

MINING



UTILITY VEHICLES
DUMP TRUCKS
LHD LOADERS
SCALER
GRADER



UTILITY VEHICLES



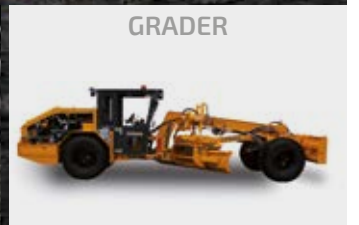
DUMP TRUCKS



LHD LOADERS



SCALER



GRADER

SAFETY · MAINTENANCE · EXPLOSIVES · TRANSPORT · PRODUCTION



SINCE 1968



...the people who care

FAMILY COMPANY WITH TRADITION



... since 1968

THE COMPANY

The requirements in mining and tunnel construction, especially those in underground mining, are highly diverse. Hermann Paus Maschinenfabrik has been developing and producing customised quality vehicle and machinery solutions for over 50 years.

Since the company was founded in 1968, lifting technology, construction equipment and industrial vehicles have continued to be produced with the same aim of always delivering the best solution for customers. In 2018, Paus celebrated its 50th anniversary. 50 years of „Paus.... the people who care“, which means fostering dialogue with industry insiders and customers. Only in this way can we inspire as the preferred, innovative partner with individual solutions for the transport and safety of people and materials.

„...THE PEOPLE WHO CARE“

By fulfilling the slogan „...the people who care“ Paus has gained an excellent reputation on national and international level in the respective industries. To continue to uphold this reputation, Paus works continuously to meet various customer requirements. The wide variety of extreme conditions in the underground mining industry makes it one of the most challenging industries. Paus is certified in accordance with ISO 9001 and builds individualised and customised mining and tunnel machines with the „Made in Germany“ commitment to quality.

Different vehicle solutions for individual purposes can be delivered on the basis of standard platforms. This means that the constant, high quality is already part of the manufacturing process.





PAUS ...THE PEOPLE WHO CARE

INDIVIDUAL

WE GIVE YOU A SOLUTION THAT IS AS UNIQUE AS YOUR REQUIREMENTS

All Paus underground vehicles are explicitly designed and built for underground mining and tunnelling. The Uni and MinCa series are examples of individual transport and production solutions. They are designed as platform vehicles and are available with a fixed superstructure or with a quick-change system. With the quick-change system it is possible – depending on the task – to change easily and quickly between different superstructures.

The MinCa 18 A is also an auxiliary vehicle. The range extends from configuration as a transporter for personnel or material, as a service or mine rescue vehicle to combinations of superstructures for special applications.

The smaller MinCa 5.1 is very well adapted to the rough conditions, not only for use in mining with narrow galleries. As an equipment version it can be configured as a passenger transporter for five miners and still has space and sufficient payload for the often heavy equipment. With its all-wheel drive, it is perfectly prepared for use on difficult road conditions. The MinCa 5.1, an extremely

robust auxiliary vehicle adapted to the challenging underground conditions, has a small turning radius and offers an increased level of safety with its oil-immersed multi-disc brakes and redundant braking system. A safe and reliable vehicle that is now also available as a battery-powered MinCa 5.1 E version.

All Paus vehicles are maintenance-friendly, safe, ergonomic and functional. At the same time, they offer an economic advantage due to their high availability and durability. They also meet international safety requirements for the use of mobile machinery in mining and can be individually supplemented with additional safety equipment. All vehicles are also in CE certified available.



SOLUTION SCOUT

Mining applications Paus vehicle solutions	EX-protected	Scaling	Concrete processing	Mine rescue	Lifting	Personnel transportation	Production machines	Service	Road maintenance	Charging and blasting	Track Maintenance
	Vehicles for gas endangered areas	Gallery Protection	Concrete transport vehicles	Rescue vehicles/ Ambulance vehicles/ Fire fighting vehicles	Vehicles with hoisting technology (scissor/boom with basket)	Passenger transport vehicles	LHD Loaders/ Dump Trucks	Service/Lube/ Fuel trucks	Dinting machines/ Grader/ concrete spraying	Loading and transporting vehicles for ANFO/Emulsion	Track and ditch cleaning machines
PFL 8							x				
PFL 10							x				
PFL 20							x				
PFL 30	x						x				
TSL 853 (T7)*		(x)			x					(x)	
853 S8		x									
1253 S10		x									
UNI 50 Series	x	x	x	(x)	x	x	x	x		x	
UNI 40 Series			x	(x)	x	x	x	x		(x)	
Grader PG 10 HA									x		
MinCa 18 A Series	x			x	x	x		x		x	
MRV 9000*				x							
MinCa 5.1 Series				(x)		x		x		(x)	
PGB 450*							x				
PGB 1700*							x				
PMKM/-T/-S 8000-Series			(x)				x				
PMKM/-T/-S 10000-Series	x		(x)				x				
PMKM/-T/-S 12000-Series			(x)				x				
PSF 200*									x		
KRF 40*											x

Further solutions, versions and configurations on request

(x) special equipment

*Product not shown in brochure

UNI 50-SERIES

THE KING OF VERSATILITY AMONG MINING VEHICLES

- The UNI 50 is a universally deployable, articulated-steered carrier for all tasks in underground mining. The UNI 50 series features as standard a load capacity of 8 to 15 tonnes with an engine output of up to 173 kW.
- The vehicle versions differ from the individual models in terms of their engines and exhaust emission levels, the design of the chassis, the payloads and are adapted to the individual requirements.
- The rugged and compact vehicle proves its value thanks to its low turning radius and exhibits this advantage on tight and curvy routes.
- The bodies are available as fixed superstructure or as flexible change system. With the last version, the carrier vehicle can be quickly and easily converted to various cassettes, such as tank superstructures, service superstructures or scissor lifts.

