NORTH AMERICA
VEHICLE TECHNOLOGY FOR TRANSPORT SPECIALISTS
The TII Group moves the world: Seventy percent of all transports over 3,000 tons and ninety percent of all transports over 5,000 tons are performed using vehicles by the TII Group.

With its brands SCHEUERLE, NICOLAS, KAMAG and TIIGER the group of companies has production sites in Germany, France and India as well as a production cooperation in North America (Florida). It assists and advises its customers with a globally active sales and service organization. Heavy-duty vehicles by the TII Group transport entire industrial plants, ships, submarines, oil and offshore platforms, turbine, construction machinery but also slag pots and ladies in the remotest corners of the world.

"For our customers, we bring around 400 years of experience in heavy-duty transport, accumulated by four companies, into play, thus securing their future economic success of tomorrow today."

Senator E. h. Otto Rettenmaier, multi-entrepreneur and founder of the TII Group
As a full-range supplier, the TII Group offers a wide range of vehicles to move loads of all kinds, from the modular, self-propelled transporter (SPMT) to transport loads of 15,000 tons and more all the way to vehicles for stock handling in yard logistics.
NORTH AMERICA
OVERVIEW

ON- AND OFF-ROAD

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The SCHEUERLE HighwayTrailer is a super-lightweight trailer ideally suited for the North American market. The special design of the central middle frame provides the trailer with a very high degree of stability and load-bearing capacity in spite of the lightweight construction.

The SCHEUERLE HighwayTrailer is available as semi-trailer as well as in a modular design (HighwayTrailer MES). The HighwayTrailer is equipped with a fully hydraulic suspension and is also available in various telescopic versions.
AREAS OF USE

- Transportation on public roads

PAYLOAD RANGE

- Up to 285,500 lbs (129.5 t)

TELESCOPIC VERSIONS

- Semi-trailer 1T9
- Semi-trailer 2T9

MES VERSIONS

- Semi-trailer 3-/6-/9-/12-axle

ADVANTAGES

- Full hydraulic suspension
- Lowest dead weight in its class
- Low deck height
- Technical payload of up to 285,500 lbs (129.5 t)
- Loading length ~ 100’ (30.50 m) – semi-trailer 2T9
- Conforms to most US and Canadian transport road regulations
- Hydraulic gooseneck compensation with 5th wheel load adjustment
- For concentrated and long loads

AVAILABLE ACCESSORIES

- Low bed deck, telescopic spacers, etc.
With the development of HighwayGiant dual-lane trailer, SCHEUERLE has raised dual-lane technology to a completely new level. A special feature on the HighwayGiant, among other things, is the integrated folding mechanism which allows the complete trailer to be transported in a folded state on standard semi-trailers. Thus, inexpensive approval-free empty runs can be carried out resulting in huge cost-savings – regardless whether it is delivery to or returning from a transport assignment. Due to its low tare weight the HighwayGiant dual-lane trailer has been approved for use in most US states, and was specially developed as a flexible vehicle concept in order to fulfill the wide range of requirements found in the North American market. The design not only accommodates the variable vehicle widths, but there is also the possibility to safely widen the vehicle while it is loaded. When passing state borders, the widening enables to meet the respective road regulations and can be done quite easily and fast – and therefore cost-saving, without being forced to dismount the steering system of the trailer combination.

HighwayGiant on a new level: Due to the development of the PowerBooster, the HighwayGiant dual-lane concept opens up new opportunities for the US highway transportation.
AREAS OF USE

Transportation on public roads

PAYLOAD RANGE

176,000 lbs - 551,000 lbs (80 t - 250 t)

AVAILABLE MODULES

2-axle / 2-axle ExtraStrong
3-axle / 3-axle ExtraStrong
4-axle / 4-axle PowerBooster

