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 TIGER, 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 17,200 tons and more all the way to vehicles for stock handling in yard logistics.
# Full Range Self-Propelled Vehicles

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</table>

**Overview**

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In the second half of the 20th century, a trend began that would forever change the entire transportation industry. With the first self-propelled transport modules used in shipbuilding and the SPMT (self-propelled modular transporter) invented by SCHEUERLE in the nineteen-eighties, the potential payloads suddenly increased and are basically unlimited today.

Today, seventy percent of all transports over 3,000 tons and ninety percent of all transports over 5,000 tons are performed on modular, self-propelled vehicles by the TII Group. Thus, modular manufacturing has gained a foothold in the oil and gas industry, shipbuilding and many other sectors. Unit weights of 17,200 tons – world record – have already been transported with SPMT by the TIIGroup. You as a customer will benefit from the extensive experience of the TII Group, whether you will opt for a SCHEUERLE SPMT, a KAMAG K24, a NICOLAS MHD or another vehicle from the wide range of models offered by the TII Group.
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 axles (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 axles 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.
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 SPMT + 2x SPMT Split Type + 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
- PPU Z180 / Z390
- EU4 / Tier 4 final
- PPU Z150 / Z350

- Hydraulic tubes

Axles | Length
--- | ---
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

Spacer

- Load distributor

Bolster

- Cabin
Mechanically coupled “side-by-side”

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

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

Open compound: The alternative to mechanical coupling

T-combination

Y-combination

V-combination

Circle-combination

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
### SKY IS THE LIMIT
TRANSPORT ANY PAYLOAD WITH THE SCHEUERLE SPMT

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Payload Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x SPMT 8-axle 1x PPU Z180</td>
<td>480 t payload*</td>
</tr>
<tr>
<td>2x3 SPMT 8-axle 1x PPU Z390 + 1x PPU Z180</td>
<td>2,880 t payload*</td>
</tr>
<tr>
<td>4x3 SPMT 8-axle 2x PPU Z390 + 1x PPU Z180</td>
<td>5,760 t payload*</td>
</tr>
</tbody>
</table>

*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
SPMT AC – DOWN TO -40°F

SCISSOR WIDENING SYSTEM

SPMT F – UP TO 12 MPH, LOADED

TELESCOPIC WIDENING SYSTEM

SCISSOR WIDENING SYSTEM
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.

SMPT AC for use down to -40°F
Especially in the oil and gas industry weather conditions are often harsh. The SMPT AC, equipped with an optional pre-heating unit, can be used without performance loss in temperatures as low as -40°F.

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.
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 PowerHoss 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 PowerHoss 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

**ADVANTAGES**
/ Available with an integrated diesel aggregate
/ 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
With the KAMAG K24, KAMAG Transporttechnik manufactures a proven and globally used modular, self-propelled transporter. Its hydraulic steering system has been proven for decades. Due to an extensive accessories program, the main components are rounded out to a multi-functional transport system for heavy loads of almost any shape and size. The KAMAG K24 can be loaded on container flat racks, making it an economical solution around the world. It can be coupled mechanically “side-by-side” or “end-to-end” as well as used in open combinations. It comes with a wireless or cable remote control.
Combination K24 + PPU

- Modular bogie unit K24 with 4 / 5 / 6 axles
- PPU Midi with 150 kW *
- PPU Maxi with 290 kW **
- PPU Maxi with 390 kW ***

Combination K24 + 2x K24 Stretch Type + PPU

- Modular bogie unit K24 with 4 / 5 / 6 axles
- 2 modular bogie units K24 Stretch Type
- PPU Midi with 150 kW
- PPU Maxi with 290 kW
- PPU Maxi with 390 kW

* PPU Midi with 150 kW, Deutz with emission standard 3a ** PPU Maxi with 290 kW, CAT with emission standard 3a *** PPU Maxi with 390 kW, MTU with emission standard Tier 4 final

Dimensions

<table>
<thead>
<tr>
<th>Axle lines</th>
<th>Length K24</th>
</tr>
</thead>
<tbody>
<tr>
<td>4</td>
<td>5,600 mm</td>
</tr>
<tr>
<td>5</td>
<td>7,000 mm</td>
</tr>
<tr>
<td>6</td>
<td>8,400 mm</td>
</tr>
</tbody>
</table>

K24 Stretch

- Unlimited extendable

Spacer

- Tilting device
- Load distributor
- Cabin
- Bolster
KAMAG K24

COUPLING VARIATIONS
UNLIMITED POSSIBILITIES

Mechanically coupled “side-by-side”

2 modular bogie units
K24 with 4 / 5 / 6 axles

PPU Midi with 150 kW
PPU Maxi with 290 kW
PPU Maxi with 390 kW

Mechanically coupled “end-to-end”

