# CASE

## **Wheeled Excavator**

Operational weight: 9 tons
Perkins engine: 57 kW (76.5 hp)
Hydrostatic transmission with 4 wheel steer







## **ENGINE**

Make PERKINS
Model
Typediesel, 4 stroke, direct injection
Number of cylinders
Displacement
Bore x stroke
Cooling water-cooled
Net power EEC 80/1269 (road) 76.5 hp / 57 kW
Engine speed (road)
Net power EEC 80/1269 (work) 71 hp / 53 kW
Engine speed (work)
Engine conforming to European norms in force.
Engine auto idle can be deactivated manually.
Electronic control of engine speed by an electric selector
switch.
Cold start device.



## **HYDRAULIC SYSTEM**

Closed centre Load Sensing hydraulic system for controlling the attachment and an independent circuit for upperstructure swing to ensure perfect simultaneity of all movements.

#### **PUMPS**

### CONTROL VALVES

- One closed centre control valve block (with 9 sections, of which 1 is reserved for the auxiliary circuit). This block controls the attachments, the dozer blade (or the stabilisers) and travel.
- One block of 1 section for upperstructure swing control.

## UPPERSTRUCTURE SWING

Engine	with axial pistons
Swing speed	9 rpm
Swing brake	
Final drive	epicyclical oil immersed
Turntable	in a grease bath
Mechanical swing locking control	1

#### **CYLINDERS**

Cylinders with end of stroke shock absorbers. Safety valves on boom, offset, dozer blade and axle locking cylinders



Circuit	24 volts
Maintenance free batteries	2 x 12 v. – 75 A/h
Alternator	55 A
Double sealed electrical connections	



## **UNDERCARRIAGE**

Modular frame allowing the assembly of dozer blade or stabilisers (front and rear).

Toolbox.

#### TRANSMISSION

Hydrostatic with 4 drive wheels The hydraulic motor acts through a gearbox and has 2 gear ranges.

### Road speed

First 0 to 10 km	/h
Second 0 to 20 km	/h
Third 0 to 30 km	/h
Gradient that can be overcome	%

### Work speed

First 0 to 4	km/h
Second	km/h
Third 0 to 11	km/h
Gradient that can be overcome	60 %

## AXLES

Axles with oil immersed disk brakes **Rear axle:** fixed directional **Front axle:** swivelling directional

Total swivel		15°
Vertical clearance	290	mm
The front axle can be blocked hydraulical	1177	

#### **TYRES**

8 wheels	8.25 x 20 with	twinning rings
4 wheels		500/45 x 20

## **STEERING**

Type ORBITROL with sa	fety valves
Pump	with gears
Double rod cylinders, with double action	

Choice, by means of a selector switch, between

3 steering modes

- 2 wheel steer
- 4 wheel steer
- Crab steer

Ability to turn with the engine stopped

Turning radius outside the tyres:

Front axle turned	6.00	m
Front and rear axles turned	3.60	m

**Note:** the maximum speed can be reached only in the 2 wheel steer position.





#### BRAKES

**Brake lock and service brakes:** oil immersed disk brakes acting on the 4 wheels with independent double circuit

**Parking brakes:** oil immersed multiple disks brakes. Mechanical engagement, electro-hydraulic disengagement

**Emergency brake:** with an independent double circuit to ensure braking on at least one axle in case of engine failure



#### CAB

Fitted with a maximum of "comfort" accessories in the standard model, the cab is equipped with large tinted glasses, a sun visor on the rear window, a sun roof, a windscreen wiper and windshield washer system, a heating system, providing the best comfort whatever the external temperature conditions.

The adjustable suspension seat is equipped with armrests and a safety belt.

The small "hydraulically" assisted steering wheel, is mounted on an adjustable steering column; the operator can make use of a radio with loudspeakers integrated into the cab. The operation and control of the main functions of the machine are grouped together on three ergonomic consoles located in the operator's best field of vision according to the work being carried out.



## STEERING COLUMN

(Control during the machine's travel) groups together the following functions:

- Rotary selector to control the parking brake, the service brake and axle locking. The engine cannot be started if this selector is not in the "parking brake" position.
- Speed indicator (tachometer)
- Brake pressure gauge.
- Brake control, axle locking and «road» light indicators.
- Gearshift control lever (3 per range).
- High beam, directional signal, windscreen washer, windscreen wiper and horn control lever.
- Emergency indicator control knob
- Contact switches placed along the steering column for:
  - Hammer circuit, roof light, pilot circuit locking

(cancellation of attachment and swing movements during road travel) and «anti-tilt» warning.

