



DOWNLOAD SERVICE MANUAL SKID STEERS
410-420-430-440 Series 3
435-445 vertical lift Series 3



	410 Series 3	420 Series 3	430 Series 3	435 Series 3	440 Series 3	445 Series 3
Operating load	680 kg	839 kg	907 kg	998 kg	998 kg	1134 kg
Engine Horsepower	45 kW - 60 hp	55 kW - 74 hp	61 kW - 82 hp	61 kW - 82 hp	67 kW - 90 hp	61 kW - 82 hp
Operating weight	2463 kg	2996 kg	3084 kg	3075 kg	3193 kg	3683 kg

DRIVING FORCE

Turbocharged, 4 cylinders, Tier 3 engines provide mighty power and massive torque to push through the toughest site conditions. Gear type hydraulic pump ensures plenty of hydraulic power for breakout, lift and attachments. Auxiliary hydraulics circuit is standard on all Case compact track skid steers, high flow for more demanding tools an option.

Power to perform. Total versatility.

STRUCTURAL INTEGRITY

Fully welded steel chassis, straddle mounted pins and bushings on the loader arms, radial or vertical lift kinematics ensure powerful, durable digging and lifting abilities.

The standard quick coupler is compatible not only within the series 3 range but also with former Case XT's, 400 series wheeled or tracked skid steers, Case E small wheel loaders and all major manufacturers of skid steers and related attachments. Optional hydraulic quick coupler is of course available

Loader strength. Robust design.

REDUCED DOWNTIME

Lift up panel in engine canopy and swing out rear panel provide easy access to daily service checks. Tilting cab allows access in less than a minute to the engine, the transmission and hydraulics, thus cutting service downtime time and boosting productivity.

Easy access. Maximum uptime.

FINGERTIP CONTROL

Precision mechanical or optional comfortable hydraulic ISO pilot controls (ISO meaning left handle is travel and right handle, arm and bucket) combined with trigger actuated two speed (except 410 series 3) vastly boost productivity. Ease of operation results in rapid cycle times and high performance. Standard horn and park brake as well as popular options like "ride control" (load amortization in travel), auxiliary electrics, turn signals are all controlled from handles.

Rapid response. Reduced operator effort.



ADDITIONAL FLOW

Standard auxiliary hydraulics circuit, working at the pressure and flow of the hydraulic system, is equipped with ISO flatface quick disconnects for fast and easy tool coupling. Additional Case drain plumbing (pressure release piping), high flow circuit or auxiliary electrical circuit are also available to power demanding hydraulic tools like cold planers or stump grinders. **Versatility built in. Operator control.**

COMPACT DIMENSIONS

Excellent stability in short dimensions offer superb manoeuvrability. The Case series 3 skid steers are agile yet powerful performers, capable of dozing, digging, lifting, loading and powering a wide range of attachments. **Stability and strength. Maximum productivity.**

ALL TERRAIN

Robust unitized undercarriage, top quality chains, vast choice of branded tyres, impressive power and torque make Case series 3 skid steers trustworthy of coping with any job in any terrain. **Durable design. Reliability guaranteed.**

HIGH SPEED

420, 430, 440 equipped with two speed reach 17 to 18 km/h boosting cycle times, productivity and return on owner's investment. 410 reaches 10 km/h with one speed only.

PILOT CONTROLS

Optional hydraulic pilot control levers offer precision with low effort. Straight line forward and reverse operations are easy to control, increasing productivity in fine grading and dozing operations. Ease of operation boosts productivity and efficiency. ISO pattern used for European version means left handle controls direction and right handle controls equipment. Non European version can opt for either ISO or the Case classic H pattern which means left handle controls left wheels and arm, whereas right handle controls the right wheels and bucket. **Smooth control. Full precision**



RADIAL LIFT



On 410, 420, 430, 440 series 3 the kinematics is of the radial type. This means that the arm is articulated at its base by a single pin. This conception is the most common in the market. Its robustness combined with the arms being in contact with the chassis in its low position make these models even more accurate for all demanding digging applications. Loading/unloading can be made easier by ordering the self-level (raise) option.

VERTICAL LIFT



On 435, 445 series 3 the kinematics is of the vertical type. This means that the arm is articulated at its base by a heavy lift and reach linkage which makes loading/unloading in elevation easier. As for the radial lift units, the arm is in contact with the chassis in its low position giving these models good digging abilities as well.

SPEED



Productivity on 420, 430, 440 series 3 is vastly improved by blazing two-speed travel of 17 to 18 km/h. 410 with one speed only reaches 10 km/h.

In all configurations, the new Case series 3 have a heavy duty steel chassis, loader arms with straddle mounted pins and bushings for durability. These compact machines have high operating loads. Breakout force at the bucket is powerful no matter which lift design is chosen. Case skid steers have a long-established worldwide reputation for their durable build quality and high productivity, but the series 3 takes skid steers performance to a new level, boosting productivity in the toughest applications.



OPERATOR'S CAB

The new ergonomically designed, Series 3 punched "cab" with its unique side lights is ROPS/FOPS level 1. It is available with or without side windows, high visibility standard or demolition door or optional air conditioning. Standard mechanical controls with H pattern (left handle = left travel and arm; right handle = right travel and bucket) are highly appreciated by experienced drivers. Optional hydraulic ISO pilot controls (left handle = travel/ right handle = arm) are responsive and easy to use, providing precision control with low fatigue for the operator. Visibility to the top, to the bucket or the attachment has been vastly improved in all positions increasing comfort of use and safety. The view to the rear of the machine has been also improved by the new enlarged rear escape window. Wider integral ergonomic armrests and safety seatbelt are standard equipment. The machine's hydraulic functions have a safety lockout system to prevent unintentional movement of the arms. The alarm switches and control panels are discreetly fitted in the Rops pillars of the cab for convenience and non-obstruction to the visibility to the working area.

ENGINE



The Case Series 3 skid steers are all powered by Turbo, 4 cylinder, tier 3 emission certified, diesel engines designed for Case with efficiency and fuel economy in mind.

The 410, 420, 430, 440 series 3 (radial lift) are equipped with either 2.2 litre (410), 3.2 litre (420, 430), or 4.5 litre (440) Turbo tier 3 engines developing respectively 60 hp, 74 hp, 82 hp and 90 hp. The 435 and 445 series 3 (vertical lift) are equipped with the new 3.2 litre turbo tier 3 engine of 82 hp with lift capacities of respectively 998 kg and 1134 kg.

Strong torques offer impressive rim pull to keep the machine moving and recovering in the toughest of conditions, aiding digging and loading performance. Side by side radiator and cooler are massive (no need of additional cooling for high flow option) and help preserve engines, oil qualities and components.

HYDRAULICS



Gear pump and 3 spool open centre system offer optimum hydraulic power.

Standard auxiliary hydraulics (working at flow and pressure of the main system) drive most hydraulic attachments. For more hydraulic power demanding tools like cold planers, optional high flow hydraulics can be specified. All series 3 skid steers can share all attachments with the popular Case compact track skid steer range, XT's, 400 series and all other major skid steer brands.

