

POWER|LINE[®] Platform Vehicles





Pan-European competency.

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

Schwarzmüller 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.

Schwarzmüller 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 Schwarzmüller'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.

Schwarzmüller 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, Schwarzmüller 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 Schwarzmüller for over 25 years is but one example.

Other areas include construction, metal structures or welding where Schwarzmüller 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 Schwarzmüller 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.

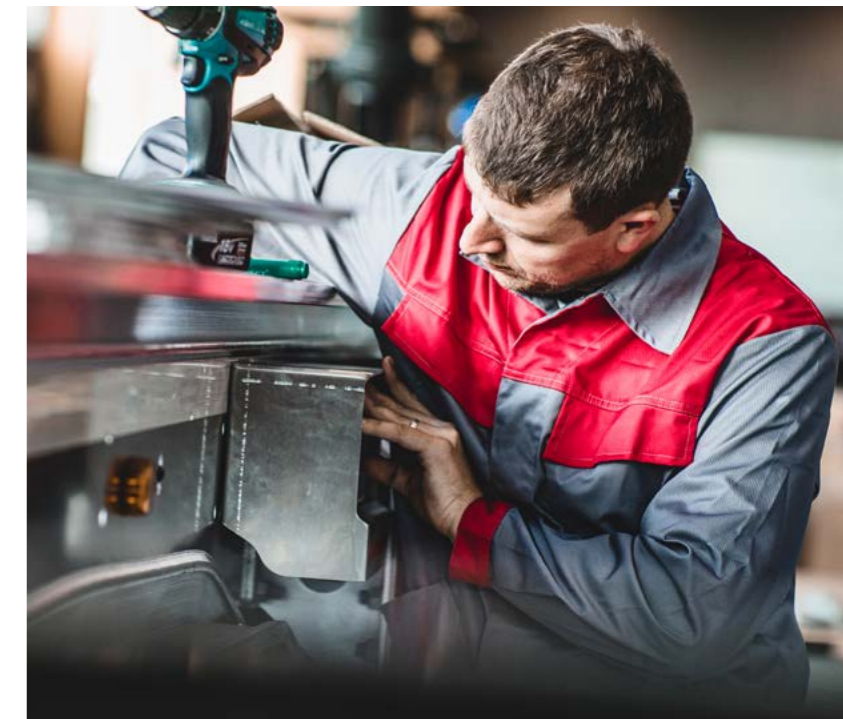
And quality is not an accidental feature of Schwarz Müller either: 3D design down to the

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 sector,

infrastructure companies, raw materials and re-usables 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.



Our promise: Less weight. More power.

POWER LINE sets a new standard for current and future long haul transport. Less tare weight, higher cargo bay, optimised frame geometry and an entirely revised platform. Four different types of vehicles and more than 20 variants will accommodate every customer's needs and requirements.

Schwarz Müller's vision is to turn this new range of vehicles into a perfect combination of lightweight design and maximum performance. Because this is how every use yields top productivity. POWER LINE is therefore jam packed with powerful innovations. Standard frame necks are now just 125 mm high to result in a more spacious cargo bay. The

stacker axle load has been increased by 1740 kg to make loading a lot faster. And POWER LINE will of course have a lightweight design to save fuel and avoid CO2 emissions.



Weighs less ...

Example: dead weight

POWER LINE Cargo	Standard vehicle
4,850 kg or more	5,650 kg or more

Performs better ...

Example: stacker axle load

POWER LINE Cargo	Customary lightweight vehicle
7,200 kg (+ 1,740 kg)	5,640 kg

Innovations everywhere.

