



**PAUS**  
*...the people who care*

**MINING AND  
TUNNELING**

UTILITY VEHICLES  
DUMP TRUCKS  
LHD LOADERS  
SCALER  
GRADER  
OTHERS

TECHNOLOGY –  
MADE FOR MINERS!

MINING AND TUNNELING | CONSTRUCTION MACHINES | LIFTTECH





## PAUS OFFERS

WHAT YOU NEED IN YOUR DAILY OPERATIONS:

- Reliability and durability in every situation
- Sufficient performance and power for every application
- Agility and speed even in narrow space
- Longevity, reliability and excellent quality
- Support in every situation

### A family business with a sense of seeing the point

Paus means efficiency, quality and sustainability paired with a grounding in proven engineering tradition. As a family business, we develop construction machines, mobile equipment for Mining & Tunneling and lift technology at our home in Emsbüren, Germany.

Our goal: Your success! The variety of our solutions will enable you to even meet your toughest challenges.





# WE PROVIDE SOLUTIONS

## THAT ARE AS UNIQUE AS YOUR REQUIREMENTS

As "the people who care" we are in close and constant contact with our customers to understand their needs and always to deliver a solution that best suits their individual applications.

All our mining and tunneling machines are "Made for mining" and characterized by the high "Quality made in Germany".

The wide portfolio, the variety of options, and the customized features available along with our machines will provide the basis for almost every task - doesn't matter how individual the solution needs to be.

All Paus vehicles and machines for Mining & Tunneling are explicitly designed and built for the challenging operating conditions underground. The UNI and MinCa series are just examples of our transport and production solutions. They are designed as platform vehicles and are available with fixed superstructures. The UNI 50 series also features a carrier system. With the carrier system, it is possible to change between a wide choice of cassettes for different tasks and providing the basis of the

most economical fleet configuration for the operations.

Paus also offers a wide range of loaders, dumpers, service vehicles, elevating platforms vehicles, scalers, road maintenance equipment, and others.

Besides the continuous improvement of the products and enhancement of the available technologies, PAUS is also offering forward-looking solutions like even BEV, IoT interfaces, remote and teleoperation, new safety features, and many more.

With our global network, direct OEM service support from Germany, individual training programs, our online catalogs our digital support and the PAUS CONNECT we are close to our clients at any place in the world... the people who care!



# SOLUTION SCOUT



	Material and production logistics										Fleet service		Concrete works		Explosive works			Gallery maintenance			Mine safety			Multi cassette trucks				
	Material handling truck	Tank truck	Crane truck	Loaders	Dump truck	All purpose vehicle	Rock breakers	Water cannons	Roadheader	Passenger transport	Fuel and lube truck	Mobile workshops	Tire handler	Concrete sprayers	Concrete mixers	Explosive chargers	Explosive transporters	"Hang-up" Handler	Roadway	Rail vehicles	Scaler	Working platforms	Fire fighting truck	Ambulance	Mine rescue vehicle	Multi cassette trucks	Flameproof vehicles	Electric and Battery solutions
PFL 8				x															x							x		(x)
PFL 10				x															x							x		(x)
PFL 20				x															x							x	x	(x)
PFL 30				x															x							x	x	(x)
TSL 853 (T7)	x		x			x										x						x				x		
PScale 8-T																					x							
PScale 10-T																					x							
Uni 50 series	x	x	x		x			x		x	x	x	x	x	x	x						x	x			x	x	(x)
UNI 40 series	x	x	x					x		x	x	x		x	x	x						x				x		(x)
Grader PG 10 HA																			x									
MinCa 18 A Series	x	x	x							x	x					x	x					x	x	x		x	x	(x)
MRV 9000*																							x		x			
MinCa 5.1 Series	x																											(x)
PGB 450*																												
PGB 1700*																												
PMK 8000-Series					x									x	x												x	
PMK 10000-Series					x									x	x												x	
PMK 12000-Series					x									x	x												x	
PSF 200*																				x								
KRF 40																												
KRF 40.10			x																									
PTM 100																												
853 HH8																												