MAINTENANCE



Regular service items can be easily accessed through a lift up panel on top of the engine cover and a full swing-out door to the rear of the machine. For more in-depth maintenance the entire cab structure can easily be tilted forward, in less than a minute to provide unparalleled access to the can inner components of the machine.







CASE

430
Series 3

SPECIFICATIONS 410 Series 3

ENGINE

Make _____ "IHI Shibaura machinery corporation" (for Case)
 EPA* family _____ 8H3XL2.22N4T
 Model _____ N844LT-D-60SL
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4

Horsepower per SAE

Gross _____ 60 (44.7 kW) @ 2900 rpm
 Net _____ 57 (43 kW) @ 2900 rpm

Peak torque

@ 1700 rpm _____ 171 Nm

Displacement _____ 2.21 l

Fuel injection _____ Indirect

Cooling _____ Liquid

Water pump

Style _____ Centrifugal

Flow _____ 65 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump

Displacement _____ 25 cc

Pump flow @ rated engine rpm

Total _____ 74 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional high flow @ rated engine rpm

Total _____ 101 l/min

ELECTRICAL SYSTEM

Alternator _____ 55 amp

Starter _____ 2.0 kW

Battery _____ 12-volt low-maintenance 1125 cold-cranking
 amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 88.2 l

Engine oil with filter _____ 10.5 l

Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 26.9 l

Total _____ 50 l

POWERTRAIN

Travel speed

Low range _____ 9.7 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel

Final drive _____ single reduction chain drive

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 10.00 x 16.5 Galaxy Beefy Baby II tires, 1.5m foundry/excavating bucket, mechanical attachment coupler,

full fuel tank and 75 kg operator _____ 2463 kg

Shipping weight _____ 2214 kg

Add-on weights

Side cab glass _____ 32 kg

Lexan® door _____ 22.6 kg

Glass door with wiper _____ 35 kg

Suspension seat _____ 4.5 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

FOUNDRY/EXCAVATING

Heaped capacity	m ³	0.32	0.43	0.47
Width	m	1.52	1.67	1.82
Weight	kg	122	168	177

LOW PROFILE

Heaped capacity	m ³	0.32	0.37	0.41
Width	m	1.52	1.67	1.82
Weight	kg	150	181	193

UTILITY/LIGHT MATERIAL

Heaped capacity	m ³	0.56	0.67	0.79
Width	m	1.52	1.82	2.13
Weight	kg	159	197	225

HEAVY DUTY DIRT BUCKET

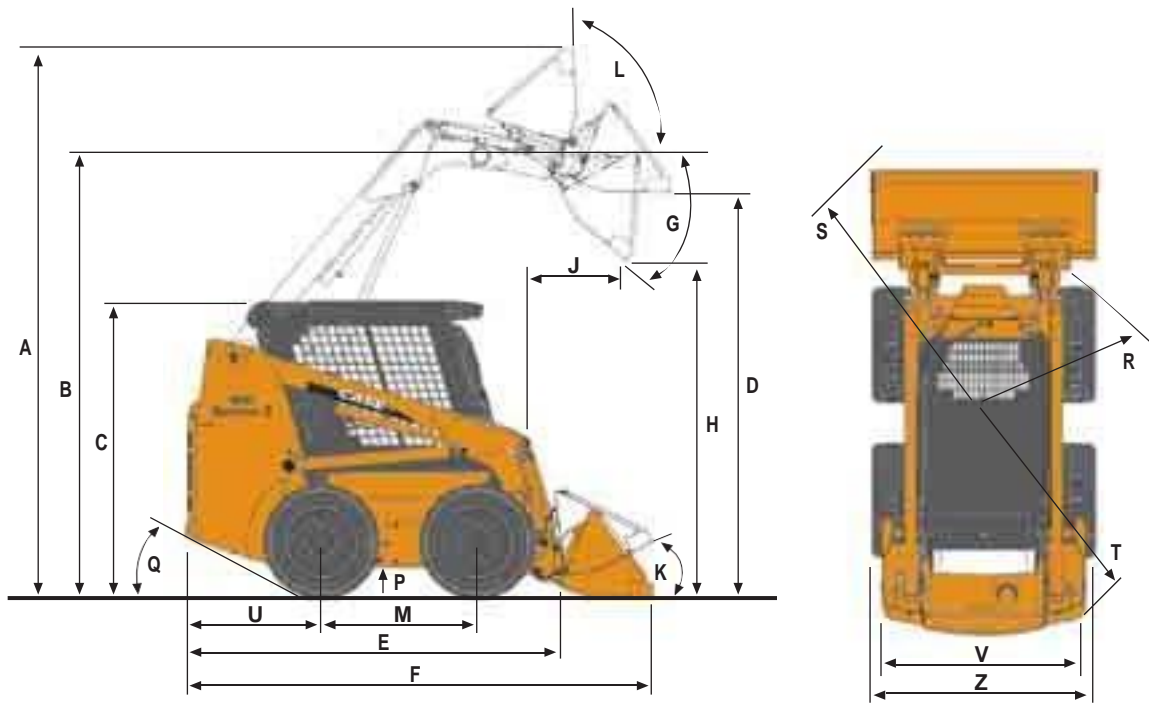
Heaped capacity	m ³	0.34	0.37	0.41
Width	m	1.52	1.67	1.82
Weight	kg	181	215	227

LOW PROFILE EXTENDED

Heaped capacity	m ³	0.40	0.44
Width	m	1.52	1.67
Weight	kg	163	197

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS 410 Series 3



A Overall operating height			J Dump reach - loader arm fully raised		
with foundry/excavating bucket - short lip	m	3.70	with foundry/excavating bucket	m	0.60
with low profile bucket - standard lip	m	3.84	with low profile bucket	m	0.71
with low profile extended bucket - long lip	m	3.97	with low profile extended bucket	m	0.81
Height to			Maximum attachment rollback		
B Bucket hinge pin	m	2.92	K Bucket on ground		28°
C Top of rollover protective structure	m	2.00	L Bucket at full height		94°
D Bottom of level bucket, loader arm fully raised	m	2.73	M Wheelbase	m	1.04
Overall length			Ground clearance		
E without attachment with coupler	m	2.48	P Bottom of belly pan	mm	212
F with foundry/excavating bucket on ground	m	3.13	Q Angle of departure		27°
with low profile bucket on ground	m	3.28	Clearance circle front		
with low profile extended bucket on ground	m	3.40	R Less bucket	m	1.37
G Dump angle at maximum height		40°	S with 1.52 m foundry/excavating bucket on ground	m	1.86
H Dump height - loader arm fully raised			with 1.52 m low profile bucket on ground	m	1.99
with foundry/excavating bucket	m	2.28	with 1.52 m low profile extended bucket on ground	m	2.11
with low profile bucket	m	2.18	T Clearance circle rear	m	1.46
with low profile extended bucket	m	2.10	U Rear axle to bumper	m	0.90
			V Tread width, centerline to centerline	m	1.23
			Z Width over tires	m	1.50

Equipped with 10.00 x 16.5 Galaxy Beefy Baby II tires.

