
PR 776 Litronic

LIEBHERR

Mining dozer



Generation

8

Operating weight

71.8–73.2 tonnes / 79.1–80.6 tons

Standard blades

Semi-U blade 18.5 m³ / 24.2 yd³

U blade 22.0 m³ / 28.8 yd³

Engine power

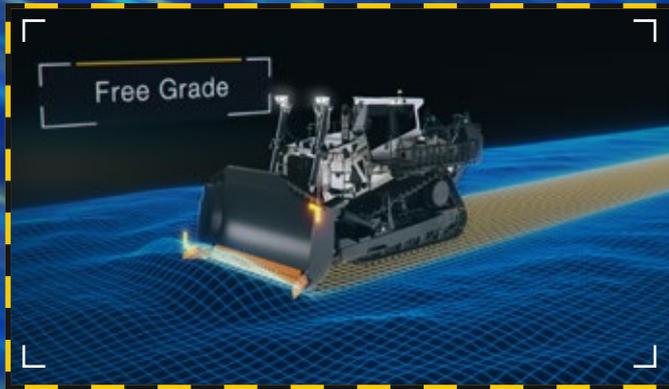
440 kW / 598 HP Forward

565 kW / 768 HP Reverse

Tier 0

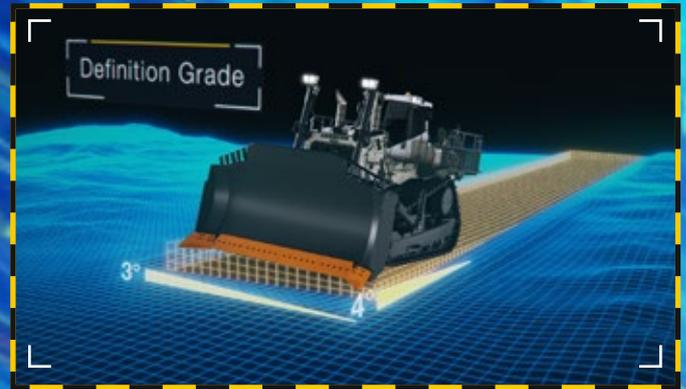
EU Stage V / U.S. EPA Tier 4 Final

Liebherr Operator Assistance Systems



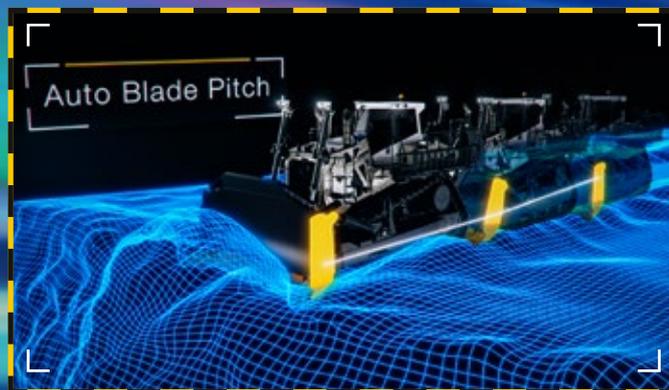
Set your creativity free

Active Blade Stabilisation for free grading.



Define your own standards

Active Blade Positioning, position display and control. For levelling ground with specified longitudinal grade and cross slope.



Maximise your productivity

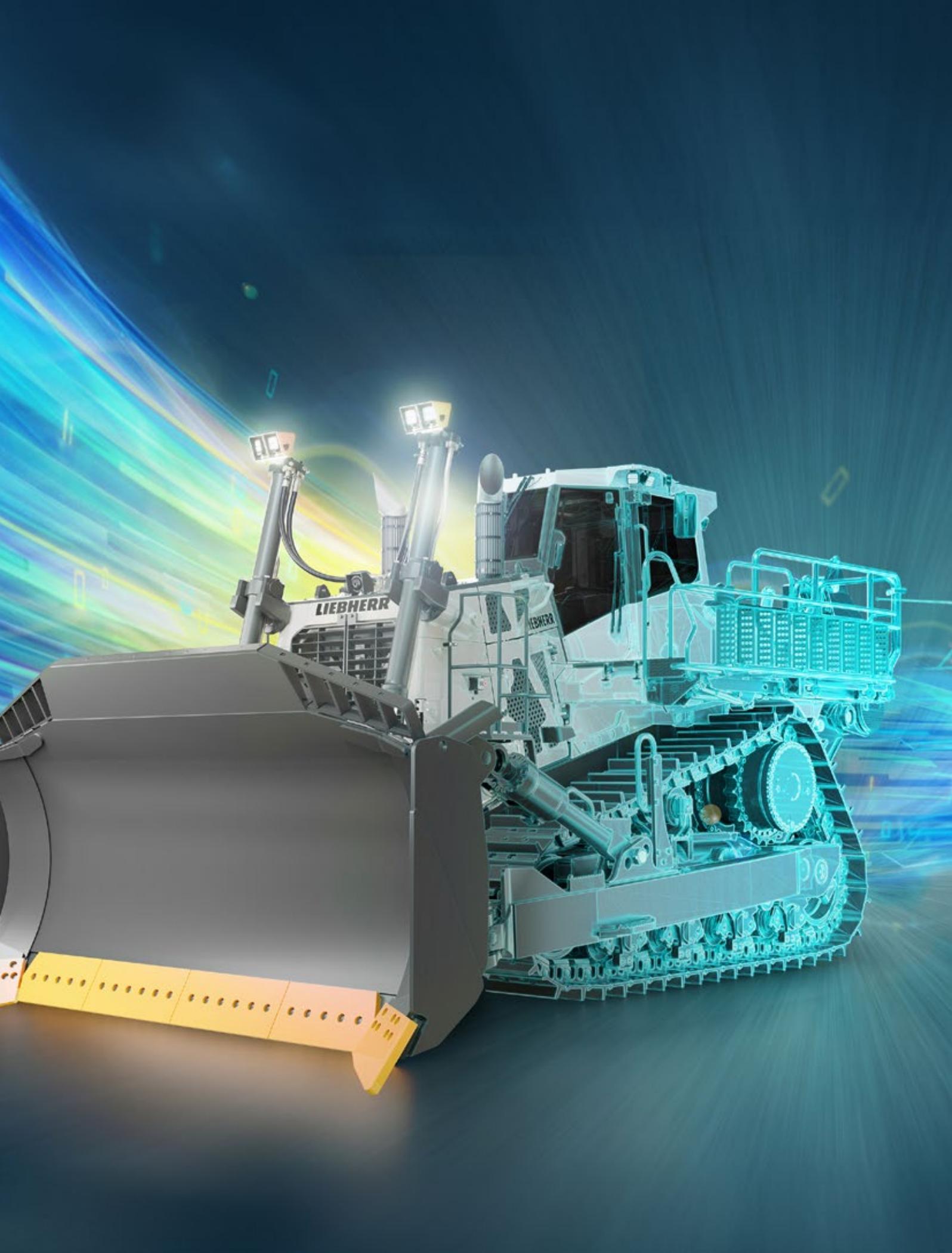
The perfect blade position at the touch of a button:

1. Perfect penetration into the material
2. Optimum material transport
3. Rapid emptying of the blade



All information safely under control

Liebherr Indicate permanently displays the current longitudinal and transverse tilt of the machine. You always have full control. In critical driving situations, the system warns you reliably and accidents are avoided.





