SCHEUERLE SPMT
SELF-PROPELLED MODULAR TRANSPORTERS
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 ladles 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.
In 1983, SCHEUERLE – today part of the TII Group – developed a vehicle that would fundamentally revolutionize the heavy haulage sector. The SCHEUERLE SPMT in container dimension (2.43 m) found its way into the industry and changed more than just the way loads are transported. The production concepts for the modular construction of industrial plants, conveyor systems or infrastructure projects were reinvented for the future. Today, modules can weigh up to 15,000 tons; the sky is the limit. They can be handled by using SPMT. You as a customer will benefit from the unparalleled global coverage of SPMT vehicles. Due to the vehicle fleets available all over the world, you may rent additional axes (cross hire rental) as required, cost-effectively move them around the globe on container flat racks, all the while managing your projects with flexibility. This even applies when more axes are required than are available in your own fleet. We allow you to deliver profitable projects and provide you with a competitive edge in terms of flexibility and planning reliability.

SPMT of the TII Group can be coupled from the second generation on and loaded onto container flat racks, making them easy to transport. Continuous technological developments and innovations, such as the SPMT Widening Solutions or the SPMT F with its increased top speed, ensure the technological leadership of the TII Group in this segment today.
SCHEUERLE SPMT

MODEL TYPES AND BASIC ACCESSORIES
YOUR MODULAR SYSTEM FOR PROFITABLE HEAVY-DUTY TRANSPORT

**Combination SPMT + PPU**
- Modular bogie unit SPMT with 3 / 4 / 5 / 6 / 8 axles
- PPU Z180 / Z390 EU4 / Tier 4 final
- PPU Z150 / Z350

**Combination „3-File“**
- Modular bogie unit SPMT + 1 file
- Hydraulic tubes
- PPU Z180 / Z390 EU4 / Tier 4 final
- PPU Z150 / Z350

**Combination SPMT + 2x SPMT Split Type + PPU**
- Modular bogie unit SPMT with 3 / 4 / 5 / 6 / 8 axles
- 2 modular bogie units SPMT Split Type
- PPU Z180 / Z390 EU4 / Tier 4 final
- PPU Z150 / Z350

**Axles**
- 3 4,530 mm
- 4 5,930 mm
- 5 7,330 mm
- 6 8,730 mm
- 8 11,530 mm

*Vehicle length - 330 mm = length of loading area

**Telescopic Widening System**
- unlimited extendable

**Scissor Widening System**
- Tilting device
- Load distributor

**Spacer**
- Cabin

**Bolster**
COUPLING VARIATIONS
UNLIMITED POSSIBILITIES

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

2 modular bogie units
SPMT with 3 / 4 / 5 / 6 / 8 axles

**Mechanically coupled “end-to-end”**

2 modular bogie units
SPMT with 3 / 4 / 5 / 6 / 8 axles

**Mechanically coupled in large combinations**

- **PPU Z180 / Z390**
  - EU4 / Tier 4 final
  - PPU Z150 / Z350

- **PPU max. AL (48 t / 60 t)**
  - driven axlelines

- **Z180**
  - 20/16
  - 16

- **Z390**
  - 40/34
  - 26

- **Z150**
  - 20/16
  - 16

- **Z350**
  - 40/34
  - 26

**Open compound: The alternative to mechanical coupling**

- **T-combination**
- **Y-combination**
- **V-combination**
- **Circle-combination**
SKY IS THE LIMIT
TRANSPORT ANY PAYLOAD WITH THE SCHEUERLE SPMT

1x SPMT 8-axle
1x PPU Z180
480 t payload*

2x3 SPMT 8-axle
1x PPU Z390 +
1x PPU Z180
2,880 t payload*

4x3 SPMT 8-axle
2x PPU Z390 +
1x PPU Z180
5,760 t payload*

*with 60 t axle load and Polyfill tires, minus dead weight and PPU
**AVAILABLE VARIATIONS**

- 40 t axle load with pneumatic tires
- 48 t axle load with pneumatic tires
- 48 t axle load with polyfill tires
- 60 t axle load with polyfill tires

**ADVANTAGES OF PNEUMATIC TIRES**

- Lower dead weight
- Economic
- Increased self-damping
- Lower ground pressure

**ADVANTAGES OF POLYFILL TIRES**

- Increased failure safety
- Higher axle load possible
- More tip-resistant due to increased tire rigidity

*minus dead weight
The sophisticated steering technology of the SPMT by the TII Group allows precision-positioning of the heaviest of loads. The individual module transporters can be coupled in any combination, either mechanically or in open combinations. The steering technology guarantees the synchronized control of all module transporters integrated in the coupling mode. Electronic all-wheel steering makes the module transporters extremely maneuverable. This makes them suitable to transport almost any load and provides precision-positioning of ±2 mm.

