



PScale 8-T

Compact mining machine for mounting a hydraulic hammer for use in underground mining

- **Best price / performance ratio**
- **Largest scaling coverage in its class**
- **Sensitive control**
- **Comfort cab**
- **Ultra-compact design**

Technical data

6111-00-000 - 28.06.2024

DEFINITION OF OPTION / OPTIONAL EQUIPMENT

In the following, the selectable equipment of the machine is identified by the terms "option" or "optional equipment."

The option describes equipment that can be selected in addition to the standard machine.

The optional equipment describes equipment that replaces other equipment on the machine.

MAIN FEATURES OF THE MACHINE

Compact mining machine for mounting a hydraulic hammer for use in underground mining

Working height, maximum	8.0 m
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SAFETY EQUIPMENT

All machines are designed and manufactured in accordance with the applicable legal requirements. They offer a correspondingly high level of safety for users.

Some safety equipment at a glance:

- ROPS/FOPS certification
- Battery master switch, lockable
- EMERGENCY STOP button: 1x in driver's platform, 1x outside
- Engine start warning with start delay
- Audible reversing signal
- 3-point safety entry
- Emergency exit
- Entrances and exits, slip-resistant and color-contrasting
- Articulated frame lock

In case of driver absence, this is done automatically:

- The drive shifts to neutral
- Activation of the parking brake

OPERATING CONDITIONS

Permitted environment temperature *	-20 °C to +50 °C
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** Observe the cold-start limit temperature of the engine*

Permitted longitudinal gradient, maximum	35 %
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Operating altitude without reduction in power, maximum	< 1,500 m
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WEIGHTS AND LOADS

Operating weight *	10,000 kg
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Permitted attachment weight, maximum	400 kg
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Permitted front axle load, maximum	6,500 kg
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Permissible rear axle load, maximum	6,500 kg
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** Depending on selected options and optional equipment*

CHASSIS

Swivel angle, maximum	±8°
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- Divided chassis with articulated steering
- Fixed front axle and oscillating rear axle
- Automatic lock function of the oscillation by swiveling the boom

ENGINE

Diesel engine CATERPILLAR C4.4

Manufacturer	CATERPILLAR
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Type	C4.4
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Emissions stage EU	Stage III A
Emissions stage USA	EPA Tier 3

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Output At speed	96.5 kW 2,200 rpm
Alternator	28 V 100 A
Starter motor	24 V 4.5 kW
Cold start limit temperature	-15 °C

- Catalytic converter with measuring points
- Fuel prefilter and fuel fine filter with water separator
- Manual fuel feed pump
- Dry air filter with pre-filter

ENGINE (OPTIONAL EQUIPMENT)

Diesel engine DEUTZ TCD 4.1 L4

Manufacturer	DEUTZ
Type	TCD 4.1 L4
Emissions stage EU	Stage V
Emissions stage USA	EPA Tier 4F
Output At speed	105 kW 2,200 rpm
Alternator	28 V 100 A
Starter motor	24 V 4 kW
Exhaust gas aftertreatment	DOC DPF SCR
Cold start limit temperature	-15 °C

- Fuel prefilter and fuel fine filter with water separator
- For fuels with sulfur content < 10 mg/kg
- Manual fuel feed pump
- Dry air filter with pre-filter

FUEL SYSTEM

Fuel tank capacity	130 l
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- Electrical fill level indicator
- Shut-off valve to protect against fuel leakage in case of hose rupture

TRAVEL DRIVE

Forward speed, maximum	18 km/h
Reverse speed, maximum	18 km/h
Tractive force, maximum	65 kN
Gradeability, maximum	40 %

- Hydrostatic propel drive
- Drive reversible under load
- All-wheel drive

AXES

Manufacturer	DANA
Front axle type	112
Front axle differential	100 %
Rear axle type	112
Rear axle differential	Open

SERVICE BRAKE

- Hydraulic foot brake as 2-circuit external force brake system
- Oil-immersed multi-disk brakes

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PARKING BRAKE

- Spring-applied, hydraulically released (SAHR)
- Hand pump to release the brake in case of system failure

EMERGENCY BRAKE

- One circuit of the service brake

TIRES

Tire size	9.00x20
Tire filling	PUR

STEERING

- Hydraulic articulated steering with a double-acting cylinder
- Steering wheel
- Emergency steering

HYDRAULICS

1. Hydraulic tank capacity	80 l
2. Hydraulic oil tank capacity	100 l
Operating pressure	200 bar

- Two separate hydraulic circuits, for hammer hydraulics and travel drive/working hydraulics
- Load sensing, electro-hydraulically pilot-controlled
- Inspection glasses for min/max indication
- Electrical fill level indicator
- Electrical filter monitoring
- All fittings as JIC version
- All hydraulic motors and pumps in cast iron
- Hand pump for filling the hydraulic tanks