Productivity

Working harder and faster

Efficiency

Moving more for less

Reliability

Ready to work when you need it

Overview

PR 776



440 kW / 598 HP Forward
565 kW / 768 HP Reverse



Semi-U blade 18.5 m³ / 24.2 yd³
U blade 22.0 m³ / 28.8 yd³



71.8–73.2 tonnes
79.1–80.6 tons

Hydrostatic travel drive
with electronic control unit



Customer service

World-class support, everywhere,
every day

Safety

Protecting your most important assets

Environment

Mining responsibly

Productivity



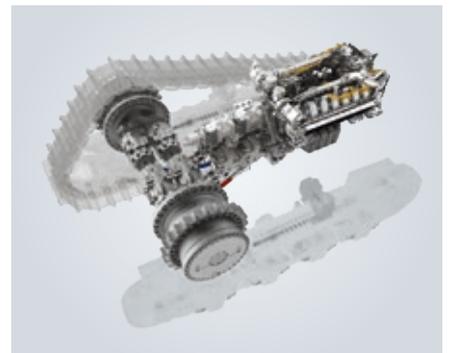
Working harder and faster

Powerful and innovative technologies are the essential hallmarks of Liebherr mining dozers. Either while pushing or ripping, the PR 776 is an extremely powerful machine for any application.



Intelligent engine control

- The electronically controlled power and torque characteristics provide excellent traction and rapid response
- A demand-controlled power increase ensures sufficient power reserves
- When reversing on steep terrain, enough engine power is provided to enable the vehicle to achieve high travelling speeds and short cycle times





High productivity

Powerful engine

The Liebherr diesel engine is designed for tough mining and extraction operations, and provides sufficient power to contend with any situation. Different operating modes are available, including maximum power or fuel-saving, depending on the job requirements.

An intelligent drive system

The hydrostatic travel drive operates smoothly and automatically adjusts the working speed to the load conditions. The torque is constant on both tracks without interruption. This allows exact and powerful steering. Track slip is minimised and operators can fully concentrate on their job.

Excellent maneuverability

When working in narrow areas, the hydrostatic travel drive offers an additional benefit. When involved in ripping work, the ripper can be positioned precisely to enable it to apply great power when ripping layers of hard rock.

Best traction and lowest vibration levels

Pendulum-mounted track rollers and idlers provide good traction and reduce vibration levels on the mining dozer.

Outstanding grading attributes

Mining dozers in all size classes must provide maximum versatility. The PR 776 delivers an exceptionally smooth ride, precise blade control and a perfect view on the blade corners. It therefore is able to deliver optimum productivity during heavy-duty pushing operations, when preparing loading platforms for mining excavators and when building and maintaining haul roads.

High blade penetration forces

Auto Blade Pitch: Call up the perfect blade position at the touch of a button. Optimum penetration behavior at the start, perfect material transport and fast blade discharge at the end of the push path.

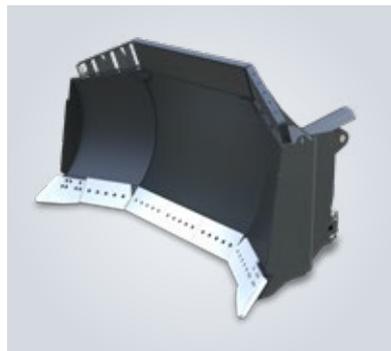
The new Auto Blade Pitch assistance function allows 3 optimum positions to be saved for the blade: With perfect penetration characteristics at the start, efficient transport of material and quick emptying at the end of the push path.

Visible productivity benefit

The optional GNSS navigation system displays the status of works in progress, as well as the surrounding terrain. This allows the operator to fully focus, achieving maximum productivity.

Liebherr-hydrostatic drive

- Infinitely variable travel speeds
- Continuous power flow – no interruption in traction
- Continuous power transmission to both tracks during steering
- No gears and constant engine speed
- Zero-wear service brake system with automatically activated parking brake



Application-optimised dozer blade shape

- Intensive development work and field measurements have produced the dozer blade surface areas and shapes to perfectly suit the basic machine. They provide the best material rolling properties on self-bonding materials as well as high fill levels for dozer blades when pushing heavy masses of rock

Efficiency



Moving more for less

Liebherr mining dozers are designed with efficiency in mind. Highly efficient drive concept, long service life of components and low maintenance requirements reduce operating costs and increase profits.



Comfort cab

- The large 9" display is the information and control centre for all relevant operating data. Here you can adjust the response behaviour precisely to your personal requirements and save them while driving and steering
- Additional functions such as automatic engine speed reduction or automatic engine shutdown contribute to further fuel savings



Intelligent cooling system

- Electronically controlled suction fans regulate the operating temperatures of hydraulic fluid and engine. The individual components are maintained within an ideal temperature range at all times. This protects the components and extends their service life. The cooling air is drawn in from clean areas which reduces contamination levels
- Optionally, Liebherr can provide reversible fans for automatic self-cleaning of the radiator



Unrivalled efficiency

State-of-the-art engine technology

The high efficiency of the hydrostatic drive, across the entire speed range, minimises fuel consumption and ensures low CO₂ emissions. Efficiency can be increased even further by activating the ECO mode, fitted as standard.

Highly efficient driveline

The high efficiency rating of the hydrostatic drive across the entire vehicle speed range and the efficient Liebherr diesel engine minimise fuel consumption and ensure that CO₂ emission levels are low.

Efficient cooling system

Hydrostatic fans and coolers with widely spaced louvre slats deliver optimum cooling power in very dusty work environments. Requirements-based speed adaptation and flow-optimised fan blades result in fuel savings and minimal noise emissions.

Always informed with Liebherr Fleet Management System

- Evaluations of machine utilisation and fuel consumption deliver cost-effective machine management
- Effective fleet management by data transmission and positioning system
- Monitoring of important machine parameters

Fast component replacement

As part of the development work on the PR 776, Liebherr always ensures that all important components can be replaced quickly and easily, and sent in to the Liebherr Reman programme for reconditioning. For example, the Liebherr travel drives and their oil motors can be dismantled easily from one side when required. In the same way, the folding front section on the chassis provides optimum access to the engine. This makes it possible to remove and reinstall the radiator and the Liebherr diesel engine quickly.

Load sensing working hydraulics

The system always provides the amount of power actually needed by the operating hydraulics. If the equipment is not being actuated, fuel is being saved.

Long service intervals

With Liebherr hydraulic fluids, service intervals of up to 6,000 hours can be achieved. If Liebherr Plus oils are used, this extends service intervals to as much as 8,000 hours of operation. Maintenance times are reduced substantially which improves machine availability, respectively the dozer uptime. Liebherr oils reduce fuel consumption by cutting down on the resistance levels of moving parts. These oils also provide high-calibre corrosion protection and optimum compatibility with hydraulic hoses, seals and gaskets.

Reliability



PR 766 G8

Ready for use at any time – professionals rely 100% on their equipment

The mining industry imposes very high demands on the productivity and reliability of the machines and vehicles it uses. The Generation 8 PR 776 meets these demands perfectly. Its components were specifically developed for arduous working environments. The same is true of its carefully crafted technology, innovation, and detailed solutions, all of which combine to deliver ultimate levels of operational availability.

