

EuroCombi – FlatCombi – InterCombi
- Heavy load combinations for every application

Turn mass into motion!

Heavy load combinations

- for every application

Alongside many series products, SCHEUERLE, as the world record holder in the transport of heavy loads, also offers its customers the right customized solution for every challenging transport task. This is where the world market leader really stands out as a special vehicles manufacturer.

The modular design facilitates an array of combination possibilities, which can be adjusted to the requirements of almost any transport task thanks to an extensive range of accessories.

All vehicles from the SCHEUERLE Combi-Series can generally, depending on the combination, be driven in a 3-point or 4-point suspension.



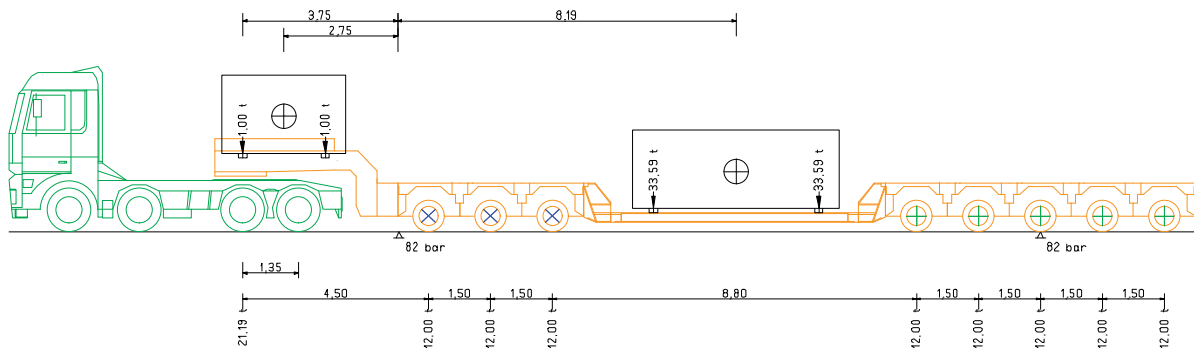
Advantages

- **Sturdy vehicle construction with extreme mobility.**
- **End-to-end and side-by-side coupling.**
- **Can be driven as a trailer or with gooseneck.**
- **Completion of the professional transport solution with extensive accessories, such as gooseneck, trailer fittings or different decks and swivel bolster as long transport equipment.**
- **Axle base of 1,500 mm.**
- **Transport speeds up to 80 km/h.**
- **Steering angle up to 60° and optimized steering design guarantee high manoeuvrability in the tightest space.**
- **Lamellar coupling with hydraulically operated locking cylinders for easy and fast coupling of the combination.**



Heavy load combinations

- for every application



The new, improved "Salsa-Plus" programme from SCHEUERLE facilitates calculation of the fifth wheel and axle loads in connection with a freely definable load and additional load incorporating the tractor before starting

to drive. The system also checks the frame load of the overall combination and clearly shows at a glance - in a colour bar chart - whether the planned combination exceeds the permissible bending moment.

The extra functions compared to the previous Salsa programme

- Creation of steering diagrams, track diagrams, dimensional drawings and load diagrams for the selected combination.
- Creation of turning curves in the vehicle plan for freely selectable routes.
- Checking of problem areas on the transport route using aerial images or measurement data.
- Possibility of recording and evaluating obstacles using a position detector directly on site.
- Calculation of the axle compensation for climbing ramps.
- Separate calculation of fifth wheel and axle loads for the tractor.
- Possibility of entering several loads.
- Calculating the deflection and specifying the necessary pre-tensioning.
- Automatic display of the steering diagrams.



EuroCombi

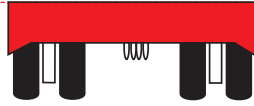
- light - robust - mobile - multi-functional!

Axle load

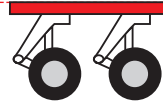
20,000 kg



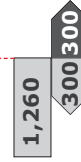
285/70 R 19.5



L 2 = 2,750 mm
L 6 = 2,430 mm



L 750 L
L 2 = 1,500 mm
L 6 = 1,500 mm



This series has proven itself over and over in daily use. The stable frame construction is the backbone of the EuroCombi. The SCHEUERLE pendulum axle technology not only gives the EuroCombi maximum mobility with 60-degree steering angle, it is also a reliable core under high loads. Axle loads up to 20 t are no problem for the EuroCombi. Naturally, the EuroCombi is also available as an ES version with a much higher bending moment. The EuroCombi ES is made from high-strength fine-grained steel of class S 960.