ADVANTAGES

3-axle module for shorter, better balanced and cost-efficient combination
Time- and cost-saving transport and mobilization due to integrated folding mechanism
Foldable modules can be transported on regular flat bed trucks
Hydraulically adjustable width 16’ – 18’ – 20’
Lowest deck height
Width adjustable in loaded condition
Highest cylinder stroke in its class: 28.3” (720 mm)
Gooseneck with infinite 5th wheel load adjustment for full use of tractor capacity
A wide range of accessories and options including goosenecks, drawbars, bolsters, decks and special equipment available
Compatible with K25 and accessories of other manufacturers
7’ wide axle, 9’ axle distance
Steering angle of ± 60°
Extremely low weight for maximum payload
Self-Propelled, mechanically steered
The K25 and InterCombi series are also available as self-propelled modular transporters to be used in configuration with the standard trailers. Powerful PPUs enable great drive, lift and lower performance as well as precise steering. The SP (Self-Propelled) modules open up a wide range of heavy transportation for standard trailers.

Self-Propelled, electronically steered
The electronic steering systems of the K25 and InterCombi provide with a steering angle of ± 140° extreme maneuverability under full load. Together with the 7 steering programs and the absolutely accurate drive system SPE (Self-Propelled, Electronically Steered) modules solve your job.
AREAS OF USE
/ On-site / on public roads

PAYLOAD RANGE
/ Unlimited due to modular design

AVAILABLE MODULES
/ Standard platform trailer
/ SL (Split Type)
/ ES (Extra Strong)
/ PB (PowerBooster)
/ SP (Self-Propelled)
/ SPE (Self-Propelled, Electronically Steered)
/ CA (Canada Version)

ADVANTAGES
/ Steering angle of ± 60° (± 140° for SPE)
/ Highest oil volume in its class (K25)
/ Freely accessible track rods
/ Special lashing rings for optimal cargo securing
/ Wear-resistant design
/ Strong vehicle construction with extreme manoeuvrability
/ For “end-to-end” and “side-by-side” coupling
/ Wide range of accessories
POWERBOOSTER
SPMT AND SECOND TRACTOR IN ONE VEHICLE

1. Assist mode on transportation routes with gradients:
As soon as a tractor has no sufficient power to manage the incline, i.e. the speed drops below 9 mph (14 km/h), the driving gear starts automatically, thus providing sufficient thrust.

Assist mode

2. On public roads – as trailer combination:
Once the driving gear is switched off, the drive unit can achieve a speed of 50 mph (80 km/h) in the transport combination with a prime mover.

Towed trailer combination

3. For in-plant transports:
For in-house transports, the drive unit with PPU can be controlled via remote control.

Self-propelled with additional trailer

4. Mechanical “side-by-side” coupling:
A further possibility for the in-house transport is the mechanically coupled side-by-side combination. Due to the wide supporting base, payloads with a high centre of gravity can be transported.

5. Mechanical “end-to-end” coupling:
The PowerBooster can be used as a traction unit at the front or as a thrust machine at the rear part of extremely long combinations.

Self-propelled with up to 4 PowerBooster modules in compound
AREAS OF USE
/ On-site / on public roads, global

PAYLOAD RANGE
/ Unlimited due to modular design

AVAILABLE MODULES
/ SCHEUERLE-KAMAG K25 PB
/ SCHEUERLE InterCombi PB
/ SCHEUERLE WideCombi PB
/ SCHEUERLE HighwayGiant PB
/ KAMAG PTL Offroad PB

ADVANTAGES
/ PB-vehicles can be towed up to 50 mph (80 km/h)
/ Once arrived at its destination, the vehicle can be operated as a self-propelled modular transporter
/ Additional thrust can save an additional tractor during operation
/ PB-vehicle modules can be coupled into bigger vehicle compounds
SHT Technology – reliability on wheels
SHT transporters made by the TII Group have revolutionized the transportation of individual sections to completed ships in the shipbuilding industry. Extreme loads of 1,000 tons and more can be moved using only one vehicle. By combining several vehicles to one large unit, extreme loads of up to 15,000 tons and more can be transported. Precise steering and a hydraulic drive unit that allows accurate positioning and powerful lifting hydraulics make the vehicles an indispensable piece of equipment for ensuring cost-effective logistical operations in the shipbuilding industry.
AREAS OF USE
/ Shipyards / fabrication yards