Liebherr driveline

Robust engines

Diesel engines from Liebherr have powered machinery around the world for decades. Developed for the harshest operating conditions, the robust build and state-of-the-art technology of these engines ensure optimum operational safety and long service life.

Wear-free drive concept

The hydrostatic Liebherr travel drive does not require any components such as a torque converter, multi-ratio transmission, service brakes or steering couplings. The high-quality hydraulic pumps and motors operate reliably and practically without wear.

Generously dimensioned final drives with automatic temperature monitoring

The durable final drives are extremely robust and have been designed to cope with exceptionally high loads. The double transmission seal with continuous temperature monitoring ensures reliable operation.

Solutions for continuous operation

Main frame with a proven box-section design

The main frame is constructed using a proven box-section design, which provides maximum torsional stiffness and optimal absorption of forces. Cast steel is used for components subjected to high stress.

Optimised equipment

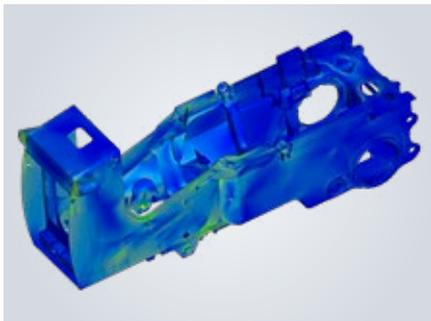
Liebherr blades are manufactured using high-quality steels and are based on a modular design principle. The robust blade mountings provide optimum rigidity and enable the blade to be guided precisely. All rear-mounted ripper variants are designed for heavy-duty mining operations and deliver very high penetration forces. In addition, exposed areas such as bolt connections are protected by appropriate wear protection.

Robust radiator version

For work in very dusty environments, reliable and corrosion-resistant radiators are used. The louvre slats on these are spaced widely at 8 mm. These offer optimum protection against dirt and environmental influences.

Options for arctic and high altitude package

For operation at low temperatures and high altitudes, Liebherr can provide a number of proven ex-factory adaptations.



Designed for the harshest applications

- Optimised layout: at the development stage components are designed with state-of-the-art software tools
- Extensive test bench runs are the next important step in the development process
- Long-term field tests under rigorous conditions ensure maximum machine availability

Liebherr component integration

- Liebherr has decades of experience in developing, designing and manufacturing components and, as a result, offers maximum reliability
- Important key components such as diesel engines, splitter box, hydraulic pumps and -motors, hydraulic cylinders, final drives and electronics are manufactured in our own facilities, optimised for combined operation and representing the highest quality

The right configuration for tough and abrasive operations

- The combined overflow panel with rock guard offers optimum protection for the radiator and also gives the driver excellent visibility to the material in the dozer blade
- For very abrasive operations, there is the option of fitting ultra-wear-resistant steel panels to the blade, to the dozer push frame and to the hydraulic tilt and pitch cylinders

Customer service



Cost-effective maintenance

Simple daily checks

All items that the operator checks during daily routine inspections are readily accessible on one side of the engine. The hydraulically tilted cab provides easy access to components as well. Service work can be performed quickly and efficiently.

Long maintenance intervals

The maintenance intervals are perfectly matched to suit individual components. In exposed areas zero-maintenance bearings are used. Particularly long maintenance intervals for engine oil and hydraulic fluid help reduce costs and increase availability, respectively.

Optimal planning

Planned costs

Liebherr mining dozers come with extensive standard warranties for the entire machine and the drive train. Customised inspection and service programs allow optimal planning of all maintenance activities.

Remanufacturing

The Liebherr-Reman Programme provides a cost-effective way of upgrading components to meet the stringent quality standards of the originally manufactured equipment. Various reconditioning levels are available including replacement components and general overhaul or repair. This assures the customer the most economical and highest quality component for the service life of the machine.

The focus is on the customer

Professional advice and service

Professional advice is given at Liebherr. Experienced specialists provide guidance for your specific requirements including application-oriented service support, service agreements, value-priced repair alternatives, original parts management, as well as remote data transmission for machine planning and fleet management.

Continuous dialog with users

We utilise the expert knowledge and practical experience of our customers to continuously optimise our machines and services – real solutions for real situations.



World-class support, everywhere, every day

With their low maintenance requirements, Liebherr crawler tractors make a reliable contribution to the economic success. The competent and dense Liebherr service network means quick support and short distances for the user.

Tilting cab

The standard cab can be tilted, if required, allowing quick and easy access to all components of the hydrostatic travel drive. This saves time and increases machine availability.

Extended components and fluids lifetime

Liebherr is constantly working on ways to extend component life. Through the Exchange Components program, superior lubrication systems and the reinforcement of parts under stress, Liebherr can reduce frequency of part replacement. The result minimizes environmental impact and lowers the overall total cost of ownership.



Easy access

- All service points are centrally located and easily accessible. Thanks to wide-opening access doors, routine inspection of the machine is easily performed
- Lube points for the equalizer bar are arranged conveniently inside the engine compartment
- The standard lighting inside the engine compartment is a great help for maintenance and servicing work



Hinged cooling fan

- In very dusty working environments, the hinged guard makes it a great deal easier to clean the radiator system. The radiator shroud can be lifted up after unfastening just a few screws
- On the PR 776, as a standard feature, the hydraulic oil cooling fans can be opened up for cleaning without the need for tools



Expedited spare parts service

- 24-hour delivery – spare parts service is available for our dealers around the clock
- The electronic spare parts catalogue allows fast and reliable selection and ordering via the Liebherr online portal
- With online tracking the current processing status of your order can be viewed at any time

Safety



Protecting your most important assets

The Liebherr PR 776 offers an uncompromising safety concept for drivers and for service personnel. Maintenance and service points are readily accessible and this, in conjunction with wide-opening covers, enables maintenance and service work to be carried out rapidly and safely. In addition, the cab of the PR 776 G8 offers a wide range of safety features that guarantee maximum protection.

Highest safety standards

Best all-round visibility with integrated ROPS/FOPS protection

A new feature in this machine class is the ROPS/FOPS protection integrated directly in the cab structure of Liebherr mining dozers. This provides perfect all-round visibility, substantially improving productivity and, even more importantly, improving workplace safety.

Rear-view camera

The image from the standard reversing camera is integrated directly in the front display and this switches into full-screen mode automatically whenever the dozer is reversing. This offers an optimum level of safety and comfort.

Working platforms

To make inspection and service work as convenient as possible for maintenance personnel, an optional working platform with handrail can be supplied. Access to components like the air-con unit, oil cooler and electronics is therefore a very safe process.

Lighting for the access steps

From ground level, the driver can activate the access steps lighting. This lights up the entire area for the left-hand access steps.

Optional powered access ladder

Enhance safety during shift changes and maintenance schedules by facilitating easy access to the machine's catwalk.

Automatic parking brake

When the machine is stationary, the parking brake is activated automatically. This prevents the machine from rolling away. The zero-wear parking brake releases automatically whenever the dozer starts travelling, making operation even more convenient.

Safe access to the workplace and the service points

Readily accessible and ergonomic handles with non-slip access steps make the driver's cab easy and safe to enter and leave.