#### MAIN INSTRUMENT PANEL

Placed in front and on the right of the operator's seat, it groups together the machine's main indicators and controls:

- Dial gauges with audible and visible alarm to indicate
  the engine temperature and diesel oil level, economy
  (E) mode indicator, control and indicator of the auto
  idle position, Speed range control (road, work site),
  audible alarm cancellation, engine oil, coolant and
  hydraulic oil level control button, battery charge and
  air filter clogging indicator lamp, work lamp control
  and indicator.
- The hour meter placed on the side of the instrument panel is visible from the ground.
- Electronic immobiliser lock with red flashing operating light.



## SIDE INSTRUMENT PANEL:

Placed on the side of the right hand control lever, it groups together the following functions:

- Engine battery master key, economy (E) mode control button, engine swing speed adjustment control, steering mode (normal, 4 wheel steer, crab steer) selection control button with audible and visible warning for rear wheel realignment (mandatory for changing modes).
- Cab heating and air-conditioning controls (optional)



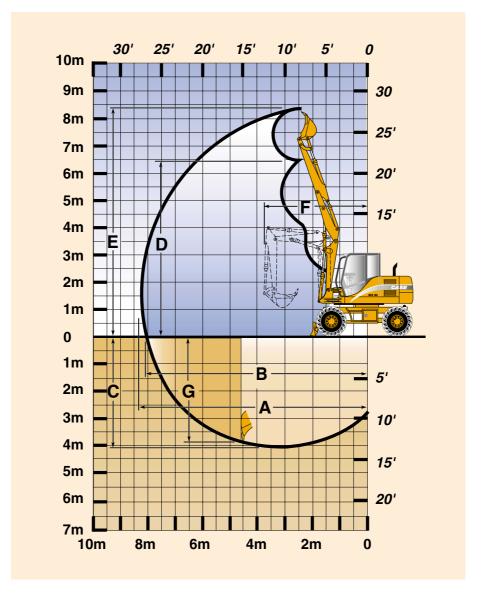
## **CAPACITIES**

Engine oil	8.5 1
Coolant	
Fuel reservoir	147 1
Hydraulic system	120 1
Axles (total)	19 l
Swing reduction gear	3 1



The standard model of the WX90 is equipped with a monobloc, articulated or offset boom, mounted on a swing swivel, and a 1.85 m dipper and 600 mm bucket (181 l).

# BACKHOE EQUIPMENT

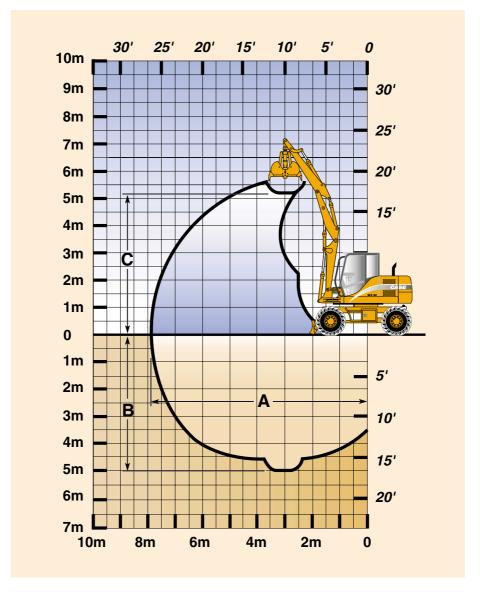


	boom:	Articulated		Monobloc		Offset boom	
	dipper (m)	1.85	2.20	1.85	2.20	1.85	2.20
A Maximum digging reach	m	7.85	8.20	7.05	7.40	6.85	7.20
<b>B</b> Maximum digging reach at ground levell	m	7.65	8.00	6.80	7.15	6.65	7.00
C Maximum digging depth	m	3.75	4.10	3.65	4.00	3.60	4.00
<b>D</b> Maxi dump height	m	6.05	6.35	4.35	4.55	3.80	4.00
E Overall reach height	m	7.90	8.20	6.10	6.30	5.60	5.75
F Minimum swing radius	m	3.25	3.45	3.10	3.10	3.05	3.05
<b>G</b> Vertical straight wall dig depth	m	3.60	3.95	3.30	3.65	3.20	3.60
Digging force	daN	4400	3900	4400	3900	4400	3900
Breakout force	daN	5400	5400	5400	5400	5400	5400



