

# Technical Data

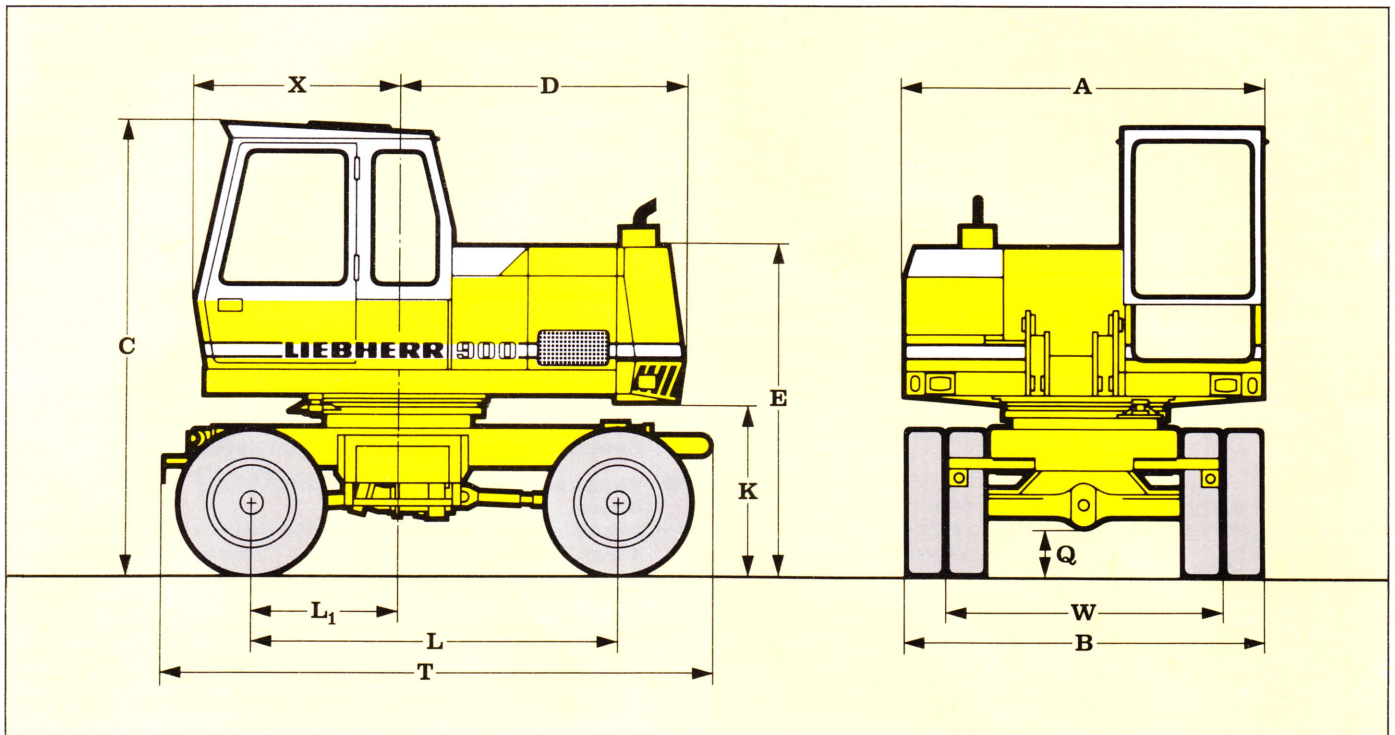
# A 9000

## Hydraulic Excavator

- Speeder -

SERIE **B**

### Basic machine



### Dimensions (equipped with 10.00-20 tires)

	ft-in	/mm		ft-in	/mm		
A	Width of machinery deck	8' 0"	/2440	L	Wheel base	8' 2"	/2500
B	Width of undercarriage	8' 2"	/2491	L <sub>1</sub>	Distance machine center - rear axle	3' 3"	/1000
C	Height of basic machine	10' 3"	/3118	Q	Ground clearance	1' 3"	/370
D	Tail reach	6' 5"	/1960	T	Length of undercarriage	12' 4"	/3767
	Tail swing	6' 9"	/2050	W	Tread width	6' 3"	/1910
E	Height without cab	7' 5"	/2263	X	Axis of rotation to front of cab	4' 6"	/1372
K	Clearance under counterweight	4' 0"	/1218				

### To order

- Basic machine for DEUTZ Diesel engine
- Speeder Package with Deutz Diesel Engine
- Tires - as applicable
  - 8 tires 9.00-20
  - 8 tires 10.00-20
  - 4 high floaton 18.00-19,5

I.D. No.

