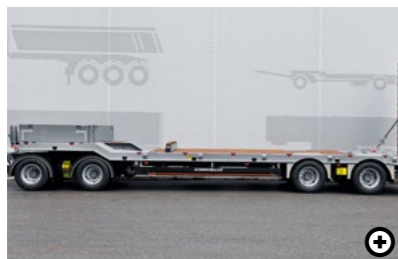


	Flat-bed semitrailer			Central-axle stanchion trailer		Drawbar flat-bed trailer			
	2-axle	3-axle	4-axle	2-axle	3-axle	2-axle	3-axle	4-axle	5-axle
Technical axle loads	9 t / 10 t	9 t / 10 t	9 t / 10 t	10 t	10 t	10 t	10 t	10 t	10 t
Imposed load	18 t	12 t / 18 t	12 t / 18 t						
Technical total weight	36 t / 38 t	39 t / 48 t	48 t / 58 t	21 t	31 t	20 t	30 t	40 t	50 t
Tare weight	from 7 t	from 8 t	from 9.5 t	from 4.4 t	from 6.2 t	from 4.2 t	from 5.7 t	from 7.8 t	from 9.9 t
Possible technical payload	up to 31 t	up to 40 t	up to 48.5 t	up to 16.6 t	up to 24.8 t	up to 15.8 t	up to 24.3 t	up to 32.2 t	up to 40.1 t

Standard Configuration.

14 quality features characterise standard-configuration Schwarzmüller flat-bed vehicles. These are in line with the current standards in technological developments and reflect Schwarzmüller's decades of experience with this vehicle model. Each individual detail has been implemented to further enhance the functionality of the vehicle.

The numbering of the images refers to the vehicle chart on page 15 and indicates the position of the configuration detail. Please turn to page 11.



1 **Offset platform**
This ensures a very low loading height in the low bed, thus enabling the transportation of higher vehicles.



2 **Foldable single-piece drive-up ramp**
The foldable single-piece drive-up ramp folds downwards to allow driving onto the loading surface.



3 **Laterally-sliding ramps**
Both ramps can be slid sideways manually, meaning that vehicles with different track widths can be loaded without issue.



4 **Folding supports on the ramps**
The folding supports extend automatically when the ramp opens. These prevent the trailer from shooting up at the front during the loading process.



5 **Pull-out extensions**
The load carriers can be extended up to a width of three metres, enabling the transportation of wider vehicles.



6 **Storage compartment for widening boards**
The wooden planks for extending the loading surface are located in a storage compartment underneath the loading surface.



7 **Pull-out warning signs**
These serve as a means of (variably) indicating vehicle width in order to guarantee the safe transportation of excess-width vehicles.



8 **Warning beacon with bracket**
The warning beacon serves as a warning for other road users, e.g. in the case of special transportation.

LEGEND

- ⊖ Efficiency
- ⊙ Stability
- ⚠ Driver safety
- ✓ Load safety
- ⊕ Added value



9 **Pockets for formed pipework**
The pockets in the outer frame can house formed pipework.



10 **Larch wood floor**
The loading surface is fitted with larch wood flooring. Hardwood flooring is also available.



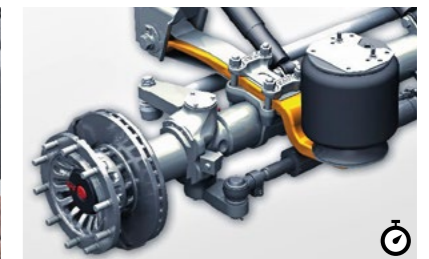
11 **10 t lashing rings**
Fold-out lashing rings are intended for securing the goods for transportation.



12 **3 t lashing mushrooms**
The lashing mushrooms are intended, like the lashing rings, as a means of securing loads.



13 **Storage compartment for accessories**
The storage compartment at the front of the platform can be used to carry accessories and tools.



14 **Steering axle**
For increased trailer manoeuvrability, also reduces tyre wear. Available as a friction-steered trailing axle or a hydraulically-driven steering axle.

Optional Equipment.

More than 25 options make up the current equipment list for Schwarzmüller flat-bed vehicles. These are intelligent solutions for optimising the specific performances of vehicles. Schwarzmüller also manufactures flat-bed vehicles based on custom specification and advises its customers as to how to achieve the optimum configuration for the respective usage environment.