Advantages

- Low dead weight.
- Transport of loads up to approx. 300 t.
- Simple loading and secure use also in difficult driving conditions and when negotiating steep loading ramps thanks to high axle compensation +/- 300 mm.



4.1



4.2

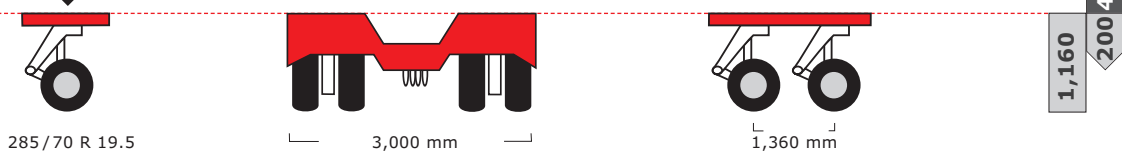


4.3

EuroCombi BR *(Boom Recess)*

Axle load

20,000 kg



The new EuroCombi BR - in combination with an excavator deck - is ideally suited for challenging excavator transport. The excavator arm is laid in the 820-mm-wide excavator recess in the centre of the vehicle frame, achieving a load height 60 cm lower. Thanks to the 45° angle of the boom recess, it is also no problem to take round goods, such as large pipes and wind

tower segments, set in the boom recess that is 1,330 mm wide at the top. Thanks to the broad and deep loading recess, the EuroCombi BR offers increased load height and, in addition to the FlatCombi, is therefore ideally suited to transport tall cargo. This becomes a decisive criterion, for example when travelling under bridges or high-voltage power lines.



5.1

Advantages

- **Cost-effective expansion of existing SCHEUERLE Combi series fleet.**
- **Available as 4, 5 and 6-axle platform trailer.**
- **Possibility to transport the most diverse loads.**
- **Reduction in necessary overall height by up to 60 cm.**
- **Flexible coupling options with all existing SCHEUERLE Combi equipment decks.**
- **Decreased axle base of 1,360 mm ensures the greatest possible payload with the smallest possible overall tractor length.**



5.2



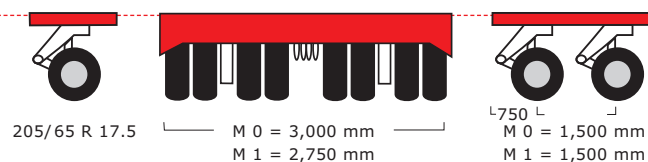
5.3

FlatCombi

- low - broad - high load-capacity!

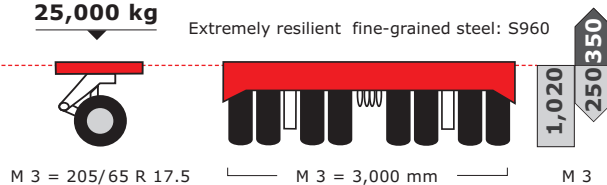
Axle load

23,000 kg



Axle load

25,000 kg



The FlatCombi is the right transport method if the platform height is the decisive criterion for your transportation task. Despite direct loading on the platform trailer, very tall cargo can easily pass beneath bridges or high-voltage power lines, for example.

Low, broad, high load-capacity and extraordinarily flexible; these are the features of the FlatCombi series. The ingenious modular series also offers an array of options for configuring corresponding vehicle combinations.

Combinations from the FlatCombi series are powerful heavy goods vehicles. The FlatCombi series offers high flexibility, not just in combination with single platform trailer, but also in configuration with a gooseneck or different decks.

A set of swivel bolsters, consisting of a front bolster and automatic rear bolster, transforms the FlatCombi to a transporter for long loads, e.g. for concrete beams, steel constructions, wind towers, etc.

Where conventional platform trailers reach their limits, the FlatCombi series from SCHEUERLE is the right choice thanks to its compact design and extreme load capacity.