PERFORMANCE SPECS

Tipping capacity	kg	1361
Tipping capacity 50% /Rated Operating Capacity (R.O.C.)	kg	680
Breakout force		
Loader circuit	N	16685
Bucket circuit	N	20702
Dig depth		
with bucket flat	mm	6
Cycle time		
Raise	sec.	4.0
Lower	sec.	2.4
Dump	sec.	1.5
Rollback	sec.	1.7

SAE rated lift capacities.

SPECIFICATIONS 420 Series 3

ENGINE

Make _____ "Iveco SpA" (for Case)
 EPA* family _____ 8VEXL03.2TCI
 Model _____ F5CE9454E*A
 Engine type _____ F5CE9454E*A002
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4

Horsepower per SAE

Gross _____ 74 (55 kW) @ 2500 rpm
 Net _____ 68 (51 kW) @ 2500 rpm

Peak torque

@ 1400 rpm _____ 275 Nm

Displacement _____ 3.2 l

Fuel injection _____ Direct

Cooling _____ Liquid

Water pump

Style _____ Centrifugal
 Flow _____ 110 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump
 Displacement _____ 36 cc

Pump flow @ rated engine rpm

Total _____ 90 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional high flow @ rated engine rpm

Total _____ 126 l/min

ELECTRICAL SYSTEM

Alternator _____ 95 amp

Starter _____ 2.7 kW

Battery

12-volt low-maintenance 1125 cold-cranking amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 88.2 l

Engine oil w/filter _____ 8.5 l

Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 26.9 l

Total _____ 50 l

POWERTRAIN

Travel speed

low range _____ 10.3 kph-km/h

high range _____ 16.9 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel

Final drive _____ single reduction chain drive

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 10.00 x 16.5 Galaxy Beefy Baby II tires, 1.5m foundry/excavating bucket, mechanical attachment coupler, full fuel tank and 75 kg operator _____ 2996 kg

Shipping weight _____ 2747 kg

Add-on weights

Side cab glass _____ 32 kg

Lexan® door _____ 22.6 kg

Glass door/wiper _____ 35 kg

Suspension seat _____ 4.5 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

FOUNDRY/EXCAVATING

Heaped capacity	m ³	0.32	0.43	0.47
Width	m	1.52	1.67	1.82
Weight	kg	122	168	177

HEAVY DUTY/DIRT

Heaped capacity	m ³	0.34	0.37	0.41	0.34
Width	m	1.52	1.67	1.82	1.25
Weight	kg	181	215	227	181

LOW PROFILE EXTENDED

Heaped capacity	m ³	0.40	0.44
Width	m	1.52	1.67
Weight	kg	163	197

LOW PROFILE

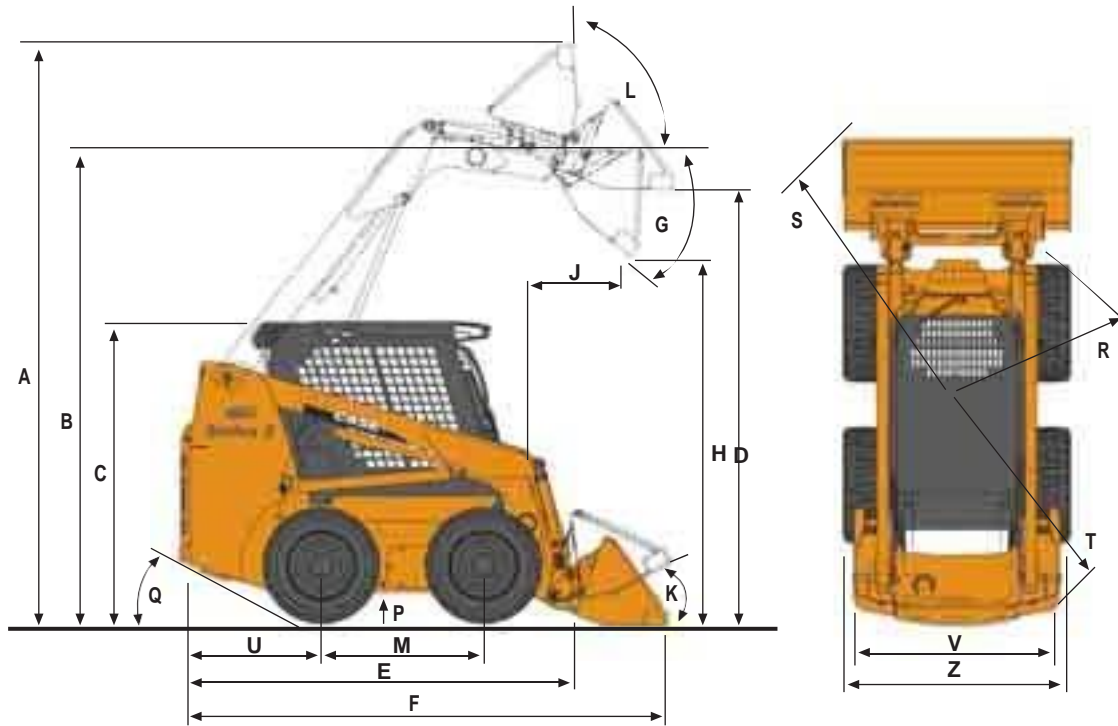
Heaped capacity	m ³	0.32	0.37	0.41
Width	m	1.52	1.67	1.82
Weight	kg	150	181	193

UTILITY/LIGHT MATERIAL

Heaped capacity	m ³	0.56	0.67	0.79
Width	m	1.52	1.82	2.13
Weight	kg	159	197	225

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS 420 Series 3



A Overall operating height			J Dump reach - loader arm fully raised		
with foundry/excavating bucket - short lip	m	3.85	with foundry/excavating bucket	m	0.58
with low profile bucket - standard lip	m	4.00	with low profile bucket	m	0.73
with low profile extended bucket - long lip	m	4.13	with low profile extended bucket	m	0.83
Height to			Maximum attachment rollback		
B Bucket hinge pin	m	3.06	K Bucket on ground		29°
C Top of rollover protective structure	m	2.00	L Bucket at full height		96°
D Bottom of level bucket, loader arm fully raised	m	2.88	M Wheelbase	m	1.07
Overall length			Ground clearance		
E without attachment with coupler	m	2.60	P Bottom of belly pan	mm	208
F with foundry/excavating bucket on ground	m	3.25	Q Angle of departure		26°
with low profile bucket on ground	m	3.38	Clearance circle front		
with low profile extended bucket on ground	m	3.50	R Less bucket	m	1.44
G Dump angle at maximum height		39°	S with 1.52 m foundry/excavating bucket on ground	m	1.93
H Dump height - loader arm fully raised			with 1.52 m low profile bucket on ground	m	2.06
with foundry/excavating bucket	m	2.44	with 1.52 m low profile extended bucket on ground	m	2.18
with low profile bucket	m	2.35	T Clearance circle rear	m	1.50
with low profile extended bucket	m	2.27	U Rear axle to bumper	m	0.94
			V Tread width, centerline to centerline	m	1.23
			Z Width over tires	m	1.63

Equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires.