- **Frame:** Frame support of high-strength S700 MC, chassis of increased rigidity, more lashing holes in outer frame, connector box in outer frame (optional);
- **Platform:** Improved sandwiched lightweight front wall, underride protection and rear stowage;
- **Handling:** New rear door latch, lifting straps on tarpaulin rods;
- **Maintenance:** Standardised types of support jacks, bed plates of identical length, conforming mudguards and matching brackets on all axles;

POWER|LINE is diversity

POWER LINE is not just a new vehicle, it is a whole range of four different vehicle types based on a modular system to meet the requirements of diverse industries:

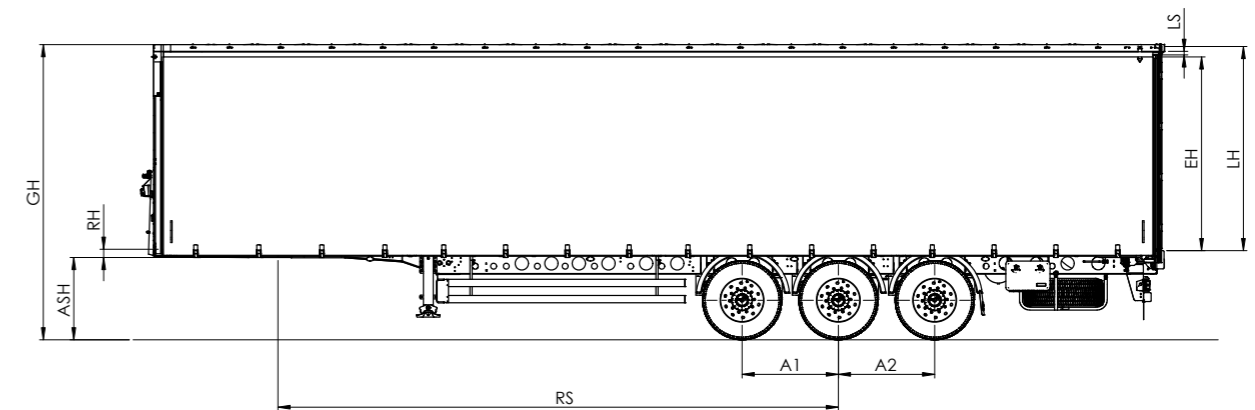
- **POWER LINE Cargo** for general use in long haul traffic;
- **POWER LINE Paper** with specially engineered details for transporting paper rolls;
- **POWER LINE Coil** with special troughs for transporting steel sheet in coils;
- **POWER LINE Mega** with a higher and even more spacious cargo bay;

The difference is what counts!

POWER LINE not only comprises four types but more than 20 variants. They can be distinguished not only by their different configuration extras adapted to the primary goods they transport but also by the many optional extensions to the range of attachments. Schwarzmüller even puts diversity over the price list in that POWER LINE vehicles can

be tailored to personal specifications without violating any industrial standard.

Productivity in transport today demands a lot more than standard solutions. POWER LINE sets an entirely new standard for all users wishing to get the most out of their fleet.



Information:

Fitments	Data
Unladen fifth wheel height (ASH)	920-1170 mm
Front frame neck (RH)	125 (standard series) / 80 (Mega)
Wheelbase (RS)	7620 mm
Axle base from 1st to 2nd Axle (A1)	1310 mm
Axle base from 2nd to 3rd Axle (A2)	1310 mm (optional: 1410 mm)
Lateral stacking height (EH)	2515-2.810 mm
Internal cargo bay height (LH)	2660-2955 mm
Roof height (DH)	45 mm
Guide rail height (LS)	145 mm
Total height (GH)	4.000 mm



