

CASE

CONSTRUCTION

WHEELED EXCAVATORS **WX165 - Series 2**

PRELIMINARY



Engine Horsepower	105 kW - 141 hp
Max Operating weight	18500 Kg
Bucket	0.27 m ³ to 0.95 m ³

P R O F E S S I O N A L P A R T N E R

MAINTENANCE

- Latest generation CASE Family III engine
- Compact upperstructure with catwalk for better service access
- Self diagnosis integrated in the electronic management system
- Longer service intervals (500 hrs oil change interval)
- Easy and simple service point access
- Ecological engine oil draining cap



COMFORT

- Air suspension seat
- Fully glazed cab for outstanding all round visibility
- Full up and over front windscreen
- Automatically operating brake system
- Automatic front axle lock
- Forward/reverse control on joystick
- Dozer blade and stabilisers fine control on joystick
- Simple to select operating modes
- "DIGIPOWER" management control of all hydraulic functions
- Transparent roof
- Tilttable steering column
- Fine grading control mode
- Swing brake modes
- Electric refuel pump
- One key for all locking functions

PERFORMANCE

- Compact upperstructure
- Lifting capacity equivalent to conventional design models
- 30 km/h top speed
- PowerShift gear box, on the move gear shifting
- Superior engine power
- High swing torque
- Best in class tractive effort
- Powerboost
- Hydraulic tool pressure and flow pre-setting
- Hydraulically driven fan with thermostatic regulation
- Full stabilisers and blade independence
- Total chassis versatility
- Independent swing hydraulic circuit
- Mechanically lockable large section stabilisers pads
- Common fitting buckets with CASE CX range
- Quick couplers for previous WX range buckets
- Quick connectors on hydraulic option circuits



SAFETY

- Unique CASE Inching and extra slow speed
- Integrated anti theft device
- Engine safe warm up control
- Road travel mode with swing and attachment circuit cut out
- Automatic battery cut off
- Stabiliser cylinder protection

ENGINE

Make	CASE - Family III
Model	659TA-M2
Type	6 cyl. turbo charged, direct injection, intercooler
Displacement	5.9 l
Bore x stroke	102 x 120 mm
Output power (ISO 14396)	105 kW/141 hp
Rated speed	2000 rpm

The latest generation of CASE Family III engines are in accordance with the EU Tier 3 directive. Modern, quiet with low fuel consumption and designed for reliability the CASE engine reduces owning and operating costs. Engine auto idle can be de-activated manually.



HYDRAULIC CIRCUIT

Main pumps	3 variable displacement, axial piston
Total maximum flow	2 x 145 + 80 l/min
Attachment maximum pressure/Powerboost	350/370 bar
Travel maximum pressure	350 bar
Swing maximum pressure	390 bar

The "DIGIPOWER" hydraulic control system monitors the two main pumps, the separated "closed circuit swing pump", and regulates engine power according to demand. It offers 7 selectable power levels (4 digging and 3 lifting), including levelling mode for fine grading operations. Powerboost is automatic in lifting mode and can be activated for 8 seconds in the other modes).

UNDERCARRIAGE

The CASE WX range features a new PowerShift transmission with a two gear range, and with "on the move" shifting. The maximum travel speed is increased up to 30 km/h, to reduce on road down times.

The typical CASE "Inching" associated with the "creeper" position allows safe and accurate movements, for loading on to a trailer.

Modular frame allows the assembly of all possible chassis configuration, according to customer requests. Either pin-on fitted or welded on the main structure, the stabilisers beam design is outstandingly rigid. The stabilisers and blade are fully independent, (front/rear and left/right), controlled by the dipper joystick and easily selectable by switches.

The large section stab pads are lockable to ensure the best dynamic stability to the machine, in soft ground condition, keeping the articulation for hard surface applications.

The "City" stabilisers, with their numerous possible pad positions, are the most versatile solution, giving excellent stability and ability to work in confined areas, or alongside pavements.

Right hand side spacious tool box under the steps is standard.

Maximum travel speed (field range)	8 km/h
Maximum travel speed (road range)	20 or 30 km/h
Maximum drawbar pull (field range)	87 kN

As on previous range the front axle lock is automatic.



CAB

The cab has been designed with the operator in mind:

- Spacious and ergonomic environment with tinted safety glass offering outstanding all round visibility
- Modular total or partial opening windscreen with transparent rain shield
- Large roof window with sunshade
- Fully adjustable air suspension seat
- Steering column with continuously adjustable inclination
- Exceptionally quiet cab
- Easy to operate joystick controls and pedals

Large LCD display integrating the working mode information, auto diagnostic function and working status.

