

B110 EVOLUTION

COMPACT
LINE



Power (max) 82 kW - 110 hp

Operating weight (max) 8 360 kg

Backhoe digging (max) 6 115 mm



EVOLVING TECHNOLOGY

Evolution in comfort

High Comfort Total-Vision cab

Perfect visibility is maintained when the using the front implement together with the backhoe or while travelling on the road. Excellent internal comfort.

Easy and safe access to the operator compartment through wide side doors and the antiskid steps. Doors can be secured completely open or in intermediate positions to ensure excellent air circulation inside the cab.

Air conditioning system is offered as an option satisfying even the most demanding operator.

All internal linings are easily cleaned scratch-resistant material.



Excellent positioning of the transmission control lever
Foot pedal operated accelerator and brake pedals, for easier operation.



Instrument panel
Located to the operator's right. Completely easy to read when working with the front implement and the backhoe, it features Italian styling together with state-of-the-art technology.



New oversized external toolbox



Backhoe controls
Standard controls: mechanical
Soft and precise backhoe controls are positioned ergonomically to offer maximum operator comfort and all-round visibility of the digging area.



Optional: piloted "Ergo Control"

NEW

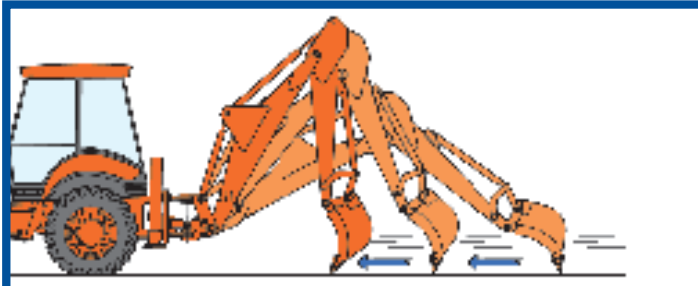
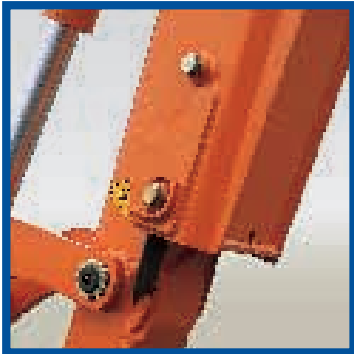
Evolution in performance

Great diggability

High ground level swing of over 6.6 m with the TELEVATOR boom to minimise movements when trenching.
204° of bucket opening angle means reduced material filling/dumping.
External play adjustment and cleaning plates on the extensible boom.

Higher liftability and breakout force backhoe

Three booms available:
standard, extended, televator.



Load Sensing hydraulic system

With Flow Managing System automatic device and elastically suspended Flow Sharing main hydraulic control valve.

- Totally simultaneous movements
- Fast movements regardless of load applied to each cylinder
- Soft and responsive controls to ensure perfect controllability in any job



Standard locking valves

With a telescopic boom
for maximum operator safety.



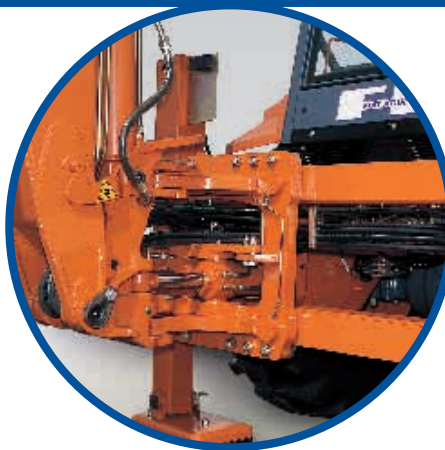
New Piloted "ERGO CONTROLS"

ERGO CONTROLS have been developed to offer operators an extremely comfortable working environment, as demonstrated on our latest generation excavators. The new system guarantees personalised working positions. Manipulator position adapts to any need with **longitudinal and lateral adjustments**. Two tiltable and vertically adjustable wrist rests ensure movement precision while the new ERGO CONTROL minimises operator physical effort. With its ERGO CONTROLS, FK backhoe loaders sets a new standard for the whole market.