LEGEND

- ⊖ Efficiency
- ⊕ Stability
- ⚠ Driver safety
- ⊖ Load safety
- ⊕ Added value



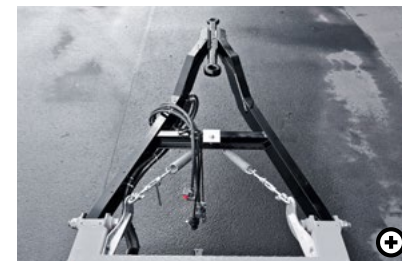
A Straight platform
The straight platform version features a horizontal loading surface.



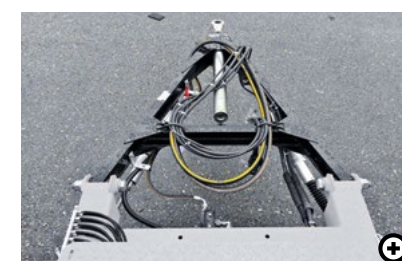
B Foldable two-piece drive-up ramp
This is tipped downwards to allow driving onto the loading surface. The low angle of approach enables smooth loading of vehicles with reduced floor clearance.



C1 Offset drawbar
The offset drawbar serves as a means of levelling the coupling height of the truck and the trailer.



C2 Drawbar with pivoting drawbar eye
The special drawbar can be equipped with a pivotable 40- and 50 mm-eye in order to facilitate the use of various different lorry couplings.



C3 Adjustable drawbar
This special drawbar is height-adjustable. This means trucks with varying superstructures can be used.



D Hydraulic sliding ramps
Both ramps can be slid sideways hydraulically.



E Hydraulic support feet at the end of the vehicle
Hydraulic support feet at the end of the vehicle provide added stability while loading. These prevent the trailer from shooting up at the front.



F Excavator trough
The excavator trough is a recess in the ramp slope for accommodating an excavator arm.



G Tailgates
Tailgates serve as an added load-securing feature in the transportation of equipment.



H Insertable retaining rails
Insertable retaining rails are a feature for securing cargo.



I Insertable transverse supports
Insertable transverse supports assist in height compensation where offset loading surfaces are involved.



J Formed pipework
Optional formed pipework can be accommodated in the designated pockets.



K Wheel recesses with covers
Enable the transportation of high construction vehicles without exceeding the legal total vehicle height. Can be realigned using covers.



L Extendible twistlock container locks
Twistlocks are recessed into the loading surface and guarantee the secure transportation of containers.



M Cylinder stem
Prevents a loaded cylinder from slipping forwards.



N Stainless-steel box for ramp control
This control unit serves to raise and lower the drive-up ramp. Optionally available for the sideways sliding of the ramp too.



O Electrohydraulic pump assembly
To avoid external hydraulic supply where the truck unit is not equipped with hydraulics.



P Air suspension
Air bellows are used for the trailer suspension.



Q Parabolic suspension
A leaf spring is used for the trailer suspension.



R Hard rubber covering
A hard rubber covering is attached to the loading surface too, further increasing load security.



S Work lights
The work lights provide extra lighting during the loading and unloading process.



T Spare wheel holder
This is an easy way to transport a replacement wheel en-route.



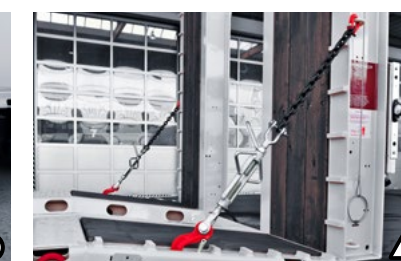
U Low-maintenance ball steering turntable
The low-maintenance ball steering turntable reduces turntable lubrication frequency.



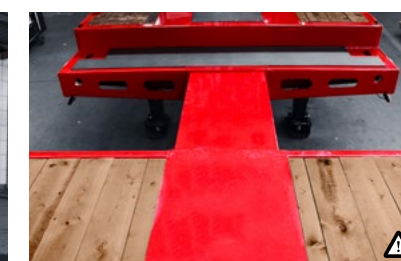
V Central lubrication strip
From here the lubricating points of the ball-cage assembly and the axles can be reached, thus simplifying the lubrication process and saving time.