Further solutions, variants and configurations on request (x) special equipment  
 \*Product not shown in this brochure

# UNI 50-SERIES

## THE KING OF VERSATILITY

- The UNI 50 is a universally deployable, articulated-steered carrier for all tasks in underground mining. The UNI 50 series features a standard load capacity of 8 to 16 tons with an engine output of up to 173 kW.
- The variants of the UNI 50 series differ from the individual carriers and configurations in terms of their engines and exhaust emission levels, the design of the chassis, and the payloads and are adapted to the individual requirements.
- The rugged and compact design proves its value thanks to its low turning radius and demonstrates this advantage on narrow and twisting tunnel runs.
- The bodies are available as fixed superstructures or as carrier systems. With the carrier system, the carrier can be quickly and easily converted to various cassettes e.g. equipped with superstructures such as for tank trucks, service units, working platforms, and many more.

### HIGHLIGHTS:

Carrier with spacious cab and fixed or interchangeable platform

High carrying load capacities

Large number of configuration options

Robust, articulated chassis with hydrostatic or hydrodynamic all-wheel drive

Low investment costs with a variety of application options



# UNI 50-SERIES

## TECHNICAL DATA

KEY DATA*	UNI 50-2	UNI 50-3	UNI 50-4	UNI 50-5
Payload	Up to 8 t	Up to 10 t	Up to 15 t	Up to 16 t
Engine Variants	Caterpillar, Cummins, Deutz, Mercedes Benz different exhaust stages available			
Engine Power	Up to 93 kW	Up to 129 kW	Up to 129 kW	Up to 173 kW
Chassis	Articulated-steered chassis			
Width	1 900 mm	1 900 mm	2 100 mm	2 300 mm
Height	2 260 mm	2 260 mm	2 420 mm	2 500 mm

Further solutions, variants and configurations on request.

\*depending on selected configuration





## UNI 40-SERIES

### THE COMPACT MULTITALENT

- The UNI 40 is a universally deployable, articulated steered carrier vehicle, just like its big brother, the UNI 50. However, it is optimized in its design for working in most narrow applications. The Paus UNI 40 series has a standard payload of 7 t with an engine output of up to 93 kW.
- The UNI 40 comes with a wide choice of configurations and optional equipment.
- The rugged and compact carrier has a turning radius of just 3 400 mm and is therefore perfectly suited for most narrow galleries.
- The operator can choose between fixed and interchangeable superstructures. The flexible carrier system allows a quick and easy exchange of cassettes for various applications - e.g. equipped with superstructures such as for concrete and explosive transport, material handling, working platforms, and many more.

#### HIGHLIGHTS:

**Compact vehicle dimensions**

**Flexible thanks to various fixed or interchangeable superstructures**

**Low initial investment costs for fleet development – quick carrier system can be retrofitted**

**High productivity – high speeds in narrow routes**

**Comprehensive, selectable supplementary equipment**



## UNI 40-SERIES

### TECHNICAL DATA

KEY DATA*	UNI 40
Payload	Up to 7 t
Engine	Deutz, different exhaust stages available
Engine Power	Up to 93 kW
Chassis	Articulated-steered chassis
Width	approx. 1 750 mm
Height	approx. 2 110 mm

Further solutions and configurations on request.

\*depending on selected configuration



## MinCa 18 A-Series

### THE COMFORTABLE ONE

- The MinCa is a special and most durable mine carrier available with a variety of superstructures for your personnel and material transportation tasks underground.
- The MinCa 18 A impresses with its unique payload of up to 4 t at most compact dimensions, high performance, and low emissions engine setups.
- The best front and rear axle, spring, and shock absorber suspension system in the underground mining equipment market gives not only operator and passengers high safety and comfort, but also a fast-driving performance on rough terrain.
- Standard and customized superstructures are for a wide range of applications available.