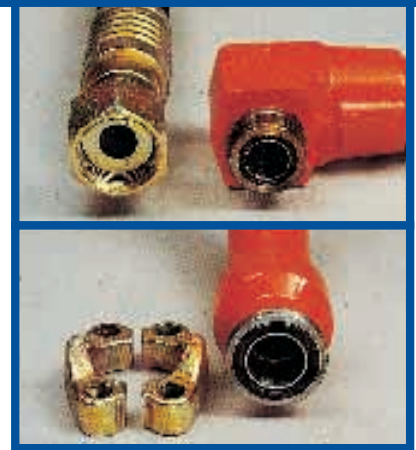
Stabilizer play take-up with Unisystem angular adjustment

The only solution available on the market that allows easy and fast recovery of proper axial play for increased operating stability and noise reduction when travelling.



Advanced hydraulic piping layout on the backhoe

for maximum operating reliability.
High pressure and slipping resistance Bruiser type backhoe flex hoses.
Rigid piping for connection to the main hydraulic control valve.
Front seal hydraulic connections for total elimination of oil leaks.



Evolution in performance

Engine CNH Tier 2

Top of its class, new generation 4.5 litre 110 HP / 82 kW emissioned turbointercooler diesel. Delivering high performance with both front implement and backhoe - and when travelling.

An engine capable of guaranteeing high torque (480 Nm) at low rpm and reduced fuel consumption.

Standard cyclone type air pre-filter and the transparent fuel sedimentation purge tap filter also ensure reliability. An alarm immediately advises the operator of low lube oil pressure or irregular coolant temperature.

Oversized axles

High design specification allows a dynamic load of 7000 Kg/9250 Kg at 40 km/h and ensures top reliability in any application. 22° front axle oscillation gives a performance at the top