PAYLOAD RANGE
/ 273,000 - 2,205,000 lbs (124 - 1,000 t)

STANDARD VEHICLES
/ 4 to 32 axles
/ Platform length up to 83.5’ (25.5 m)
/ Platform width up to 32.8’ (10 m)
/ More payload and bigger versions available on request

ADVANTAGES
/ Robust vehicle design
/ Precise steering with ± 165° steering angle
/ Proven SCHEUERLE pendulum axles
/ Electronic steering
/ Broad range of safety and comfort features
**SPMT Technology – extremely robust, extremely strong**

SCHEUERLE SPMT (Self-Propelled Modular Transporters) have moved giant loads all over the world. The transporters are based on 30 years of experience with self-propelled modular transports. With our technology, loads in excess of 15,000 tons, such as factory-modules for power stations, seawater desalination plants and oil exploration equipment as well as off-shore platforms are transported safely and reliably to their final destinations.

**Unlimited coupling possibilities**

**Mechanically coupled “side-by-side”**

**Telescopic Widening System**
AREAS OF USE
/ On-site, global

PAYLOAD RANGE
/ 189,000 lbs (86 t) - unlimited

STANDARD VEHICLES
/ 3 / 4 / 5 / 6 / 8 axle modules with 132,000 lbs (60 t) axle load
/ SPMT SL (Split Type)
/ SPMT F (Fast Runner)
/ SPMT AC (Operable down to -40°F / -40°C)
/ SPMT Widening Solutions

ADVANTAGES
/ SPMT of the last 25 years can be coupled
/ Super precise electronic steering technology
/ Operable mechanically coupled or in open compounds
/ Most proven technology in the market
/ Ultra sturdy frame – highest resistance moment in the market
/ Cross hire rental – you can hire axle lines as needed everywhere around the world
/ Container flat rack loadable thus cheaply shippable
/ Leads the competition in all technical configurations
Compact allrounder – electric- or diesel-hydraulic drive
The SCHEUERLE SPMT Light with two or four axles is a compact allrounder, guaranteeing full flexibility for smaller transportation tasks, e.g. in production halls. Payloads of up to 86 / 176 tons are possible with two or four axles. Naturally, the SPMT Light also offers the known benefits of the conventional SCHEUERLE SPMT, such as the robust design of the chassis and the electronic multi-directional steering complete with all known steering programs. Fixing points on the topside of the platform allow the mounting of cargo control posts for the transportation of long materials.
**AREAS OF USE**
- On-site: indoor, outdoor

**STANDARD VEHICLES**
- 2 axles
- 4 axles
- Diesel engine and electric drive

**ADVANTAGES**
- Available with diesel- or electro-hydraulic drive
- Coupled mechanically (side-by-side) or electronically in an open combination
- Proven technology from the renown SPMT series
- Same multitude of steering programs as the SPMT series
- Integrated Power Pack Unit
If the challenge is extreme, our transporters are in their element. The special vehicles of the TII Group guarantee reliability and precision when transporting highly sensitive loads. Our technical know-how gained over more than four hundred years of accumulated experience, in combination with well-founded industrial expertise, allows us to develop sophisticated transport solutions for all special applications you might think of.