Optimum visibility

- The PR 776 offers optimum visibility to all sides, even with the optional work platform installed. People and obstacles can be detected very well. Especially in mining applications, this feature contributes substantially to enhanced safety
- The containers with sloping edges provide clear visibility of areas close to the machine

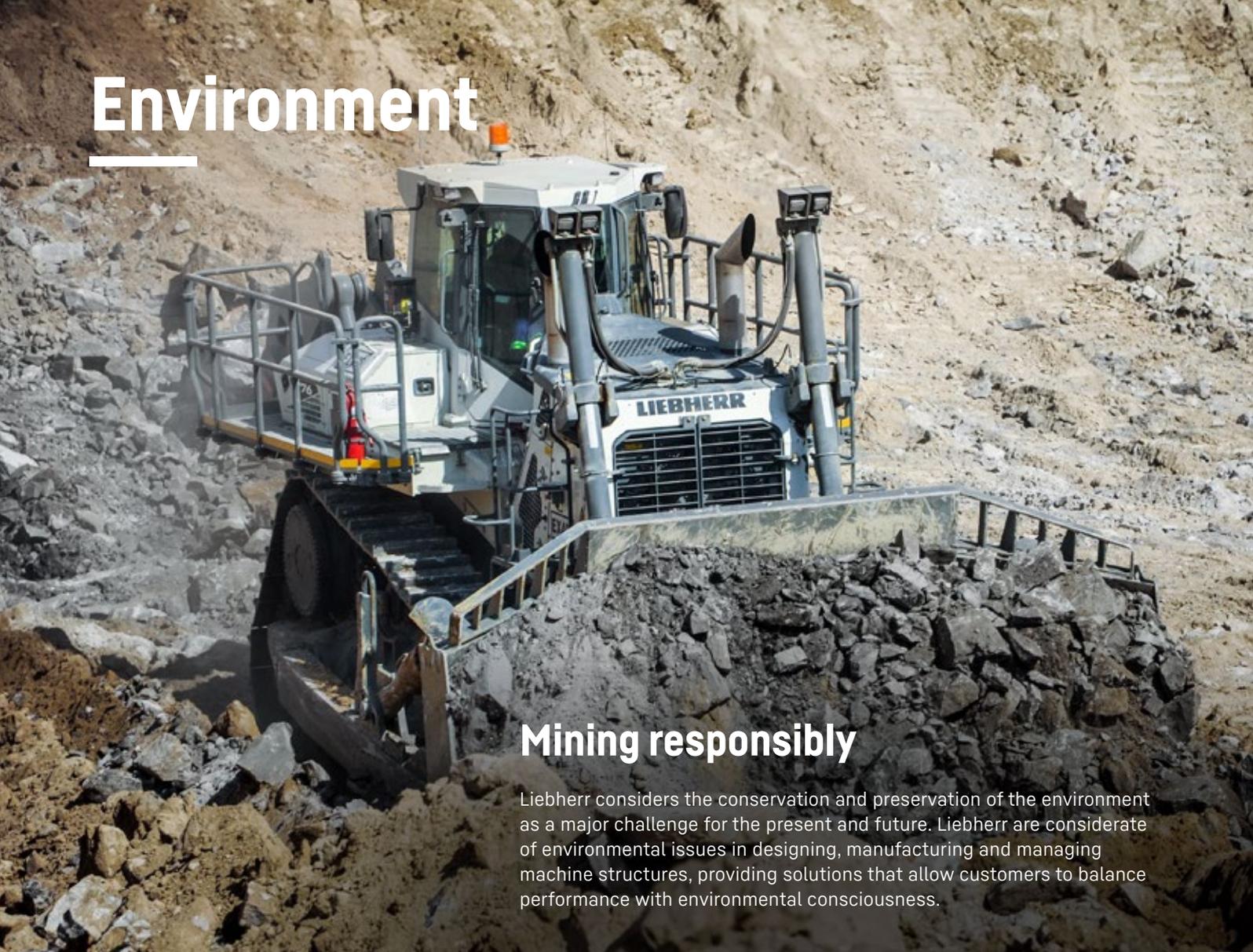
Ground-level operating panel

- The operating panel is easy to reach from ground-level, and this makes it possible to activate the cab access step lighting
- It is also a quick and safe operation to speed-fill the fuel tank on this dozer
- The emergency-stop button integrated directly in the control panel can be operated at any time to shut down the entire unit

Modern lighting concept

- To provide optimum illumination of the working area, there is a choice of modern lighting, e.g. high-performance LEDs
- The modular lighting concept is part of the new machine design and it makes it possible to match the lighting to each application in an optimum manner

Environment



Mining responsibly

Liebherr considers the conservation and preservation of the environment as a major challenge for the present and future. Liebherr are considerate of environmental issues in designing, manufacturing and managing machine structures, providing solutions that allow customers to balance performance with environmental consciousness.

Minimised impact on life

Controlled emission rejection

The PR 776 is powered by a Liebherr D9512 diesel engine that complies with the latest emission limits in accordance with EU Regulation 2016/1628 Stage V and EPA Tier 4 Final emission standards. This ensures cost-efficient and environmentally friendly utilisation without compromising productivity.

Sustainable design and manufacturing process

Certified environment management systems

Subject to the stringent European program for the regulation of the use of chemical substances in the manufacturing process REACH*, Liebherr undertakes a global evaluation to minimize the impacts of hazardous material, pollution control, water conservation, energy and environmental campaigns.

*REACH is the European Community Regulation on chemicals and their safe use (EC 1907/2006). It deals with the Registration, Evaluation, Authorization and Restriction of Chemical Substances.



The Liebherr-Mining remanufacturing program

- Reduced environmental impact
- Second life for your components
- Reduced costs and investment
- Liebherr certified workshops
- Alternative to purchase brand-new replacement components



Eco mode

Eco mode can be manually selected by the operator when maximum power is not required, dependent upon the job needs:

- Less fuel consumption
- Less load on the engine
- Less noise pollution
- Less dioxide carbon emissions



Automatic idle control

Electronic idle control of the engine results in:

- Less fuel consumption
- Less load on the engine
- Reduced emissions
- More comfort to the operator (reduced noise pollution)

Technical data



Engine

Liebherr Diesel engine	D 9512 A7 Emission regulations according to 2016/1628 EU Stage V, EPA Tier 4 Final or Tier 0
Rated power (net) ISO 9249 FDW / REV SAE J1349 FDW/REV	440 / 565 kW / 598 / 768 HP 440 / 565 kW / 590 / 757 HP
Maximum power (net) ISO 9249 FDW / REV SAE J1349 FDW / REV	506 / 565 kW / 687 / 768 HP 506 / 565 kW / 678 / 757 HP
Rated speed	1,600 rpm
Displacement	24.21 / 1,477 in ³
Design	12 cylinder V-engine, water-cooled, turbocharged, air-to-air intercooler
Injection system	Direct fuel injection, Common Rail, electronic control
Lubrication	Pressurised lube system, engine lubrication guaranteed for inclinations up to 35° (lateral slope) and up to 45° (longitudinal slope)
Operating voltage	24 V
Alternator	24 V / 140 A
Starter	24 V / 2x8.4 kW / 11 HP
Batteries	4x 180 Ah / 12 V
Air cleaner	Dry-type air cleaner with pre-cleaner, main and safety elements, control light in the operator's cab
Cooling system	Combi radiator, comprising a radiator for coolant and charge air. Hydrostatic fan drive