PERFORMANCE SPECS

Tipping capacity	kg	1678
Tipping capacity 50% /Rated Operating Capacity (R.O.C.)	kg	839
Breakout force		
Loader circuit	N	18682
Bucket circuit	N	24465
Dig depth		
with bucket flat	mm	6
Cycle time		
Raise	sec.	3.8
Lower	sec.	2.8
Dump	sec.	1.4
Rollback	sec.	1.7

SAE rated lift capacities.

SPECIFICATIONS 430 Series 3

ENGINE

Make _____ "Iveco SpA" (for Case)
 EPA* family _____ 8VEXL03.2TCE
 Engine type _____ F5CE5454B*A002
 Engine model _____ F5CE5454B*A
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4

Horsepower per SAE

Gross _____ 82 (61 kW) @ 2500 rpm
 Net _____ 76 (57 kW) @ 2500 rpm

Peak torque

@ 1400 rpm _____ 310 Nm

Displacement _____ 3.2 l

Fuel injection _____ Direct

Cooling _____ Liquid

Water pump

Style _____ Centrifugal

Flow _____ 110 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump

Displacement _____ 36 cc

Pump flow @ rated engine rpm

Total _____ 90 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional high flow @ rated engine rpm

Total _____ 126 l/min

ELECTRICAL SYSTEM

Alternator _____ 95 amp

Starter _____ 2.7 kW

Battery

12-volt low-maintenance 1125 cold-cranking amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 88.2 l

Engine oil w/filter _____ 8.5 l

Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 26.9 l

Total _____ 50 l

POWERTRAIN

Travel speed

low range _____ 11.3 kph-km/h

high range _____ 18.3 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel

Final drive _____ single reduction chain drive

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Galaxy XD2002 tires, 1.6 m foundry/excavating bucket, mechanical attachment coupler,

full fuel tank and 75 kg operator _____ 3084 kg

Shipping weight _____ 2790 kg

Add-on weights

Side cab glass _____ 32 kg

Lexan® door _____ 22.6 kg

Glass door/wiper _____ 35 kg

Suspension seat _____ 4.5 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

FOUNDRY/EXCAVATING

Heaped capacity	m ³	0.43	0.47	0.52
Width	m	1.67	1.82	1.98
Weight	kg	168	177	197

HEAVY DUTY/DIRT

Heaped capacity	m ³	0.37	0.41	0.45
Width	m	1.67	1.82	1.98
Weight	kg	215	227	239

LOW PROFILE EXTENDED

Heaped capacity	m ³	0.44	0.49	0.53
Width	m	1.67	1.82	1.98
Weight	kg	197	216	205

LOW PROFILE

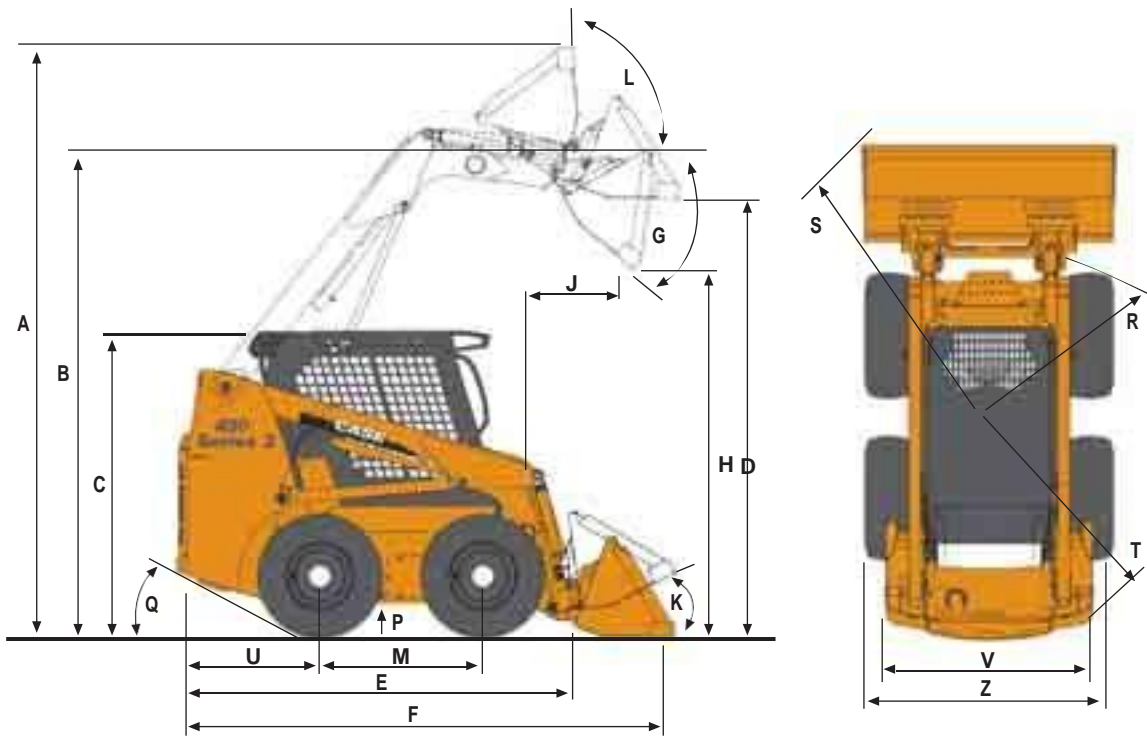
Heaped capacity	m ³	0.37	0.41
Width	m	1.67	1.82
Weight	kg	181	193

UTILITY/LIGHT MATERIAL

Heaped capacity	m ³	0.67	0.79
Width	m	1.82	2.13
Weight	kg	197	225

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS 430 Series 3



A Overall operating height			J Dump reach - loader arm fully raised		
with foundry/excavating bucket - short lip	m	3.91	with foundry/excavating bucket	m	0.58
with low profile bucket - standard lip	m	4.08	with low profile bucket	m	0.66
with low profile extended bucket - long lip	m	4.21	with low profile extended bucket	m	0.75
Height to			Maximum attachment roll back		
B Bucket hinge pin	m	3.09	K Bucket on ground		29°
C Top of rollover protective structure	m	2.03	L Bucket at full height		96°
D Bottom of level bucket, loader arm fully raised	m	2.90	M Wheelbase	m	1.07
Overall length			Ground clearance		
E without attachment with coupler	m	2.60	P Bottom of bellypan	mm	234
F with foundry/excavating bucket on ground	m	3.28	Q Angle of departure		28°
with low profile bucket on ground	m	3.43	Clearance circle front		
with low profile extended bucket on ground	m	3.56	R Less bucket	m	1.32
G Dump angle at maximum height		39°	S with 1.52m foundry/excavating bucket on ground	m	1.95
H Dump height - loader arm fully raised			with 1.52 m low profile bucket on ground	m	2.13
with foundry/excavating bucket	m	2.43	with 1.52m low profile extended bucket on ground	m	2.16
with low profile bucket	m	2.37	T Clearance circle rear	m	1.50
with low profile extended bucket	m	2.29	U Rear axle to bumper	m	0.94
			V Tread width, centerline to centerline	m	1.32
			Z Width over tires	m	1.63

Equipped with 12.00 x 16.5 Galaxy XD2002 tires.