For operator convenience, all the major operating controls are located on the joysticks:

- Forward/reverse/neutral travel
- Attachment/Blade-Stabilisers selection
- Levelling mode
- Power boost
- Hydraulic options

NOISE LEVELS

LwA	105 dBA
LpA	76 dBA



BRAKE SYSTEM

In order to keep the operator focussed on his own work, the travel brake is automatically activated when the pedal is released. The brakes are a multi-disc design for smooth operation.

TYRES

4 Wheels	18 - 19.5XF
8 Wheels with twinning rings	10.00 - 20

SWING

The swing function is operated by a hydraulic closed circuit coupled with a mechanical reducer integrating an automatic static brake. The hydro-static swing brake is adjustable with 3 settings.

Swing speed	9 rpm
Swing torque	38 kNm

CAPACITIES

Engine oil	16 l
Cooling circuit	25 l
Fuel tank	270 l
Hydraulic tank	140 l
Swing gear	3.5 l

UPPERSTRUCTURE

The new CASE WX offers as standard a compact upperstructure, integrating a transversal engine position. Even with a reduced tail radius, the service point accessibility maintained and the catwalk remains the best access location for servicing.

Tail swing radius	2.00 m
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ELECTRICAL CIRCUIT

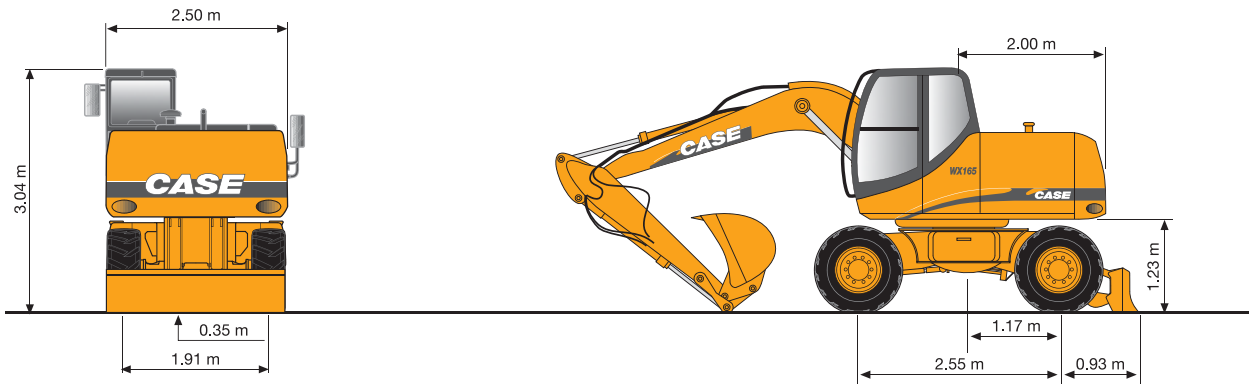
Voltage	24 V
Batteries	2 x 12 V - 100 Ah
Alternator	70 A

Automatic isolator switch and 12 V power supply in cab as standard.