#### HIGHLIGHTS:

High comfort front and rear axle suspension concept

Robust vehicle engineering developed for underground applications

Low operation and maintenance costs

High performance, hydrostatic drive line system

Extremely long service life



## MinCa 18 A-Series

### TECHNICAL DATA

KEY DATA*	MinCa 18 A
Payload	Up to 4 t
Engine Variants	Deutz, different exhaust stages available
Engine Power	Up to 95 kW
Chassis	Chassis with lead frame, steering axle at the front, suspended front and rear axle via coil springs with shock absorber
Width	approx. 2 020 mm
Height	approx. 2 140 mm

Further solutions and configurations on request.  
\*depending on selected configuration



## MinCa 5.1-Series

### THE DURABLE ONE

- The MinCa 5.1 is the most durable and most compact mine carrier designed for daily tasks in underground mining.
- Available configurations with single cab for driver and co-driver or dual cab for up to three additional passengers.
- The compact carrier design impresses with a payload of up to 1.2 t for the single as well as the dual cab configurations.
- The MinCa fleet is equipped with the best front and rear axle, spring, and shock absorber suspension system in the underground mining equipment market. The MinCa not only gives operator and passengers high safety and comfort, but also fast driving performance on uneven rough terrain.

#### HIGHLIGHTS:

Full shock absorber suspension system for higher safety and better performance

High performance, hydrostatic drive line system

Low life cycle costs due to full suspension system

Spacious and comfortable driver's cabin

High sustainability (no "plastics")



## MinCa 5.1-Series

### TECHNICAL DATA

KEY DATA*	MinCA 5.1
Payload	1.2 t
Engine Variants	Deutz, different exhaust stages available
Engine Power	Up to 74.9 kW
Chassis	Self-supporting body, front steering axle, spring-suspended front and rear axle, with shock absorber
Width	approx. 2 060 mm
Height	approx. 1 950 mm

Further solutions and configurations on request.  
\*depending on selected configuration





## TSL 853-Series

### THE „SWISS-KNIFE“

- The TSL 853 telescopic-swivel loader, specially manufactured for tough conditions in mining and tunneling, sets standards in terms of reliability and multi-functionality.
- The numerous optional attachments and equipment available with the machine make it an unmatched solution in terms of versatility and applicability for almost every task.
- The combination of articulated steering ( $\pm 40^\circ$ ) and the telescoping swiveling boom ( $\pm 90^\circ$ ) provides incomparable mobility.
- The hydrostatic drive complements the fast and reliable maneuverability of the machine in most narrow conditions.

#### HIGHLIGHTS:

**Quick interchangeable plate with automatic interlock**

**Tool carrier for a wide variety of applications**

**Optional: machine driveability from the working platform (T7)**

**Robust chassis with articulated steering and hydrostatic all-wheel drive**

**Low investment costs with a variety of application options**



## TSL 853-Series

### TECHNICAL DATA

KEY DATA*	TSL 853
Payload	2.6 t
Operating Weight	8.1 t
Engine Variants	Deutz, different exhaust stages available
Engine Power	Up to 75 kW
Chassis	Articulated steering
Width	approx. 1 900 mm
Height	approx. 2 250/ 2 485 mm

Further solutions and configurations on request.  
\*depending on selected configuration





## GRADER

### THE RIGOROUS ONE

- The Paus PG 10 HA is made for precise and economic gallery maintenance in underground mines.
- With its compact dimensions combined with articulated steering and additional front axle steering the PG 10 HA is the perfect solution for narrow conditions.
- The excellent visibility allows faster finishing of the works by saving overall costs not just for the maintenance but to keep your fleet on track.
- The machine comes with the most powerful engine setup - also available with the latest exhaust stages - and additional optional equipment to fulfill the individual requirements of the sites.