HIGHLIGHTS:

**EXCELLENT OPERATING
WEIGHT-PAYLOAD RATIO**

**POWER SHIFT WITH
POSISTOP BRAKES**

ROPS/FOPS DRIVER'S CAB

**SERVICE-FRIENDLY AND ROBUST
ENGINEERING**

SMALL TURNING RADIUS

**MULTI-VARIANT EQUIPMENT
OPTIONS**



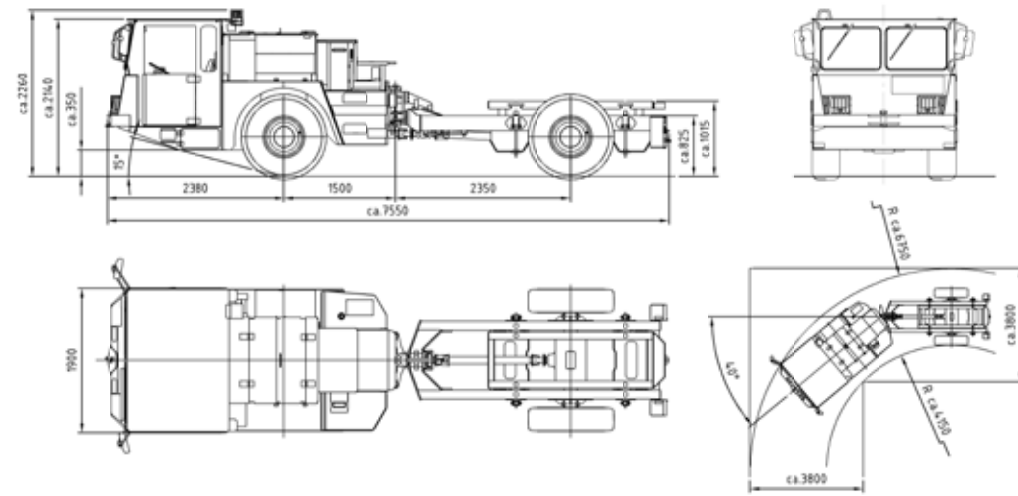
UNI 50-SERIES

TECHNICAL DATA:

	UNI 50-2	UNI 50-3	UNI 50-4
Payload	to 8 t	to 10 t	to 15 t
Operating Weight	8 t**	9 t**	10 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
Chassis	Articulated-steered chassis		
Drive Unit	Hydrodynamic drive with power shift		
Axles	Rigid planetary steering drive axles with oil-immersed multi-disk brakes		
Tires	12.00 x 20		12.00 x 24; 14.00 x 24
Speeds	Up to 25 km/h		
Gradeability	to max. 40%		
Environmental Temperature	-20°C up to +40°C		

Further solutions, versions and configurations on request.

**depending on selected version



*depending on construction the dimensions can vary



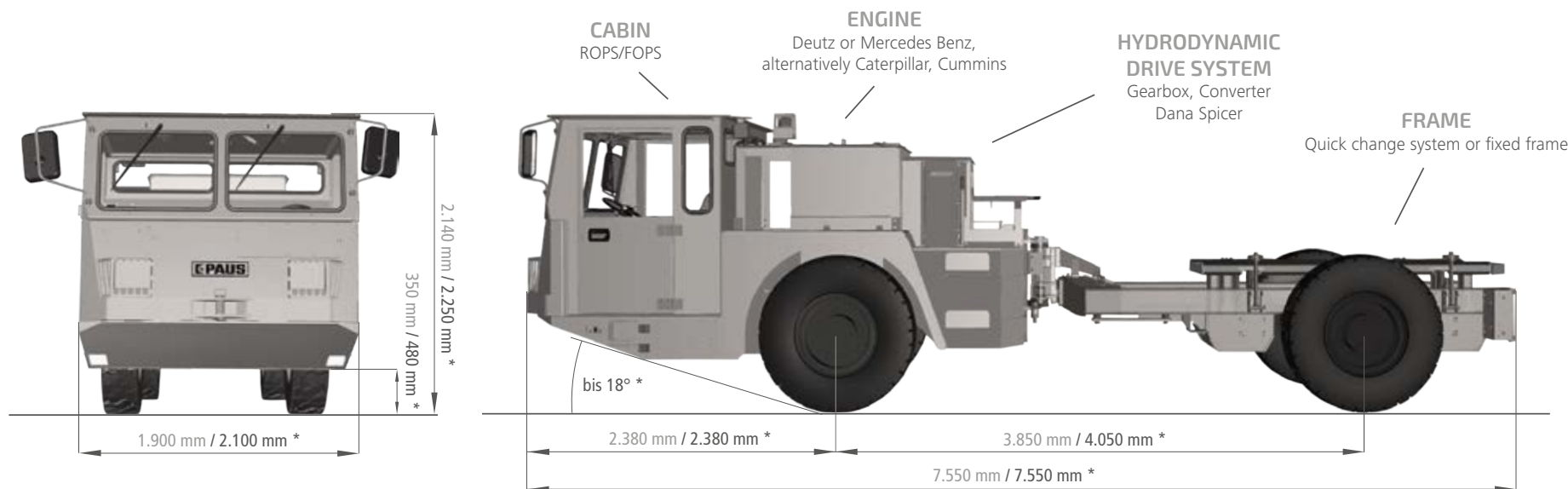
THE KING OF VERSATILITY AMONG MINING VEHICLES

UNI 50-SERIES

BASIC VEHICLE:

There is almost no application in underground mining for which the UNI 50 cannot be equipped as an articulated-steered carrier. Safety aspects as well as service-friendly accessibility of all important components are important design details.

All vehicles can be equipped with various engines. The robust and compact vehicle convinces through an intelligently defined concept, the flexibility of an exchange system of individual fixed superstructures, in each case considering application-specific customer requirements.





UNI 40-SERIES

- The UNI 40 is also a universally-deployable, articulated steered carrier vehicle, just like its big brother, the UNI 50. However, it is optimised in its design for working in narrow vein mines or for tunnel construction. The Paus UNI 40 series has a standard payload of 7 t with an engine output of up to 93 kW.
- The vehicle versions differ from each other in load capacity and can be equipped with various water-cooled engines.
- The rugged and compact vehicle has a turning radius of just 3300 mm and is therefore perfectly suited for the small galleries sizes in „narrow vein mining“ or for use in tunnel construction.
- The operator can choose between fixed and interchangeable bodies. The flexible exchange system allows a quick and easy exchange of cassettes for various applications such as service, concrete and explosives transport or lift technology.

HIGHLIGHTS:

**EXCELLENT OPERATING WEIGHT-
PAYLOAD RATIO**

HYDROSTATIC DRIVE

ROPS/FOPS DRIVER'S CAB

**SERVICE-FRIENDLY
DESIGN ENGINEERING**

NARROW TURNING RADIUS

**MULTI-VARIANT
EQUIPMENT OPTIONS**



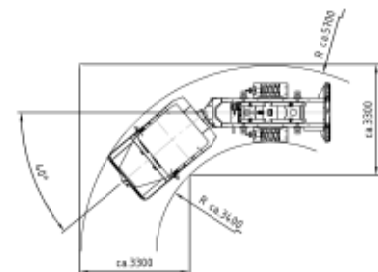
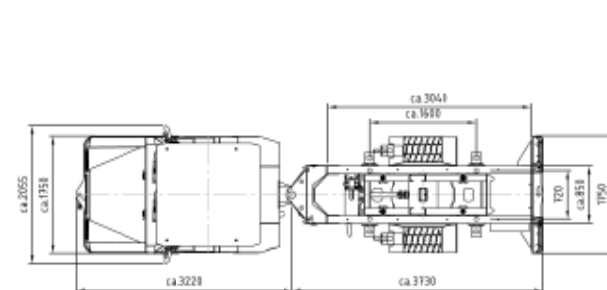
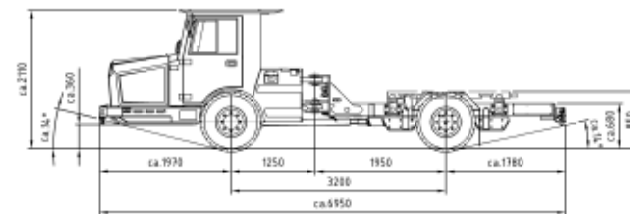
UNI 40-SERIES