Advantages

- Minimal platform height of 780 millimetres in lowered state.
- The axle loads of the FlatCombi M3 are precisely tailored to those of the InterCombi S0.
- FlatCombi available with 23-tonne or 25-tonne technical axle load.
- Axle compensation dependent on the design up to +350 / -250 mm.
- Can be combined with the self-propelled transporters of the SPMT 3000, InterCombi SP and InterCombi PB series. The steering is adjusted to the height difference accordingly.



FlatCombi MC *(Mobile Crane)*

- used as base vehicle for mobile crane set-up

Axle load

36,000 kg



215/75 R 17.5



3,000 mm



750 L 1,500 mm

1,090
225 425

The FlatCombi MC is also suitable for use as the base vehicle for mobile crane structures.

With a driveable platform height of 1,090 millimetres in drive position and a technical axle load of 36 tonnes, the FlatCombi platform trailers are powerful base vehicles, especially for high mobile crane structures. The modern pendulum axle technology with a steering angle up to 60 degrees turns even the longest combination into a flexible heavy goods unit.

This allows transport of heavier cranes. This is a decisive advantage in the erection of wind power stations in particular.

With an axle compensation of up to +425 / -225 millimeters, the FlatCombi MC proves its worth even on unpaved roads.



7.1



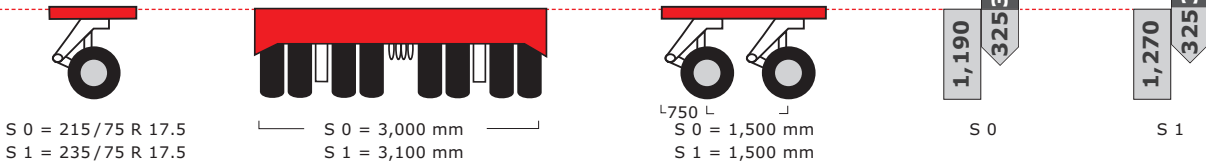
7.2

InterCombi

- strong - versatile

Axle load

36,000 kg



InterCombi platform trailers are designed for demanding use and for long-distance transport on the road, as well as for special requirements in transferring plants and components in industry.

The InterCombi series from SCHEUERLE represents a cost-effective and reliable alternative for operators for the most diverse tasks.

The InterCombi has become a synonym in the heavy transport industry and is a fixed component in the fleets of many specialised heavy goods transport companies.

The modular InterCombi transport system offers an extensive range of transport solutions, which can be built on the platform trailer in 2, 3, 4, 5, 6, 7, and 8-axle designs. These can then be coupled end to end or side by side.

With a 36-tonne technical axle load, the InterCombi is designed for secure transport of large loads and offers sufficient reserves, even under extreme loads, thanks to its robust design. The InterCombi from SCHEUERLE is used on a daily basis all over the world and reliably masters challenging transport tasks.

Advantages

- With a 36-tonne axle load designed for secure transport of large loads.
- Available not just as a trailer or semi-trailer, but also as a self-propelled platform trailer with Power-PackUnit (PPU), for example, the InterCombi SP or InterCombi PB. All three variants can be combined with one another.
- Loose coupling mode of InterCombi units possible using Scheuerle spacing electronics.
- Highest bending moment on the market for high load reserves.



InterCombi SL

- the „Split Type“

The InterCombi SL has longitudinal pitch and, as a result, can be extended into a 3-file combination with the InterCombi S0. Using so-called spacers between the vehicle halves, for example, means that vehicle

widths of 4,000 mm can also be realised. The InterCombi SL from SCHEUERLE is used when the load requires better stability due to a high centre of gravity and the road does not allow a 4-file combination.



InterCombi

- as 4-file combination

Of course, the InterCombi is also available with 4-file equipment. The platform trailer has the option of side-by-side coupling on both sides using coupling elements, in order to configure different vehicle combination widths. Even wider vehicle combinations can be realized in combination with the InterCombi SP or the SPMT 3000.

These types of combinations are used especially when the width of the load plays a particular role or if crossing a bridge requires specific vehicle configurations. Multi-file combinations are also an advantage if the overall length of a combination is subject to certain restrictions.



InterCombi SP *(Self-Propelled)*

- the self-propelled heavy load combination

SCHEUERLE supplies PPU (PowerPackUnit) of various performance levels to provide the energy for the hydrostatic drive, the steering and the lifting hydraulics in the pendulum axles.