SPECIAL APPLICATIONS
YOUR CHALLENGE – OUR SOLUTION

AREAS OF USE
/ Special Transportation

PAYLOAD RANGE
/ Defined by customer

AVAILABLE MODULES
/ As needed

ADVANTAGES
/ All purposes – whatever your transport challenge is, we solve the problem!
Benefit from us!
Whether you would like to convert an existing fleet or solve individual transportation issues – TII Sales offers the required expertise to always provide customers of the TII Group with the ideal solution. We recognize specific requirements, discuss them with you and promptly offer the best vehicles. In doing so, we will focus on the future together. How is the market developing, how can you change your existing fleet if needed, which accessories and expansions are worth considering to grow your business – TII Sales will advise you in all of these questions and provide you with the collective know-how of all four companies.

Available 24/7
SCHEUERLE, NICOLAS, KAMAG and TIIGER have bundled their customer service for all brands and sites in the joint sales organization TII Sales GmbH & Co. KG. With a wide network of representatives and their own distribution centers, the TII Sales staff is available as your point of contact around the world. This guarantees comprehensive consulting on the spot, right from the start.

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Engineering hand in hand
In close cooperation with developers and designers, the project engineers of the TII Group develop application-specific solutions. In close consultation with the customer, the respective requirements are first identified and analyzed with the customer. Then, we determine which modifications must be made on existing models or what a redevelopment needs to look like to meet all your needs.

With you through all project stages
Customers are continuously assisted by the sales team even when it comes to order processing. From proposal via project implementation all the way to delivery, you will be assisted by the TII Sales representative responsible for you. Members of the sales organization are traveling around the globe. They have a vast know-how of industries and an eye for individual solutions. They will be there for you whenever and wherever they are needed.

Contact Sales
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The service offered by the TII Group provides for global support during the entire service life of the vehicles. Service team members can be reached 24/7 via a free hotline. From the acceptance of new vehicles, training and instructions on the vehicle via modifications and overhauls all the way to repairs and the supply of spare parts, the TII Group offers all types of services to ensure the efficient operation of the vehicles for their customers worldwide. This range of services is complemented by accompanying support services. In particular, this includes financing support, procurement of used vehicles to other interested parties, consulting on planned transports as well as tailor-made service packages. Building on the specific product data, the documentation and operating instructions, training measures are performed on the product to address the customer’s needs. An essential element of the service range also includes modifications and overhauls. With targeted measures, customers can ensure an even longer-term use of the vehicles acquired. Immediate support is ensured by the global cooperation with service partners and our own technicians. A well-assorted stock of spare parts facilitates prompt maintenance. The TII Group offers security of supply for spare parts and small accessories for the entire product range and the regular life cycle of a product, thus guaranteeing operational reliability for the user.

Contact Service
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TII as an employer
The TII Group offers its employees opportunities that would not normally be available in major corporations. The international character of the business with heavy-duty vehicles – over 70% are exported worldwide – brings a cosmopolitan flair to the daily working life. A steelworks vehicle for Oman, a modular transport solution for Colombia, mining equipment for Australia. At the TII Group, new employees notice from the very beginning that they are moving something on a global scale, both literally and figuratively. Joining the company is possible at all stages of life – the TII Group offers opportunities for trainees, students, young and experienced professionals.

Vocational Training
At the company’s in-house vocational training center, the TII Group provides apprenticeships in all professions typical for the industry. In the process, future construction mechanics, mechatronics engineers, product designers, industrial clerks and office clerks are not only provided with solid basic knowledge but also specialist knowledge. Due to insights gained in related departments such as design or project planning, apprentices at the TII Group get a glimpse of the bigger picture early on.

Cooperative studies, internships or final paper
Be it engineering, business management or computer science: The TII Group offers dual courses of study in cooperation with renowned colleges (DHBW). Furthermore, students often like taking the opportunity to gain their first professional experience through internships at the TII Group.

Starting out with and without professional experience
The TII Group offers attractive career options for qualified skilled workers, young professionals and professionals with years of experience. Be it as a skilled worker in production, as an engineer in design or as a manager in sales – dedication and performance are rewarded at the TII Group. Our global presence offers an interesting working environment, not only for members of the sales and service staff traveling around the globe. Flat hierarchies and open structures guarantee responsible, independent actions.