



TSL 853

The all-rounder in underground mining operations

- Quick change adapter with automatic locking
- Equipment carrier for a **variety of applications**
- **Optional self-drive function (T7)**
- **Robust chassis with articulated steering and hydrostatic all-wheel drive**
- **Low investment costs** for a wide range of applications

Technical data

6150-00-000 – Rev.05

MAIN FEATURE OF THE MACHINE

Central articulated steering telescopic swivel loader for mining

Quick change device to pick up optional attachments

OPERATION CONDITIONS

Operation temperature
*note cold start limit temperature of the diesel engine -20 °C *to +40 °C

Permissible longitudinal gradient max. 35 %

Operating altitude above sea level < 1,500 m

CHASSIS

Divided chassis with articulated steering

Rigid mounted front axle and oscillating rear axle

Angel of oscillation +/-8°

Automatic lock function of the oscillation by swiveling the boom > ± 15°

WEIGHTS AND PERMITTED AXLE LOADS

Total operating weight 8.100 kg*

Payload, max 2.600 kg*

Permissible front axle load 6.000 kg

Permissible rear axle load 5.400 kg

*depending on selected options

BOOM

Heavy duty telescopic boom with one stage and hydraulic swivel function

For point quick change device with hydraulic lock

Hydraulic parallel guide

Z-kinematics, hydraulic cylinder protected mounted inside telescopic boom

All bearings are made of wear-resistant material

Rock protector on top of the boom

Additional hydraulic circuit for optional attachments 50 l/min

Breakout force tilt 45 kN

Breakout force lift 34 kN

Telescopic range 1,280 mm

Swiveling angle +/- 90° *
* depending on selected options

DIESEL ENGINE

Diesel engine Deutz /
Manufacturer / Type BF 4M 2012

Exhaust stage EU stage II / EPA Tier 2

Power 75 kW at 2,300 rpm

Alternator 28 V, 80 A

Cooling system Liquid cooled

Cold start limit temperature -15 °C

Fuel prefilter and fuel fine filter with water separator

Catalyser with measuring points before and after

Silencer

Technical data

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DRIVE LINE

Hydrostatic propel line

Variable pump on diesel engine

Variable hydraulic motor on single speed dropbox

Load depending automotive control for optimal usage of diesel engine power

Gears and driving direction can be changed under load

All wheel drive

Driving speed 0 - 18 km/h

Tow capacity 53 kN

INTAKE SYSTEM

Dry air filter with pre-filter

FUEL SYSTEM

Fuel tank capacity 110 l

Electric level indicator

AXLES

Manufacturer DANA

Type 112

Differential 100%

SERVICE BRAKE

Two circuit hydraulically operated brake, actuated by brake pedal

In the axle housings located oil-immersed multiple disc brakes

PARKING BRAKE SYSTEM

Spring-applied, hydraulically released parking brake

SAHR – brake

AUXILIARY BRAKE

One circuit of the service break

TIRES

Tire size, single tired 9.00x20

Air filled

HYDRAULIC SYSTEM

Operating pressure 200 bar

Tank capacity 65 l

Inspection glasses for Min/Max indication

Temperature sensor

Electric level indicator, control of minimum level

All fittings in DIN type

STEERING

Hydraulic-articulated steering with one double-acting hydraulic cylinder

Steering wheel steering

ELECTRIC SYSTEM

Operating voltage 24 V

Battery 2x 12 V, 74 Ah

Main switch

Emergency stop button, one in the drivers canopy

Reverse alarm

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LIGHTING

Two front headlights with high beam, low beam, parking light and indicator

Two rear lights with taillight, brake light, rear beam and indicator

Two LED-working lights at cabin roof front

Two LED-working lights at cabin roof rear

One LED-working light at telescopic boom

One LED flash light (yellow flashing beacon)

FINISH

RAL 1007

RAL 9005

DRIVER'S CANOPY

Open drivers canopy

- ROPS/FOPS certification
- Entrance from left, emergency exit on the right
- Safety glass on front, rear and in the roof
- Wipers and washing plant on front and roof window
- Hinged rock protection grid on front and roof windows
- Two side mirrors
- All switches and controls placed in the range of the operator

Driver's seat

- With lap belt
- Synthetic leather cover

Accessories

ACCESSORIES AND EQUIPMENT

Frame articulation locking device

One central grease bar

One portable fire extinguisher Total PK 10 / BuT 10

Two wheel chocks

One Tool kit with bag

One Safety helmet and ear protection

One triangular safety reflector

One first-aid kit

DOCUMENTATION

A printed version of the operating instructions in the document box on the vehicle

Operating instructions, spare parts list and wiring diagrams in electronic form via online access

Accessories (options)

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DRIVE LINE

Diesel engine **DEUTZ /**
Manufacturer / Type **TCD 2012 L04 2V**

Exhaust stage EU stage III A /
EPA Tier 3

Power 74,9 kW at 2,200 rpm

Generator 28 V, 80 A

Cooling system Liquid cooled

Cold start limit
temperature -15°C

Diesel engine, **DEUTZ / TCD 2.9**
Manufacturer / Type

Exhaust stage EU stage V / Tier 4f

Power 55 kW at 2,300 rpm

Generator 28 V, 55 A

Cooling system Liquid cooled

Cold start limit
temperature -15°C

ATTACHMENTS

Loading shovel accord. draw. 383645

4-in-1 shovel accord. draw. 383739

Lifting forks accord. draw. 383644

Loading hook accord. draw. 383643

Hydraulic hammer accord. draw. 383655
Epiroc SB 152

- Operating weight 140 kg
- Frequency 850 - 1,900 min⁻¹
- Including bracket for quick change device
- Including additional single acting hydraulic circuit
- Including additional returnline and external return filter

