## CASE

## **Wheeled Excavator**

Operational weight: 12 tons
Perkins engine: 75 kW (101 hp)
Hydrostatic transmission with 4 wheel steer







## **ENGINE**

| Make PERKINS   |
|--|
| Model  |
| Typediesel, 4 stroke, direct injection, turbocharged       |
| Number of cylinders  |
| Displacement   |
| Bore x stroke 100 x 127 mm                                 |
| Cooling water-cooled                                       |
| Net power EEC 80/1269 (road) 101 hp / 75 kW                |
| Engine speed (road)  |
| Net power EEC 80/1269 (work) 90 hp / 67 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                      | 8 rpm                    |
| Swing brake                      | automatic disk brake     |
| Final drive                      | epicyclical oil immersed |
| Turntable                        | in a grease bath         |
| Mechanical swing locking control |                          |

### 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 or 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 6 km               | /h |
|-------------------------------|----|
| Second 0 to 17 km/            | /h |
| Third 0 to 30 km              | /h |
| Gradient that can be overcome | %  |

#### Work speed

| First                         | 0 to 2 km/h  |
|-------------------------------|--------------|
| Second                        | 0 to 6 km/h  |
| Third                         | 0 to 10 km/h |
| Gradient that can be overcome | 60 %         |

#### **AXLES**

Axles with oil immersed disk brakes

Rear axle: fixed directional

#### **TYRES**

| 8 wheels | 10.00 x 20 with | twinning rings |
|----------|-----------------|----------------|
| 4 wheels |                 | 600/40 x 22.5  |

## STEERING

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           | 6.50 | m |
| Front and rear axles turned | 3.70 | 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)



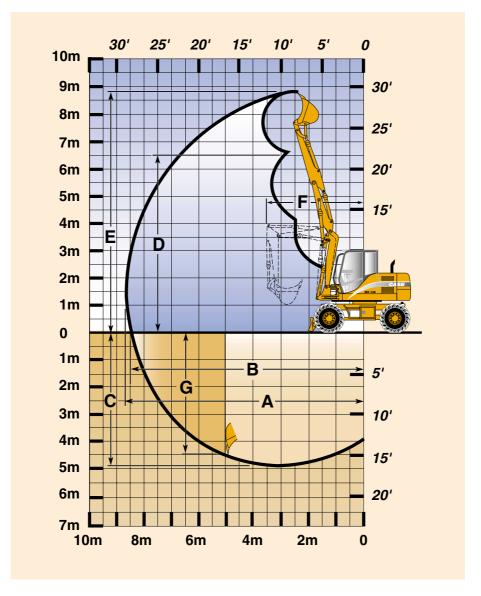
## **CAPACITIES**

| Engine oil           | 8.5 1 |
|----------------------|-------|
| Coolant              |       |
| Fuel reservoir       | 211 1 |
| Hydraulic system     | 160 l |
| Axles (total)        |       |
| Swing reduction gear | 3 1   |



The standard model of the WX120 is equipped with a articulated boom, mounted on a swing swivel, and a 2.00 m dipper and 650 mm bucket.