The InterCombi with PPU can be operated by one person by remote control. Manoeuvring also requires considerably less space than with comparable tractor combinations. This is a decisive advantage, particular-

ly when space is tight and for in-house transports. The PPU can be swivelled upward by 12°, which makes climbing ramps extremely easy.

Of course, the InterCombi SP can also be coupled to the electronically steered modular transporter SPMT 3000. The PPU can be connected using one data line and, thus, can be operated using just one remote control.



SPMT 3000

- the self-propelled, electronically steered heavy load combination

The „tractor“ for the InterCombi

Naturally, the SPMT 3000 can also be coupled to platform trailers from the InterCombi range. Same height, same width, same couplings - the SPMT 3000 is the cost-effective addition to make self-propelled transport units from existing InterCombi platform trailers.



The hydrostatically driven combination vehicles are available in four or six-axle design.



InterCombi PB *(Power Booster)*

- the 3-in-1 solution with Power Booster



The new SCHEUERLE InterCombi PB is equipped with shiftable drive axles and can be towed at 80 km/h or even be propelled by an equally shiftable PowerPack-Unit (PPU) as needed. This development from SCHEUERLE offers additional traction (thrust) without using an additional thrust machine on transport routes with inclines. The InterCombi PB can also be operated as a self-propelled unit or coupled with other InterCombi platform trailers.

1. As thrust machine: The driver starts the powerful 150 kW PPU before starting on a critical incline. As soon as a tractor no longer has sufficient power to manage the incline, i.e. the speed drops below 14 km/h, the driving gear starts automatically, thus, providing sufficient thrust. The additional driving gear also shuts off automatically once the incline has been overcome and speed can be increased again in accordance with the road conditions.

2. In normal road traffic as trailer combination: Once the driving gear is switched off, the drive unit can achieve a speed of 80 km/h in the transport combination. The proven SCHEUERLE InterCombi technology is also characterised by a stable chassis construction, axle compensation of +/- 325 mm and a steering angle of 60°.

3. For in-house transport: For in-house transports, the drive unit with PPU - with or without InterCombi platform trailers - can be uncoupled from the tractor and can be controlled as a self-propelled transport combination using a mobile control unit. The hydrostatic drive, lifting and lowering functions, hydraulic steering, brake system and electric power supply can also be controlled using this unit. Small, agile and extremely flexible!



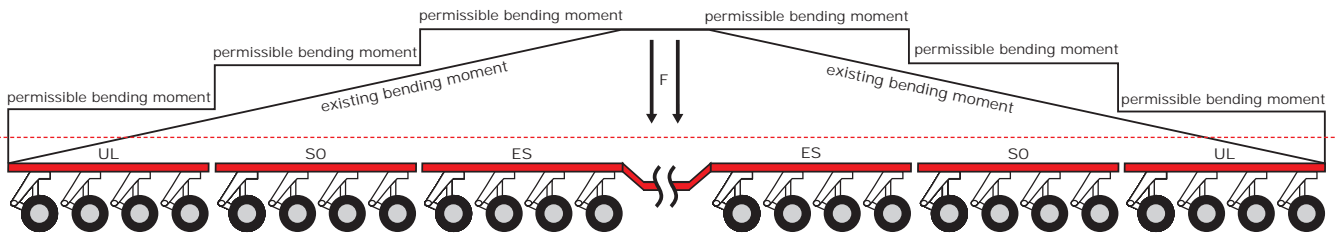
11.1



11.2

InterCombi ES *(Extra Strong)*

- the Goliath among road vehicles



Made from high-strength fine-grained steel of grade S 960, the InterCombi ES has a much higher bending moment in the main beam. This higher bending moment means you can couple a platform trailer with additional 3 axles behind a deck. However, this does not affect the permissible axle loads, which demonstrates its quality as a Goliath among road vehicles. Of course, the InterCombi ES can be coupled with the classic SCHEUERLE InterCombi. It is available as a 2, 3, 4, 5 and 6-axle platform trailer.

Supplementing existing fleets with platform trailers from the SCHEUERLE InterCombi ES range is particularly interesting, because higher loads require additional axle lines that, in turn, result in higher bending moments. Combining types InterCombi ES, InterCombi and InterCombi UL enables you to configure the perfect vehicle unit according to the requirements of the bending line (see pictogram above). This makes the two models ES and UL a lifeline for all carriers.