2 modular bogie units
K24 with 4 / 5 / 6 axles

PPU Midi with 150 kW
PPU Maxi with 290 kW
PPU Maxi with 390 kW

Mechanically coupled in large combinations

PPU

max. axles
lines

driven axles
lines

150 kW 18 12
290 kW 36 16
390 kW 36 16
2 x 37 kW electric 12 8

Open compound: The alternative to mechanical coupling

T-combination

Y-combination

V-Combination

Circle-combination
**KAMAG K24**

**SKY IS THE LIMIT**

**TRANSPORT ANY PAYLOAD WITH THE KAMAG K24**

<table>
<thead>
<tr>
<th>Configuration</th>
<th>Payload Capacity</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x K24 6-axle 1x PPU Midi 150 kW</td>
<td>288 t payload*</td>
</tr>
<tr>
<td>2x3 K24 6-axle 1x PPU Maxi 290 kW / 390 kW</td>
<td>1,728 t payload*</td>
</tr>
<tr>
<td>4x3 K24 6-axle 2x PPU Maxi 290 kW / 390 kW</td>
<td>3,456 t payload*</td>
</tr>
</tbody>
</table>

*with 48 t axle load, minus dead weight and PPU
KAMAG K24

AXLE LOAD
VARIABLE AXLE LOADS, PERFECTLY ADAPTABLE TO LOAD AND SURFACE

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

Pneumatic tires 40 t

Pneumatic tires 48 t

Polyfill tires 48 t

Polyfill tires 60 t

240 t*

288 t*

288 t*

360 t*

*minus dead weight
The sophisticated steering technology of the KAMAG K24 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.

**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
**ACCESSORIES**

**THE RIGHT TOOL FOR ANY APPLICATION**

**Swivel bolsters**
Swivel bolsters with payloads of 300 to 600 tons allow the transport of self-supporting long loads.

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

**Driver’s cabin**
The optional driver’s cabin allows for safe and comfortable operation in bad weather or low outside temperatures.

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

**Other available accessories**
/ Lashing hook
/ T-media carrier
/ Lifting device
The K24 Stretch can be divided in the middle and thus enlarged by means of an added widening adapter. This helps you economize in multiple ways: on unnecessary modules, time and personnel. In addition, you increase the contact area of the load and thus its stability.

- 2 K24 stretch modules
  - (4 / 5 / 6 axles)
  - with widening adapter

- PPU Midi with 150 kW *
- PPU Maxi with 290 kW **
- PPU Maxi with 390 kW ***

* PPU Midi with 150 kW, Deutz with emission standard 3a
** PPU Maxi with 290 kW, CAT with emission standard 3a
*** PPU Maxi with 390 kW, MTU with emission standard Tier 4 final
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 KAMAG K24 are the midi series with 150 kW and the maxi series with 290 to 390 kW. The PPU are normally mounted on the front of the vehicle or combination but can also be carried behind the vehicle or even on the side of the vehicle.

**PPU Midi mit 150 kW**
Deutz
Emmision standard 3a

**Maxi mit 290 kW**
CAT
Emmision standard 3a

**PPU Maxi mit 390 kW**
MTU
Emmision standard Tier 4 final
The TII Group is the world’s uncontested market leader in the field of self-propelled vehicles with hydraulically-suspended pendulum axles. In addition to the globally available module vehicles SCHEUERLE SPMT and KAMAG K24, the TII Group offers a wide range of various self-propelled vehicles. These are available with electronic or mechanic steering, powered by diesel or electric units, depending on the application. The selection is wide and ranges from huge monobloc self-propelled vehicles with an electric drive for the production of nacelles all the way to Power-Booster vehicles to be used on public roads. Especially the option of covering transports on-site and on public roads with one vehicle provides operators with a high savings potential.

Self-propelled modular platform trailers by the TII Group such as the K25 H, the SCHEUERLE InterCombi and the NICOLAS MHD series are also available as a self-propelled heavy-duty combination. Hydrostatic drive unit, steering and lifting hydraulics in the pendulum axles are supplied by a Power Pack Unit (PPU). Just as the classic SPMT by the TII Group, the vehicles are steered by a wireless or cable remote control. The modular systems are available as a self-propelled version with or without electronic steering. Electronic steering allows for steering maneuvers and operation in loose coupling mode as known from the classic SPMT. It is easy to determine how many axles you will need – with 45 tons per axle throughout, the SCHEUERLE-KAMAG K25 H, the SCHEUERLE InterCombi as well as the NICOLAS MHD is a solid parameter you can count on.
SCHEUERLE-KAMAG K25 H SP and SPE vehicles are available with three, four or six axles. They economically complement existing K25 H vehicles to create self-propelled transport units. Their benefit is not simply the low and robust construction but also the sophisticated steering technology. In particular operators of non-propelled K25 H fleets appreciate the SP and SPE models which can be easily coupled with the trailer variants. This allows them to compose self-propelled combinations for on-site transportation, thus opening up new fields of business.