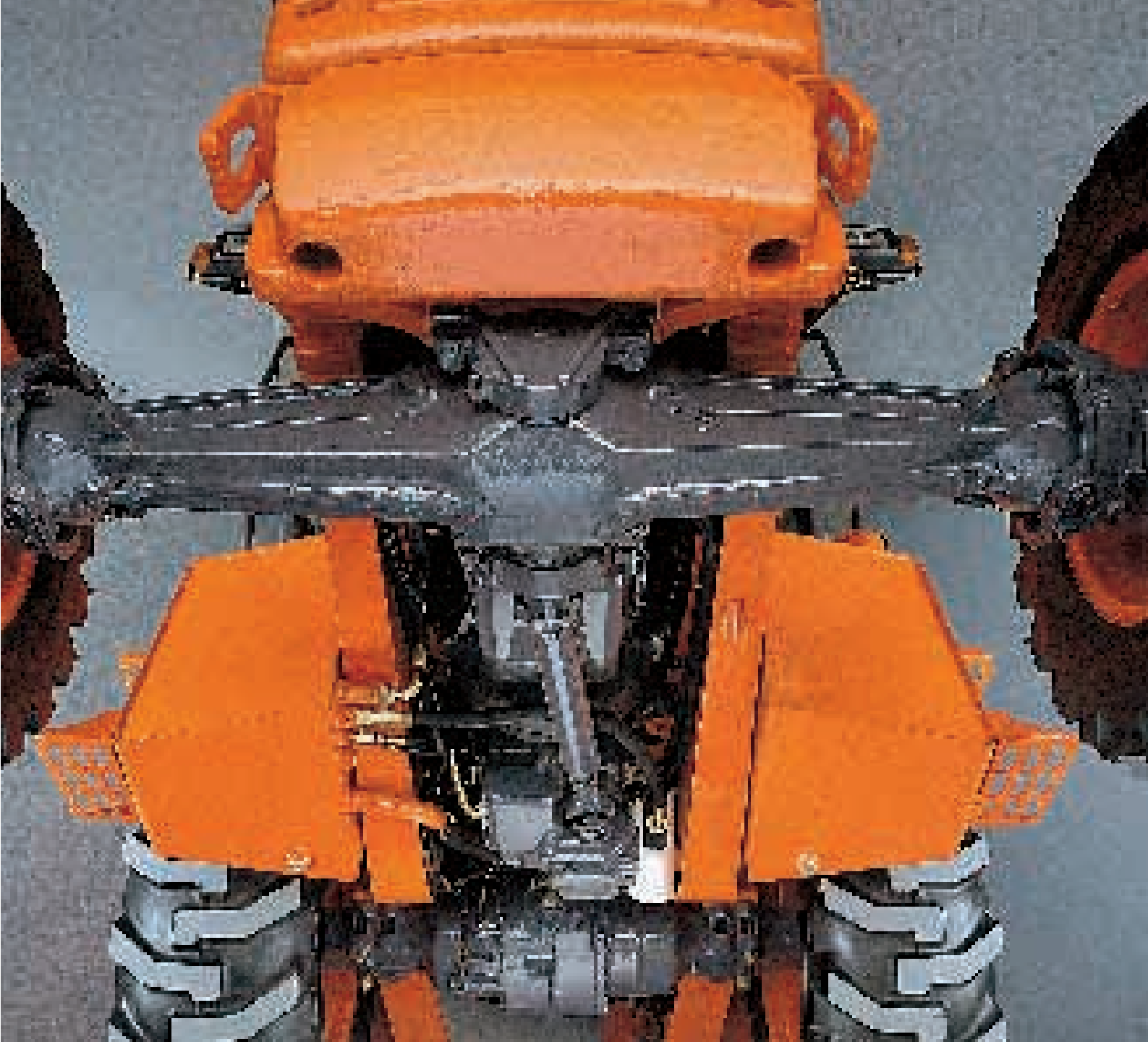


Standard battery cut-off switch



"Full PowerShift" electronic transmission

for top front loader digging performance. A vanguard transmission for an advanced machine. Maximum traction force 7000 daN.



Automatic or manual transmission control

This electronic modulation system guarantees soft and precise direction and speeds changes. The transmission control circuit is provided with a self-diagnosis system activated when the engine ignition key is switched on.



Automatic 4WD cut-out in 3rd and 4th gear

Reduced fuel consumption and tyre wear during road travel. The push button enables the operator to select the 2 or 4WD function, giving options of automatic cut-in or 4 wheel braking with 2WD.



“Kick-Down” device

Allows immediate shifting from second to first gear forward and is actuated by a push button located on the transmission control lever, instantaneously increasing wheel traction. The transmission returns automatically to second gear in reverse changes.

Evolution in performance

High front implement performance

The new Load Sensing hydraulic system has increased breakout force by 10% to 6300 kg and liftability by 14% to 3430 kg to guarantee more productivity on tough terrains and in pallet handling.

Outstanding load performance

- 3530 mm height at the bucket pin
- 820 mm reach with the bucket in the dump position

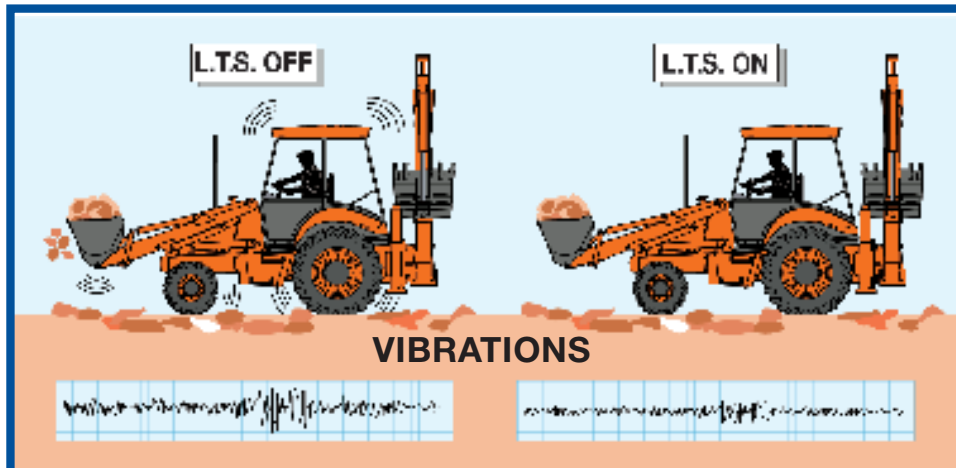
A real wheel loader's performance.