SAE capacity	Litres	50	75	145	181	217	290
Width	mm	280	350	450	600	700	800
Weight	kg	78	85	128	137	147	163

# CLAMSHELL ATTACHMENT



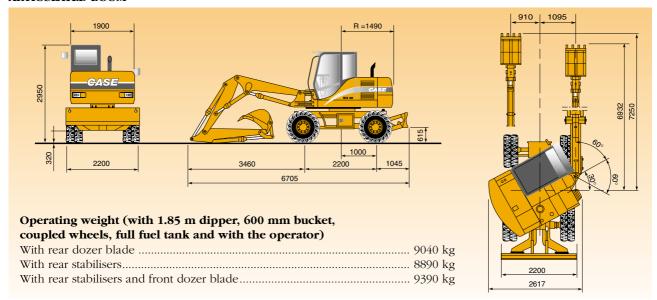
	boom:	Articulated		Monobloc	
	dipper (m)	1.85	2.20	1.85	2.20
A Maximum reach	m	7.45	7.80	6.75	7.10
<b>B</b> Maximum digging reach	m	4.65	5.00	4.55	4.90
C Dump height	m	4.90	5.10	3.40	3.60



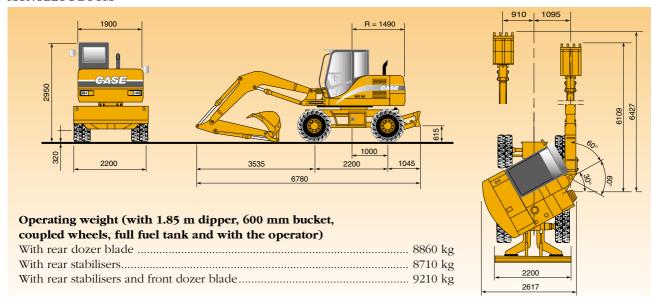


## GENERAL DIMENSIONS

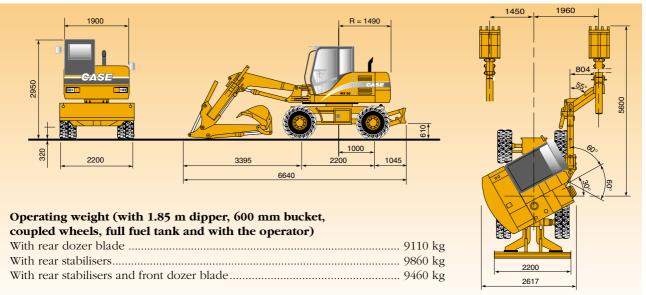
### ARTICULATED BOOM



## MONOBLOC BOOM



## OFFSET BOOM





## LIFTING CAPACITY with dozer blade or stabilisers on the ground

## WX90 with articulated boom or offset boom, 1.85 m dipper and 600 mm bucket

Reach	3 m		4.5 m		6 m		maxi	
Height	Front	360°	Front	360°	Front	360°	Front	360°
6 m			2220*	1390			2220*	1290
4.5 m			2070*	1410	1750*	830	1750*	810
3 m			2420*	1320	1760*	820	1560*	650
1.5 m	3280*	2580	2780*	1200	1830*	770	1410*	610
0	4390*	2160	2630*	1140	1680*	750	1230*	640
-1.5 m	2420*	2170	1880*	1150			880*	770
-3 m								

## WX90 with articulated boom or offset boom, 2.20 m dipper and 600 mm bucket

Reach	3 m		4.5 m		6 m		maxi	
Height	Front	360°	Front	360°	Front	360°	Front	360°
6 m			1960*	1430			1890*	1070
4.5 m			1900*	1440	1630*	850	1500*	720
3 m			2270*	1350	1690*	820	1390*	590
1.5 m	2380*	2380	2710*	1210	1800*	770	1310*	550
0	4350*	2150	2710*	1130	1740*	730	1160*	570
-1.5 m	3100*	2130	2100*	1120	1240*	740	880*	680
-3 m	2740*	2250					1670*	1440