**ALL COMPARATIVE DATA ARE IN REFERENCE TO A K2506 H**

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<tr>
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<th>SL 3.2</th>
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<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Oil volume in the</td>
<td>l</td>
<td>220</td>
<td>75</td>
<td>220</td>
<td>220</td>
<td>75</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>vehicle</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Steering</td>
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<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Steering angle</td>
<td>°</td>
<td>±60</td>
<td>±60</td>
<td>±60</td>
<td>±60</td>
<td>±60</td>
<td>±60</td>
<td>±60</td>
</tr>
</tbody>
</table>
SCHEUERLE InterCombi SP and SPE vehicles are available with three, four or six axles. They economically complement existing InterCombi vehicles to create self-propelled transport units. Their benefit is not simply the low and robust construction but also the sophisticated steering technology. In particular operators of non-propelled InterCombi fleets appreciate the SP and SPE models which can be easily coupled with the trailer variants. This allows them to compose self-propelled combinations for on-site transportation, thus opening up new fields of business.

The MHD SPE by NICOLAS with hydrostatic drive is available with 4, 6 and 8 axles. The PowerPack driving units PP 410 and PP 215 provide the energy for the hydrostatically driven and electronically steered transporter. They ideally complement existing MHD platform trailers to create.

**ALL COMPARATIVE DATA ARE IN REFERENCE TO A IC 4-AXLE MODULE**

<table>
<thead>
<tr>
<th></th>
<th>S0/S10</th>
<th>S1</th>
<th>ES (S17)</th>
<th>SP (S0/S10)</th>
<th>SPE (S0/S10)</th>
<th>PB (S0/S10)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Axle load kg</td>
<td>36,000</td>
<td>36,000</td>
<td>45,000</td>
<td>36,000 / 45,000</td>
<td>40,000 / 45,000</td>
<td>36,000 / 45,000</td>
</tr>
<tr>
<td>Dead weight kg</td>
<td>13,300/13,450</td>
<td>13,400</td>
<td>13,400</td>
<td>13,700 / 13,800</td>
<td>16,300 / 16,500</td>
<td>14,700 / 14,800</td>
</tr>
<tr>
<td>Payload kg</td>
<td>144,000/166,550</td>
<td>130,600</td>
<td>166,550</td>
<td>130,300 /166,200</td>
<td>143,700 / 163,500</td>
<td>129,300 / 165,200</td>
</tr>
<tr>
<td>Total weight kg</td>
<td>157,300/180,000</td>
<td>144,000</td>
<td>179,950</td>
<td>144,000 /180,000</td>
<td>160,000 / 180,000</td>
<td>144,000 / 180,000</td>
</tr>
<tr>
<td>Platform height mm</td>
<td>865</td>
<td>945</td>
<td>865</td>
<td>865</td>
<td>920</td>
<td>865</td>
</tr>
<tr>
<td>Platform height in</td>
<td>1,190</td>
<td>1,270</td>
<td>1,190</td>
<td>1,190</td>
<td>1,220</td>
<td>1,190</td>
</tr>
<tr>
<td>drive position</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Axle compensation mm</td>
<td>± 325</td>
<td>± 325</td>
<td>± 325</td>
<td>± 325</td>
<td>± 325</td>
<td>± 325</td>
</tr>
<tr>
<td>Total lifting mm</td>
<td>650</td>
<td>650</td>
<td>650</td>
<td>650</td>
<td>650</td>
<td>650</td>
</tr>
<tr>
<td>Length mm</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
<td>6,000</td>
</tr>
<tr>
<td>Width mm</td>
<td>3,000</td>
<td>3,100</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
<td>3,000</td>
</tr>
<tr>
<td>Axial distance mm</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
<td>1,500</td>
</tr>
<tr>
<td>Tire size</td>
<td>215/75 R175</td>
<td>235/75 R175</td>
<td>215/75 R175</td>
<td>215/75 R175</td>
<td>215/75 R175</td>
<td>215/75 R175</td>
</tr>
<tr>
<td>Number of tires / AL</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>Steering angle °</td>
<td>± 60</td>
<td>± 60</td>
<td>± 60</td>
<td>± 60</td>
<td>± 140</td>
<td>± 60</td>
</tr>
</tbody>
</table>
1. As a push truck 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.

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.

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

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.

The PPU can be placed at the rear as well as on top of the vehicle.