Hydraulics

Hydraulic system	Load sensing (demand-controlled)
Pump type	Swash plate piston pump
Max. Pump flow	352 l/min. / 92.9 gpm
Max. Pressure	260 bar / 3,770 psi
Control valve	4 segments, expandable
Filter system	Return filter with magnetic rod in the hydraulic tank
Control	Single joystick for all blade functions Single joystick for all ripper functions



Travel drive

Transmission system	Infinitely variable hydrostatic travel drive, independent closed loop system for each track
Travel speed max. speed FWD max. speed REV	Continuously variable 10.5 km/h 10.5 km/h
Electronic control	The electronic system automatically adjusts travel speed and drawbar pull to match changing load conditions
Steering	Hydrostatic
Service brake	Hydrostatic (self-locking), wear-free
Parking brake	Multi-disk brake, wear-free, automatically applied with neutral joystick position
Cooling system	Two separate hydraulic oil coolers, hydrostatic fan drives
Filter system	Micro cartridge filters in replenishing circuit
Final drive	Combination spur gear with planetary gear, double-sealed (duo cone seals), temperature controlled
Control	Single joystick for all travel and steering functions



Operator's cab

Design	Resiliently mounted cab with positive pressure ventilation, can be tilted with hand pump 40° to the rear. With integrated ROPS Rollover Protective Structure (EN ISO 3471) and FOPS Falling Objects Protective Structure (EN ISO 3449)
Operator's seat	Air-suspended and heated comfort seat, fully adjustable
Monitoring	Touch screen: display of current machine information, automatic monitoring of operating conditions. Individual setting of machine parameters
Display	Color LCD-display with low and high brightness settings
Rear view camera	Camera installation on the back of the dozer, displayed over the LCD-display
Heating system / Air conditioning	Standard air conditioning, combined cooler / heater, additional dust filter in fresh air / recirculated
Vibration emission Hand / arm vibrations	< 2.5 m/s ² , according with ISO 5349-1:2001 or ISO 5349-2:2015-12
Whole-body vibrations	0.24–1.31 m/s ² , complies with technical report ISO/TR 25398:2006
Measuring inaccuracy	According with standard EN 12096:1997

Undercarriage

Design	Undercarriage with oscillating idlers and rollers
Mounting	Via separate pivot shafts and equalizer bar
Track chains	Lubricated, single-grouser track shoes, tensioning via a steel spring and grease tensioner
Links, each side	44
Track rollers, each side	8
Sprocket segments, each side	5
Track shoes, standard	610 mm / 24"
Track shoes, optional	710 mm / 28" 762 mm / 30"
Track shoe type	SESS (Super Extrem Service Shoes)

Sound levels

Operator sound exposure ISO 6396	
L_{pA} (in the cab)	75 dB(A)
Exterior sound pressure 2000/14/EC	
L_{WA} (to the environment)	116 dB(A)

Electric system

Electric isolation	Lockable battery isolator switch
Working lights	- 4 on the lifting cylinders (LED) - 4 on the cabin front (LED) - 2 on the rear console (LED) - 1 in the engine compartment
Emergency stop switches	In the cab and on the ripper

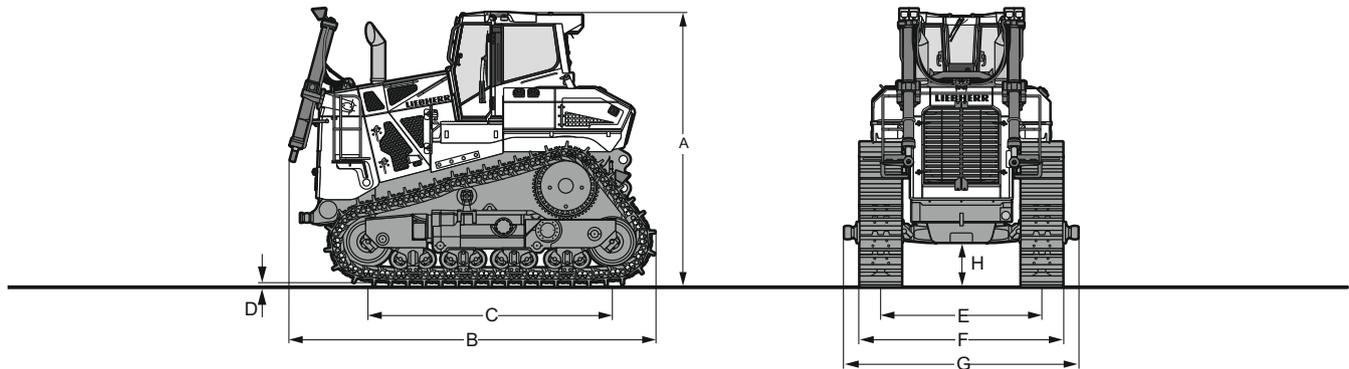
Refill capacities

Fuel tank	1,224 l / 323.3 gal
Diesel Exhaust Fluid (DEF) tank	132 l / 34.9 gal
Cooling system	110 l / 29 gal
Engine oil with filter	93 l / 24.6 gal
Splitter box	16 l / 4.2 gal
Hydraulic tank	320 l / 84.5 gal
Final drive, each side	43 l / 11.4 gal

Drawbar pull

Max.	955 kN
at 1.5 km/h / 0.9 mph	842 kN
at 3.0 km/h / 1.9 mph	452 kN
at 6.0 km/h / 3.7 mph	226 kN
at 9.0 km/h / 5.6 mph	151 kN

Dimensions



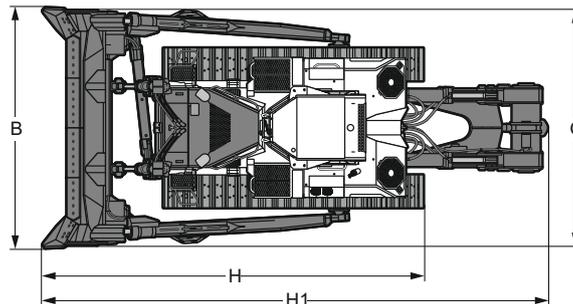
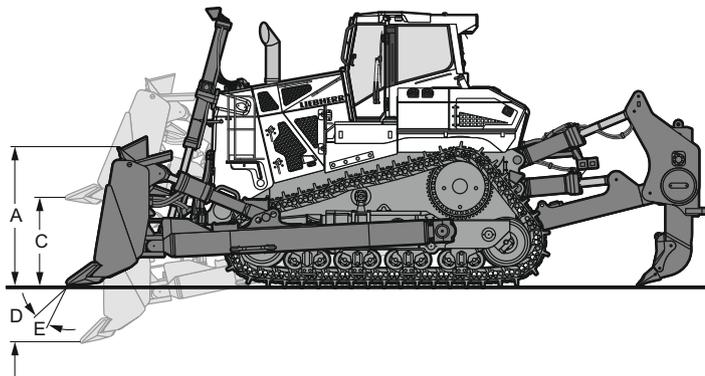
Dimensions