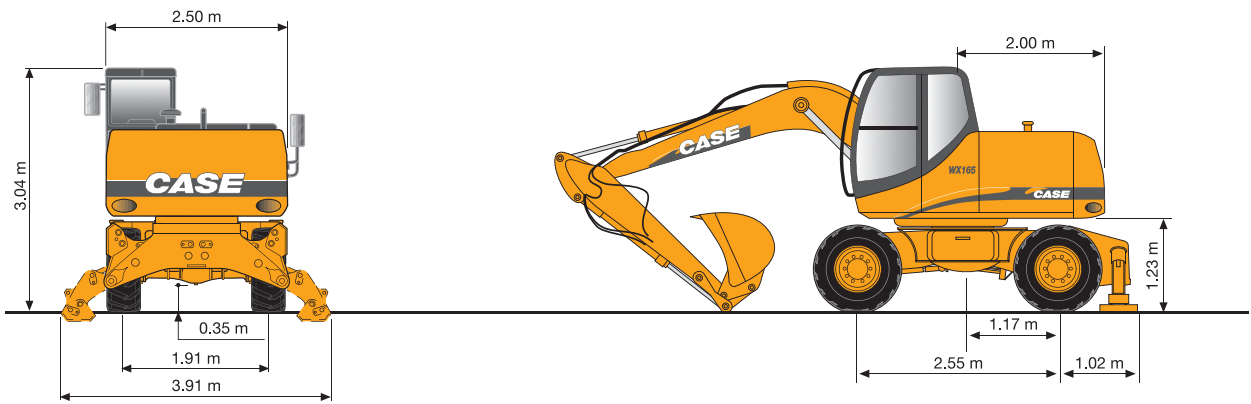


OVERALL DIMENSIONS

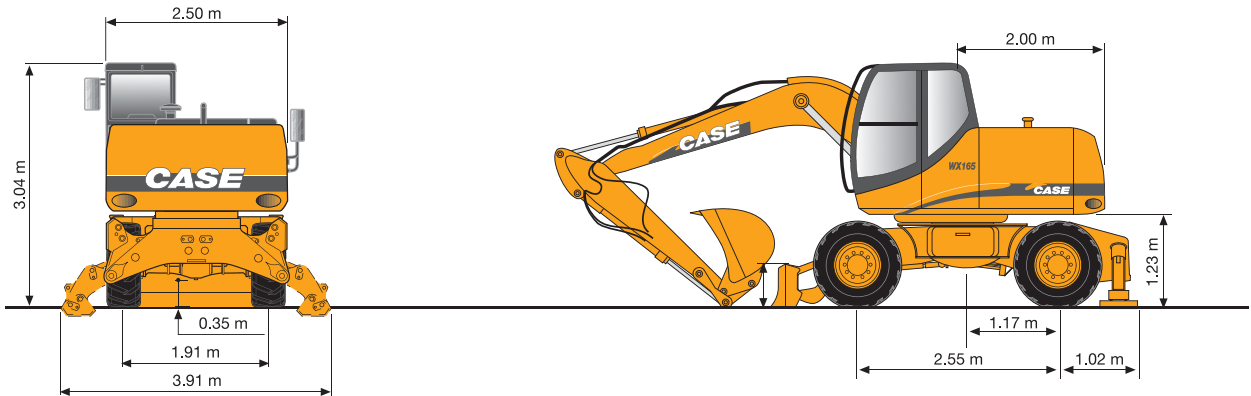
PL



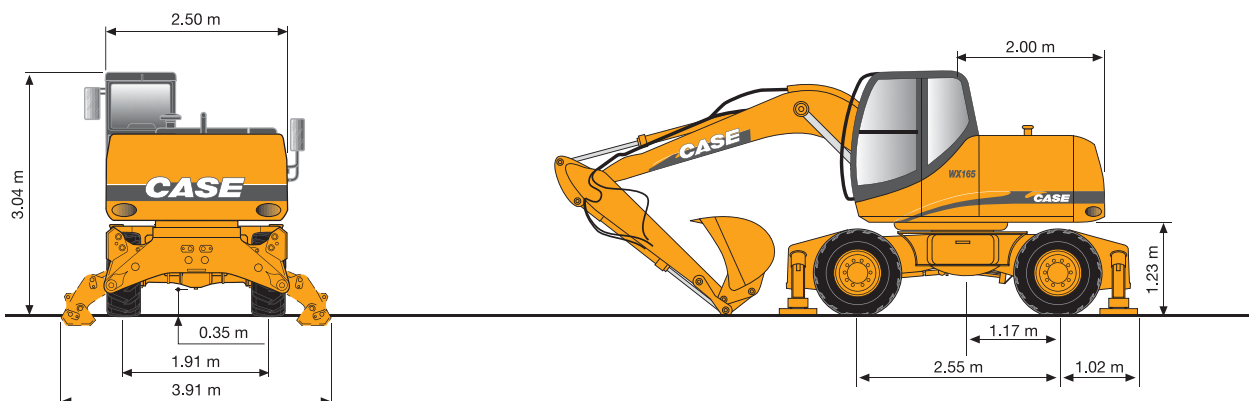
P2A





P2AL



P4A

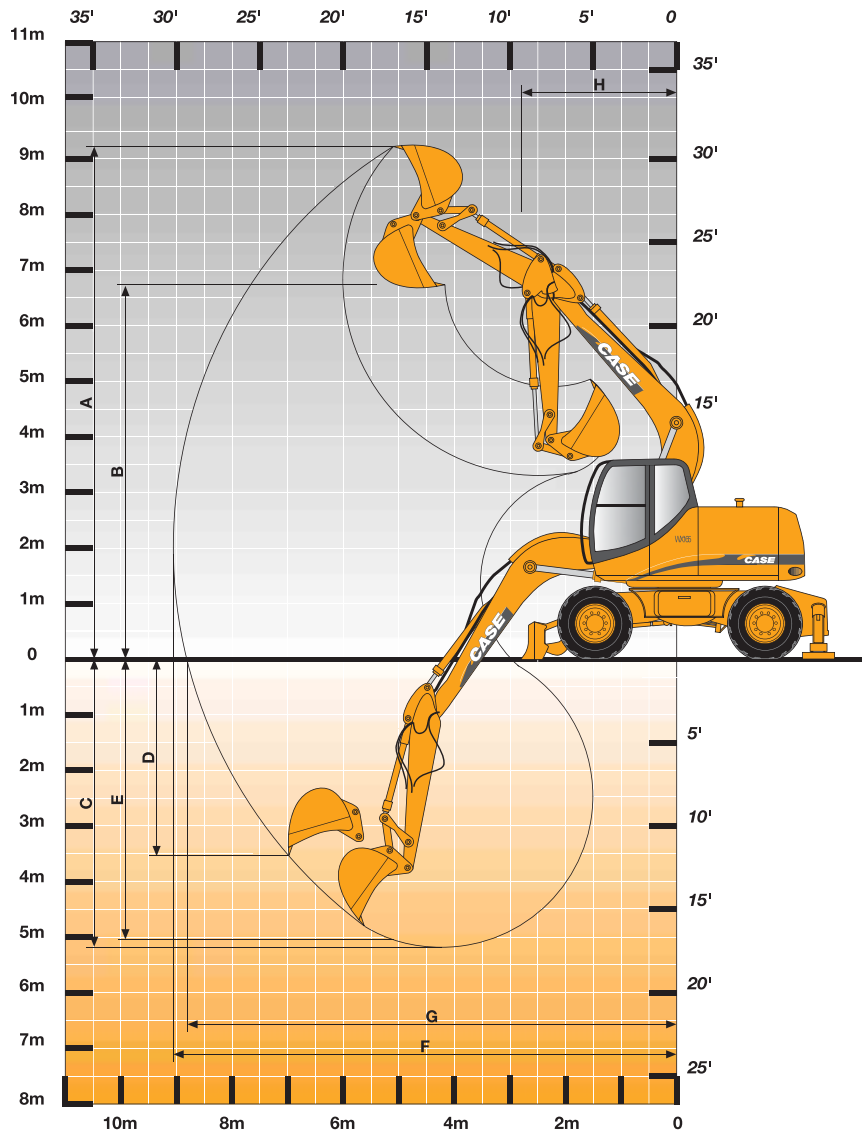


SHIPPING DIMENSIONS / WEIGHT

		PL Rear blade			P2A Rear stabilisers			P2AL Front blade + Rear stab.			P4A 4 Stabilisers		
		A mm	B mm	 kg	A mm	B mm	 kg	A mm	B mm	 kg	A mm	B mm	 kg
MONO BOOM	Dipper 2.30 m	7963	3020	16 288	7963	3020	16 798	7963	3020	17 218	7963	3020	17 718
	Dipper 2.60 m	8000	3150	16 328	8000	3150	16 838	8000	3150	17 258	8000	3150	17 758
	Dipper 2.90 m	7869	3477	16 378	7869	3477	16 888	7869	3477	17 308	7869	3477	17 808
ARTICULATED BOOM	Dipper 2.30 m	8186	2890	16 970	8186	2890	17 480	8186	2890	17 900	8186	2890	18 400
	Dipper 2.60 m	8194	2952	17 010	8194	2952	17 520	8194	2952	17 940	8194	2952	18 440