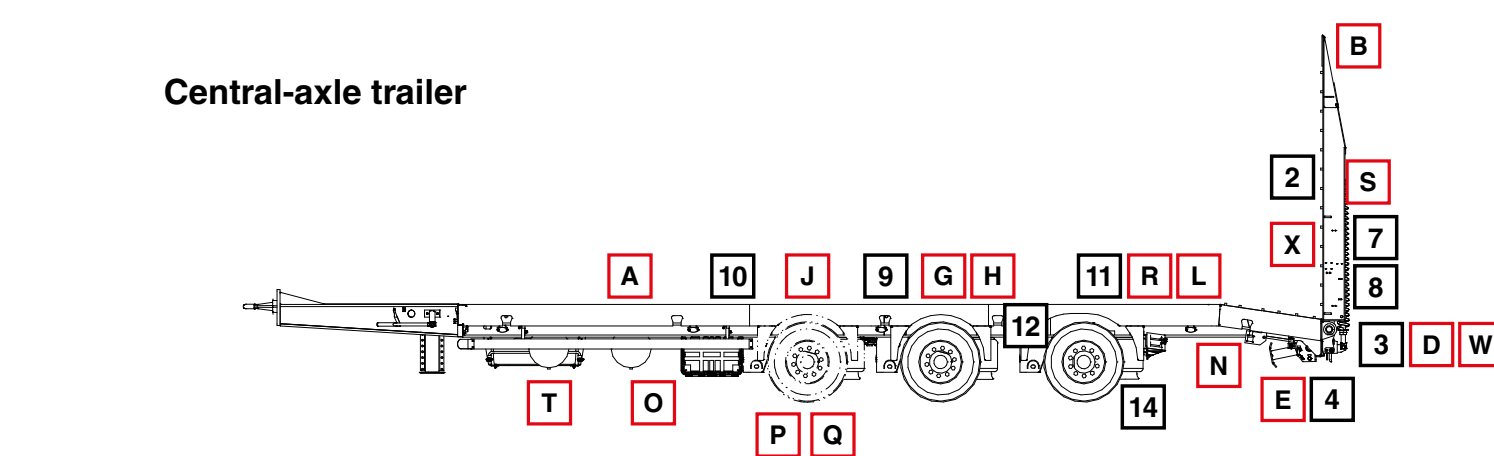
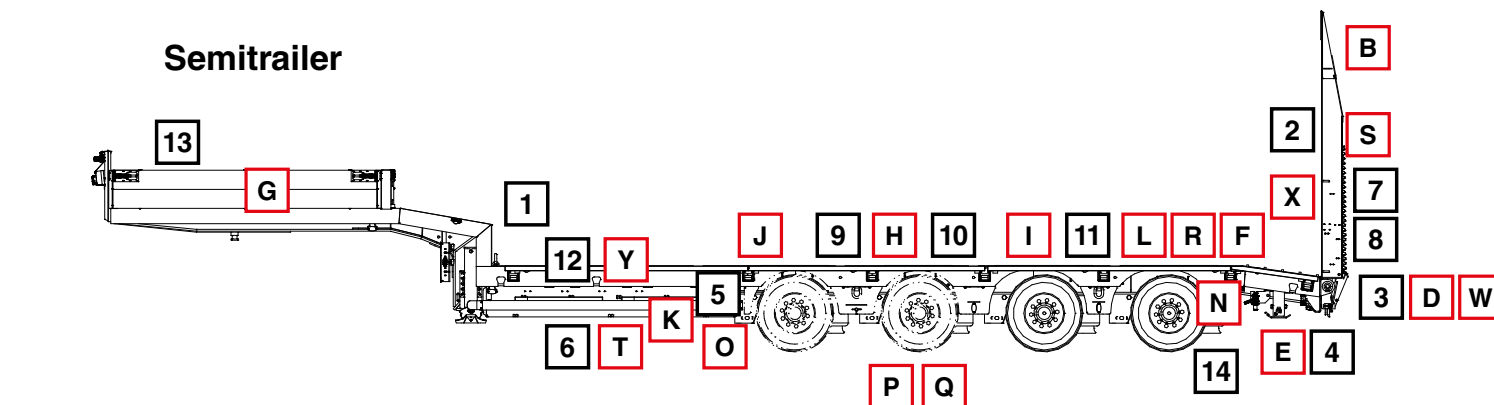
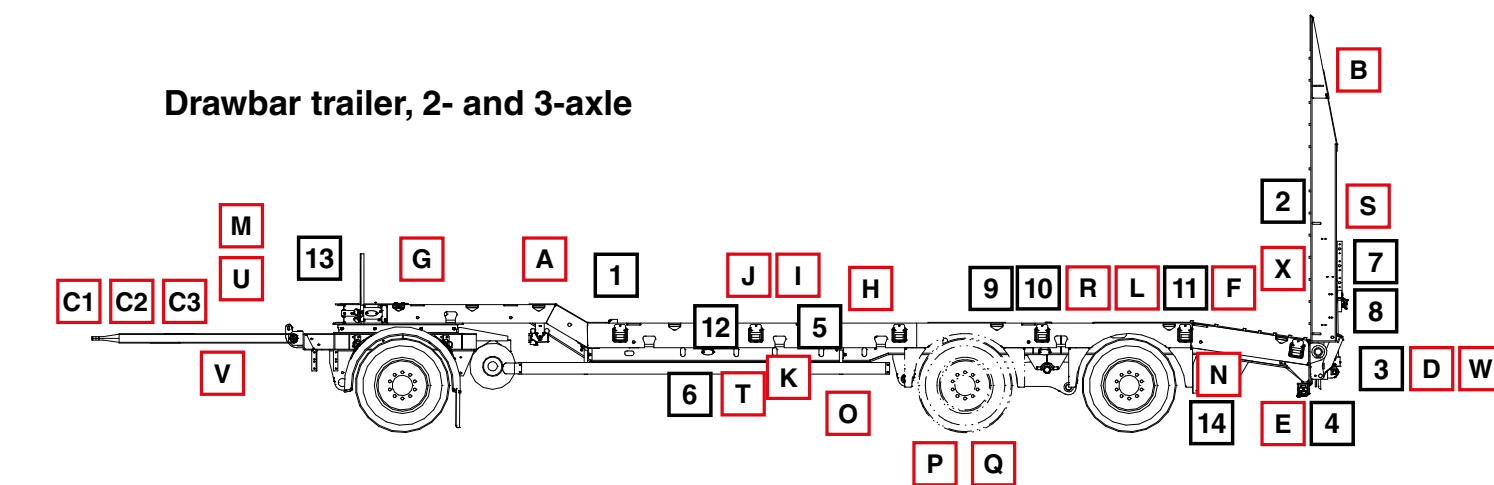