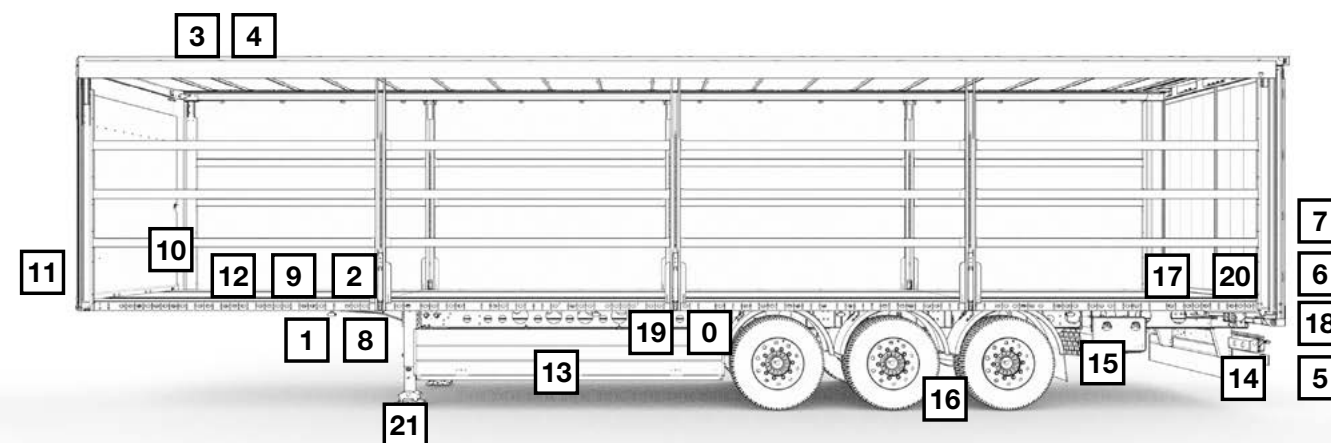


Standard configuration elements.

Even in its standard configuration, POWER LINE's range of more than 20 different fitment details sets the benchmark of safety and ease of handling by the driver. In many details, Schwarzmüller shows that the proof of optimised vehicle component use is in the smart advancements.

KEY

- ⊕ Efficiency
- ⊙ Stability
- ⚠ Safety
- ⊕ Added value
- ⊙ Load securing



0 **Lightweight frame**
Finite element method calculations and road tests confirm its stability.



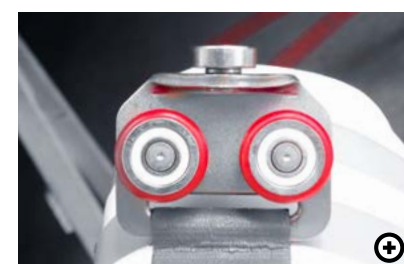
1 **Tarpaulin hooking rack**
Vertically attaches the side tarpaulin to the outer frame. Ensures a perfect connection without the tensioners standing askant.



2 **Over-centre tarpaulin tensioners**
The special-purpose tensioners attach the tarpaulin to the outer frame while supporting the tie-down of the cargo.



3 **Versus cover**
Equipped with special omega profiles to prevent damage and to compensate for elongations along the top.



4 **Trike Roller**
For suspending the side tarpaulin. One horizontal and two vertical guide rollers make handling the tarpaulin easier.



5 **Extendible ladder**
From climbing into the cargo bay. The top step has a small platform to ensure a safe tread.



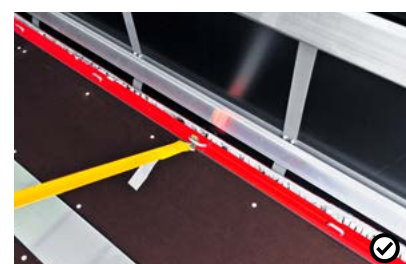
6 **One-hand door latch**
One hand is enough to operate the rear door latches.



7 **Welded rear door profiles**
The aluminium profiles of the rear doors are installed vertically and welded up to one another. This prevents the profiles from slipping or becoming loose in the course of time.



8 **Perforated external frame**
The perforated external frame not only allows for the lashing points but also for hooks for securing the cargo at any point.



9 **Lashing points on outer frame**
Located along the top edge of the loading platform to provide a convenient and easy means of securing the load.



10 **V-type slot-in slats with fillets**
The lateral slot-in slats feature a V-shaped recess (bottom) or extension (top) for ease of building the side panel.



11 **Front wall**
The front wall saves an extra 60 kg of weight and its tremendous robustness requires no separate protection of the inner front wall side.



12 **Force-controlled resin-coated floor**
28 mm thick to support stacker axle loads up to 7,200 kg. Paper models have a double floor (28 mm + 12 mm, stacker axle load: up to 8,000 kg).



13 **Side impact protection**
Statutory cyclist protection to prevent persons from falling down in front of the wheels.



14 **Underride protection**
Prevents other vehicles from underiding the rear trailer end in conformity with new EU regulations coming into force in 2021 (higher test loads).



15 **Toolbox 600 mm wide**
Compartment for safely storing rigging material such as tension belts, non-slip mats or corner protectors.



16 **Single wheel mudguards**
Reduce water spray caused by wheels rolling on wet roads and protect the underside of the floor.