#### HIGHLIGHTS:

- High maneuverability in confined spaces
- High tractive force for exact grading results
- Excellent visibility
- Low operating costs thanks to deliberate design
- High precision as a result of easy operation



## GRADER

### TECHNICAL DATA

KEY DATA*	PG 10 HA
Operating Weight	11.5 t
Engine Variants	Deutz, Cummins different exhaust stages available
Engine Power	Up to 127 kW
Width	2 350 mm
Height	2 225 mm

\*depending on selected configuration



## PScale-Series

### THE SENSITIVE ONE

- Paus offers for maximum scaling success the PAUS PScale 8-T and PAUS PScale 10-T.
- The 20° tiltable cabin ensures fatigue-free working, the sensitive and precise control increases efficiency with perfect mining results.
- Fast and reliable change of working locations in mines is ensured by the hydrostatic drive.
- Substantial safety features complete the performance spectrum of the PScale.

#### HIGHLIGHTS:

Highest degree of safety for scaling work

Compact scaler vehicle with very high working range

Robust chassis with articulated steering and hydrostatic all-wheel drive

Can be operated by „remote“

Low investment costs



## PScale-Series

### TECHNICAL DATA

KEY DATA	PScale 8-T	PScale 10-T
Working height	8 m	10 m
Equipment	300 kg hydraulic hammer and front push blade	300 kg hydraulic hammer and front push blade
Engine Variants	CAT C4.4, different exhaust stages available	CAT C4.4, DEUTZ TCD 2012/ TCD 4.1, different exhaust stages available
Engine Power	Up to 105 kW	Up to 105 kW
Operating Weight	10 t	16 t
Width	1 925 mm	2 400 mm
Height	2 500 mm	2 700 mm





## PFL-Series

### THE PRODUCTIVE ONE

- The PFL series is designed for narrow underground applications in challenging conditions.
- The economic machine concept offers excellent efficiency, productivity, performance, and longevity for a variety of tasks.
- The LHD loaders of the PFL series achieve the highest breakout forces and fastest bucket-filling times for low production costs per transported ton.
- The side-seated operator 's cabin with front access offers a high level of comfort and safety.

#### HIGHLIGHTS:

**High breakout forces – the highest in its class**

**High efficiency thanks to high-performance drive line technology**

**High productivity due to low costs per metric ton**

**Convenient and intuitive control functions**

**High availability due to easy and fast maintenance**



## PFL-Series

### TECHNICAL DATA

KEY DATA	PFL 8	PFL 10	PFL 20	PFL 30
Payload	1.5 t	2.7 t	4 t	6 t
Bucket	0.8 m <sup>3</sup>	1.3 m <sup>3</sup>	2.0 m <sup>3</sup>	3.0 m <sup>3</sup>
Breakout Force	Up to 40 kN	Up to 50 kN	Up to 85 kN	Up to 110 kN
Engine Variants	Deutz, different exhaust stages available	Deutz, Cummins, different exhaust stages available		
Engine Power	69 kW	84 kW	123 kW	150 kW
Chassis	Articulated steering, center oscillation	Articulated steering with oscillating rear axle		
Width	approx. 1 200 mm	approx. 1 480 mm	approx. 1 600 mm	approx. 2 040 mm
Height	approx. 1 755 mm	approx. 1 900 mm	approx. 1 890 mm	approx. 2 280 mm



# PMK-Series

## THE EFFICIENT ONE

- Paus dump trucks are the ideal solution for comfortable, safe, and economical transport in underground mining over long distances with extreme gradients.
- With the Paus dump Trucks, short cycle times are ensured by the powerful driveline and the excellent maneuverability.
- The robust and compact design of the Paus dump trucks provides high durability and long service life.
- Safety, ease of operation, and maintenance are always key design criteria at Paus and are further complemented with the characteristics required for the highest productivity of the machines.