- Hand pump for tilting the cabin for maintenance work
- Hydraulic oil ATF

ELECTRICS

Supply voltage	24 V
Number of batteries	2 pcs.
Battery voltage	12 V
Battery charge	110 Ah

ELECTRICS (OPTIONAL)

- Jump start socket
- Enhanced sealing of the connectors with grease filling and sealing tape

COMPRESSED AIR SYSTEM

- Piston Compressor
- Compressed air reservoir
- Air pressurization of hammer case to avoid contamination

LIGHTING

All headlights and lamps as LED variants:

- Two headlights for road illumination, one each for low and high beam
- Two rear tail lights, with reversing light, parking light, brake light and turn signals
- Two lights at the front, with parking light and turn signals
- Four front headlights for working area
- Four rear headlights
- Two working lights on the telescopic boom
- Two yellow strobes

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LIGHTING (OPTIONAL EQUIPMENT)

- Two red strobe lights
- Two blue strobe lights

LIGHTING (OPTIONS)

- two additional working lights on the front of the driver's compartment
- Rear working lights active while reversing
- Two driving direction lights red / green

DRIVER'S PLATFORM

Closed cab

- Heating with ventilation and filter
- Sliding windows right and left
- Wiper/washer system for front and rear window
- Interior lighting
- Document box
- Two exterior mirrors
- All driving-relevant switches and actuations located within reach of the operator
- Safety glass in front
- Folding grille guard for windshield
- Hydraulically tilting for ideal view of the attachment
- Hydraulic hammer operation with foot switch or joystick
- Adjustable hammer interval time and impact frequency
- Driver display 4.3"

Diagnostic display 4.3"

- Active faults and fault history
- Parameter changes with authorization levels
- Miscellaneous engine data and operating data

Driver's seat

- Lap belt
- Head rest
- synthetic leather cover

- Adjustable backrest and seat cushion
- Mechanical suspension

DRIVER'S STAND (OPTIONAL EQUIPMENT)

- Heated exterior mirrors
- Driver's display 7"
- 3-point seat belt for driver's seat
- Air suspension

DRIVER'S PLATFORM (OPTIONAL)

- Air conditioning
- Rear view camera system
- Return signal acknowledgeable
- Brake test function
- Hill start assist with automatic release / engagement of the parking brake
- Radio with USB port
- Inclination bar on display
- Driver's seat contact switch
- Driver's seat belt contact switch

TURRET AND TELESCOPIC BOOM

- Lift cylinder with lowering brake valves
- Telescopic boom with two stages
- All bearings are made of wear-resistant material
- Robust wiper to protect telescopic boom against dirt
- Rock protector at the boom to protect hydraulic fittings
- Rock deflector on top of the boom

FRONT DOZER BLADE

- hydraulic lift
- hoisting unit protected against falling rocks

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WORK EQUIPMENT (OPTIONAL EQUIPMENT)

NPK PH-2TS hydraulic hammer

Manufacturer	NPK
Type	PH-2TS
Operating weight	260 kg
Minimum impact frequency	500per minute
Maximum impact frequency	1,200per minute

- Central lubrication system for hydraulic hammer
- Extra long pointed chisel
- Spezial hydraulic hammer for scaling operation

EPIROC SB 202 T hydraulic hammer

Manufacturer	EPIROC
Type	SB 202 T
Operating weight	199 kg
Minimum impact frequency	1,250per minute
Maximum impact frequency	1,700per minute

- Central lubrication system for hydraulic hammer
- Pointed chisel

EPIROC SB 302 T hydraulic hammer

Manufacturer	EPIROC
Type	SB 302 T
Operating weight	315 kg
Minimum impact frequency	950per minute
Maximum impact frequency	1,250per minute

- Central lubrication system for hydraulic hammer
- Pointed chisel

WORK EQUIPMENT (OPTIONAL)

Dust suppression system

Water tank capacity 130 l

- Water pump
- Flat spray nozzle on hydraulic hammer

Front supports

- Hydraulic telescopic outriggers
- Right and left fixed to the front of the vehicle
- Vertically extending
- Lowering brake valves in the hydraulic cylinders

Mechanical quick-change system

- For different varieties of attachments
- Mounting plate with mechanical lock

Shock absorption system

- Vibration damping system, automatic / deactivating

FIRE PROTECTION

- Handheld fire extinguisher (TOTAL) with 9 kg of dry extinguishing agent

FIRE PROTECTION (OPTIONAL EQUIPMENT)