12.1



12.2

InterCombi UL *(Ultra Light)*

The InterCombi UL is the light-weight in the Combi series: It is weight and price-optimized to configure an optimal combination in the dead weight-payload ratio. With a dead weight of well under 10 tonnes (4-axle), the InterCombi UL is 850 kg lighter per axle line than the standard InterCombi. It can be coupled to both the InterCombi and the InterCombi ES; with the same hydraulics in the axles.

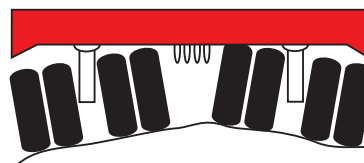


12.3

Technical data

All comparative data relate to a platform trailer with 4 axles												
		EuroCombi			FlatCombi				InterCombi			
		L 6	L 2	BR	M 0	M 1	M 3	MC	S 0	S 1	ES	UL
Axle load	kg	20,000	20,000	25,000	23,000	23,000	25,000	36,000	36,000	36,000	36,000	21,900
Dead weight	kg	11,500	11,200	10,500	11,600	11,300	12,300	13,300	13,300	13,400	13,400	9,900
Total weight Payload	kg	80,000	80,000	100,000	92,000	92,000	100,000	144,000	144,000	144,000	144,000	87,600
Tyres		285/70 R 19.5			205/65 R 17.5			215/75 R17.5	215/75 R 17.5	235/75 R 17.5	215/75 R 17.5	245/70 R 17.5
Number of wheels per axle		4	4	4	8	8	8	8	8	8	8	4
Platform height minimum	mm	960	960	960	780	780	770	865	865	945	865	865
Platform height middle setting	mm	1,260	1,260	1,160	1,030	1,030	1,020	1,090	1,190	1,270	1,190	1,190
Axle compensation	mm	+/-300	+/-300	+400/ -200	+/-250	+/-250	+350/ -250	+425/ -225	+/-325	+/-325	+/-325	+/-325
Total lifting	mm	600	600	600	500	500	600	650	650	650	650	650
Overall length	mm	6,000	6,000	5,480	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000
Overall width	mm	2,430	2,750	3,000	3,000	2,750	3,000	3,000	3,000	3,100	3,000	3,000
Axle base	mm	1,500	1,500	1,360	1,500	1,500	1,500	1,500	1,500	1,500	1,500	1,500
Steering angle		60°	60°	60°	60°	60°	60°	60°	60°	60°	60°	65°

Axle compensation



Details



Steering rods protected
between main beams



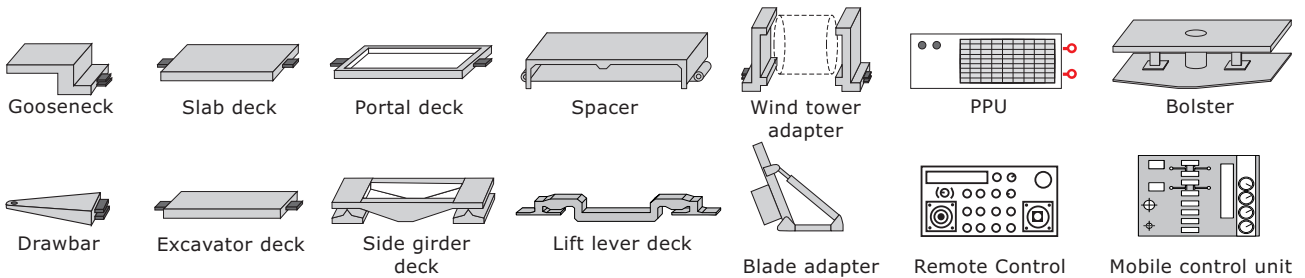
Solid attachment points for
load securing - With side
marker lamps protected
in the outer frame



SCHEUERLE -
"Easy Coupling"

CombiEquipment

- the accessories range for the Combi series



The large range of Combi accessories from SCHEUERLE offers the right solution for every difficult transport task.

SCHEUERLE has developed a range of accessories to meet every need in cooperation with its worldwide customers. There is individually configurable equipment available for every transport task: from portal deck, flatbed deck or excavator deck in rigid or telescopic design, special decks built to customer requirements, all the way to adapter for transport of wind power stations.