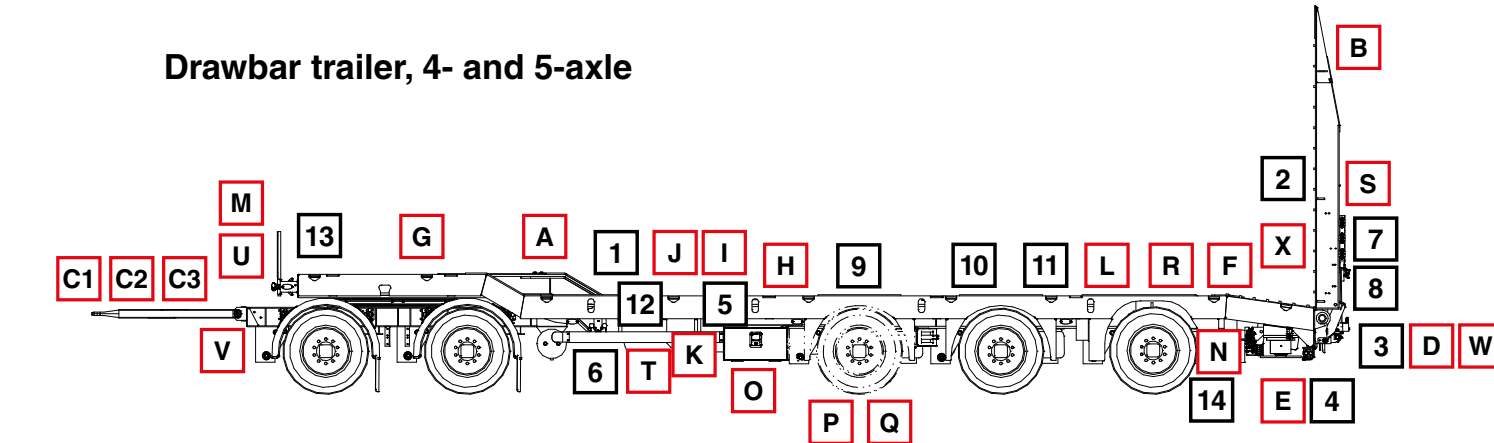
W Hook-in drive-up ramps
Drive-up ramps sit loose in the vehicle and can be hooked in if need be.