### HIGHLIGHTS:

- High productivity – compact dimensions with high payload**
- State-of-the-art and high performance engine technologies for efficient ramp operation at uphill gradients of up to 20%**
- Rotating driver's seat for long distances of driving backwards at high speeds (bidirectional)**
- Easy maintenance**
- Short cycle times – thanks to quick loading and discharging times**



# PMK-Series

## TECHNICAL DATA

KEY DATA*	PMK 8 000 series		PMK 10 000 series		PMK 12 000 series
Payload	16 t		22 t		27 t
Dump box volume heaped	8 m <sup>3</sup>		11.5 m <sup>3</sup>		14 m <sup>3</sup>
Engine Variants	Deutz, Cummins, Caterpillar, Mercedes Benz, different exhaust stages available		Deutz, Caterpillar, Mercedes Benz, different exhaust stages available		Deutz, Cummins, Caterpillar, Mercedes Benz, different exhaust stages available
Engine Power	Up to 190 kW		Up to 227 kW		Up to 280 kW
Chassis	Articulated steering, with oscillating front axle				
Drive Unit	Hydrodynamic drive, "full power shift"				
Width	<b>PMKM 8010</b>	<b>PMKM 8030</b>	<b>PMKT 10010</b>	<b>PMKM 10010</b>	<b>PMKM 12000</b>
	1 950 mm	2 400 mm	1 950 mm	2 160 mm	2 400 mm
Height	2 400 mm	2 380 mm	2 785 mm	2 450 mm	2 500 mm

Further solutions, variants and configurations on request.  
 \*depending on selected variants and configurations





## KRF 40-Series

### THE STRONG ONE

#### KRF 40

- The Paus KRF 40 has been specially designed for rail-mounted maintenance tasks at the track bed underground.
- With the sensitive control and the right tool, drainages and rails can be easily cleared.

#### KRF 40.10 CRANE

- The Paus KRF 40.10 equipped with a load hook and 10 t lifting capacity is ideal for the fast and safe re-railing of wagons and handling of other heavy goods next to the track.
- The telescopic boom provides the necessary flexibility for heavy lifting tasks at most narrow and rail-guided underground mines.

#### HIGHLIGHTS:

- Suspended running gear
- Heavy-duty mine-proofoen design
- Independent due to diesel drive
- Selection of booms and attachments
- Most compact dimensions



## KRF 40

### TECHNICAL DATA

KEY DATA	KRF 40	KRF 40.10
Operating Weight	12 t	20 t
Engine Variants	Deutz D914 L04	Deutz D914 L04
Engine Power	55 kW	55 kW
Chassis	Rigid frame with two spring loaded railroad wheelsets	Rigid frame with three spring loaded railroad wheelsets
Width	1 350 mm	1 430 mm
Height	1 675 mm	1 650 mm
Track gauge	750 - 900 mm	750 - 900 mm



## CUSTOMIZED SOLUTIONS THE SPECIAL ONES

### Machine and vehicle concepts for individual demands

The variety of customer requests has made PAUS an expert on special mobile equipment in the underground mining sector. The know-how of machinery and vehicle construction experts as well as close cooperation with customers worldwide allows the implementation of highly complex solutions. The concepts range from customized configurations of available designs to fully customized configurations, and the development of single solutions for all kinds of applications.

### PAUS can give you:

- More than 50 years of experience in machine building
- Quality “Made in Germany”
- Specialist for Mining & Tunneling applications since 1974
- Solutions developed and designed for underground
- Global Sales and Service network
- Strong customer focus, innovative strength, flexibility, and reliability are our key assets

### PAUS solutions ... as unique as your tasks



## ELECTRIC SOLUTIONS THE SUSTAINABLE AND ECONOMIC ONES

Already starting in the 1980s at PAUS we are offering a range of individual and electrified mine-made solutions along with our machines:

- Dump trucks connected with a trolley line
- Fully cable-bounded variants e.g. for the loaders
- Hybrid configurations with diesel engines and the cable operated units for explosive charging or concrete spraying
- Battery electric solutions with additional cable for the operation of the machine through an external power supply e.g. for scaling
- Battery electric vehicles (BEV) with fully electric drivelines as already available with our MinCa carriers and we are now offering them for all our machines

Depending on the requirements PAUS can offer individual solutions that suit best the requirements and infrastructures on-site.