The rear-mounted PPU can be adjusted for uneven surfaces.
AREAS OF USE
/ On-site, on public roads, around the world

PAYLOAD
/ Unlimited due to modular vehicle concept

VEHICLE TYPES
/ SCHEUERLE-KAMAG K25 H PB
/ SCHEUERLE InterCombi PB
/ SCHEUERLE WideCombi PB
/ KAMAG PTL OffroadTrailer PB
/ SCHEUERLE HighwayGiant PB

ADVANTAGES
/ PB vehicles can be towed at up to 50 mph
/ At the destination, they can be remotely maneuvered as a self-propelled vehicle
/ Additional power in drive mode can do without a second tractor unit
/ PB vehicle modules can be coupled in a trailer combination
/ Extra traction on any terrain with the OffroadTrailer PB
The MHD SPE by NICOLAS with hydrostatic drive is available with 4, 6 and 8 axles. The PowerPack driving units PP 410 and PP 215 provide the energy for the hydrostatically driven and electronically steered transporter. They ideally complement existing MHD platform trailers to create self-propelled transport units. Their benefit is not simply the low and robust construction but also the sophisticated steering technology. An axle load of 45 tons makes the NICOLAS MHD a robust allrounder used around the world, primarily in the energy sector.

Vehicle dimensions

<table>
<thead>
<tr>
<th>Axle load</th>
<th>PPU</th>
<th>Vehicle dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>3,000</td>
<td>45 t</td>
<td>775 / 1,550</td>
</tr>
<tr>
<td>2,990 / 2,620 mm</td>
<td>855 / 775 mm</td>
<td>3,340 mm</td>
</tr>
<tr>
<td>215/75 R17.5</td>
<td>PP 410 / PP 215</td>
<td>PP 410 / PP 215</td>
</tr>
</tbody>
</table>

Accessories

- Platform (extendable)
- Beam (extendable)
- High-performance beam and swivel bolster
- Adapter for wind towers
- Swivel bolster
The NICOLAS Modular Lift Master is a modular self-propelled vehicle with a built-in drive unit. With an axle load of 45 tons, a loading height of 630 mm and optional electric drive, the vehicle is "at home" around the operations and the dismantling of nuclear installations as well as in handling radioactive waste - and can also be used in fields such as the aerospace industry and in plant engineering. Available with 2, 4 and 6 axles with a steering angle of ± 95°, the vehicles can be used individually or coupled. The NICOLAS Modular Lift Master is available with solid tires for process reliability in closed spaces.

Vehicle dimensions

Axle load

45 t
Shipyard transporters of the TII Group can be used in a modular way. By combining several vehicles, enormous loads can be transported. The precise steering response and powerful lifting hydraulics make the SHT by SCHEUERLE an indispensable element of economical and functional logistics in the shipbuilding industry. A steering angle of 165° in both directions makes shipyard transporters of the TII Group very maneuverable even where space is limited. This is particularly important when several vehicles are combined.

**AREAS OF USE**

/ Shipyards

**PAYLOAD**

/ 124 - 1,000 t – greater loads technically feasible

**STANDARD MODELS**

/ 4 to 32 axles
/ Platform length up to 25.5 m
/ Platform width up to 10 m
/ Larger vehicles and special designs technically feasible at any time

**ADVANTAGES**

/ Robust vehicle design
/ Extremely maneuverable due to ± 165° steering angle
/ Proven SCHEURLE pendulum axle technology
/ Electronic steering
/ Wide range of optional safety and comfort features
SELF-PROPELLED

COUPLING CAPABILITY

VEHICLES OF THE TII GROUP IN COMBINATION

<table>
<thead>
<tr>
<th>SCHEUERLE SPMT</th>
<th>KAMAG K24</th>
<th>SCHEUERLE InterCombi SP/SPE</th>
<th>SCHEUERLE-KAMAG K25 H SP/SPE</th>
<th>SCHEUERLE InterCombi PB</th>
<th>SCHEUERLE-KAMAG K25 H PB</th>
<th>SCHEUERLE SHT</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓</td>
<td>✓</td>
<td>(from SPMT G5)</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>(from SPMT G5)</td>
<td>✓</td>
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</tr>
</tbody>
</table>

Exploiting synergies

Customers of the TII Group benefit from synergies within the product portfolio – even across different model ranges. For instance, SPMT have already been successfully coupled with shipyard transporters or SCHEUERLE InterCombi platform trailers with SCHEUERLE SPMT. Even combinations not originally intended can often be realized by technical adjustment on a case-by-case basis. In these instances, engineers of the TII Group will advise the customer on-site and develop a technical solution for the mechanical, hydraulic and electronic coupling of the desired vehicle combination.
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
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.
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
SERVICE OFFERED BY THE TII GROUP
LIFELONG PARTNERSHIP

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
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
SCHEUERLE
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Clothilde Chapotin
clothilde.chapotin@nicolas.fr

KAMAG
bewerbung@kamag.com