9188875

9194243

### Operating Weight

Operating weight includes basic machine with two-piece boom 10'2"/3100 mm stick 5'3"/1600 mm and bucket with 0.6 cuyd/0.5 m<sup>3</sup> capacity

without stabilization  
with dozer blade  
with rear outriggers

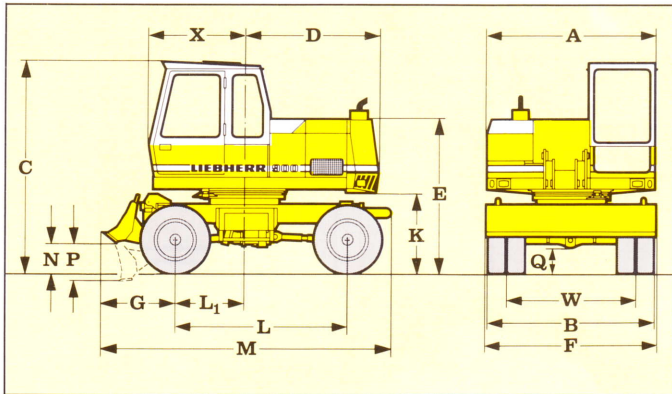
26,460 lb/12,000 kg  
28,000 lb/12,700 kg  
28,665 lb/13,000 kg

# LIEBHERR

# Optional Chassis

# A900

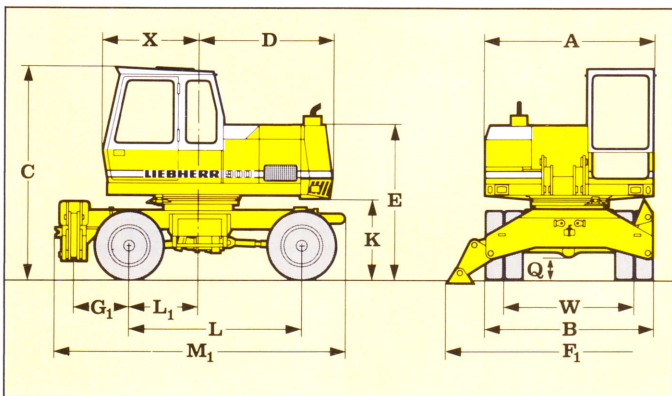
## Basic machine with rear dozer blade



### To order

- |  |            |
|--|------------|
|  | I.D. No.   |
| ● Basic machine for DEUTZ Diesel engine    | 9188875    |
| ● Speeder Package with Deutz Diesel Engine | 9194243    |
| ● Tires - as applicable                    |            |
| 8 tires                                    | 9.00-20    |
| 8 tires                                    | 10.00-20   |
| 4 high flotation                           | 18.00-19.5 |
| ● rear dozer blade                         | 9189954    |

## Basic machine with rear outriggers



### To order

- |  |            |
|--|------------|
|  | I.D. No.   |
| ● Basic machine for DEUTZ Diesel engine    | 9188875    |
| ● Speeder Package with Deutz Diesel Engine | 9194243    |
| ● Tires - as applicable                    |            |
| 8 tires                                    | 9.00-20    |
| 8 tires                                    | 10.00-20   |
| 4 high flotation                           | 18.00-19.5 |
| ● rear outriggers                          | 9191601    |

## Dimensions (equipped with 10.00-20 tires) ft-in /mm

A	Width of machinery deck	8' 0"/2440
B	Width of undercarriage	8' 2"/2491
C	Height of basic machine	10' 3"/3118
D	Tail reach	6' 5"/1960
	Tail swing	6' 9"/2050
E	Height without cab	7' 5"/2263
F	Width over dozer blade	8' 2"/2500
F <sub>1</sub>	Width over outriggers	11' 9"/3593
G	Distance rear axle - dozer blade	3' 4"/1015
G <sub>1</sub>	Distance rear axle - outriggers	2' 7"/ 800