L.T.S. electronic pitch control device. The Load Travel Stabiliser is supplied as optional equipment.

It is vital when hauling loose material over rough terrain, and during travel, pitching is damped and reduced by a nitrogen accumulator connected to the lift cylinders. The operator can then work and travel faster.

In essence, more production and greater comfort.



Electromagnetic boom lift limiter



Bucket implement, single lever control

With integrated, easy and precise control of supplementary hydraulic function, comes as standard equipment.

Seat includes armrests for increased operator comfort.



Specifications



Engine - Tier 2

Maximum power (ISO TR 14396).....110 hp / 82 kW
 Net flywheel power (ISO 14396).....108 hp / 80 kW
 Make and model.....CNH - 4.5 - F4GEO484G
 Type.....turbocharged-intercooler,
 direct injection, 4 cycle Diesel
 Cylinders.....4
 Bore x stroke.....104 x 132 mm
 Displacement.....4485 cm³
 Governed.....2200 rpm
 Maximum torque at 1400 rpm480 Nm
 Forced lubrication with gear type pump.
 Standard electronic anti-theft device.



Electrical system

Voltage12 V
 Maintenance free battery.....1
 - rating (900 CCA).....95 Ah
 Starter.....2.7 kW
 Alternator.....90 A



Torque converter

Typesingle stage, single phase
 Torque multiplication2.31:1



Transmission

4F + 2 R full PowerShift.
 Lever operated electronic control.
 Manual or automatic speed selection.
 Speed and direction inversion microprocessor monitored electronic modulation.
“Kick-Down” device for fast shifting from first to second gear in digging, with automatic return to second gear when reversing.

Speed in kph	Forward	Reverse
1st	6.3	7.5
2nd	11.8	14.0
3th	23.4	-
4th	41.4	-

 Safety:
 - consent to travel/work mode by rotating the control lever.
 - automatic return to neutral when the unit stops for over 3 seconds.



Axles

Rear
 Rigid, complete with bevel gears and pinion, differential, inboard planetary final drives.
 Differential lock with the unit on move.
Front
 Oscillating, steering, complete with bevel gear and pinion, differential and inboard final drives.
 Oscillation.....22°
 Wheel base.....2175 mm
 Electrical-hydraulic type double traction cut-in/cut-out actuated hydraulically with a push button in the cab. Automatic 4WD cut-out in 3rd and 4th gear.



Brakes

Service: oil bath multiple discs type, hydraulically controlled. A double

pedal with independent splitted circuit acts on the rear wheels.
 The braking action on only one pedal causes a remarkable reduction of turning radius.
 Completely braking action on the four wheels using the two pedals simultaneously.
 Discs diameter 203 mm
 Total friction area 2878 cm²
 Parking: discs type, acting on the rear axle. With mechanical control, lever controlled.



Tyres

Front12.5/80 - 18 (12 PR)
 Rear18.4 - 26 (12 PR)



Steering

Type: load sensing with priority valve powered by one of the two pumps.
 Steering is possible with the engine cut out.
 Tiltable steering wheel.
 Hydraulic pump:
 - delivery.....80 l/min
 - max. operating pressure140 bar
 Steering cylinder: 1, double effect countershaft type.
 Steering radius:
 - with brakes on
 external front wheels4000 mm
 - with brakes off
 external front wheels5000 mm



Hydraulic system

“Load Sensing” with double hydraulic pump and **“pressure compensated”** hydraulic control valve with **F.M.S. Flow Managing System device**.
 Absolutely simultaneous and homogeneous movements whatever the application load and engine rpm.
 Hydraulic pump, delivery.....160 l/min
 Maximum operating pressure.....210 bar
 Front seal O-rings.
Front loader.
 Single lever control with stop in float position.
 Safety: bucket control lever lock in neutral position.
 Optional L.T.S. anti-pitching device.
Backhoe.
 Typeside shift
 Boom and swing control with two crossed path levers.
 Independent stabilisers actuated by two levers.
 Standard controlsmechanical
 Optional.....piloted