A Height over cab	mm	4,350 ²⁾
	ft in	14'3"
B Overall length without attachments	mm	5,770
	ft in	18'11"
C Length of track on ground	mm	3,867
	ft in	12'8"
D Height of grousers	mm	93
	ft in	3.6"
H Ground clearance	mm	703
	ft in	2'4"
E Track gauge	mm	2,550
	ft in	8'4"
G Width over trunnions	mm	3,715
	ft in	12'2"
F Track shoes 610 mm / 24"		
Width over tracks	mm / ft in	3,160 / 10'4"
Tractor shipping weight ¹⁾	kg / lb	53,100 / 117,065
F Track shoes 710 mm / 28"		
Width over tracks	mm / ft in	3,260 / 10'8"
Tractor shipping weight ¹⁾	kg / lb	53,744 / 118,485
F Track shoes 762 mm / 30"		
Width over tracks	mm / ft in	3,310 / 10'10"
Tractor shipping weight ¹⁾	kg / lb	54,066 / 119,195

¹⁾ Including coolant and lubricants, 20% fuel, ROPS / FOPS cab.

²⁾ Transport shipping height increases with optional equipment: Trimble® Earthworks Grade control ready kit +120 mm, amber beacon/beacon +190 mm, dust filter overpressure system for cab +555 mm, protective cover for air conditioning condenser +80 mm, other equipment on request.

Front attachments



Semi-U-Schild

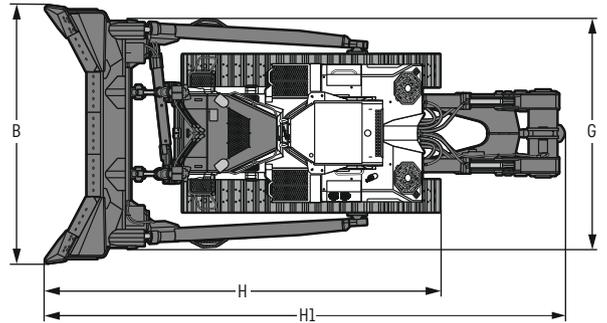
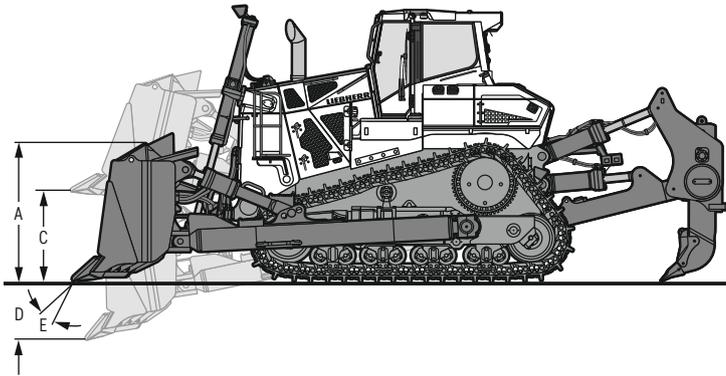
Blade capacity, ISO 9246	m³	18.5
	yd³	24.2
A Height of blade	mm	2,125
	ft in	7'
B Width of blade	mm	4,830
	ft in	15'10"
C Lifting height¹⁾	mm	1,565
	ft in	5'2"
D Digging depth²⁾	mm	670
	ft in	2'2"
E Blade pitch adjustment		11°
Max. blade tilt	mm	1,245
	ft in	4'1"
G Width over push frame	mm	4,674
	ft in	15'4"
H Overall length, without ripper	mm	7,625
	ft in	25'
H1 Overall length, with ripper in max. extended position	mm	10,094
	ft in	33'1"
F Track shoes 610 mm / 24"		
Operating weight ³⁾	kg / lb	71,800 / 158,292
Ground pressure ³⁾	kg/cm² / psi	1.52 / 21.61
F Track shoes 710 mm / 28"		
Operating weight ³⁾	kg / lb	72,444 / 159,711
Ground pressure ³⁾	kg/cm² / psi	1.32 / 18.77
F Track shoes 762 mm / 30"		
Operating weight ³⁾	kg / lb	72,766 / 160,421
Ground pressure ³⁾	kg/cm² / psi	1.24 / 17.63

¹⁾ With fully retracted tilt / pitch cylinders, the mechanical pitch adjustment bolted in the rear position and including the grouser height, the lifting height is 1,863 mm (6'1").

²⁾ With mechanical pitch adjustment bolted in the rear position and including the grouser height, the digging depth is 501 mm (19.7").

³⁾ Including coolant and lubricants, 100% fuel, ROPS / FOPS cab, operator, Semi U-blade with 1-shank ripper.

Front attachments



U-Blade

Blade capacity, ISO 9246	m ³	22.0
	yd ³	28.77
A Height of blade	mm	2,125
	ft in	7'
B Width of blade	mm	5,270
	ft in	17'3"
C Lifting height ¹⁾	mm	1,565
	ft in	5'2"
D Digging depth ²⁾	mm	670
	ft in	2'2"
E Blade pitch adjustment		11°
Max. blade tilt	mm	1,360
	ft in	4'6"
G Width over push frame	mm	4,674
	ft in	15'4"
H Overall length, blade straight	mm	7,971
	ft in	26'2"
H1 Overall length, with rear ripper in max. extended position	mm	10,440
	ft in	34'3"
F Track shoes 610 mm / 24"		
Operating weight ³⁾	kg / lb	72,223 / 159,224
Ground pressure, ISO16754 ³⁾	kg/cm ² / psi	1.53 / 21.76
F Track shoes 710 mm / 28"		
Operating weight ³⁾	kg / lb	72,867 / 160,644
Ground pressure, ISO16754 ³⁾	kg/cm ² / psi	1.32 / 18.77
F Track shoes 762 mm / 30"		
Operating weight ³⁾	kg / lb	73,189 / 161,354
Ground pressure, ISO16754 ³⁾	kg/cm ² / psi	1.24 / 17.63

¹⁾ With fully retracted tilt / pitch cylinders, the mechanical pitch adjustment bolted in the rear position and including the grouser height, the lifting height is 1,863 mm (6'1").

²⁾ With mechanical pitch adjustment bolted in the rear position and including the grouser height, the digging depth is 501 mm (19.7").

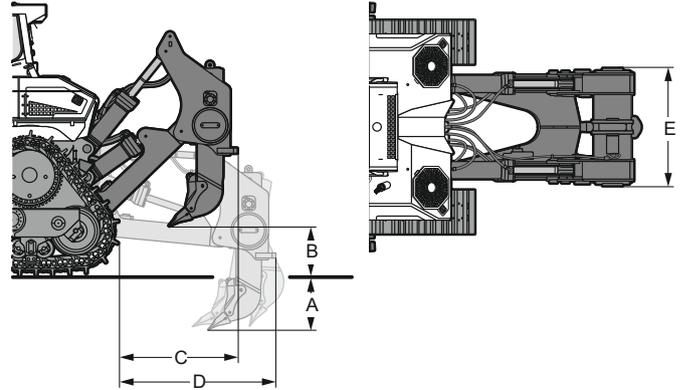
³⁾ Including coolant and lubricants, 100% fuel, ROPS / FOPS cab, operator, Semi U-blade with 1-shank ripper.