	Dipper 2.90 m	8186	3020	17 060	8186	3020	17 570	8186	3020	17 990	8186	3020	18 490

Weights are indicated fitted with a 495 Kg bucket





WORKING RANGE

		MONO BOOM 4.80 m			ARTICULATED BOOM 5.00 m			
		DIPPER			DIPPER			
		2.3 m	2.6 m	2.9 m	2.3 m	2.6 m	2.9 m	
A	Max. digging height	m	8.9	9.1	9.2	9.8	10.0	10.2
B	Max. loading height	m	6.4	6.5	6.7	7.2	7.4	7.6
C	Max. digging depth	m	5.4	5.7	6.0	5.4	5.7	6.0
D	Max. vert. wall digging depth	m	3.3	3.6	3.8	3.9	4.2	4.5
E	Max. depth of cut for 8' level bottom	m	5.1	5.4	5.7	5.3	5.6	5.9
F	Max. digging reach	m	8.7	8.9	9.2	9.0	9.2	9.5
G	Max. digging reach at ground level	m	8.5	8.7	9.0	8.8	9.1	9.5
H	Min. front swing radius	m	2.9	3.0	3.0	2.7	2.8	2.9
	Bucket breakout force (370 bar)	kN	117	117	117	117	117	117
	Stick crowd force (370 bar)	kN	78	72	62	78	72	62