- HRD fire-extinguishing system (PROTECFIRE) with manual release and dry extinguishing agent
- HRD fire-extinguishing system (PROTECFIRE) with automatic release and dry extinguishing agent
- HRD fire-extinguishing system (ANSUL) with manual release and liquid agent
- HRD fire-extinguishing system (ANSUL) with automatic release and liquid agent
- Portable fire extinguisher (ANSUL) with 7.7 kg of dry extinguishing agent

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PAINTWORK

Color RAL 1007 / 7016

MACHINE SOFTWARE

- Machine software provided in local language

ACCESSORIES

- Two wheel chocks
- Two triangular safety reflectors
- Tool kit with bag
- Safety helmet and ear protection
- First aid kit

MAINTENANCE PACKAGES (OPTIONAL EQUIPMENT)

- Service package, 2000 operating hours
- Service package, 3000 operating hours
- Service package, 5000 operating hours

ACCESSORIES (OPTIONS)

- Spare wheel
- Central lubrication system on basic vehicle
- Plug-in pre-fittings for remote control
- Remote control

PAUS CONNECT CLOUD (OPTIONAL)



DOCUMENTATION

- A printed operating manual in the local language in the document box on the vehicle
- Operating instructions, spare parts list and wiring diagrams in electronic form via online access

DOCUMENTATION (OPTIONAL)

- An additional operating manual in local language, in printed form, included with the machine
- A spare parts list in local language or English, in printed form

The PAUS CONNECT CLOUD collects and visualizes data, messages or location information of the machine.

The data is transmitted to the cloud using a built-in telemetric unit.

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Your advantages:

- Faster service
- Life cycle cost management
- data transmission via existing WLAN and/or mobile phone networks
- intermediate storage of all data in the absence of connectivity (up to 30 days)
- Access to the PAUS CONNECT CLOUD
- remote diagnosis/remote maintenance
- statistical application evaluation
- vibrational monitoring
- two-way communication
- authorisation of machine use
- user administration with controlled data access
- individual evaluations and statistics
- direct access at the machine to read out data

CUSTOMER SERVICE

Repair work and maintenance work are central points in customer care. Here, PAUS is broadly positioned and offers its customers and dealers worldwide an extensive service program. Trained employees are available on our service hotline, as are competent contacts at our local dealers.