Rear attachments

1-Shank ripper

Parallelogram		hydraulic pitch adjustment	
		standard shank	deep shank *
A Ripping depth (max. / min.)	mm	1,445 / 705	1,895 / 705
	ft in	4'9" / 2'4"	6'3" / 2'4"
B Lifting height (max. / min.)	mm	958 / 218	959 / 364
	ft in	3'2" / 9"	3'2" / 1'2"
C Additional length, attachment raised	mm	1,949	1,949
	ft in	6'5"	6'5"
D Additional length, attachment lowered	mm	2,529	2,529
	ft in	8'4"	8'4"
E Overall beam width	mm	1,760	1,760
	ft in	5'9"	5'9"
Max. pitch adjustment		30°	30°
Maximum penetration force	kN	237	237
	lbf	53,280	53,280
Max. pryout force	kN	441	441
	lbf	99,141	99,141
Weight	kg	7,194	7,333
	lb	15,860	16,166

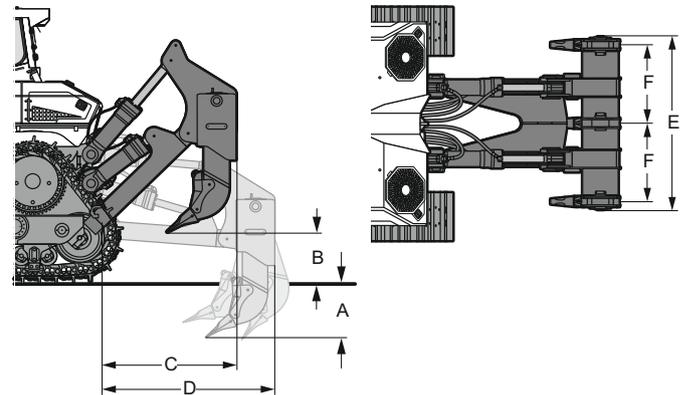
* Best performance to operate in loose material - deep shanks are designed for light and moderate duty.



3-Shank ripper

Parallelogram		hydraulic pitch adjustment	
		standard shank	deep shank *
A Ripping depth (max. / min.)	mm	900 / 650	1,896 / 706
	ft in	2'11" / 2'2"	6'3" / 2'4"
B Lifting height (max. / min.)	mm	1,014 / 764	958 / 164
	ft in	3'4" / 2'6"	3'2" / 6"
C Additional length, attachment raised	mm	1,904	1,904
	ft in	6'3"	6'3"
D Additional length, attachment lowered	mm	2,484	2,484
	ft in	8'2"	8'2"
E Overall beam width	mm	2,970	2,970
	ft in	9'9"	9'9"
F Distance between shanks	mm	1,300	1,300
	ft in	4'3"	4'3"
Max. pitch adjustment		30°	30°
Maximum penetration force	kN	219	219
	lbf	49,233	49,233
Max. pryout force	kN	441	441
	lbf	99,141	99,141
Weight	kg	9,430	10,290
	lb	20,790	22,686

* Best performance to operate in loose material - deep shanks are designed for light and moderate duty.



Standard equipment



Base machine

- Air filter, dry type, dual step with cyclones (pre-filter)
- Aluminium water and oil radiators wide-meshed
- Automatic dust ejector
- Battery compartment
- Cooling fan with safety guard
- Engine compartment doors
- Fluid sampling ports (engine-, splitter box-, hydraulic oil)
- Fuel pre-filter, with electric heater and water separator
- Heavy duty steps and handles
- Hinged coolant radiator fan
- Hinged heavy duty belly pan
- Hinged hydraulic oil radiator fans
- Hinged radiator safety guard (water cooler)
- Hydraulically driven cooling fans
- Liebherr Connect – Liebherr Data transmission system
- Liebherr diesel engine
- Quick oil drains (engine-, splitter box-, hydraulic oil)
- Thermal shields for turbo chargers
- Towing hitch (rear)
- Towing lug (front)
- Vandalism protection (7 padlocks)



Hydraulic

- Control blocks (two)
- Filters in replenishing circuits
- Float position blade
- Hydraulic kit for ripper
- Quick drop function blade
- Return filter in hydraulic tank
- Variable flow pump, load-sensing



Travel drive

- Automatic parking brake
- Filters in leak oil return circuits
- Filters in replenishing circuits
- Final drives planetary gear
- Hydrostatic travel drive
- Inch brake pedal
- Proportional travel drive joystick
- Travel speed ranges selection



Electrical system

- Cold start batteries
- Emergency stop on the ripper
- Ground level service station (entrance light)
- Horn
- LED working lights
- Light engine compartment
- Lockable battery main switch



Operator's cab

- Air-conditioning
- Armrests 3D adjustable
- Cab heating
- Coat hook
- Diagnostic connector
- Dome light
- Emergency stop switch
- Entry lights
- Footrest on the right side of the front console
- Longitudinally adjustable joysticks
- Operator awareness (seat contact switch)
- Operator's seat Comfort, air-suspended and heated
- Pressurised cab
- Radio preparation kit
- Rear mirror (inside)
- Rear view camera
- ROPS/FOPS integrated
- Safety switch
- Seat belt
- Socket 12V
- Stowage compartment, air-conditioned
- Tinted safety glass
- Touch-controlled colour display
- Windshield washer system
- Windshield wipers front, rear, doors, with intermittent function



Undercarriage

- 610 mm (24") track shoes
- Bolted sprocket segments
- Heavy duty track shoes (Super Extreme Service Shoes)
- Hydraulic track adjuster
- Oil-lubricated PPR tracks
- Rollers and idlers, lifetime lubricated
- Track guide
- Two-piece master link
- Undercarriage with oscillating idlers and rollers (bogie suspension)



Front attachments

- Rock guard with overflow panel on Semi U-blade
- Rock guard with overflow panel on U-blade



Control and warning lights

- Air filter contamination
- Battery charge
- Date and time
- Diesel engine
- Diesel engine preheating
- Diesel engine speed
- ECO-Mode
- Engine coolant temperature
- Float position blade
- Fuel level
- Fuel water separator
- Hour meter
- Hydraulic oil return filter contamination
- Hydraulic oil temperature
- Parking brake
- Pump replenishing pressure
- Travel drive oil temperature
- Travel speed ranges

Standard equipment may vary. Consult your Liebherr dealer for details.

