



[InterCombi SPE

- the self-propelled, electronically steered heavy load combination

Turn mass into motion!

InterCombi SPE

(self-propelled, electronically steered)



Low, wide and strong - the IC SPE range for transportation of plant construction modules.

IC SPE – deep, wide, strong & electronically steered

Three metres wide, lowerable down to 920 millimetres and equipped with twin-tyres – these are the features of the new IC SPE heavy load range from SCHEUERLE. The hydrostatically-driven combination vehicle is available in four or six-axle versions. The PowerPackUnit provides the energy for the hydrostatically propelled and electronically steered transporter. Different driving modes can be carried out with the steering programs: All-wheel steering along and cross, diagonal steering along and cross, front-wheel steering, rear-wheel steering and circle steering.

The “tractor unit” for the InterCombi

Naturally, the IC SPE can also be coupled with platform trailers from the InterCombi programme. Same height, same width,

same coupling equipment – the IC SPE is the cost-effective addition in order to be able to create self-propelling transport units with available InterCombi platform trailers.





IC SPE – Advantages

- lower construction, extremely loadable and reliable
- optionally, also available with 45 tons axle load
- wide wheel track for high stability
- self-developed control technology, functional and dependable
- axle compensation +350/-300 mm
- steering angle +/- 140 degree
- the experience gained from the development, production and practical use of more than 5,000 axle lines of driven heavy load combinations
- can be combined without any restrictions to the world's largest electronically-steered fleet of vehicles
- international network for sales, service and after-sales



InterCombi SPE

- experience from developing more than 5,000 axle lines of electronically steered units

SCHEUERLE Control Technology

The new self-propelled InterCombi SPE platform modular transporter series is equipped with the approved SCHEUERLE control technology. This technology covers all further developments in the vehicle sector and guarantees compatibility to the SPMT modular transporter generation. With this, SCHEUERLE offers reliable control technology for the special requirements in heavy load transportation which synchronizes all functions between individual vehicle units. In fix coupling mode, a transporter unit is defined as the so-called "Master Unit". All other transporter units - regardless of how many are in the fix coupling mode -

receive their corresponding control commands for steering system, drive system, brake etc. from this Master.



Vehicle combination in fixed coupling mode or loose coupling mode



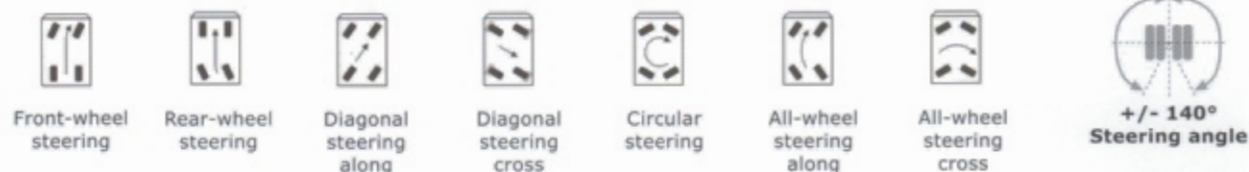
RC = Remote Control MU = Master Unit I = Spacer

Coupling by means of coupling elements (spacers) or using only a data link up to an areal of 600m x 600 m.

Vehicle combinations



Steering modes



The IC SPE modular construction kit



Technical Data

Axles	Combinations (examples)	Total weight	Payload max.*	Tractive force	Gradient
4		160 t	144 t	320 kN	16 %
6		240 t	216 t	320 kN	10 %
14		560 t	504 t	960 kN	14 %
20		800 t	720 t	1280 kN	12.8 %
30		1200 t	1080 t	1920 kN	12.9 %
40		1600 t	1440 t	2560 kN	12.9 %
48		1920 t	1728 t	2880 kN	11.9 %

Data based on the following figures:
Speed 1 km/h - Rolling resistance 0.03

4-axle module Type PEKZ 140.8.4 - 3000
 6-axle module Type PEKZ 210.12.4 - 3000

Dead weight ≤ 16,5 t
Dead weight ≤ 24,2 t

* Payload in each case minus the weight of the PowerPackUnit (PPU = 2340 7.2 t).