Our latest BEV concept considers an ultra-durable and economical design with high-quality modular batteries for more than 10,000 loading cycles to meet the longevity of our carriers. In addition to that, we are following CCS charging interfaces (types 1 and 2) to be used with available standard infrastructure. Besides external charging machines can be also equipped with onboard chargers. In addition to that bigger machines can be offered with a swap system for the battery pack.

### Making your mine ready for the future!





# PAUS CONNECT

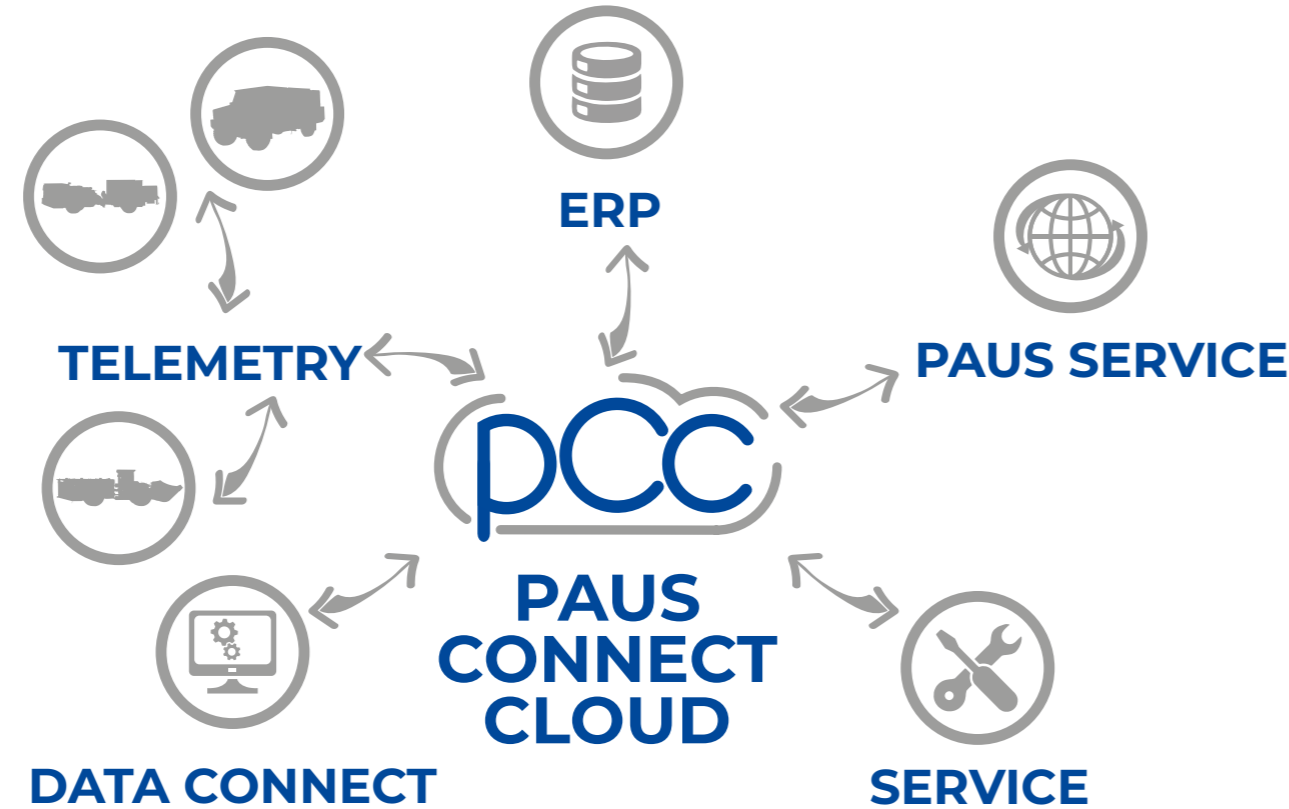
## THE DIGITALIZED ONES

### PAUS TELEMETRY FUNCTIONS:

- Wireless transmission of machine data
- Statistical analysis of operations
- Two-way communication
- Remote diagnosis/maintenance (support)
- Simple, intelligent user administration
- Customer-specific configuration
- Remote approval for machine operation
- Geofencing, monitoring of operating range, anti-theft protection
- Supplementary sensors
- Offline functionality
- IoT interface