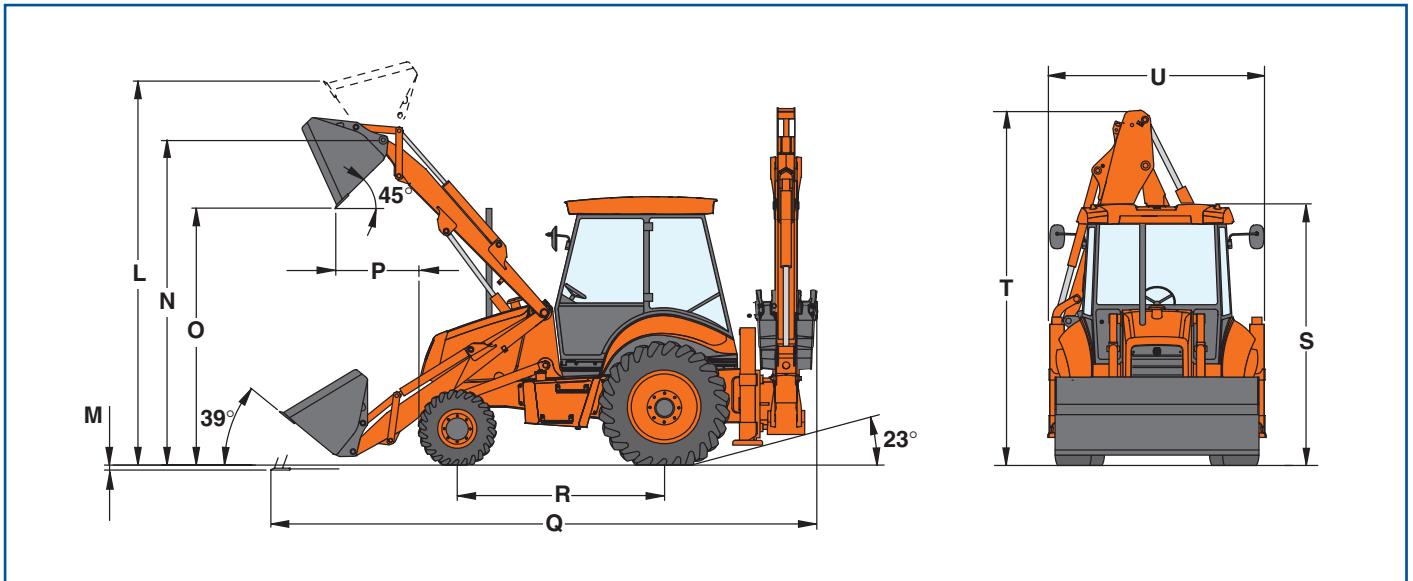


Capacities

Enginelitri
 Lube oil13.6
 Coolant24
 Fuel.....135
Transmission
 Gear box.....18
 Rear axle.....24.6
 Front axle5.5
Hydraulic system118

Loader

Performance - Dimensions (mm)