Further equipment and options on request

- Operation via footswitch or switch at joystick, volume flow adjustable with potentiometer inside the cabine
- Pointed chisel
- Permissible for light sporadically hammer work

Hydraulic hammer accord. draw. 383655
Epiroc SB 202 Tunnel

- Operating weight 199 kg
- Frequency 1,250 - 1,700 min⁻¹
- Including bracket for quick change device
- Including additional single acting hydraulic circuit
- Including additional returnline and external return filter
- Operation via footswitch or switch at joystick, volume flow adjustable with potentiometer inside the cabine
- Pointed chisel
- Permissible for light sporadically hammer work

Hydraulic hammer
NPK / PH-2TS

- Operating weight accord. draw. 383655
- Frequency 260 kg
- Including bracket for quick change device

Accessories (options)

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- Including additional single acting hydraulic circuit
- Including additional returnline and external return filter
- Operation via footswitch or switch at joystick, volume flow adjustable with potentiometer inside the cabine
- Pointed chisel
- Permissible for light sporadically hammer work

Working platform accord. draw. 829603

- Payload 300 kg
- Dimensions 1.400 mm x 1.000 mm
- Working high, max 7,4 m
- Swiveling angle: +/-90°
- Entry in front, secured with drop lock
- One piece LED working light
- Foamed tires
- Hydraulic cylinders for function of working platform equipped with load holding valves
- Emergency lowering function
- Platform movements: lift, swivel and telescope
- Control of platform with Joystick in driver's compartment

Working platform accord. draw. 829514

- Payload 300 kg
- Dimensions 1.400 mm x 1.000 mm
- Working high, max. 7,4 m
- Swiveling angle +/-90°
- Entry in front, secured with drop lock
- One piece LED working light
- Foamed tires
- Hydraulic cylinders for function of working platform equipped with load holding valves
- Emergency lowering function
- Platform movements: lift, swivel and telescope
- Control of platform with Joystick in driver's canopy

Working platform accord. draw. 829514

- Payload 500 kg
- Dimensions 1.500 mm x 1.500 mm
- Working high, max 7,4 m
- Swiveling angle: +/-30°
- Entry in front, secured with drop lock
- One piece LED working light
- Foamed tires
- Hydraulic cylinders for function of working platform equipped with load holding valves
- Emergency lowering function

Further equipment and options on request

Accessories (options)

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- Platform movements: lift, swivel and telescope
- Control of platform with Joystick in driver's canopy

Control section for platform control

- To combine with platform according drawing 829603 or 829514
- Control of platform movements with control section on working platform instead of Joystick in driver's canopy

Options for working platform

- Protective cover

ANFO unit

accord. draw.
5012289-80

- Only in combination with three- point rear power lift
- With BAM certificate
- 150 l stainless steel ANFO pressure container
- Hydraulic driven compressor with 2,6m³/min at 8 bar
- cable remote control
- including charging hose 30m, D=22/-28mm

HYDRAULICS

Additional double acting hydraulic circuit 80 l/min

Boom suspension

Drain line for attachments

REAR ATTACHMENT

Three - point rear power lift accord. draw.
5010151-30

- Lower link foldable
- Collecting bowls cat. II
- max. payload 500kg at load focus 1000mm to bumper
- double acting hydraulic cylinders
- including additional hydraulic circuit at the rear for attachments (for example compressor of Anfo unit)

DRIVER'S CAP

Closed drivers compartment with ventilation and heating

Air conditioning unit

TIRES

Tire size 10.00x15

Foamed instead of air filling

Spare wheel

SCREWING'S

JIC-screwing's

FIRE EXTINGUISHING SYSTEM

Fire extinguishing system with manual release

Fire extinguishing system with automatic release

Further equipment and options on request

Accessories (options)

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OTHER OPTIONEN

Rear view camera system

Automatic central lubrication

Electrical connectors with optimized corrosion protection through internal grease filling and external sealing with self-welding tape

One hand-held fire extinguisher made from ANSUL

Service packages for 2,000 operating hours

Service packages for 3,000 operating hours

Further equipment and options on request

Safety

All machines are designed and manufactured in accordance with the latest safety standards, including the currently valid European Machinery Directive and the ISO standard for mobile machines for underground mining. This means that even the basic version of the machines provides a high level of safety for the operator, which can be supplemented as required with additional optional safety equipment.

The standard equipment includes the following safety features:

- ROPS/FOPS canopy(s)
- Braking system („fail-safe“)
- Emergency stop button
- 3-point safety entrances
- etc.

Service

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CUSTOMER SERVICE

Repairs and maintenance work are central points in customer service. Here, Paus is broadly positioned and offers its customers and dealers worldwide an extensive service program. Thus, trained employees are available under our service hotline as well as competent contact persons at our dealers on site.

PAUS CONNECT

Cloud, which captures and displays all data, messages and location.

Your advantages:

- Faster service
- Life cycle cost management

More information on page 5

SPARE PARTS

We attach great importance to a high availability of Paus spare parts. In addition to maintenance and service parts, which are available at any time, customers and dealers have the possibility to obtain spare parts for engines, axles, gearboxes, etc. easily and quickly through us. Benefit from our online catalog with elaborated spare parts lists.



Dimension

Dimension

Length	approx. 5,365 mm
Width	approx. 1,600 mm
Height	approx. 1,958 mm

TURNING RADIUS

Outside	approx. 4,500 mm
Inside	approx. 2,350 mm