PERFORMANCE SPECS

Tipping capacity	kg	1814
Tipping capacity 50% / Rated Operating Capacity (R.O.C.)	kg	907
Breakout force		
Loader circuit	N	19145
Bucket circuit	N	25729
Dig depth		
with bucket flat	mm	24
Cycle time		
Raise	sec.	3.8
Lower	sec.	2.8
Dump	sec.	1.4
Rollback	sec.	1.7

SAE rated lift capacities.

SPECIFICATIONS 440 Series 3

ENGINE

Make _____ "CNH U.K. Limited" (for Case)
 EPA* family _____ 8NHXL04.5DTD
 Model type _____ 445T/MMC
 Engine model _____ F4GE9454C*J
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4

Horsepower per SAE J1349

Gross _____ 90 (67 kW) @ 2300 rpm
 Net _____ 85 (63 kW) @ 2300 rpm

Peak torque

@ 1300 rpm _____ 390 Nm

Displacement _____ 4.46 l

Fuel injection _____ Direct

Cooling _____ Liquid

Water pump

Style _____ Centrifugal

Flow _____ 110 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump

Displacement _____ 36 cc

Pump flow @ rated engine rpm

Total _____ 83 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional high flow @ rated engine rpm

Total _____ 143 l/min

ELECTRICAL SYSTEM

Alternator _____ 95 amp

Starter _____ 2.7 kW

Battery

12-volt low-maintenance 1125 cold-cranking amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 88.2 l

Engine oil w/filter _____ 12 l

Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 26.9 l

Total _____ 50 l

POWERTRAIN

Travel speed

low range _____ 10.6 kph-km/h

high range _____ 17.3 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel

Final drive _____ single reduction chain drive

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires, 1.6 m foundry/excavating bucket, mechanical attachment coupler,

full fuel tank and 75 kg operator _____ 3193 kg

Shipping weight _____ 2898 kg

Add-on weights

Side cab glass _____ 32 kg

Lexan® door _____ 22.6 kg

Glass door/wiper _____ 35 kg

Suspension seat _____ 4.5 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

FOUNDRY/EXCAVATING

Heaped capacity	m ³	0.43	0.47	0.52
Width	m	1.67	1.82	1.98
Weight	kg	168	177	197

HEAVY DUTY/DIRT

Heaped capacity	m ³	0.37	0.41	0.45
Width	m	1.67	1.82	1.98
Weight	kg	215	227	239

LOW PROFILE EXTENDED

Heaped capacity	m ³	0.44	0.49	0.53
Width	m	1.67	1.82	1.98
Weight	kg	197	216	205

LOW PROFILE

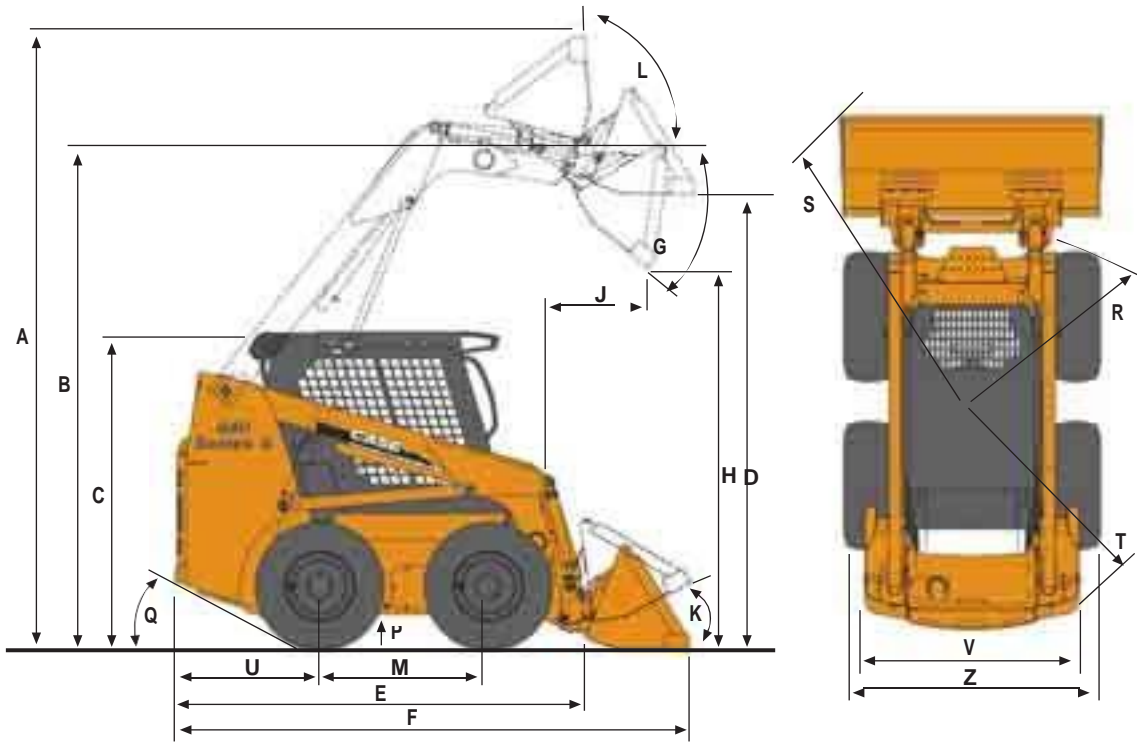
Heaped capacity	m ³	0.37	0.41
Width	m	1.67	1.82
Weight	kg	181	193

UTILITY/LIGHT MATERIAL

Heaped capacity	m ³	0.67	0.79
Width	m	1.82	2.13
Weight	kg	197	225

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS 440 Series 3



A Overall operating height			J Dump reach - loader arm fully raised		
w/foundry/excavating bucket - short lip	m	3.91	w/foundry/excavating bucket	m	0.58
w/low profile bucket - standard lip	m	4.08	w/low profile bucket	m	0.66
w/low profile extended bucket - long lip	m	4.21	w/low profile extended bucket	m	0.75
Height to			Maximum attachment roll back		
B Bucket hinge pin	m	3.09	K Bucket on ground		29°
C Top of rollover protective structure	m	2.03	L Bucket at full height		96°
D Bottom of level bucket, loader arm fully raised	m	2.90	M Wheelbase	m	1.07
Overall length			Ground clearance		
E w/o attachment with coupler	m	2.60	P Bottom of bellypan	mm	234
F w/foundry/excavating bucket on ground	m	3.29	Q Angle of departure		28°
w/low profile bucket on ground	m	3.43	Clearance circle front		
w/low profile extended bucket on ground	m	3.56	R Less bucket	m	1.32
G Dump angle at maximum height		39°	S w/1.52 m foundry/excavating bucket on ground	m	1.95
H Dump height - loader arm fully raised			w/1.52 m low profile bucket on ground	m	2.13
w/foundry/excavating bucket	m	2.44	w/1.52 m low profile extended bucket on ground	m	2.16
w/low profile bucket	m	2.37	T Clearance circle rear	m	1.50
w/low profile extended bucket	m	2.29	U Rear axle to bumper	m	0.94
			V Track gauge, centerline to centerline	m	1.32
			Z Width over tires	m	1.63

Equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires.