17 **Rear door holding fixtures**
Hold back the opened rear doors to prevent them from closing inadvertently.



18 **Fenders**
These rubber fenders protect the vehicle body against damage when backing up to loading ramps.



19 **Sliding posts**
Quickly and easily move the central post to one side to open up the entire loading width.



20 **Ratchet tensioner**
For quickly tensioning the side tarpaulins. Mounted on the left and right rear ends.

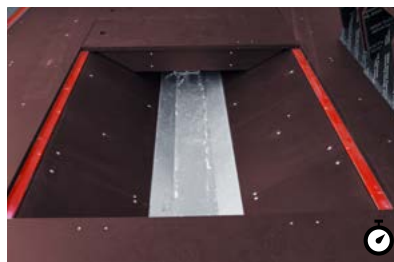


21 **Thrust-compensated jacks**
Thrust compensation prevents the jacks at the rear from bending when lowering the parked semitrailer.



A Quick slider

System for opening or closing the side tarpaulin within 5 seconds.



B1 Coil trough

This trough set into the floor safely holds the steel coils in transit.



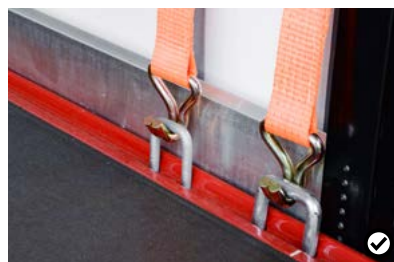
B2 Coil trough cover panels

Used to cover the coil trough in general cargo use.



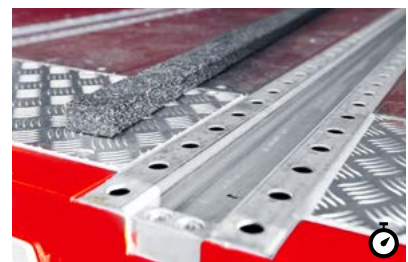
B3 Upright frames of profiled steel tube for coil trough

These frames secure the coil in forward direction. They can be placed at various points to keep the coils at the centre of gravity at all times.



B4 Lashing points on coil trough

Apart from the standard 2.5 t lashing points, there are also some extra 4 t points for securing the coil.



C1 Joloda rails

Facilitate the loading and unloading of paper rolls by means of Joloda rollers.



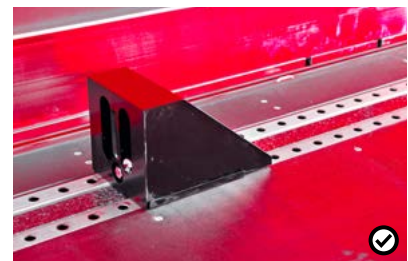
C2 Inserts for Joloda rails

In general cargo use, the rails are covered or filled with plastic profile inserts.



C3 Wedge box (paper)

The wedges for securing paper rolls in transit are kept in a box in the front wall. Drivers have access to the box directly from the loading platform.



C4 Load-securing wedges and Joloda rollers

Wedges with a spindle mechanism ensure that paper rolls are safely stored in transit. Use Joloda rollers for easily loading or unloading paper rolls.



D Steering axle

Reduces tyre wear and improves trailer manoeuvrability.



E Retractable axles

Reduces tyre wear. Can be used to briefly increase semitrailer tractor traction.