### PAUS TELEMETRY PROPERTIES:

- Tried and tested system "Made in Germany"
- Can be connected to existing networks and systems
- Can be flexibly extended for future requirements
- Use on desktop and mobile devices



**CAPACITY FOR EXTENSION & INTEGRATION**  
Paus Connect is of a modular design and can therefore be easily integrated in nearly all common networks, or in ERP and telemetry systems.



**GEOFENCING**  
GPS, for example, can be used to monitor the specified operating range and to present it on a map. If the range is exceeded, information is sent by e-mail. Movements over the last 30 days are logged.



**CONNECTIVITY**  
Data is transmitted via existing WLAN and/or mobile networks. All machine data are cached in an onboard memory. As soon as the system can log on to a network again, the data collected offline are transmitted again.



**REAL TIME MONITORING**  
The current operating parameters can be called up online at any time.



**USER ADMINISTRATION**  
Simple, intelligent user administration. You decide who and what can be seen and analyzed in the system.

**STATISTICAL ANALYSIS OF OPERATIONS**

All configured operating parameters over the last 365 days are available for analysis. Many presentation and export options are available to give a compact overview or to make data available for extensive analysis. Paus delivers Paus Connect pre-configured. It can be adapted to your requirements at any time.

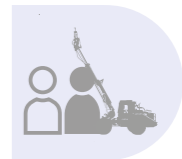
**ACCELERATION SENSORS**  
For machines without modern control units, the "activity monitoring" function enables the operating time to be logged.



**DIAGNOSIS MONITORING**  
Error messages, operating states etc. can be logged for individual analysis and service tasks.



**MACHINE OPERATION APPROVAL**  
Interesting (not only) for rental companies: you decide whether and when a machine can be used.



**RETROFITTING CAPABILITY**  
The functions "activity monitoring" and "geofencing" can be retrofitted to nearly all machines with Paus Connect, including other manufacturers' equipment, with 12 V or 24 V electrical systems. Other functions on request.



## SERVICE

THE ONES WHO TAKE CARE ABOUT YOUR FLEET

### CUSTOMER SERVICE



### SPARE PARTS AND CATALOGUE



### TRAININGS



### WARRANTIES



### SERVICE NETWORK



### CONTACT



### PAUS CONNECT



### PAUS QUICKSUPPORT



## WE ARE THERE, WHERE OUR CUSTOMERS ARE

### Maintenance and service:

Repairs and maintenance work are central points in customer service. Paus offers a comprehensive service program to its customers:

- Service on site or in the factory by technicians
- Service by our trained, regional service partners
- Support for customers with technical inquiries through our service consultant

### SPARE PARTS

We give high priority to the availability of Paus spare parts.

Besides maintenance and service parts, we offer our customers the possibility to purchase spare parts for engines, axles, gearboxes, etc. through us. Furthermore, maintenance and service packages can be called up from us. You are welcome to use our online spare parts catalog for this purpose.

This fast and uncomplicated service is guaranteed by our comprehensive concept of disposition, warehousing, and logistics. We maintain stock at the Paus central warehouse in Emsbüren for our customers at any time.

Please do not hesitate to contact us for a specific consultation, if necessary also at our dealer's on-site.







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**WE CARE**

As a specialist for complete and special solutions Paus offers an extensive range of machines for mining and tunneling, lift technology and construction machinery since 1968.

Paus means „Quality Made in Germany“.

Our quality management is certified according to ISO 9001.



**Your dealer:**

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