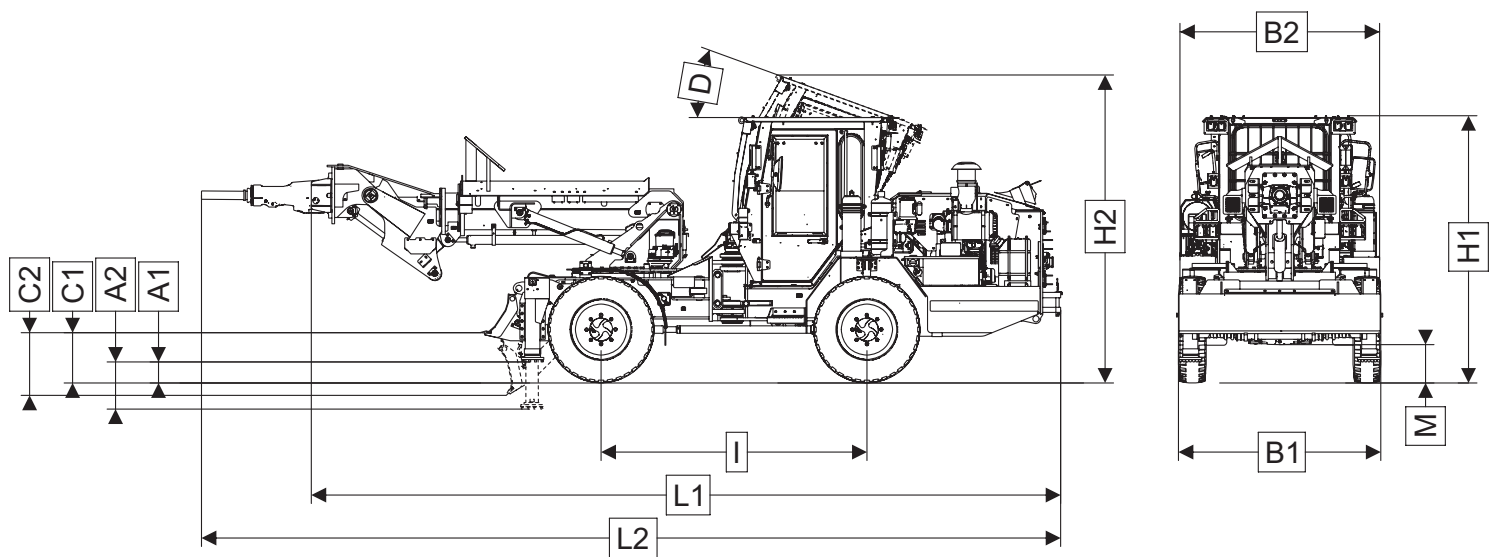
SPARE PARTS

We attach great importance to a high level of availability of PAUS spare parts. In addition to maintenance and service parts, which are available at any time, customers and dealers are able to purchase spare parts for engines, axles, transmissions, etc. easily and quickly through us. Benefit from our on-line catalog with refined spare parts lists.

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ABMESSUNGEN



844492-04
PR00100-01
PR00032-02

The illustration may not match the scope of delivery

Dimen- sion	Note	Value	Unit
A1 *	Stützen vorne *	200	mm
A2 *	Stützen vorne *	450	mm
B1		1925	mm
B2		1910	mm
C1		480	mm
C2		565	mm

** Optional*

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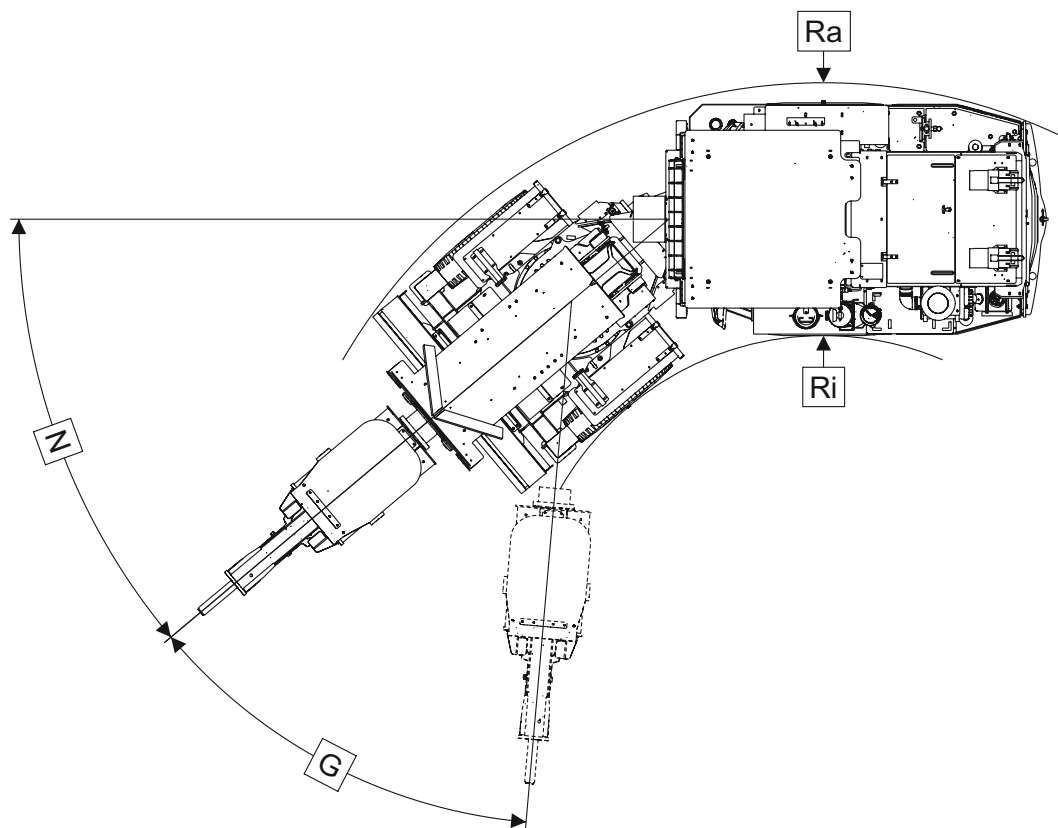
Dimension	Note	Value	Unit
D		20	°
H1		2540	mm
H2		2930	mm
I		2530	mm
L1	CATERPILLAR C4.4 diesel engine	7125	mm
	CATERPILLAR C4.4 diesel engine Mechanical quick-change system *	7000	mm
	DEUTZ TCD 4.1 L4 diesel engine *	7285	mm
	DEUTZ TCD 4.1 L4 diesel engine * Mechanical quick-change system *	7160	mm
L2 *	CATERPILLAR C4.4 diesel engine NPK PH-2TS hydraulic hammer (without chisel) *	7815	mm
	CATERPILLAR C4.4 diesel engine EPIROC SB 202 T hydraulic hammer (without chisel) *	7655	mm
	CATERPILLAR C4.4 diesel engine EPIROC SB 302 T hydraulic hammer (without chisel) *	7735	mm
	DEUTZ TCD 4.1 L4 diesel engine * NPK PH-2TS hydraulic hammer (without chisel) *	7975	mm
	DEUTZ TCD 4.1 L4 diesel engine * EPIROC SB 202 T hydraulic hammer (without chisel) *	7815	mm
	DEUTZ TCD 4.1 L4 diesel engine * EPIROC SB 302 T hydraulic hammer (without chisel) *	7895	mm
M		365	mm