PERFORMANCE SPECS

Tipping capacity	kg	1996
Tipping capacity 50% /Rated Operating Capacity (R.O.C.)	kg	998
Breakout force		
Loader circuit	N	20355
Bucket circuit	N	27610
Dig depth		
with bucket flat	mm	23
Cycle time		
Raise	sec.	4.3
Lower	sec.	2.8
Dump	sec.	1.7
Rollback	sec.	2.0

SAE rated lift capacities.





SPECIFICATIONS 435 Series 3

VERTICAL LIFT

ENGINE

Make _____ "Iveco SpA" (for Case)
 EPA* family _____ 8VEXL03.2TCE
 Engine type _____ F5CE5454B*A002
 Engine model _____ F5CE5454B*A
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4
Horsepower per SAE J1349
 Gross _____ 82 (61 kW) @ 2500 rpm
 Net _____ 76 (57 kW) @ 2500 rpm

Maximum torque

@ 1400 rpm _____ 310 Nm
 Displacement _____ 3.2 l
 Fuel injection _____ Direct
 Cooling _____ Liquid

Water pump

Style _____ Centrifugal
 Flow _____ 110 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump
 Displacement _____ 36 cc

Pump flow @ rated engine rpm

Total _____ 90 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional combined high flow @ rated engine rpm

Total _____ 126 l/min

ELECTRICAL SYSTEM

Alternator _____ 95 amp
 Starter _____ 2.7 kW

Battery

12-volt low-maintenance 1125 cold-cranking amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 63.2 l
 Engine oil w/filter _____ 8.5 l
 Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 21.6 l
 Total _____ 41.6 l

POWERTRAIN

Travel speed

low range _____ 11.1 kph-km/h
 high range _____ 18.0 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel
 Final drive _____ single reduction chain drive

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires, 1.9 m short lip bucket, mechanical attachment coupler, full fuel tank and 75 kg operator _____ 3075
 Shipping weight _____ 2776

Add-on weights

Side cab glass _____ 32 kg
 Glass door w/wiper _____ 35 kg
 Suspension seat _____ 4.5 kg
 Hydraulic attachment coupler _____ 17 kg
 Counterweight bumper ILO coupler
 Std bumper _____ 50 kg
 Additional counterweight _____ 113 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

SHORT LIP/DIRT

Heaped capacity	m ³	0.39
Width	m	1.85
Weight	ka	186

HEAVY DUTY/DIRT

Heaped capacity	m ³	0.48	0.54
Width	m	1.85	2.13
Weight	kg	281	307

HEAVY DUTY/UTILITY

Heaped capacity	m ³	0.63	0.72
Width	m	1.85	2.13
Weight	ka	315	342

DIRT

Heaped capacity	m ³	0.48	0.54
Width	m	1.85	2.13
Weight	ka	251	281

UTILITY

Heaped capacity	m ³	0.63	0.72
Width	m	1.85	2.13
Weight	ka	285	281

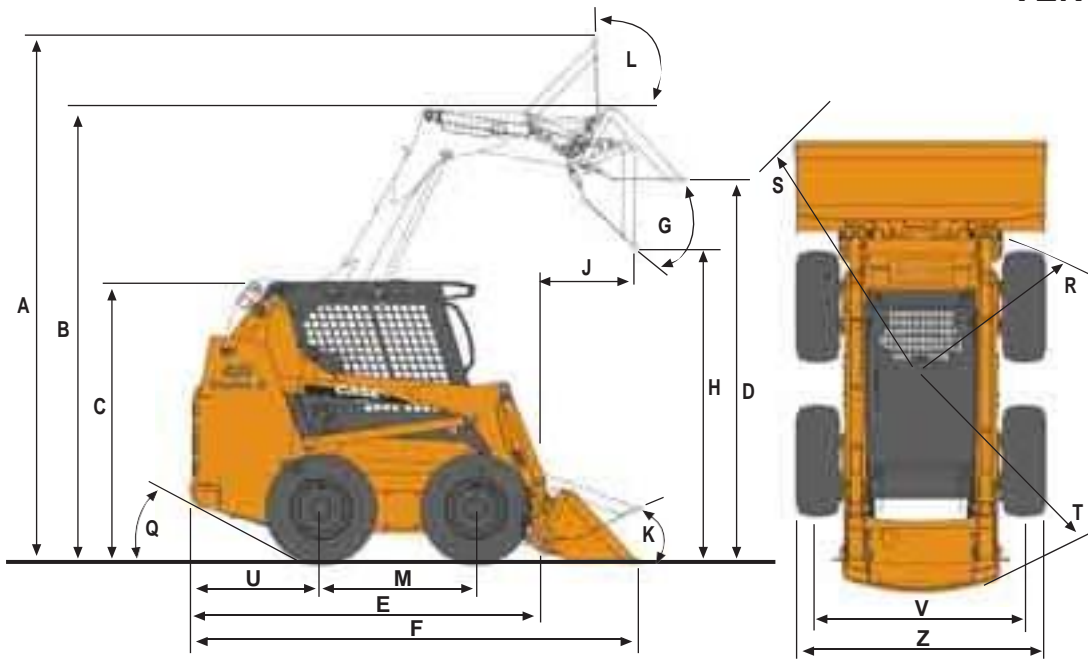
LIGHT MATERIAL

Heaped capacity	m ³	0.92
Width	m	2.08
Weight	ka	265

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS **435 Series 3**

VERTICAL LIFT



A Overall operating height			J Dump reach - loader arm fully raised		
Shortlip dirtbucket	m	3.90	Shortlip dirtbucket	m	0.78
Dirt bucket	m	4.01	Dirt bucket	m	0.81
Light material bucket	m	4.20	Light material bucket	m	1.03
Height to			Maximum attachment rollback		
B Bucket hinge pin	m	3.05	K Bucket on ground		27°
C Top of rollover protection structure	m	2.11	L Bucket at full height		92°
D Bottom of level bucket, loader arm fully raised	m	2.84	M Wheel base	m	1.14
Overall length			Ground clearance		
E w/o attachment with coupler	m	2.65	O Bottom of chain case	mm	236
F w/short lip bucket on ground	m	3.34	P Bottom of belly pan	mm	288
w/dirt bucket on ground	m	3.44	Q Angle of departure		29°
w/light material bucket on ground	m	3.64	Clearance circle front		
G Dump angle at maximum height		43°	R Less bucket	m	1.35
H Dump height - loader arm fully raised			S w/1.85 m short lip dirt bucket in carry position	m	2.02
Shortlip dirtbucket	m	2.33	w/1.85 m dirt bucket in carry position	m	2.13
Dirt bucket	m	2.28	w/2.08 m dirt bucket in carry position	m	2.18
Light material bucket	m	2.21	w/2.08 m light material bucket on ground	m	2.36
			T Clearance circle rear	m	1.54
			U Rear axle to bumper	m	0.97
			V Tread width, centerline to centerline	m	1.52
			Z Width over tires	m	1.83