F LED lights

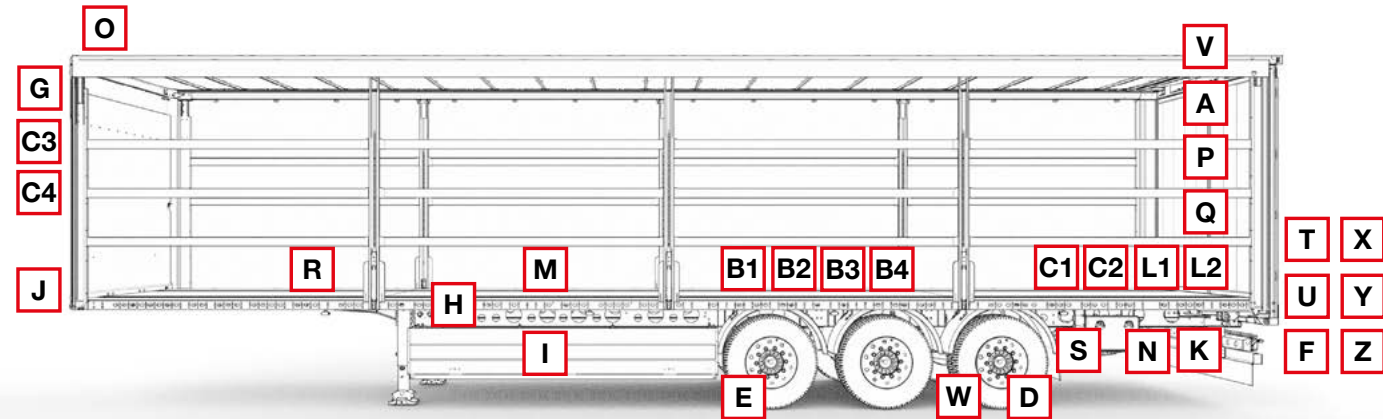
Fully equipped with LED lights. A lamp ballast is installed for automatic fault detection.

Optional configuration extras.

Schwarz Müller's more than 30 optional configuration extras make up a broad range of variants. They make the vehicle even lighter, improve loading and unloading processes and provide better load security. They presumably turn Schwarz Müller's POWER LINE into the most efficient and first in class commercial trailer.

KEY

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- ⚠ Safety
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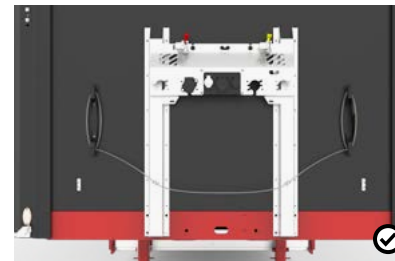
G Elevating roof
Briefly elevating the roof provides access to the entire internal height while loading or unloading.



H Slat retainer
The retainer provides a safe and convenient storeroom for unneeded side slats.



I Pallet box
Mounts underneath the chassis frame. Is the perfect bay for transporting empty pallets or can be used as a spacious toolbox.



J Customs rope
Used to safely transport the cargo. Prevents access to the cargo from the outside and is sealed with leads in transit.



K Blocker tie rings
Semitrailer securing elements required when using a ferry.



L1 Set in rails for blocking poles
Mounting rails set into the floor and roof are used to install the upright blocking poles. The poles secure the cargo at the rear end.



L2 Steel slot-in slats with attachable blocking slats
Instead of V-type slats, steel slot-in slats with a special hole pattern are installed for securing the cargo at the rear end.



M Side panels
Semitrailers can be equipped with side panels.



N Spare wheel bracket
Safe and convenient means of transporting a spare wheel.



O Cover sliding to either side
This optional feature lets you also slide back the cover. (Series-produced trailers: cover only slides forward)



P Cut-proof tarpaulin
The side tarpaulin includes a special steel mesh that prevents cutting into the tarpaulin from the outside.



Q Folding tarpauling for excess width
Tarpauling with integrated extra material lengths. If not in use, the excess tarpaulin material attaches to the inside by means of a Velcro strip.



R Direct tensioners
Available to replace the standard over-centre tensioners. They produce a perfect connection to the outer frame and open and close faster.



S Toolbox 800 or 1000 mm wide
Optional larger toolboxes provide more storage space.



T Portal frame with crank
Crank out the rear corner posts to generate more loading width at the rear end.



U Mount for on-board forklift
This special-purpose mount at the rear end of the trailer is dedicated to carrying along an on-board forklift.



V Inflatable Air-Pipe restraints
Inflatable roof-mounted restraints create an inclination down which rain water can run off before freezing and building up ice that may put other road users at risk.



W Aluminium rims
The lightweight rims reduce the vehicle's tare weight by another 120 kg.



X Rubber delta
May serve as fender when backing up to loading ramps.



Y Butt roll
Moving fenders are used when backing up to loading ramps. The rolls avoid damage caused by up and down movements while loading.