Steering programs

- Front-wheel steering lengthwise
- Rear-wheel steering lengthwise
- Diagonal steering lengthwise
- Diagonal steering crosswise
- Front-wheel steering crosswise
- Rear-wheel steering crosswise
- Circle steering
- All-wheel steering lengthwise
- All-wheel steering crosswise
- +130°/-100° Steering angle
**VARIATIONS**

**THE ALLROUNDER**

**SPMT SL (split type)**
If two SPMT are too wide and one is too narrow for any given load, the SPMT SL can provide the solution to the problem. The SPMT SL (split type) can be divided in the middle and connected to create the so-called 3-file combinations.

**SPMT ES**
With its increased axle load of 60 t and bending moment the SPMT ES (Extra Strong) is the benchmark amongst self-propelled modular transporters.

**SPMT SL with widening system**
When flexible width is needed for higher tilting stability or fast changing loads with different sizes the SPMT Widening Solutions are the answer. Available as scissor or telescopic type the SPMT Widening Solutions offer flexible vehicle solutions that can be changed in minutes.

**SPMT F with increased velocity**
Increasing maximum speed means decreasing necessities to transport SPMT modules on trailers if they have to be relocated for transportation jobs. Growing oil and gas field sizes made this improvement necessary and the TII Group engineers delivered the solution.

**SMPT AC for use down to -40°F**
Especially in the oil and gas industry weather conditions are often harsh. The SPMT AC, equipped with an optional pre-heating unit, can be used without performance loss in temperatures as low as -40°F.
**Swivel bolsters**
Swivel bolsters with payloads of 150 to 600 tons allow the transport of self-supporting long loads.

**Driver’s cabin**
In particular high-speed vehicles such as the SPMT F are often equipped with a driver’s cabin.

**Vehicle lighting**
The optionally available vehicle lighting system is mounted directly above the axles, provides increased safety and facilitates maintenance.

**Remote control**
Wireless or cable remote controls with an ergonomic design facilitate precise control of the vehicles.

**Spacers**
Spacers are used to mechanically connect multiple vehicle modules. Available lengths: 2.80 m - 8.40 m

**Other available accessories**
- Chalwyn valve for emergency shutdown
- Remote receiver
- Lashing hook
- T-media carrier for side-by-side coupling
- Cable retaining plate for sorted connection cables
- Additional oil cooler for operation at high temperatures
- Several lifting devices
- Arctic remote control with heatable gloves
- Heating/pre-heating unit
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, global

VEHICLE TYPES
/ 2-axle SPMT
/ 4-axle SPMT
/ Diesel engine and electric drive

ADVANTAGES
/ Available with an integrated diesel aggregate or emission-free as an electrically powered variation
/ Coupled mechanically (side-by-side) or electronically in an open combination
/ Proven serial technology from the SPMT series for steering, chassis, drive and braking system
/ Steering programs of the well-known SPMT series
/ Optionally available with hydraulic equal lifting system
/ Steering angle: +130°/-100°
Modular vehicles by the TII Group are powered by special driving units, the so-called PPU (Power Pack Units). These comply with the latest emission standards (EU 4/Tier 4 final). Today, vehicles of the TII Group are powered by PPU with combustion engines, electric and hybrid drives and are used under most difficult conditions around the world. The standard for SCHEUERLE SPMT are the models Z390 and Z180 with low-emission diesel engine. The PPU are normally mounted at the rear of the vehicle or combination but can also be carried along on top of the vehicle or even on the side of the vehicle.

- **PPU Z390**
  - Emission standard EU4 / Tier 4 final

- **PPU Z180**
  - Emission standard EU4 / Tier 4 final

- **PPU Z350**
  - Emission standard EU3A / Tier 3A

- **PPU Z150**
  - Emission standard EU3A / Tier 3A
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 to you 24/7
SCHUELERLE, 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.
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
Phone: +49 7941 691 271
Fax: +49 7941 691 178
E-Mail: sales@tii-sales.com
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

Phone: +49 7941 691 111
E-Mail: service@tii-sales.com
CAREER AT THE TII GROUP

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.

Contact Career
SCHUELERLE
Bettina Yel
bettina.yel@scheuerle.com

NICOLAS
Agnès Hooghe
agnes.hooghe@nicolas.fr

KAMAG
Anja Scharf
anja.scharf@kamag.com