X Retaining chains for ramps
The ramp retaining chains act as means of fixation for drive-up ramps.



Y Extendible central frame
For extending the loading surface to facilitate the transportation of long, bulky parts.



Best-in-class customer service.

Single source for solutions matching any Schwarz Müller vehicle requirement.

Schwarz Müller benefits its customers not only with an extensive product portfolio but also with a complete system services offering. Customers can rely on pinpoint solutions throughout their vehicles' entire lifecycle - in currently 21 countries.

Our own network of garages plus 350 further service partners ensure that your Schwarz Müller will always be and remain a Schwarz Müller. Our experts know exactly how to best maintain and service a Schwarz Müller vehicle. An international logistics

network allows permanently available OEM spares to be supplied rapidly.

Schwarz Müller runs one of Europe's largest fleet of hired standard and special-purpose vehicles. It helps you buffer peak demands without having to do without premium quality. Also ask for Schwarz Müller's tailored leasing opportunities. Schwarz Müller's own Financial Service or an external partner's service with or without a service agreement: It is always up to the customer to opt for the perfect answer to their needs.

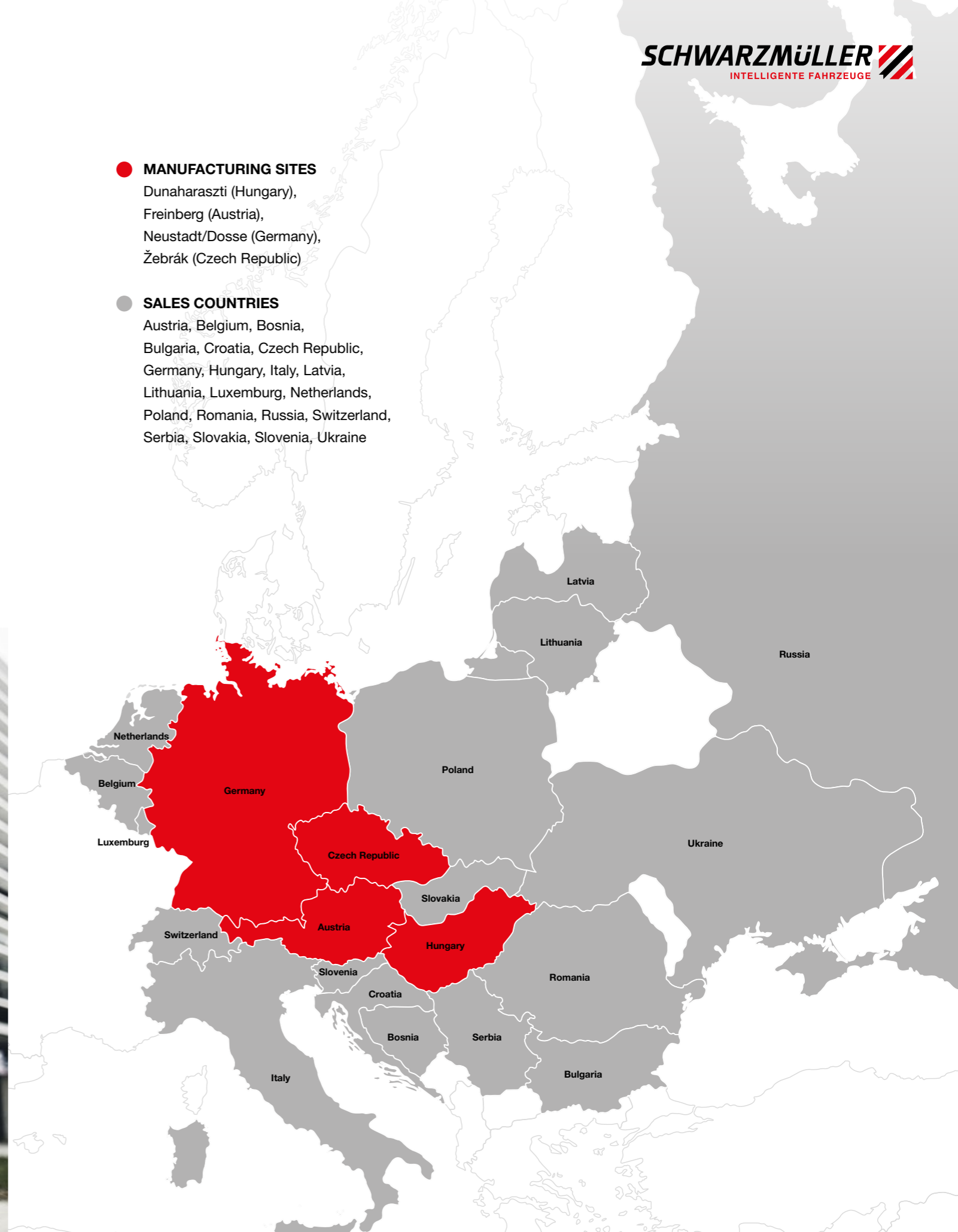


Close to our customers in 21 countries.

Schwarz Müller Group and our sales partners currently run own sites (production, sales and service) in 21 Central and Eastern European countries. This international network and its about 2,150 employees are the basis of suc-

cessful relations with customers of many industries requiring challenging transport solutions. It allows Schwarz Müller to penetrate the entire market region with new vehicles and a portfolio of services throughout the entire lifecycle of its products.