## ft-in /mm

K	Clearance under counterweight	4' 0"/1218
L	Wheel base	8' 2"/2500
L <sub>1</sub>	Distance machine center - rear axle	3' 3"/1000
M	Length of undercarriage with dozer blade	13' 8"/4172
M <sub>1</sub>	Length of undercarriage with rear outriggers	13' 11"/4235
N	Clearance under dozer blade	1' 6"/ 455
P	Total blade lift	2' 2"/ 665
Q	Ground clearance	1' 3"/ 370
W	Tread width	6' 3"/1910
X	Axis of rotation to front of cab	4' 6"/1372

# Technical Description

# A900

## Engine

DEUTZ Diesel Engine BF 4 L 913, air-cooled  
Rating per  
DIN 6271: 67 kW (91 BHP) at 2000 RPM  
SAE: 95 BHP (max. BHP at 2000 RPM)  
SAE: 112 BHP (max. BHP at 2500 RPM)

Fuel Tank Capacity 59 gallons/222 liters  
Dry Air Cleaner with Pre-Cleaner and Safety Element.  
24 Volt Electrical System, 27 amp. Alternator, two 12 Volt HD Starting Batteries, 110 Ah.

Optional:  
Sensor controlled automatic engine idling system.

## Hydraulic System

LIEBHERR variable displacement, swash plate, tandem, axial piston pumps.  
Summated Horsepower Regulation.  
Max. flow 2 x 23 gpm/2 x 86 l/min.  
Max. Operating pressure 4640 PSI/320 bar.  
Hydraulic System Capacity 66 gal/250 l.

## Hydraulic Controls

Monoblock control valves with integrated primary and flanged on secondary relief valves.  
Automatic flow summation for all attachment functions.  
Swing priority.  
Independent control of all attachment functions simultaneously with swing and travel.  
Proportional control of all functions by way of two maintenance-free joystick levers and two toe-heel travel foot pedals.

## Swing Drive

Swing drive driven by a LIEBHERR axial piston motor flanged to a planetary reduction gear.  
Hydraulically actuated disc type swing brake and lock.  
LIEBHERR ball bearing swing ring with internal teeth, and semi-automatic lubrication from the cab.  
Swing function may be used to counter-rotate from one direction to the other.  
Upper carriage can be mechanically pinned to undercarriage in two positions (180 deg. apart).  
Swing speed 0 - 10 RPM.

## Chassis

Rigid one-piece, torque resistant box-type welded structure.  
Each outrigger is actuated by an individual cylinder with hydraulic line failure safety valve.  
Dozer blade can be raised and lowered during travel.

## Travel Drive

All wheels are driven by a variable displacement piston motor with integrated retarding valve, to prevent overspeeding.  
Excavator axles designed for loads up to 57,000 lb/26 t.  
Two-speed power shift transmission with electrically actuated creeper speed.  
Planetary reduction gears with multi-disc brakes integrated into hub. The oscillating steering axle can be hydraulically locked in any position.  
Forward and reverse drive is selected by a selector switch at the steering column. Travel speed controlled by footpedal.  
Travel Speed: low gear (cross country) 0 to 5.8 mph/0 to 9.3 km/h  
high gear (highway) 0 to 20.5 mph/0 to 33 km/h

## Steering

Servo hydraulic assisted, maintenance-free power steering with proportional operating characteristics.  
Turning radius: 12'6"/3.8 m inner wheel  
22'4"/6.8 m outer wheel.

## Operator's Cab

Resiliently mounted, two-piece, insulated cab, with 360 degree visibility and retractable front window.  
Fully adjustable, body contoured seat with shock absorber, built-in arm rests and integrated joysticks.  
Left arm rest tilts up for easier entry and exit also automatically inactivates the servo controls.  
Easy-to-read instrument and control panel in easy range of operator.  
Independent, diesel fueled heater unit can be used to provide heated, circulated, or cool fresh air.

## Attachments

Box section design with forged or cast steel members at high stress areas.  
Sealed bushings for increased lubrication intervals. LIEBHERR manufactured.  
Hydraulic cylinders with Teflon-based, non-ferrous metal reinforced seals and support rings, step seals and cylinder cushions.  
Hydraulic tubes and hoses with SAE split-flange connections.  
A backhoe/clamshell switch valve and all backhoe/clamshell hydraulic lines are standard equipment, allowing quick and easy attachment changes.  
The LIEBHERR bucket also comes equipped with an integrated 8 ton safety hook.

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