BUCKETS

General purpose

Capacity SAE	I	270	390	570	660	750	850	950
Width	mm	500	600	800	900	1000	1100	1200
Weight	kg	350	385	455	495	525	550	590

Heavy duty

Capacity SAE	I				660	750	850	950
Width	mm				900	1000	1100	1200
Weight	kg				555	590	625	665

WX165 Series 2

STANDARD EQUIPMENT & OPTIONS

STANDARD EQUIPMENT

- Robust, shielded arc-welded, modular chassis in box section design
- Patented disc brakes for jolt-free work
- PowerShift gear box
- Large toolbox under the step
- Latest generation CASE Family III Tier 3 diesel engines, in accordance to European emissions standards
- Direct injection with turbo charger and charge air cooling
- Water-cooled, low-consumption and low-exhaust, in accordance to EU directive
- Automatic battery main switch (coupled to ignition key)
- Electronic immobiliser
- Pump Management System
- Electrohydraulic servo control
- Triple-pump-hydraulic system with two service pumps and separate swing pump
- Engine and pump monitoring by power limit control
- 8 selectable power stages
- Automatic power increase in DRIVE stage
- Comfortable Inching control
- Encased ball bearing slew ring with long-life lubrication
- Swing drive with low-wearing disc brake
- Noise-insulated and flexibly mounted cabin in soft design
- Tinted safety glazing all around, full up and over windscreen
- Sun blinds, large roof window, transparent rain protection
- LCD with integrated error diagnosis function
- Steering column incline infinitely variable
- Ergonomic design of arm rests and foot pedals
- Driver air suspension seat individually adjustable for height and incline
- Consoles adjustable for height and length
- 12 V electrical auxiliary supply in cab
- Forward / Reverse shifting on joystick
- Independent control of blade and each stabiliser
- Automatic axle locking system

- Automatic working brake
- Travel and swing hydrostatic braking
- Cab headlights
- Electric diesel filling system
- Powerboost system
- Centralised control of blade and stabilisers on left joystick

OPTIONS

- Air conditioning
- 30 km/h forward speed
- Single or twin tyres
- Dozer blade with hydraulic parallel guidance
- Stabilisers with large, lockable pads for secure grip on uneven ground
- City stabilisers
- Transport holder for clamshell grab
- Intermediate bearing for prop shaft
- Central greasing nipple on boom
- Cooling box
- Radio
- Additional working lights
- Auxiliary heating
- Front and roof guards
- FOPS protection for cab
- Armoured glass for front window
- Safety load hook on coupler
- Safety valves for hoist mode
- Hydraulic system for hammer, grab, shears

Standard and optional equipment shown can vary by country.

Worldwide Case Construction Equipment Contact Information

EUROPE/AFRICA/MIDDLE EAST:
Centre D'affaires EGB
5, Avenue Georges Bataille - BP 40401
60671 Le Plessis-Belleville - FRANCE

NORTH AMERICA/MEXICO:
700 State Street
Racine, WI 53404 U.S.A.

LATIN AMERICA:
Av. General David Sarnoff 2237
32210 - 900 Contagem - MG
Belo Horizonte BRAZIL

ASIA PACIFIC:
Unit 1 - 1 Foundation Place - Prospect
New South Wales - 2148 AUSTRALIA

CHINA:
No. 29, Industrial Premises, No. 376,
De Bao Road, Waigaoqiao Ftz, Pudong,
SHANGHAI, 200131, P.R.C.

NOTE: Standard and optional fittings can vary according to the demands and specific regulations of each country. The illustrations may include optional rather than standard fittings - consult your Case dealer. Furthermore, CNH reserves the right to modify machine specifications without incurring any obligation relating to such changes.

Case Construction Equipment

CNH UK Ltd.
Armstrong House
The Finningley Estate
Hayfield Lane
Doncaster
DN9 3XA
Fax +44 (0)1302 802126

www.casece.com

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Conforms to directive 98/37/CE