- **MANUFACTURING SITES**
Dunaharaszti (Hungary),
Freinberg (Austria),
Neustadt/Dosse (Germany),
Žebrák (Czech Republic)
- **SALES COUNTRIES**
Austria, Belgium, Bosnia,
Bulgaria, Croatia, Czech Republic,
Germany, Hungary, Italy, Latvia,
Lithuania, Luxemburg, Netherlands,
Poland, Romania, Russia, Switzerland,
Serbia, Slovakia, Slovenia, Ukraine



Intelligent full-range portfolio.

Schwarz Müller vehicles satisfy almost any transport need. From aluminium tank semi-trailer to centre-axle tipper trailers.

Schwarz Müller is proud of being able to supply its customers with smart vehicle for practically every application. Our eight product groups cover over 150 types of vehicles with more than one thousand model variants. All types of vehicles benefit from the know-how, core com-

petence and innovative power of the entire Group. They provide the perfect answer to the transport needs of the industries served. All Schwarz Müller vehicles stand for uncompromising premium quality to create real added value in everyday use.



Timber/stanchion vehicles

Timber



Tipper vehicles

Construction industry, agriculture, waste management



Body building vehicles

Construction industry, shipping/long haul transport, waste management



Platform vehicles

Shipping/long haul transport, construction industry



Walking-floor vehicles

Shipping/long haul transport, timber, waste management



Tank vehicles

Mineral oil



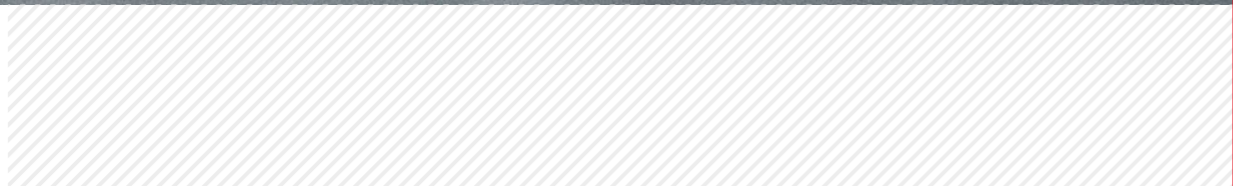
Low-loader vehicles

Construction industry



Container transport vehicles

Waste management



Schwarz Müller Group

Hanzing 11 · 4785 Freinberg · Austria

Tel.: +43 7713 800-0

office@schwarzmueller.com

www.schwarzmueller.com

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Art.-Nr. 119951EN