TECHNICAL DATA:

	UNI 40
Payload	7 t
Operating Weight	5.5 t**
Engine	Deutz, different exhaust stages available
Engine Power	Up to 93 kW
Chassis	Articulated-steered chassis
Drive Unit	Hydrostatic Drive
Axles	Rigid planetary steering drive axles with oil-immersed multi-disk brakes
Tires	35 x 15-15
Speed	Up to 20 km/h
Gradeability	Up to max. 40%
Environmental Temperature	-20°C up to +40°C

Further solutions, versions and configurations on request.

**depending on selected version



MinCa 18 A- SERIES

- Thanks to its extraordinary longevity, the MinCa 18 A is the vehicle of choice in the mining industry throughout the world.
- The special configuration with compact design has already been proven over many years in mining.
- The basic platform offers space for many different superstructures.
- Proven concept for personnel and material transport, as well as for special operations with load capacities of up to 4.0 tonnes.

HIGHLIGHTS:

COMFORT: Spacious and enclosed ROPS/FOPS driver's cab with excellent all-around view

POWERFUL AND MANOEUVRABLE:

Robust full spring-suspended chassis with front-wheel steering, small turning radius and hydrostatic all-wheel drive up to 33 km/h

SERVICE-FRIENDLY: Optimal accessibility to the hydraulics, electrics, mechanics and engine

ILLUMINATED: LED lighting package, two work lights at back of the cab

OPERATOR FRIENDLY: Display for the analysis of important vehicle data as well as all status messages; additional display for diesel engine

FLEXIBLE: Attachments on fixed frame up to 4 to

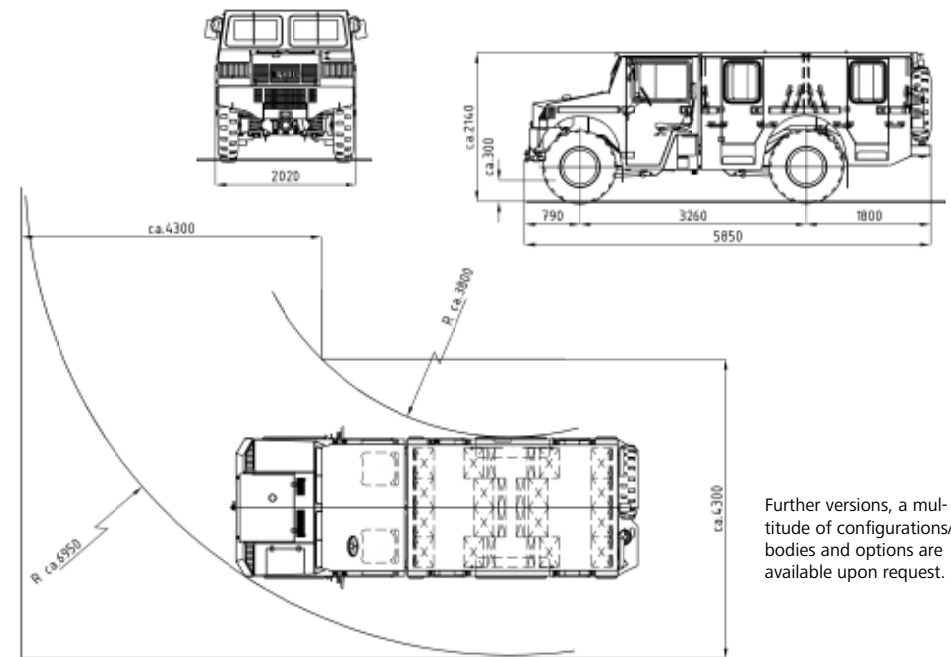


MinCa 18 A-SERIES

TECHNICAL DATA:

	MinCa 18 A
Payload	4 t
Operating Weight	5 t**, Carrier vehicle without rear attachment
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
Drive Unit	Hydrostatic Drive
Axles	Dana 212 (front) and 112 (rear)
Tires	9.00 x 20
Speeds	Up to 33 km/h
Gradeability	Max. 35%
Environmental Temperature	-20°C up to +40°C

**depending on selected version



Further versions, a multitude of configurations/bodies and options are available upon request.

MinCa 5.1-SERIES

- For our customers, the MinCa 5.1 series is the most popularly used light vehicle in underground mining.
- The robust construction has proven to work reliably in tough underground mining conditions.
- The basic design of the MinCa 5.1 is the ideal platform for diverse applications.
- Ergonomically designed control elements increase convenience and efficiency.
- The compact structure, specially designed for mining, minimized operating costs and maximized service life.
- The suspension is unmatched in the industry, like MinCa 18.

HIGHLIGHTS:

COMFORT: Spacious and enclosed ROPS/FOPS driver's cab featuring for up to 5 persons and excellent all-around view

POWERFUL AND MANOEUVRABLE:

Robust full spring-suspended chassis with front-wheel steering, small turning radius and hydrostatic all-wheel drive.