## BACKHOE EQUIPMENT

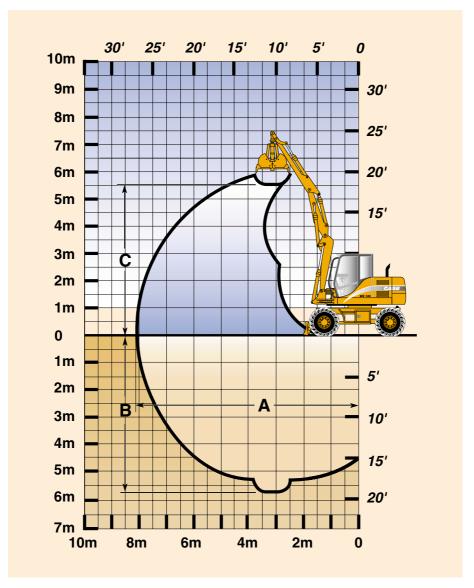


|   | boom :     | Articulated |      |
|---|------------|-------------|------|
|   | dipper (m) | 2.00        | 2.35 |
| A Maximum digging reach                         | m          | 8.40        | 8.70 |
| <b>B</b> Maximum digging reach at ground levell | m          | 8.15        | 8.50 |
| C Maximum digging depth                         | m          | 4.60        | 4.95 |
| <b>D</b> Maxi dump height                       | m          | 6.35        | 6.70 |
| E Overall reach height                          | m          | 8.55        | 8.90 |
| F Minimum swing radius                          | m          | 3.60        | 3.85 |
| <b>G</b> Vertical straight wall dig depth       | m          | 4.45        | 4.80 |
| Digging force                                   | daN        | 4950        | 4450 |
| Breakout force                                  | daN        | 7900        | 7900 |



| SAE capacity | Litres | 200 | 295 | 385 | 470 | 530 | 590  |
|--------------|--------|-----|-----|-----|-----|-----|------|
| Width        | mm     | 350 | 500 | 650 | 800 | 900 | 1000 |
| Weight       | kg     | 153 | 171 | 197 | 226 | 241 | 258  |

# CLAMSHELL ATTACHMENT

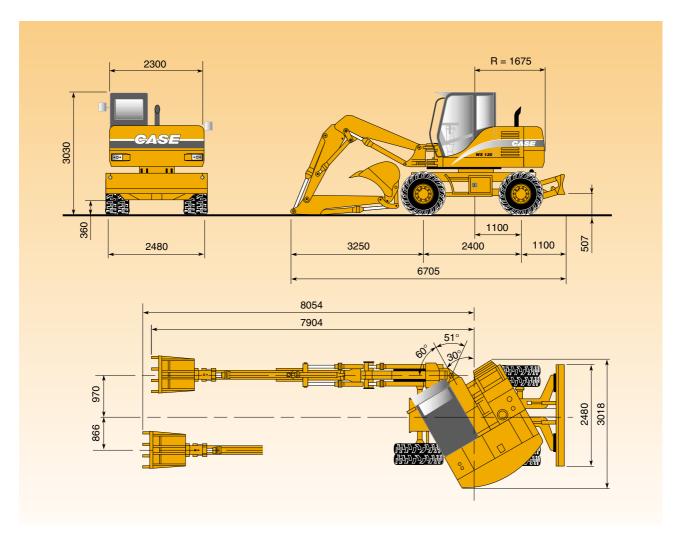


|                                | boom:      | Articu | ulated |
|--------------------------------|------------|--------|--------|
|                                | dipper (m) | 2.00   | 2.35   |
| A Maximum reach                | m          | 7.80   | 8.15   |
| <b>B</b> Maximum digging reach | m          | 5.30   | 5.65   |
| C Dump height                  | m          | 5.30   | 5.60   |





## **GENERAL DIMENSIONS**



## Operating weight (with 2.00 m dipper, 650 mm bucket, twin wheels, full fuel tank and with the operator)

| With rear dozer blade                       | '30 kg |
|---|--------|
| With rear stabilisers                       | 30 kg  |
| With rear stabilisers and front dozer blade | 30 kg  |





WX120 with dozer blade or stabilisers on the ground, articulated boom, 2.00 m dipper and 650 mm bucket

| Reach  | 3 m   |      | 4.5 m |      | 6 m   |      | maxi  |             |
|--------|-------|------|-------|------|-------|------|-------|-------------|
| Height | Front | 360° | Front | 360° | Front | 360° | Front | 360°        |
| 6 m    |       |      | 3580* | 2320 |       |      | 3490* | 1640        |
| 4.5 m  |       |      | 3300* | 2300 | 3120* | 1350 | 2770* | 1120        |
| 3 m    |       |      | 4470* | 2120 | 3310* | 1300 | 2540* | 930         |
| 1.5 m  | 5080* | 4380 | 5140* | 2060 | 3350* | 1220 | 2440* | 880         |
| 0      | 4120* | 3550 | 5240* | 1810 | 3290* | 1170 | 2380* | 920         |
| -1.5 m | 4480* | 3550 | 4170* | 1820 | 2560* | 1180 | 1910* | 1110        |
| -3 m   | 3510* |      | 1530* |      |       |      | 77    | <b>'0</b> * |