** Optional*

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WENDERADIEN



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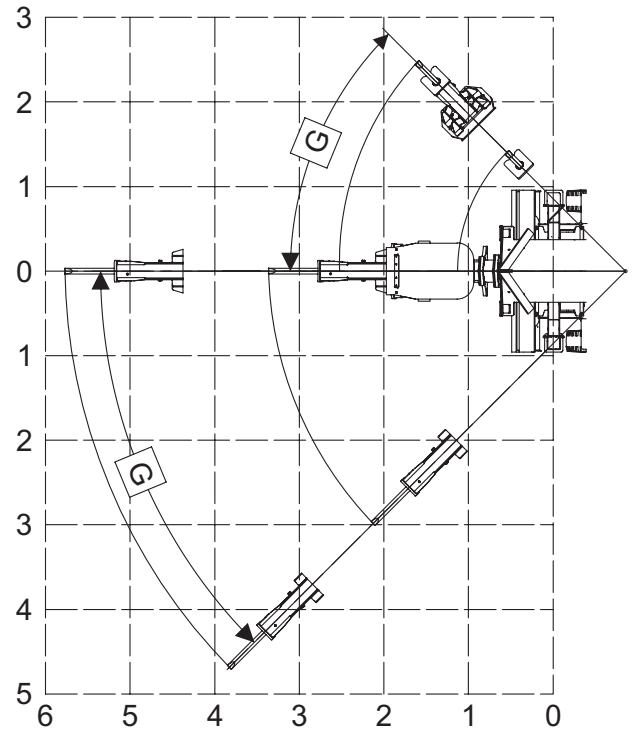
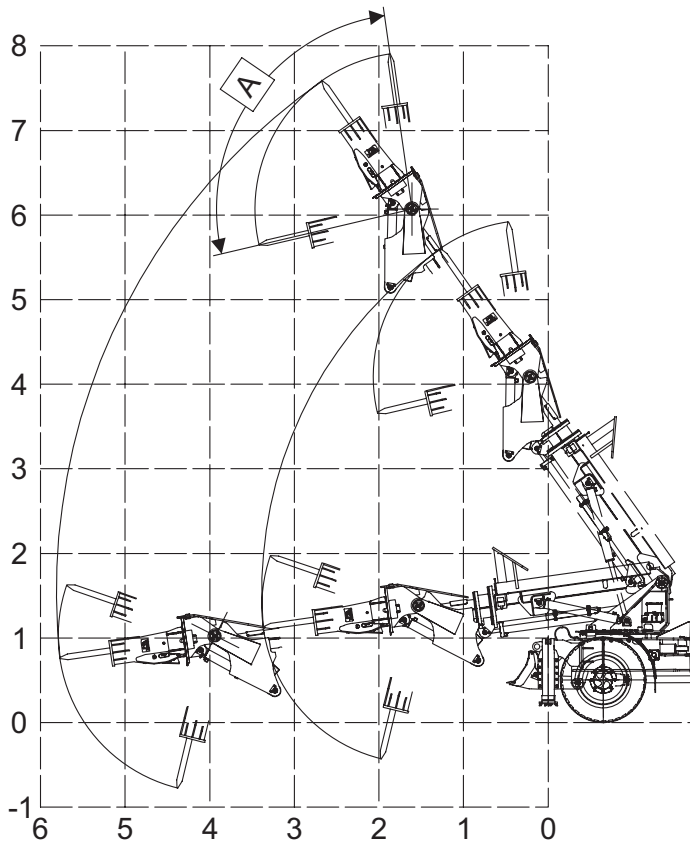
Dimension	Note	Value	Unit
N	Lenkeinschlag, maximal	40	°
G		45	°
Ri		2505	mm
Ra	CATERPILLAR C4.4 diesel engine	4595	mm
	DEUTZ TCD 4.1 L4 diesel engine *	4.645	mm

** Optional*

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HYDRAULIC HAMMER WORK AREA



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Dimen- sion	Note	Value	Unit
A		95	°
G		45	°