PRACTICAL: Optimal accessibility to the hydraulics, electrical system and engine components

VISUALISATION: Display for the analysis of important vehicle data as well as all status messages

FLEXIBLE: Available in a large number of configurations

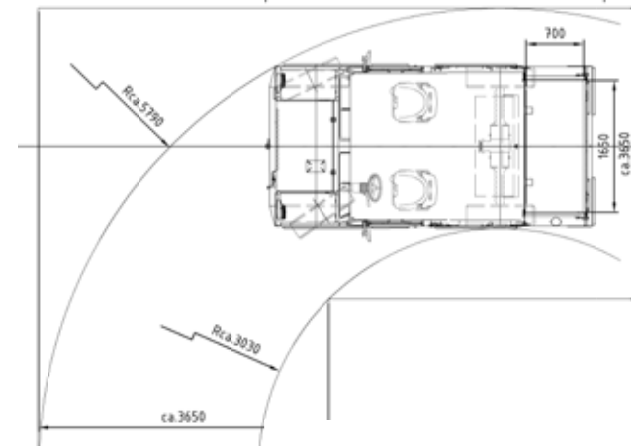
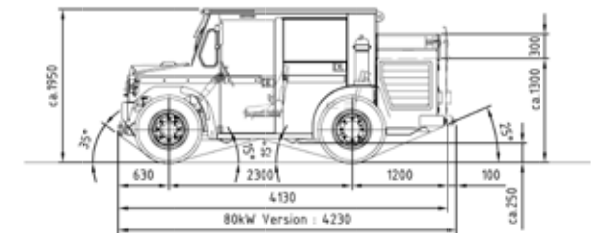
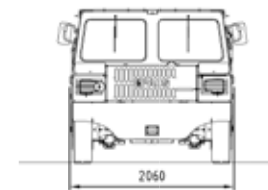


MinCa 5.1-SERIES

TECHNICAL DATA:

	MinCA 5.1
Payload	1.2 t
Operating Weight	4.2 t**
Engine Variants	Deutz, different exhaust stages available
Engine Power	Up to 80 kW
Chassis	Self-supporting body, front steering axle, spring suspended front and rear axle, with shock absorber
Drive Unit	Hydrostatic Drive
Axles	Dana 211 (front) and 111 (rear)
Tires	8.25 x 15
Speeds	Up to 30 km/h
Gradeability	Max. 35%
Environmental Temperature	-20°C up to +40°C

**depending on selected version



Further versions, a multitude of configurations/bodies and options are available upon request.



MinCa 5.1 E- SERIES

In addition to the advantages of the conventionally powered MinCa 5.1, the MinCa 5.1 E offers additional advantages:

- Low maintenance and servicing costs.
- The MinCa 5.1 E is emission-free.
- Exceptionally high gradeability performance.
- Perfect for a 8 hour shift.

HIGHLIGHTS:

COMFORT: Spacious, enclosed ROPS/FOPS driver's cab for the transport of 5 persons

POWERFUL AND MANOEUVRABLE:

Robust full spring-suspended chassis with front-wheel steering, small turning radius and hydrostatic all-wheel drive

PRACTICAL: Optimal accessibility to the hydraulics and electrical system

VISUALISATION: Display for the analysis of important vehicle data as well as all status messages

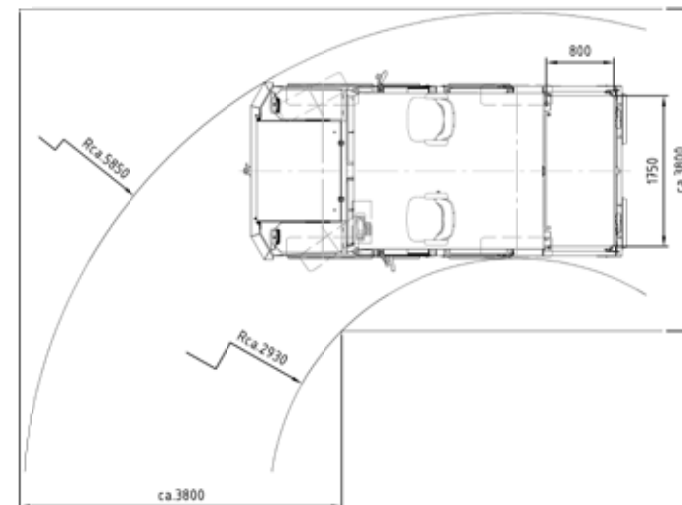
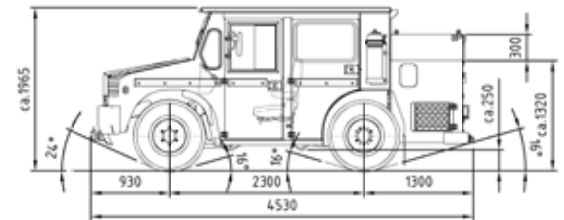
ENDURANCE: Large 50 kWh Li-Ion battery package, optionally expandable by another 50 kWh package



MinCa 5.1 E-SERIES

TECHNICAL DATA:

	MinCa 5.1 E
Payload	1.2 t
Operating Weight	4.5 t**, self-supporting body
Engine Variants	Danfoss, Electric Motor
Engine Power	Up to 60 / 99 KWh
Chassis	Self-supporting body, front steering axle, spring suspended front and rear axle, with shock absorber
Drive Unit	Electric Drive
Axles	EME P174 (front) and P172 (rear)
Tires	8.25 x 15
Speed	Up to 30 km/h
Gradeability	Max. 35%
Environmental Temperature	-20°C up to +35°C



**depending on selected version

Further versions, a multitude of configurations/bodies and options are available upon request.



GRADER

- The hydrostatic drive offers the optimum combination of speed and tractive effort, especially on gradients.
- Extremely manoeuvrable due to the combination of front steering axle and articulated steering.
- The oscillating front axle ensures that the tyres keep their grip even when the level of the floor is very uneven.
- Many equipment options are available. E.g. instead of the front counterweight of the standard version, a front blade can be selected.

HIGHLIGHTS:

CONVENIENT: Spacious, enclosed ROPS/FOPS driver's cab

CLEAR: Unobstructed view over the working area

POWERFUL AND MANOEUVRABLE:

Robust chassis with front axle steering and articulated steering and with hydrostatic all-wheel drive

MAINTENANCE-FRIENDLY: Optimal accessibility to the hydraulics, electrical system and mechanical components

ILLUMINATED: LED lighting package, featuring 2x2 work lights at the cab

VISUALISATION: Display for the analysis of important vehicle data as well as all status messages; additional display for diesel engine

FLEXIBLE: Two speeds – 8 km/h working gear or 20 km/h in high gear



GRADER

TECHNICAL DATA:

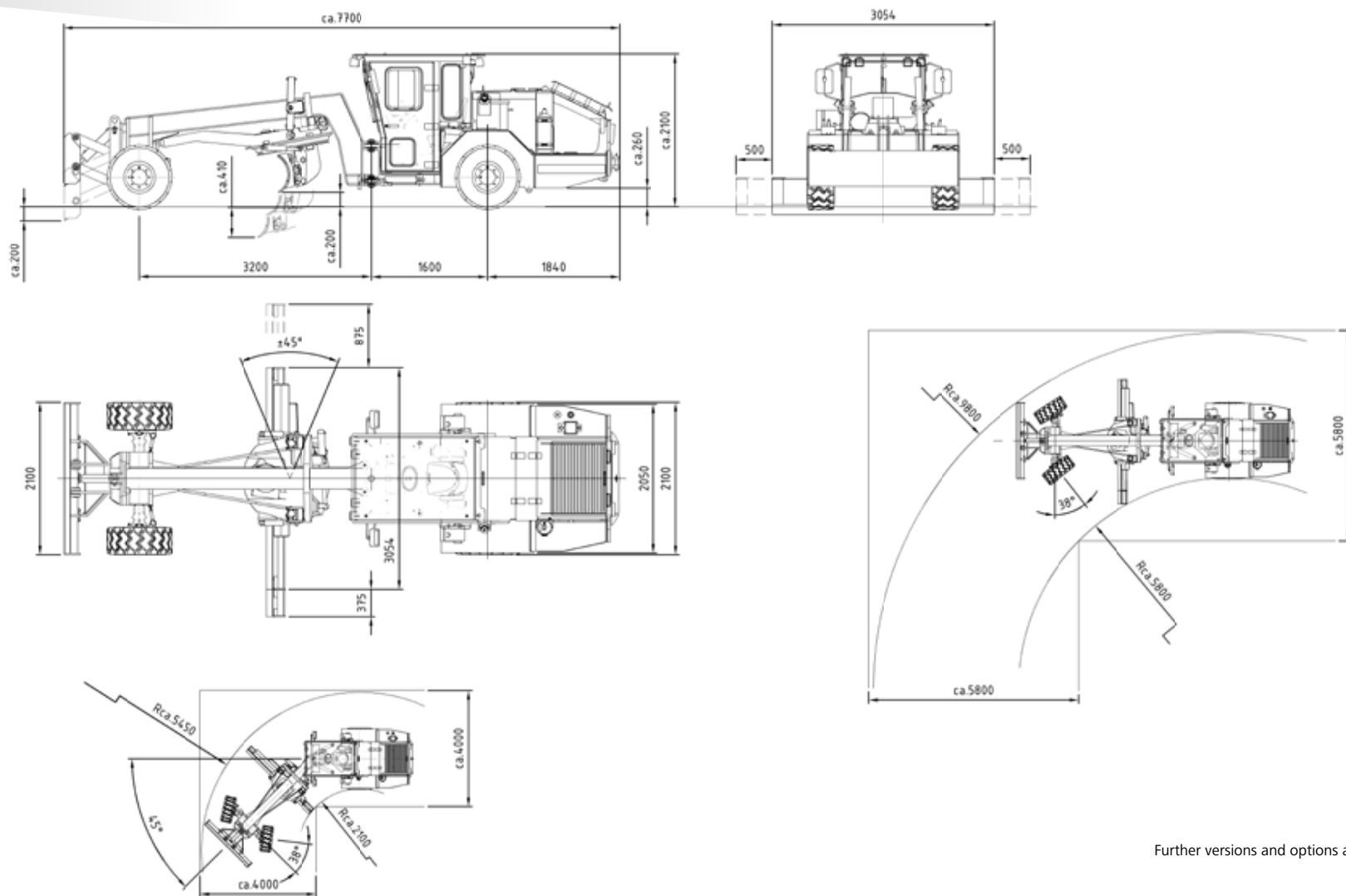
	PG 10 HA
Operating Weight	11.5 t**
Engine Variants	Deutz, Cummins different exhaust stages available
Engine Power	Up to 127 kW
Working Width	3054 mm
Side Shift	+/- 500 mm
Working Depth, max.	Up to 410 mm
Slewing Angle	+/- 45°
Chassis	Articulated steering, with oscillating front axle
Drive Unit	Hydrostatic Drive
Axles	Dana
Tires	12.00 x 20
Speed	Up to 20 km/h
Tow Capacity	70 kN
Gradeability	Max. 35%
Environmental Temperature	-20°C up to +40°C

**depending on selected version



FOR RELIABLE, HIGH-LEVEL ROUTE MAINTENANCE

GRADER



Further versions and options are available upon request.



SCALER

- The mobility is unmatched by articulated steering and swivel-mounted boom at the scaler machines 853 S8 and 1253 S10, which enables sensitive and precise roof scaling operation.
- Paus scalers provide low operating costs and offer a high degree of safety during scaling in small cross sections.
- The optional „Plug and Play“ function for radio remote control enables a high degree of safety for the operator even in highly endangered areas.
- The robust design specially designed for mining minimizes operating costs, maximizes the service life and lifetime and thus the economic efficiency of the entire machine.

HIGHLIGHTS:

SAFE: Spacious, enclosed ROPS/FOPS driver's cab

CLEAR: Excellent visibility of the working area

PRODUCTIVE: Precise scaling reduces mining waste and tool wear

PRACTICAL: Optimal accessibility of hydraulics, electrical system and engine

ILLUMINATED: LED lighting package, featuring 2x2 work lights at the cab

VISUALISATION: Display for the analysis of important vehicle data as well as all status messages

FLEXIBLE: Two driving modes: 8 km/h working mode or 20 km/h fast mode



SCALER

TECHNICAL DATA:

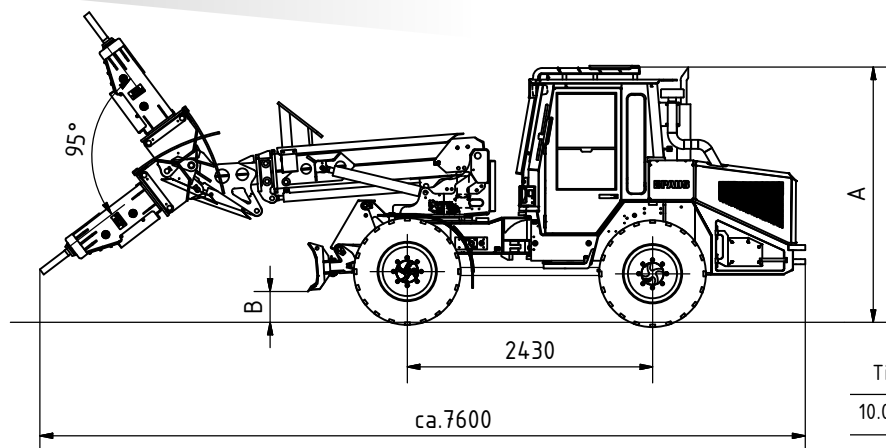
	853 S8	1253 S10
Hammer Weight	300 kg	
Operating Weight	8.8 t**	12.5 t**
Engine Variants	Deutz, different exhaust stages available	
Engine Power		
Chassis	Articulated steering with oscillating rear axle	
Drive Unit	Hydrostatic Drive	
Axles	Planetary rigid axles, rear oscillating axle, lockable	
Tires	9.00 R 20 (10.00 R 15)	15.5 R 25
Speeds	Up to 20 km/h	
Gradeability	Max. 40 %	
Environmental Temperature	-20°C up to +40°C	