Equipped with 12.00 x 16.5 Galaxy XD2002 tires

PERFORMANCE **SPECS**

Tipping capacity	kg	1996
Tipping capacity 50%/Rated Operating Capacity (R.O.C.)	kg	998
Breakout force		
Loader circuit	N	19572
Bucket circuit	N	28024
Dig depth		
with bucket flat	mm	20
Cycle time		
Raise	sec.	4.5
Lower	sec.	3.7
Dump	sec.	1.4
Rollback	sec.	1.8

SAE rated lift capacities. Breakout force and cycle time measured with rated load in F/E bucket.

435 Series 3

SPECIFICATIONS 445 Series 3

VERTICAL LIFT

ENGINE

Make _____ "Iveco SpA" (for Case)
 EPA* family _____ 8VEXL03.2TCE
 Engine type _____ F5CE5454B*A002
 Engine model _____ F5CE5454B*A
 Type _____ diesel, Tier III certified, 4-stroke, turbocharged
 Cylinders _____ 4
Horsepower per SAE J1349
 Gross _____ 82 (61 kW) @ 2500 rpm
 Net _____ 76 (57 kW) @ 2500 rpm

Maximum torque

@ 1400 rpm _____ 310 Nm
 Displacement _____ 3.2 l
 Fuel injection _____ Direct
 Cooling _____ Liquid

Water pump

Style _____ Centrifugal
 Flow _____ 110 l/min

HYDRAULIC SYSTEM

Standard equipment pump

Type _____ Gear pump
 Displacement _____ 36 cc

Pump flow @ rated engine rpm

Total _____ 90.1 l/min

Loader control valve 3 spool open center

Relief pressure _____ 210 bar

Optional high flow @ rated engine rpm

Total _____ 126 l/min

ELECTRICAL SYSTEM

Alternator _____ 95 amp
 Starter _____ 2.7 kW

Battery

12-volt low-maintenance 1125 cold-cranking amps @ -17.8° C

SERVICE CAPACITIES

Fuel tank _____ 63.2 l
 Engine oil w/filter _____ 8.5 l
 Engine cooling system _____ 11.4 l

Hydraulic system

Reservoir _____ 21.6 l
 Total _____ 41.6 l

POWERTRAIN

Travel speed

low range _____ 11.1 kph-km/h
 high range _____ 18.0 kph-km/h

Drive pump

Tandem, axial piston hydrostatic transmission with integral charge pump driven directly off engine flywheel
 Final drive _____ Single-reduction planetary

Parking brakes

Spring applied, hydraulic release disc.

Engagement

Depress on/off brake button on handle or instrument panel, raise seat bar, get off seat, or stop engine.

OPERATING WEIGHTS

Unit equipped with 12.00 x 16.5 Galaxy Beefy Baby II tires, 1.9 m short lip bucket, mechanical attachment coupler, full fuel tank and 75 kg operator _____ 3683 kg
 Shipping weight _____ 3384 kg

Add-on weights

Side cab glass _____ 32 kg
 Glass door w/wiper _____ 35 kg
 Heater _____ 27 kg
 Suspension seat _____ 4.5 kg
 Hydraulic attachment coupler _____ 17 kg
 Counterweight _____ 387 kg
 Additional counterweight _____ 408 kg