## WX90 with monobloc boom, 1.85 m dipper and 600 mm bucket

•		, -	•					
Reach	3	m	4.5 m		6 m		maxi	
Height	Front	360°	Front	360°	Front	360°	Front	360°
6 m								
4.5 m			1840*	1410			1880*	1360
3 m			1760*	1500			1620*	1000
1.5 m			1950*	1220			1660*	910
0	2150*	1120	2420*	1090			1980*	970
-1.5 m	3270*	1650					2220*	1320
-3 m								
	Height 6 m 4.5 m 3 m 1.5 m 0 -1.5 m	Reach     3       Height     Front       6 m     4.5 m       3 m     1.5 m       0     2150*       -1.5 m     3270*	Reach     3 m       Height     Front     360°       6 m     3 m       4.5 m     3 m       1.5 m     0     2150*     1120       -1.5 m     3270*     1650	Reach     3 m     4.5       Height     Front     360°     Front       6 m     1840*       4.5 m     1760*       3 m     1760*       1.5 m     1950*       0     2150*     1120     2420*       -1.5 m     3270*     1650	Reach         3 m         4.5 m           Height         Front         360°         Front         360°           6 m         1840*         1410         1500         1500           3 m         1950*         1220         1220         109	Reach         3 m         4.5 m         6           Height         Front         360°         Front         360°         Front           6 m         1840*         1410         1500         1500           3 m         1760*         1500         1220           0         2150*         1120         2420*         1090           -1.5 m         3270*         1650	Reach         3 m         4.5 m         6 m           Height         Front         360°         Front         360°           6 m         1840*         1410         360°           3 m         1760*         1500         1500           1.5 m         1950*         1220         1220           0         2150*         1120         2420*         1090           -1.5 m         3270*         1650         1650	Reach         3 m         4.5 m         6 m         max           Height         Front         360°         Front         360°         Front         360°         Front           6 m         1840*         1410         1880*         1880*           3 m         1760*         1500         1620*           1.5 m         1950*         1220         1660*           0         2150*         1120         2420*         1090         1980*           -1.5 m         3270*         1650         2220*

## WX90 with monobloc boom, 2.20 m dipper and 600 mm bucket

Reach	3	m	4.5 m		6 m		maxi	
Height	Front	360°	Front	360°	Front	360°	Front	360°
6 m								
4.5 m			1570*	1460			1500*	1210
3 m			15	00*			1320*	920
1.5 m			1700*	1230	1550*	850	1350*	840
0	1860*	1110	2190*	1020			1580*	890
-1.5 m	3060*	1420	2550*	1290			2090*	1160
-3 m								

- Machine in «LIGHT» mode
- Lift capacities are taken in accordance with SAE J 1097 / ISO 10567 / DIN 15019-2.
   Lift capacities shown in kg do not exceed 75% of the tipping load or 87% of the hydraulic lift capacity.
   Capacities that are marked with an asterisk are hydraulic limited
- If the machine is equipped with a quick coupler, subtract the weight of the quick coupler from the load shown in the tables to calculate the real lifting capacity.

## STANDARD EQUIPMENT

8 wheels with tyres  $8.25 \times 20$ 

3 mode steering system

Steerable front wheels

Steerable front and rear wheels

Crab steering

Boom foot articulation

Monobloc or articulated or offset boom

Safety valves

Clamshell circuit

1.85 m or 2.20 m dipper

Step plate «tool box» on the right-hand side

Left-hand side step plate

Immobiliser

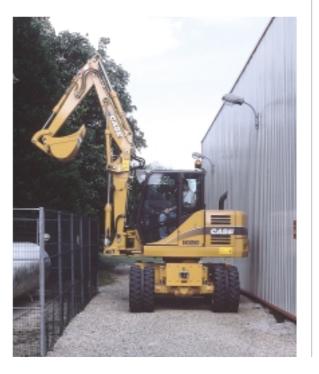
Radio

Rainproof cab protection visor

Roof light

Rear dozer blade with bracket to support

stabilisers



## **OPTIONS**

4-wheel model 500/45-20
«Hammer» circuit
Organic oil
Clamshell bucket support
Left-hand side step plate «tool box»
Air conditioning
P2A (stabilisers in place of the dozer blade)
P2AL front dozer blade, rear stabilisers
P4A front and rear stabilisers

Rubber track shoes for stabilisers

Standard and optional equipment can vary from country to country

## Conforms to directive 98/37/CE



NOTE: Standard and optional attachments and equipment may vary according to requirements and regulations from country to country. The photos given may show non standard or unmentioned items. Furthermore CASE reserves its right to modify specifications of its machines without prior warning, without incurring any obligation whatsoever that might result from such modifications.



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