**depending on selected version

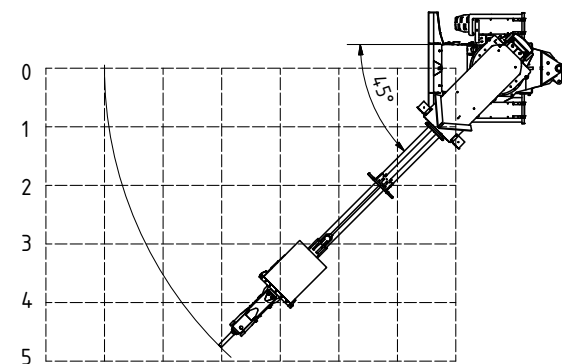
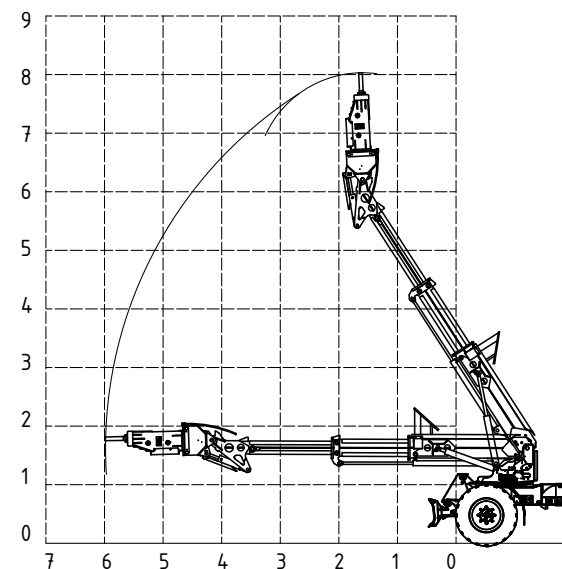
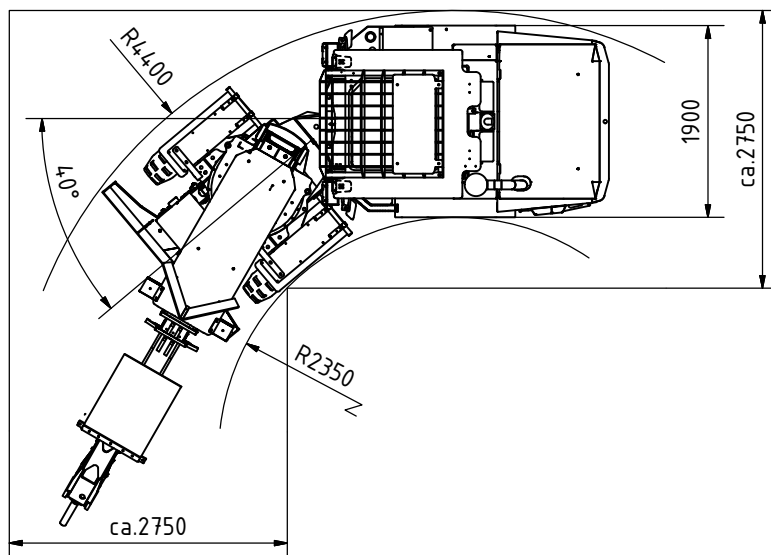


FOR SAFE AND PRODUCTIVE SCALING IN UNDERGROUND MINING

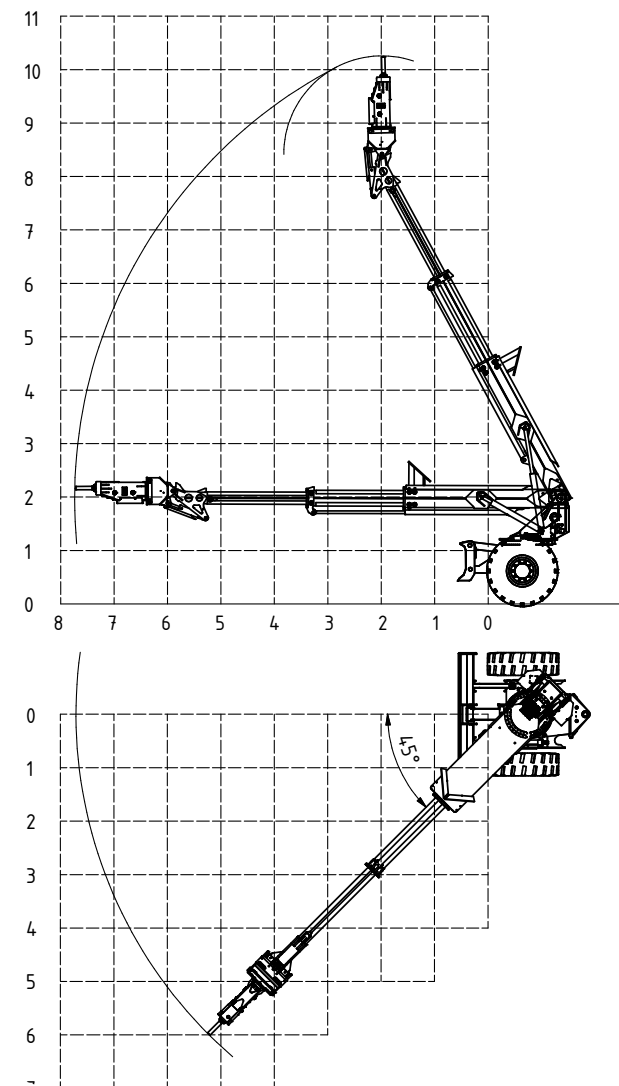
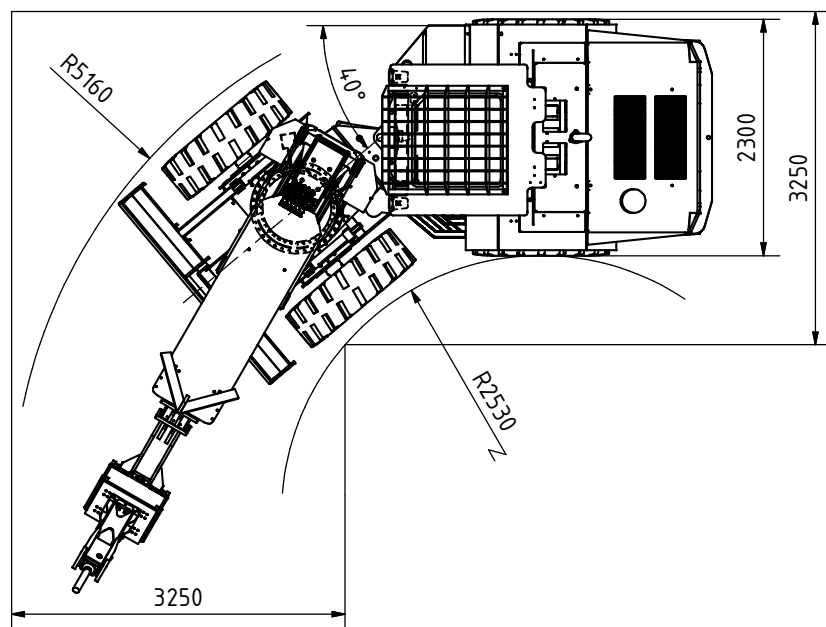
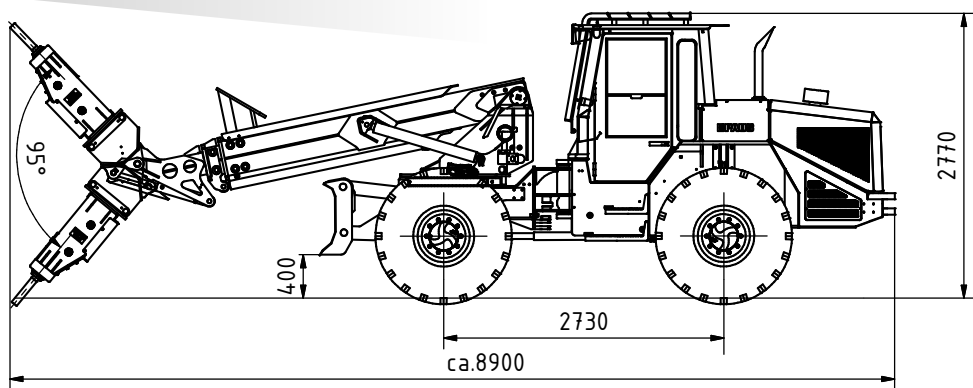
SCALER 853 S8