PEKZ 140.8.4 - 3000*					PEKZ 210.12.4 - 3000*			
Reference speed	15 km/h	10 km/h	5 km/h	1 km/h	15 km/h	10 km/h	5 km/h	1 km/h
Perm. total weight approx. kg	108,000	116,000	136,000	160,000	162,000	174,000	204,000	240,000
Perm. axle load approx. kg	27,000	29,000	34,000	40,000	27,000	29,000	34,000	40,000
Pendulum axles in total	8	8	8	8	12	12	12	12
Pendulum axles with drive	4	4	4	4	4	4	4	4
Pendulum axles with brake	4	4	4	4	8	8	8	8
No. of wheels 215/75 R 17.5	32	32	32	32	48	48	48	48

* Optionally, also available with 45 tons axle load.

Details

Strong connections



Connection of hydraulics and electronics through quick-release couplers



Centering actuator for raising and lowering of the PowerPackUnit



Hydraulic locking cylinder

Precise control operations



Cable remote control



Radio control



Functional control panel

Powerful drive system



PowerPackUnit provides power for drive, lift and steering



Hydrostatic wheel drive in the twin-tyred pendulum axles



Drive and brake axles proved and tested countless times over

InterCombi series – mobile with the IC SPE

The IC SPE can be coupled with heavy load trailer combinations of the InterCombi series. If the IC SPE is used in a vehicle group

with mechanically-steered InterCombi units, the steering can be adapted according to the possibilities available within the trailer units.



SPMT – the benchmark for self-propelled heavy duty modules



The technology of the IC SPE is based on the experience gained by SCHEUERLE through the development and production of over 5,000 axle lines in the SPMT series. Loads weighing more than 15,000 tonnes have already been transported using SPMT heavy load combinations from SCHEUERLE.



Combinable

- with the worldwide largest electronically steered modular transporter fleet



Connection adapter for SPMT with IC SPE/InterCombi



Combination of SPMT and InterCombi units in loose coupling mode

No matter if "side-by-side" or "end-to-end" coupling, in loose or fix coupling mode, the versatility of compatibility of SCHEUERLE vehicles knows no boundaries: The PPU's (PowerPackUnit) can for example be connected

with only one data line and controlled with only one operation panel. Coupled "side-by-side", it can be operated with only one PowerPackUnit.

Vision becomes reality: the worldwide biggest fleet is emerging



*"The power of combined forces". Combination versatility shown at the BAUMA fair 2010:
"side-by-side" coupling of K25 SP to InterCombi SPE and K25 to InterCombi
"end-to-end" coupling of K25 SP to K25 and InterCombi SPE to InterCombi*

Expertise

- SCHEUERLE at a glance

The history of heavy-duty transporters across the world is closely connected with the name of SCHEUERLE. The SCHEUERLE Fahrzeugfabrik GmbH has its origins in a forge founded by Christian Scheuerle in 1869. His grandson, Willy Scheuerle, began the development of heavy-duty transportation vehicles in 1937. Willy's innovative ideas have inspired the entire industry and revolutionized the transport of the heaviest loads in many sectors of industry. Thus, heavy-duty vehicles from SCHEUERLE are used in shipyards, the offshore industry, iron and steel plants, for bridge and tunnel construction, in the air and space industries as well as road haulage around the world.

Since 1987, SCHEUERLE Fahrzeugfabrik GmbH has been part of the TII Group (Transporter Industry International) belonging to the German industrialist, Otto Rettenmaier.



Examples taken from our programme



Offshore/Plant Construction



Shipyard Industry



Road Transport



Special Application



Air and Space Industries



Road/Industry



Metallurgy



Automated Guided Vehicle



Bridge and Tunnel Construction



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