Z Stowage compartment
The side members in the rear-end frame provide space for another stowage compartment.

Best-in-class customer service.

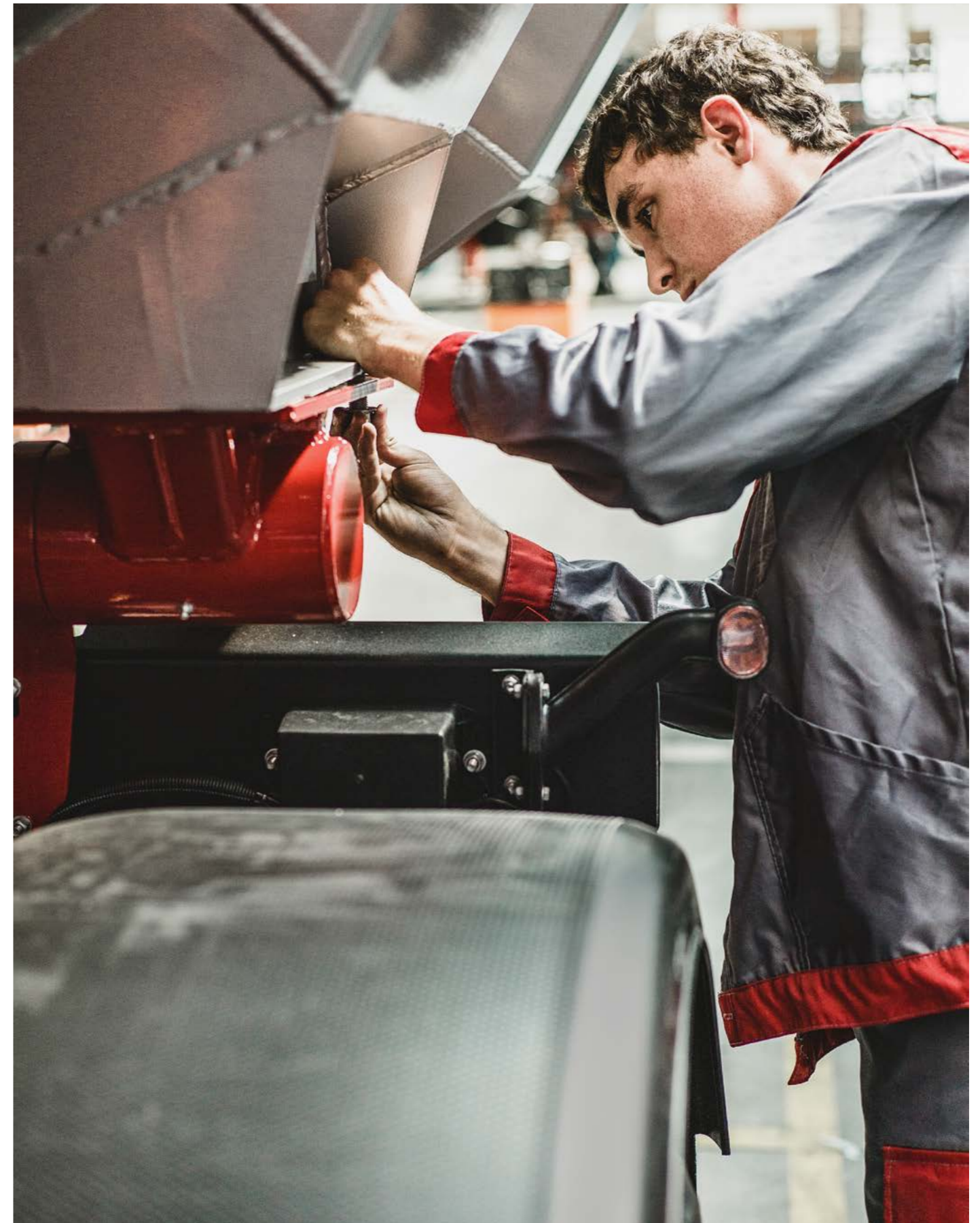
Single source for solutions matching any Schwarz Müller vehicle requirement.