Tires	height A	height B
10.00-R15	2485	240
9.00-R20	2525	280



SCALER 1253 S10



LHD LOADER

- The Paus LHD product series convinces with state-of-the-art technology, which offers our customers „more“ in productivity, safety and profitability.
- The Paus LHDs have an excellent payload-to-weight ratio.
- 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:

POWERFUL AND MANOEUVRABLE: Robust chassis with articulated steering and e.g. hydrostatic drive

PRACTICAL: Optimal accessibility to the hydraulics, electrical system and engine

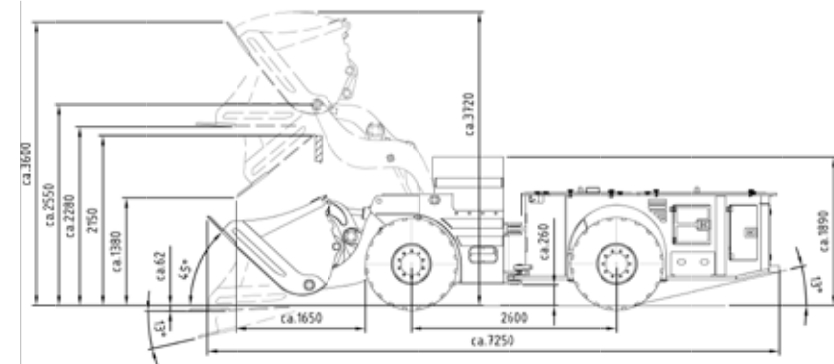
ILLUMINATED: LED lighting package, featuring 2x2 work lights at the cab

SAFE: Ergonomic and ROPS/FOPS driver's conopy

ECONOMICAL: Excellent operating weight-payload ratio



Technical drawing PFL 20



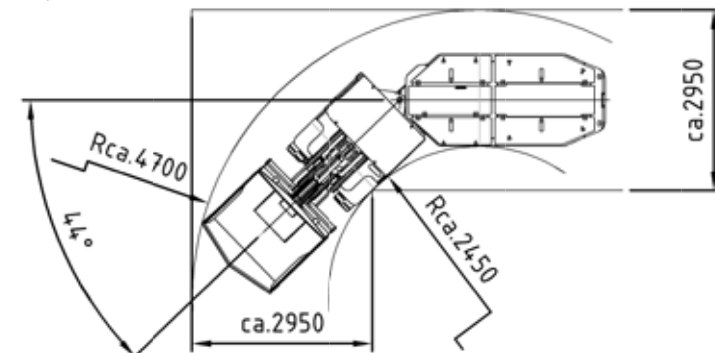
PFL-SERIES

TECHNICAL DATA:

	PFL 8	PFL 10	PFL 20	PFL 30
Payload	1.5 t	2.7 t	4 t	6 t
Dump box volume heaped	0.8 m ³	1.3 m ³	2.0 m ³	3.0 m ³
Breakout Force	Up to 40 kN	Up to 50 kN	Up to 85 kN	Up to 115 kN
Operating Weight	6.3 t**	9 t**	11.5 t**	18.5 t**
Engine Variants	Deutz, different exhaust stages available	Deutz, Cummins, different exhaust stages available		
Engine Power	69 kW	84 kW	112 kW	150 kW
Chassis	Articulated steering, center oscillation	Articulated steering with oscillating rear axle		
Drive Unit	Hydrostatic Drive		Hydrodynamic drive, "full power shift"	
Axles	Comer 128	Kessler D71	Kessler D71	Kessler D91
Tires	9.00 x 20		12.00 x 20	17.50 x 25
Speed	Up to 15 km/h	Up to 18 km/h	Up to 25 km/h	Up to 25 km/h
Gradeability	Max. 35%		Max. 35%	
Environmental Temperature	-20°C up to +40°C		-20°C up to +40°C	

**depending on selected version

Technical drawing PFL 20



Further versions and options are available upon request.



DUMP TRUCKS

- Paus dump trucks are the ideal solution for comfortable, safe and economical transport in underground hard rock mining over long distances with extreme gradients.
- With the Paus Dump Trucks, short cycle times are ensured by the powerful drive and the high manoeuvrability.
- The robust and compact design of the Paus dump trucks provides high reliability and a long service life.
- For special applications and greater flexibility, our customers can choose from additional versions such as ejector wall or interchangeable frames or concrete mixers for tunnelling work.
- Safety, ease of operation and maintenance are always the focus at Paus in order to deliver high productivity.