Gooseneck

- Adjusting the fifth wheel load to the dead weight of the tractor using the continuously adjustable mechanical settings on the gooseneck.
- Can easily be adapted for all SCHEUERLE Combi series.
- Additional load space on the gooseneck can be removed.
- Total width of 2.5 m, meaning transport on conventional trailers is possible.

The modular design of the gooseneck, combined with the latest robotic welding technology facilitates flexible realization of our customers' wishes with the highest quality and precision.

The SCHEUERLE Development Team has many years' experience in fulfilling customers' specific requirements and is there to help with special transport tasks. Whether tower segments, excavators or transformers, SCHEUERLE combination vehicles are suitable for any transport task in almost any climate and on any terrain.



14.1



14.2



14.3

Range of decks

- Excavator decks
- Flatbed decks
- Side girder decks
- Lift lever decks
- Special decks

SCHEUERLE has the right solution for every use with its extensive range of decks:

Standardization and modularization of the SCHEUERLE decks and the use of the latest robotic welding technology guarantee fast production flows and, thus, short lead times.

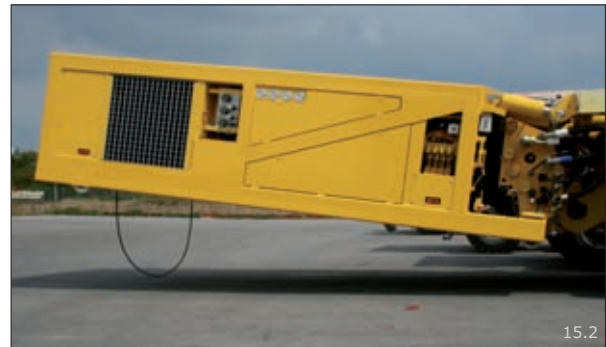
Adapters

- Wind tower adapter with and without free-turning device.
- Blade adapter with tipping and turning gear for the x/y and z-axis.



PPU

- Z 10
- Z 24
- Z 36
- Z 150 (for InterCombi PB)
- Z 200 (for InterCombi SP)
- Z 340 (for InterCombi SP)



Trailer equipment

The 2-file trailer equipment comprises drawbar, drawbar coupling element and a mobile control unit. 3 and 4-file trailer combinations can also be formed with other components.



Remote control

- Radio control
- Cable remote control



Long material kit

A set of swivel bolsters, consisting of a front bolster and a hydraulic rear bolster, transforms the vehicles of the Combi series to transporters for long loads, e.g. concrete beams, wind towers, etc. The combinations can be expanded with spacers for special requirements.



Expertise

- An overview of SCHEUERLE

All over the world, the history of heavy goods transporters is closely connected with the name SCHEUERLE. SCHEUERLE Fahrzeugfabrik GmbH dates back to Dorfschmiede, founded in 1869 by Christian Scheuerle. In 1937, grandson Willy Scheuerle started the development of heavy goods vehicles. His ground-breaking ideas have inspired the whole industry and revolutionised the transport of heavy goods in many industrial fields. Heavy goods vehicles from SCHEUERLE are used in shipyards, in the offshore industry, in smelting and steel works, in bridge and tunnel construction, in the air and space travel and in road transport all over the world.

In 1987, the Heilbronn entrepreneur Otto Rettenmaier acquired SCHEUERLE and laid the foundation stone for today's worldwide leading TII Group (Transporter Industry International GmbH).



16.1

Examples from our product range



16.2

Offshore/plant construction



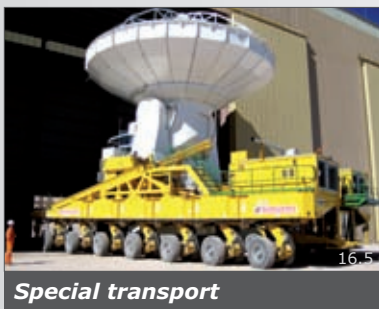
16.3

Shipbuilding



16.4

Road transport



16.5

Special transport



16.6

Air and space travel



16.7

Roads/industry



16.8

Metallurgy



16.9

Wind industry



16.10

Bridge and tunnel construction



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