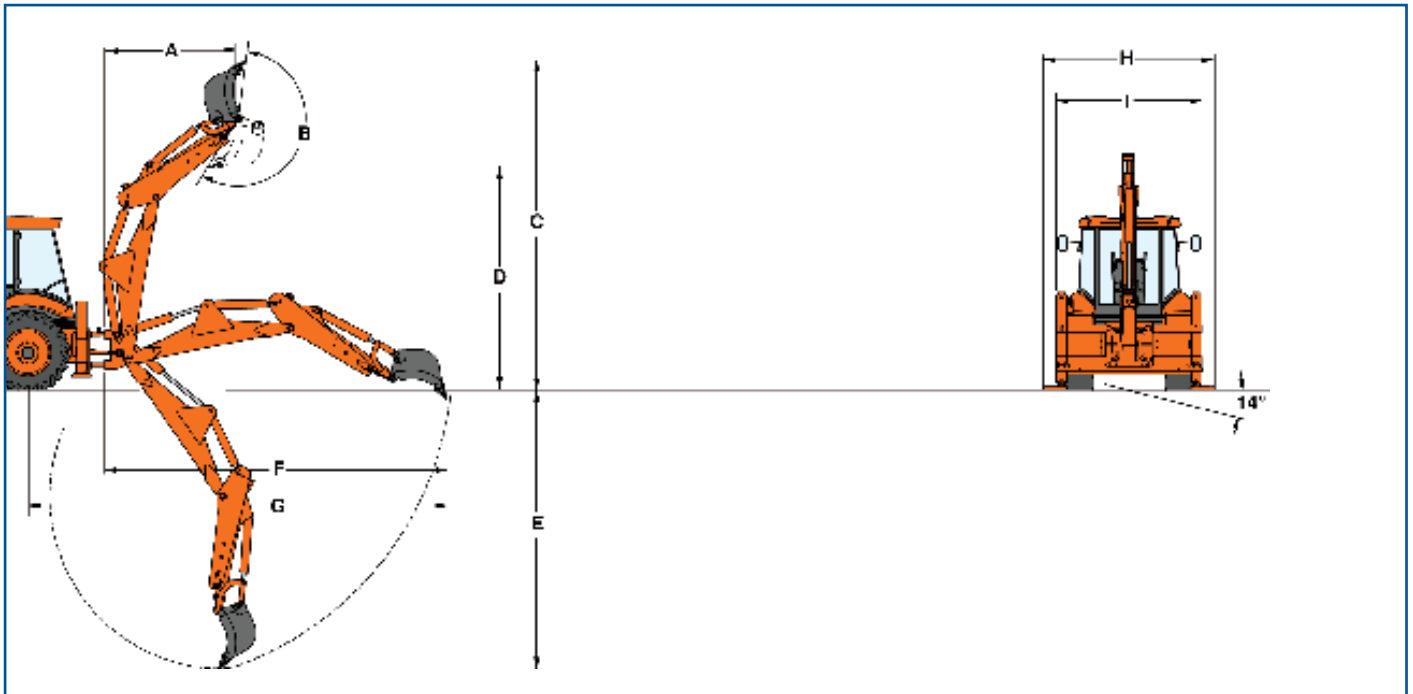
L) Bucket at max. height	mm	4 425
M) Digging depth	mm	60
N) Hinge pin height	mm	3 530
O) Dump height	mm	2 790
P) Reach at max. height	mm	820
Q) Max. transport length with bucket on ground	mm	5 720
R) Wheel base	mm	2 175
S) Cab height	mm	2 880
T) Transport height	mm	3 890
U) Transport width	mm	2 430
Breakout force	kg	6 300
Lifting capacity at top height	kg	3 430

Loader buckets

Type		HD standard	All-purpose	With log forks
Capacity	m ³	1.0	1.0	1.0
Width	mm	2250	2250	2250
Weight with teeth	kg	440	600	745

Backhoe

Performance - Dimensions (mm)



Backhoe type		Standard	Televator
A) Bucket pin distance at top height	mm	2 350	2 870
B) Bucket rotation angle:			
Speed hole		204°	204°
Power hole		160°	160°
C) Max. cutting height	mm	5 780	6 470
D) Max. dump height	mm	3 950	4 640
E) Digging depth (SAE)	mm	4 615	5 800
Max. digging depth	mm	4 950	6 115
F) Reach from swing center	mm	5 870	6 950
G) Reach from rear axle	mm	7 195	8 280
H) Width at stabilizers (work)	mm	2 790	2 790
I) Width at stabilizers (transport)	mm	2 280	2 280
Breakout force:			
bucket cylinder	kg	6 130	6 130
dipper stick	kg	4 200	2 800
Lifting capacity inside			
dipper stick reach (ISO)	kg	2 100	1 440
Lifting capacity with dipper stick at 3.66 m			
from ground level (ISO)	kg	2 200	1 460
Operating weight (with 4 in 1 bucket)	kg	7 750	8 360

Backhoe buckets

Struck capacity SAE J 296	Width	Weight
litres	mm	kg
76	305	108
109	457	130
153	610	160
196	762	180
238	914	208

At your dealership

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