*Environmental Protection Agency

OPTIONAL BUCKETS

SHORT LIP DIRT

Heaped capacity	m ³	0.39
Width	m	1.85
Weight	kg	186

DIRT

Heaped capacity	m ³	0.48	0.54
Width	m	1.85	2.13
Weight	kg	251	302

HEAVY DUTY DIRT

Heaped capacity	m ³	0.63	0.72
Width	m	1.85	2.13
Weight	kg	315	342

UTILITY

Heaped capacity	m ³	0.63	0.72
Width	m	1.85	2.13
Weight	kg	285	281

HEAVY DUTY UTILITY

Heaped capacity	m ³	0.63	0.72
Width	m	1.85	2.13
Weight	kg	315	342

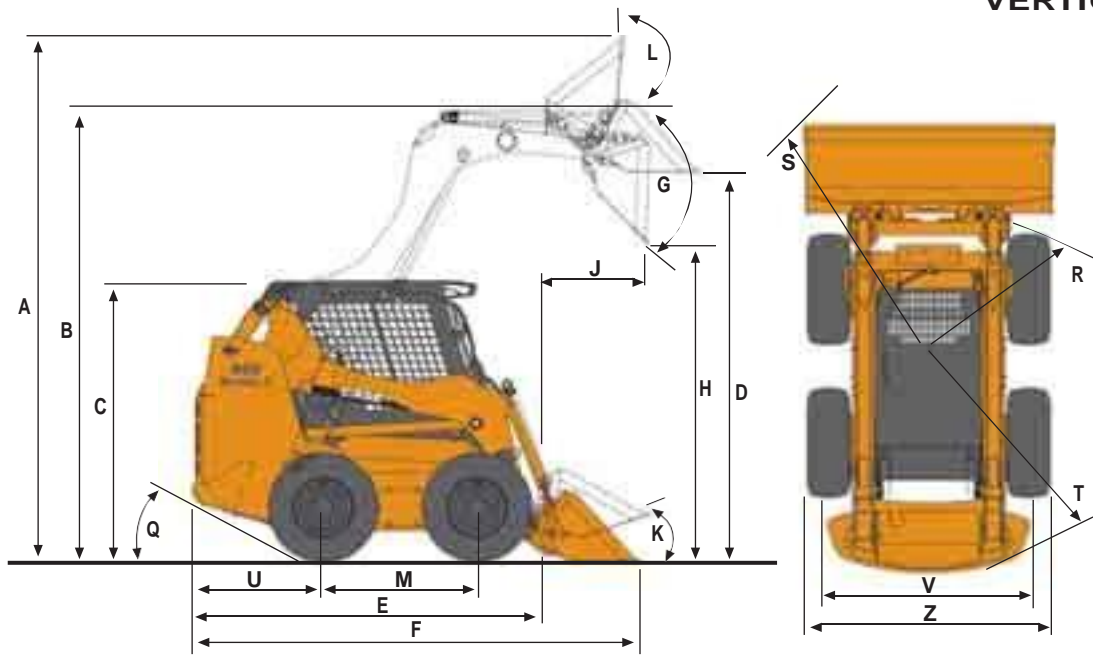
LIGHT MATERIAL

Heaped capacity	m ³	0.92
Width	m	2.08
Weight	kg	265

For other bucket sizes, please contact your CASE dealer

GENERAL DIMENSIONS 445 Series 3

VERTICAL LIFT



A Overall operating height			J Dump reach - loader arm fully raised		
Short lip dirt bucket	m	3.57	Short lip dirt bucket	m	0.86
Dirt bucket	m	4.04	Dirt bucket	m	1.04
Light material bucket	m	4.11	Light material bucket	m	1.22
Height to			Maximum attachment rollback		
B Bucket hinge pin	m	3.11	K Bucket on ground		27°
C Top of rollover protection structure	m	2.11	L Bucket at full height		86°
D Bottom of level bucket, loader arm fully raised	m	2.90	M Wheel base	m	1.14
Overall length			Ground clearance		
E w/o attachment with coupler	m	2.65	O Bottom of chain case	mm	236
F w/short lip bucket on ground	m	3.34	P Bottom of belly pan	mm	283
w/dirt bucket on ground	m	3.48	Bottom of optional counterweight	mm	236
w/light material bucket on ground	m	3.68	Q Angle of departure		28°
G Dump angle at full height		51°	Clearance circle front		
H Dump height - loader arm fully raised			R Less bucket	m	1.36
Short lip dirt bucket	m	2.37	S w/1.85 m short lip dirt bucket in carry position	m	2.03
Dirt bucket	m	2.29	w/1.85 m dirt bucket in carry position	m	2.12
Light material bucket	m	2.16	w/2.01 m dirt bucket in carry position	m	2.18
			w/2.08 m light material bucket on ground	m	2.35
			T Clearance circle rear	m	1.57
			U Rear axle centerline to back bumper	m	0.97
			V Tread width, centerline to centerline	m	1.48
			Z Width over tires	m	1.83

Equipped with 12.00 x 16.5 Galaxy XD2002 tires

PERFORMANCE SPECS

Tipping load	kg	2268
Tipping capacity 50% / Rated Operating Capacity (R.O.C.)	kg	1134
Breakout force		
Lift cylinder	kg	22241
Bucket cylinder	kg	32917
Dig dept w/bucket flat	mm	3
Cycle time		
Raise	sec.	4.2
Lower	sec.	2.7
Dump (stop to stop)	sec.	1.6
Rollback	sec.	2.0

SAE rated lift capacities. Breakout force and cycle time measured with rated load in F/E bucket.

445 Series 3

410-420-430-440 Series 3 435-445 vertical lift Series 3 STANDARD EQUIPMENT & OPTIONS

STANDARD EQUIPMENT

Engine

- Tier 3 low emissions certified
- 4 cylinder
- Turbo
- 410 series 3 - 2,2 litre - 60 hp
- 420 series 3 - 3,2 litre - 74 hp
- 430 series 3 - 3,2 litre - 82 hp
- 440 series 3 - 4,5 litre - 90 hp
- 435 series 3 (vertical lift) - 3,2 litre - 82 hp - 998 kg rated operating capacity
- 445 series 3 (vertical lift) - 3,2 litre - 82 hp - 1134 kg rated operating capacity
- Integral liquid cooling
- Heavy-duty radiator (side by side with hyd cooler)
- Grid heater
- No maintenance belt
- Fuel filter with water trap
- Dual element air cleaner
- 95 amp alternator (55 amp for 410 series 3)
- 12 Volt battery
- Battery disconnect switch with jump start terminals (except 410 and 420 series 3)
- Hand and foot throttle

Hydraulic System

- Gear pump
- Heavy duty oil cooler (side by side engine radiator)
- 3 spool loader control valve
- Auxiliary hydraulics standard (same pressure and flow as loader circuit)
- Auxiliary function lockout override

- Loader arm-mounted ISO flat face hydraulic quick connectors
 - Loader lift lockout override
 - Loader function lockout system
 - Loader arm float position
- ### Loader
- Radial (410, 420, 430, 440 series 3) loader arm design
 - Vertical (435, 445 series 3) loader arm design with heavy lift-and reach linkage
 - Lift cylinder plumbing guard
 - Mechanical attachment coupler
 - Loader lift arms support safety strut on 410, 420, 430, 440 series 3
 - Loader arm locking device on 435, 445 series 3
- ### Powertrain
- Hydrostatic 4 wheel drive
 - Hydraulic pilot controls (ISO pattern)
 - ASA # 100 HS drivetrain (410 series 3: 80 ASA)
 - SAHR (spring applied - hydraulic release) disc parking brakes
 - 1 (10 km/h - 410 series 3) or 2 speed (18 km/h) ground drive
- ### Operator environment
- Tilt ROPS/FOPS level 1 canopy
 - Water-shedding vinyl seat
 - 51 mm retractable seat belt
 - Seat presence switch
 - Seat bar with ergonomic integral armrests
 - Two speed trigger on hand control (except 410 series 3)
 - Loader control lockout system
 - Electric parking brake control
 - Halogen lights (2 front, 1 rear, 2 side)
 - Foot rest
 - Cleanout panel

- Enlarged top window
 - Non visibility-obstructing instrument panels
 - Large rear window with emergency escape
 - Headliner
 - Storage tray
 - Cup holder
 - 12 Volt power plug socket
 - Backup alarm
 - Horn
 - Instrumentation
 - Indicators
 - Digital hour meter
 - Fuel level LCD bar graph with alarm
 - Warning lights with alarms
 - Engine coolant temperature
 - Engine oil pressure
 - Engine Malfunction
 - Hydraulic charge pressure
 - Hydraulic filter restriction
 - Hydraulic oil temperature
 - Warning alarms
 - Battery voltage (plus display)
 - Indicator light
 - Engine preheat
 - Parking brake
 - Seat bar reminder
- ### Other standard equipment
- Integral bumper counterweight
 - Lockable service access hood
 - Single-point daily servicing
 - Remote oil drain

OPTIONS

- ### Engine
- Air pre-cleaner/aspirator
 - Engine block heater

Hydraulics

- High-flow auxiliary hydraulics
 - Second auxiliary hydraulics Loader
 - ISO pattern (left travel/right arm) low effort hydraulic Pilot Controls
 - Ride control (amortization of load in travel)
 - Hydraulic attachment coupler
 - Hydraulic self-leveling (raise only)
 - Case drain plumbing
 - Front auxiliary electrics Operator's compartment
 - Air conditioning and heater
 - Vinyl full suspension seat with 76 mm retractable seat belt
 - Deluxe cloth suspension full seat with heater and lumbar support for enclosed cab
 - Side windows
 - New wide front door with wiper & washer
 - New wide demolition front door (12,7 mm lexan polycarbonate)
 - Electric auxiliary hydraulic control
 - Heater deluxe
 - Radio
 - Two speed trigger on hand control (except 410 Series 3)
- ### Other options
- Deluxe instrument panel
 - Road lights
 - Rotating beacon
 - Lift hooks
 - Lift cylinder guards
 - Locking fuel cap

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 Fz, Pudong,
SHANGHAI, 200131, P.R.C.



The call is free from a landline. Check in advance with your Mobile Operator if you will be charged.

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.



Conforms to directive 98/37/CE

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CASE
CONSTRUCTION

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