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 successful relations with customers of many industries

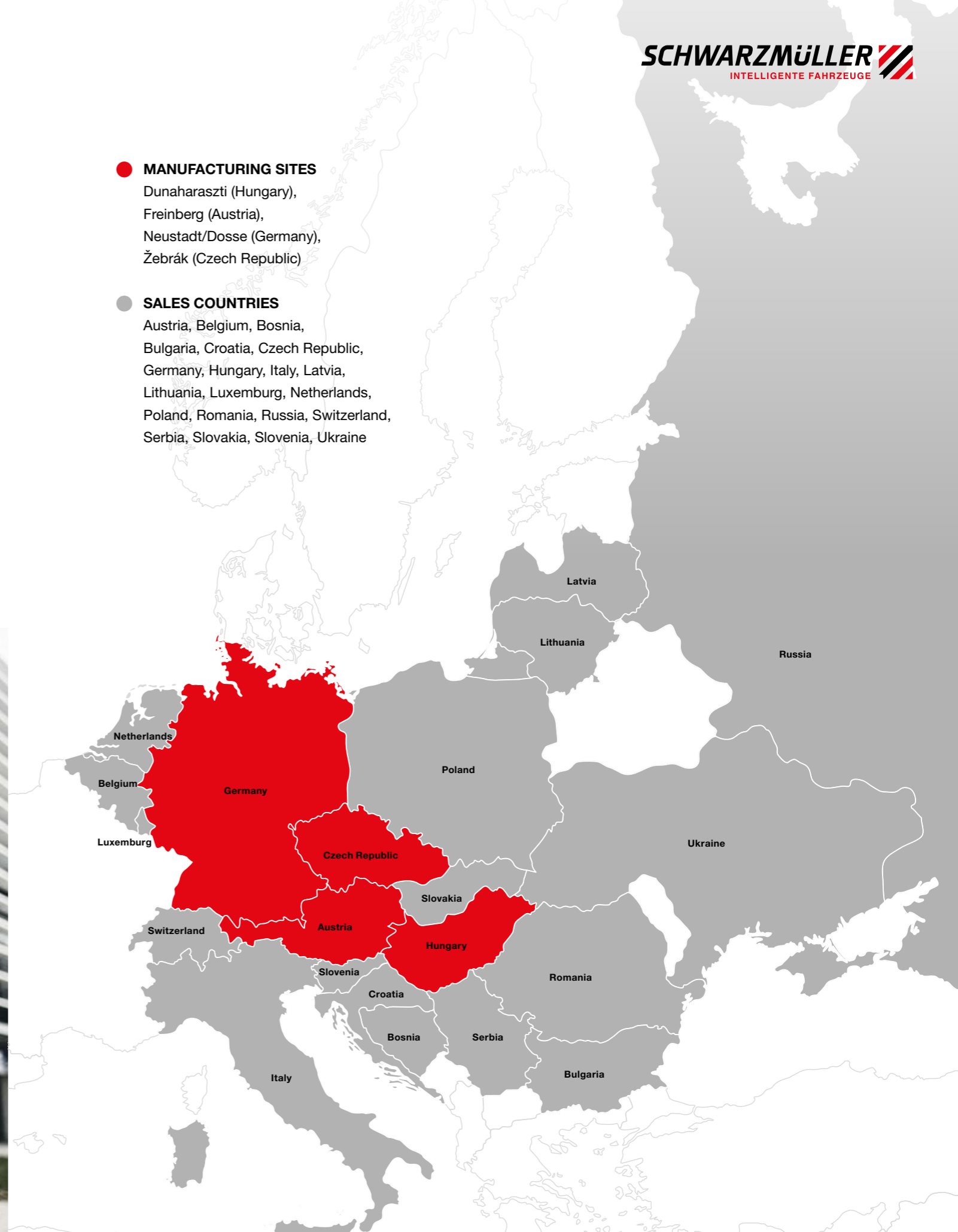
requiring challenging transport solutions. It allows Schwarz Müller to penetrate the entire market region with new vehicles and a portfolio of services throughout the entire lifecycle of its products.

● **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

Phone: +43 7713 800-0

office@schwarzmueller.com

www.schwarzmueller.com/en

SCHWARZMÜLLER

Art.-Nr. 230922EN