WX120 with dozer blade and stabilisers on the ground, articulated boom, 2.00 m dipper and 650 mm bucket

| Reach  | 3 m   |      | 4.5 m |       | 6 m   |      | maxi  |             |
|--------|-------|------|-------|-------|-------|------|-------|-------------|
| Height | Front | 360° | Front | 360°  | Front | 360° | Front | 360°        |
| 6 m    |       |      | 3580* | 2440  |       |      | 3490* | 1730        |
| 4.5 m  |       |      | 3300* | 2420  | 3120* | 1430 | 2770* | 1190        |
| 3 m    |       |      | 4470* | 2250  | 3310* | 1380 | 2540* | 1000        |
| 1.5 m  | 5080* | 4530 | 4530* | 2180  | 3540* | 1300 | 2540* | 940         |
| 0      | 4120* | 3800 | 5240* | 1930  | 3450* | 1250 | 2380* | 990         |
| -1.5 m | 4480* | 3800 | 4170* | 1930  | 2560* | 1260 | 1910* | 1180        |
| -3 m   | 3510* |      | 15    | 1530* |       |      | 77    | <b>'0</b> * |

WX120 with dozer blade or stabilisers on the ground, articulated boom, 2.35 m dipper and 650 mm bucket

|        |       |      | ,     |      | , 1   | -    |       |      |  |
|--------|-------|------|-------|------|-------|------|-------|------|--|
| Reach  | 3 m   |      | 4.5 m |      | 6 m   |      | maxi  |      |  |
| Height | Front | 360° | Front | 360° | Front | 360° | Front | 360° |  |
| 6 m    |       |      | 3190* | 2360 |       |      | 2760* | 1390 |  |
| 4.5 m  |       |      | 2560* | 2340 | 2920* | 1370 | 2270* | 1000 |  |
| 3 m    |       |      | 3260* | 2160 | 3160* | 1310 | 2100* | 840  |  |
| 1.5 m  |       |      | 4180* | 2080 | 3350  | 1220 | 2090* | 790  |  |
| 0      | 4090* | 3530 | 5320* | 1790 | 3270  | 1150 | 2240* | 830  |  |
| -1.5 m | 3860* | 3460 | 4490* | 1770 | 2890* | 1140 | 1850* | 980  |  |
| -3 m   | 330   | 00*  | 2390* | 1860 |       |      | 89    | 0*   |  |
|        |       |      |       |      |       |      |       |      |  |

WX120 with dozer blade and stabilisers on the ground, articulated boom, 2.35 m dipper and 650 mm bucket

| Reach  | 3 m   |      | 4.5 m |      | 6 m   |      | maxi  |      |
|--------|-------|------|-------|------|-------|------|-------|------|
| Height | Front | 360° | Front | 360° | Front | 360° | Front | 360° |
| 6 m    |       |      | 3190* | 2490 |       |      | 2760* | 1470 |
| 4.5 m  |       |      | 2560* | 2460 | 2920* | 1450 | 2270* | 1060 |
| 3 m    |       |      | 3260* | 2280 | 3160* | 1390 | 2100* | 900  |
| 1.5 m  |       |      | 4180* | 2200 | 3460* | 1300 | 2090* | 850  |
| 0      | 4090* | 3780 | 5320* | 1910 | 3490* | 1230 | 2240* | 890  |
| -1.5 m | 3860* | 3710 | 4490* | 1890 | 2890* | 1220 | 1850* | 1040 |
| -3 m   | 3300* |      | 2390* | 1980 |       |      | 89    | 00*  |

- 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 10 x 20 tyres 3 mode steering system Steerable front wheels Steerable front and rear wheels Crab steering

Boom foot articulation Articulated boom Safety valves Clamshell circuit

2.00 m or 2.35 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 600/40-22.5 «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.



Published by Case France 18, Place des Nymphéas Z.I. Paris Nord II 95915 ROISSY CDG Cedex **FRANCE** 

Tél.: 01.49.90.23.00 Fax: 01.49.90.26.15