Optional equipment



Base machine

- Extended tool kit
- Fuel pre-filter, with electric heater and water separator (metal bowl)
- Ground level quick change for engine, hydraulic and splitter box oil
- Ground level quick refill centralized lubrication system
- Ground level quick refill DEF
- Ground level quick refuelling
- Handrail without working platforms
- Hour meter in engine compartment
- Maritime transport packaging
- Powered access ladder
- Powered centralized lubrication system
- Reversible cooling fan
- Special colour scheme
- Thermal isolation for engine turbo charger and exhaust gas pipes
- Working platforms with handrail



Travel drive

- Detented travel drive joystick



Operator's cab

- Cabin pressurized dust filter system
- Emergency hammer in the cabin
- Fire extinguisher in the cab
- Laminated safety glass
- Operator's seat Premium with 3-point belt system
- Operator's seat Premium, air-suspended, heated and ventilated
- Radio
- Rear mirror left and right on cab, outside
- Sliding window left
- Sliding window rear
- Sliding window right
- Sunblind, all around



Electrical system

- Amber beacon
- Back-up alarm
- Back-up alarm (acoustic and visual, switchable)
- Back-up alarm (switchable)
- Emergency stops on engine hood (left and right)
- "High Density" (4,200 lm) LED working lights
- Jump start plug 24 V
- Lockable starter isolator switch
- One (1) additional LED working light on the ripper
- Two (2) additional LED working lights on the rear of the cab



Safety

- Acoustic warning device for belt buckle not to be deactivated
- Antifall guard on the cab
- Antifall guard on the lift cylinder



Undercarriage

- 710 mm (28") track shoes
- 762 mm (30") track shoes
- Carrier rollers
- Sprocket segments with recesses
- Track shoes with mud holes



Front attachments

- 18.5 m³ / 24.2 yd³ Semi U-blade
- 22.0 m³ / 28.77 yd³ U-blade
- 52.5 m³ / 68.66 yd³ Coal U-blade¹⁾
- 73.2 m³ / 95.74 yd³ Wood chip blade¹⁾
- Hydraulic pitch adjustment (dual tilt)
- Protection for blade pitch cylinder
- Protection for blade tilt cylinder
- Push plate for Semi U-blade
- Wear plates on push frame (580 kg / 1,279 lb)
- Wear plates on Semi U-blade (920 kg / 2,028 lb)
- Wear plates on U-blade (680 kg / 1,499 lb)



Rear attachments

- 1-Shank Ripper (standard or deep shank)
- 3-Shank Ripper (standard or deep shank)
- Counterweight (7,000 kg / 15,432 lb)
- Hydraulic pin puller for 1-shank ripper



Control and warning lights

- Auto Idle
- Automatic engine shut-down
- Coolant level
- Engine after run
- Hydraulic oil level
- Reversible fan



Specific solutions

- Arctic package (-30 °C / -22 °F, -40 °C / -40 °F)
- Coal stockpiling equipment package
- High altitude package > 2,500 m / 2734,03 yd



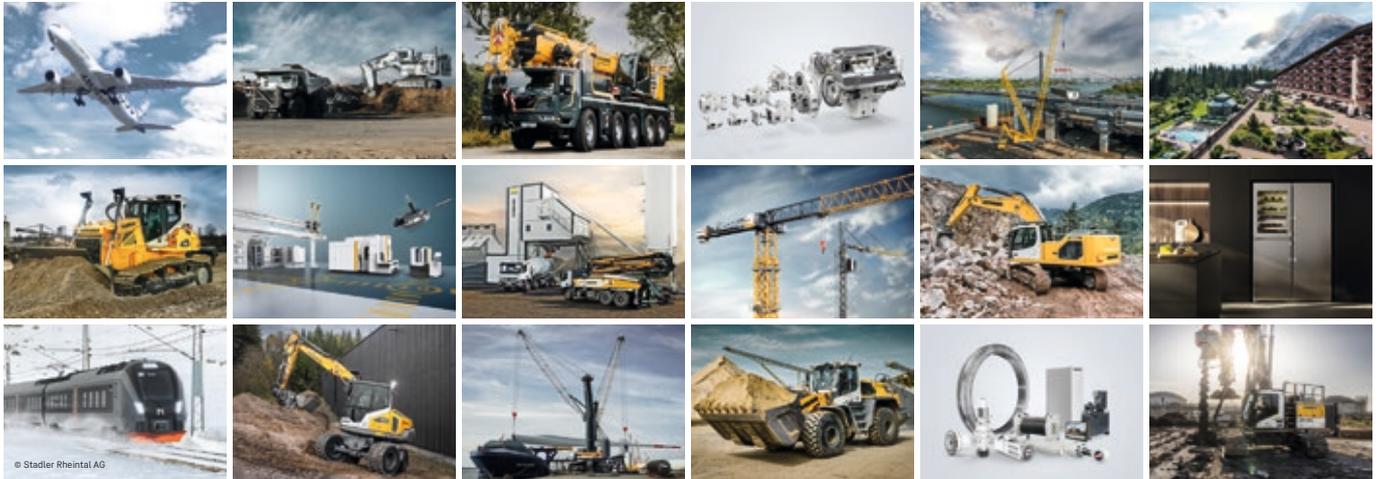
Assistance systems

- Liebherr Indicate
- Liebherr Free & Definition Grade
- Liebherr Auto-Blade-Lift & Auto-Blade-Lower
- Liebherr Auto-Blade-Pitch (Load-Carry-Dump)
- Liebherr Ripper-Auto-Lift, -Auto-Stow & -Auto-Lower
- LiReCon Dozer Kit¹⁾
- LiReCon Operator Station¹⁾
- Data interface
- Trimble® Earthworks Grade Control Ready Kit¹⁾
- Tilt limit warning & engine shut-off
- Track chain stress indicator

¹⁾ on demand at your dealer

Standard equipment may vary. Consult your Liebherr dealer for details.

The Liebherr Group



Global and independent: more than 75 years of success
 Liebherr was founded in 1949. With the development of the world's first mobile tower crane, Hans Liebherr laid the foundations of a successful family-run company which today comprises more than 150 companies on all continents with over 50,000 employees. The holding company of the Group is Liebherr-International AG in Bulle (Switzerland), whose shareholders are exclusively members of the Liebherr family.

Technology leadership and pioneering spirit
 Liebherr regards itself as a pioneer. This spirit has enabled the company to make a decisive contribution to the technological history of many industries. Today, employees around the world still share the courage of the company founder to take new paths. They are all united by a passion for technology and fascinating products and the determination to perform outstanding work for their customers.

Widely diversified product program
 Not only is Liebherr one of the biggest construction machine manufacturers in the world, it also provides high-quality, user-oriented products and services in a wide range of other areas. The product range includes the segments earthmoving, material handling, deep foundation, mining, mobile and crawler cranes, tower cranes, concrete technology, maritime cranes, aerospace and transportation systems, gear technology and automation systems, refrigerators and freezers, components and hotels.

Customized solutions and maximum customer value
 Liebherr solutions are characterized by maximum precision, outstanding implementation and exceptional longevity. Its mastery of key technologies enables the company to offer its customers customized solutions. For Liebherr, customer focus does not end with the product; it also encompasses a wide range of services that make a real difference.

www.liebherr.us

 WARNING
<p>Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <ul style="list-style-type: none"> - Always start and operate the engine in a well-ventilated area. - If in an enclosed area, vent the exhaust to the outside. - Do not modify or tamper with exhaust system. - Do not idle the engine except as necessary. <p>For more information go to www.P65warnings.ca.gov/diesel.</p>

 WARNING
<p>This product can expose you to chemicals including lead and lead compounds, which are known to the State of California to cause cancer and birth defects or other reproductive harm.</p> <p>For more information go to www.P65warnings.ca.gov.</p>

Liebherr-Werk Telfs GmbH
 Hans-Liebherr-Straße 35 • 6410 Telfs, Austria • Phone +43 50809 6-100
lwt.marketing@liebherr.com • www.liebherr.com • www.facebook.com/LiebherrConstruction