HIGHLIGHTS:

TOUGH: Designed, for the toughest hard rock deployment, featuring ROPS/FOPS cab

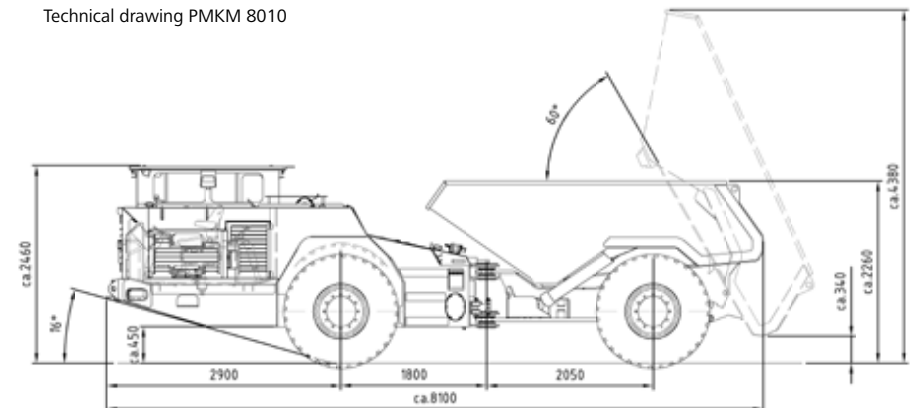
CLEAR: Driver's seat that can rotate by 180° with a separate control panel for both directions and optimal visibility over the skip – even while travelling in reverse

SERVICE-FRIENDLY: Excellent accessibility to the engine, hydraulics and filter

FLEXIBLE: Individual adaptations possible. Also available with hydraulic change systems for concrete or scissor platforms, among other things



Technical drawing PMKM 8010



DUMP TRUCKS

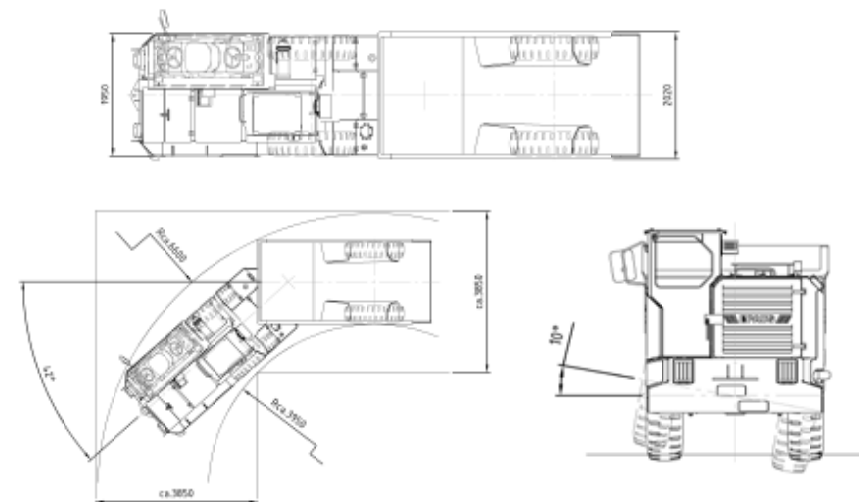
TECHNICAL DATA:

	PMKM/-T/-S 8000 SERIES	PMKM/-T/-S 10000 SERIES	PMKM/-T/-S 12000 SERIES
Payload	16 t	22 t	27 t
Dump box volume heaped	8 m ³	11.5 m ³	14 m ³
Operating Weight	17 t**	22 t**	26 t**
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 170 kW	Up to 227 kW	Up to 280 kW
Chassis	Articulated steering, with oscillating front axle		
Drive Unit	Hydrodynamic drive, "full power shift"		
Axles	Dana 17D	Kessler D81	Kessler D91
Tires	16.00 R 25	16.00 R 25	18.00 R 25
Speed	Up to 30 km/h	Up to 25 km/h	Up to 25 km/h
Gradeability	Max. 35%		
Environmental Temperature	-20°C up to +40°C		

**depending on selected version

Further versions and options are available upon request.

Technical drawing PMKM 8010





SERVICE

WE ARE WHERE OUR CUSTOMERS ARE

MAINTENANCE & REPAIR

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

- Repairs on site or at the factory by our factory technicians
- Repair by our constantly trained, regional service partners
- Customer support for technical inquiries with our service consultants

Another part of our customer service is the technical information service. Trained staff are available under our service hotline in the factory or at our dealers on site. Simply download the machine documentation and repair instructions online. Or contact us by telephone or e-mail for quick and easy training and commissioning.

SPARE PARTS

We emphasize a high availability of Paus spare parts. In addition to maintenance and service parts, which are available at all times, we offer our customers the possibility of ordering spare parts for engines, axles, transmissions, etc. via to relate to us. Furthermore, maintenance and service packages defined on an ongoing basis are available from us.

We provide this fast and uncomplicated service through a comprehensive concept of disposition, warehousing and logistics. This means that we always have a demand-oriented stock available for our customers at the Paus central warehouse in Emsbüren. Support depots, e.g. in Russia, also shorten reaction times. All types of shipping from courier to collection are possible.

In addition, Paus offers its customers a defined exchange parts program: customers can send in defective components and receive fully refurbished exchange parts from us or our partner companies, even in advance if required. Please do not hesitate to contact us. Another plus: A suggestion for spare parts stocking that is worked out according to customer requirements is also part of the Paus service program. Paus also supplies an electronic spare parts catalogue with each machine delivery.

We are also happy to provide specific advice, if necessary at our customers' site.

YOU WANT TO ORDER SPARE PARTS?

Enjoy the benefits of our online spare parts catalogue:

QUESTIONS ABOUT THE SPARE PARTS CATALOGUE?

You do not have access data, simply contact us by using our info email: spareparts@paus.de







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WWW.PAUS.DE



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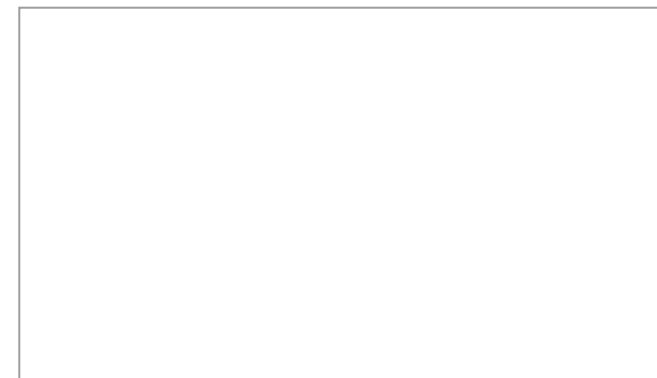
As a specialist for complete and special solutions Paus offers an extensive range of machines for mining and tunneling, lifttech and as well construction machines and industrial vehicles since 1968.

Paus stands for „Quality Made in Germany“.

Our quality management is certified according to ISO 9001.



YOUR DEALER



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