

Doosan Infracore Construction Equipment

Skid Steer Loader 430 Plus 440 Plus 450 Plus 460 Plus 470 Plus



Robust & Durable Simple & Practical 400 Series Skid Steer Loaders.

Doosan Skid Steers lead to success business with

- line up of 1505lb ~ 2500lb (682kg ~ 1134kg)
- Robust chassis
- Powerful and reliable Cummins engine
- Smooth operation and convenient hydraulic joystick control
- Easy maintenance

Cummins Inside



Power full Diesel Engines

A2000 ; 2.0 l · A2300 ; 2.3 l Cummins "A" Series Diesel engines are designed for all applications with power and economy. The characteristic of a strong torque curve at low engine rpm ensures excellent durability and low noise even during tough operations. Outstanding serviceability is obtained by locating all regular service items on one side of the engine. (Complied with Euro StageIII & EPA TierIII Regulations)





3.3ℓ Diesel Engine (B3.3)

This Cummins B3.3 new diesel engine is designed exclusively for earth moving equipment applications. Especially optimized engine design provides high fuel efficiency, low noise, low emission even in tough applications. Furthermore longer service interval

add an advantages to its value. (Complied with Euro StageII & EPA TierII Regulations)



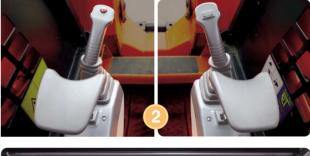
3.3ℓ Diesel Engine (B3.3T)

This Cummins B3.3T new diesel engine is prepared for high power applications. Adding on the proven B3.3 technology, powerful turbo charger design offers high flexibility and productivity. (Complied with Euro StageII & EPA TierII Regulations)

Operators Comfort & Easy Maintenance







Ergonomics designed for operator's safety and comfort

All round visibility,wide operation space and dampened controls give the best operating condition in terms of smooth feel and safety.

Output Provide the image of the image of

Now Doosan offers Hydraulic Joystick Controls. Two pilot-operated joysticks provides smooth and comfortable operation.The control grips ar soft to hold for long periods of productive work.The right lever controls the machine loader functions and left lever controls machine directions.

8 Easy-To-Read Instrument Panel

Engine coolant temperature, transmission oil and fuel level gauges keep the driver aware of the machines operating condition.

Economic design for "Maintenance time and cost"

- Broad space and lined Hose & Tube Routing
- Swing type Oil Cooler and Radiator easy maintenance
- Simple and convenient open and close design for Operator Canopy and Rear Door maintenance

Attachment System Means Versatility

Fully Protected Quick-Tatch

Doosan's simple attachment system lets you switch from a bucket to a sweeper or to a dozer blade in seconds.

All hydraulic lines and fittings are protected inside the boom arms from damage resulting from contact with any debris.





It would be the best choice for you to select us in terms of time and cost saving with any attachments. We are sure that it will lead to success in your business.









Main Features of 430 Plus

- \checkmark Conventional linkage boom provides compact maneuverability and operation.
- \checkmark Easy to see instrument and integral switch panel with room lamp.
- ✓ Great serviceability with tilting cab, wide open rear door, engine hood and swing-out oil cooler

A - Height at Maximum Extension

- \checkmark Clean pedal with inclined floor plate and cleaning holes.
- ✓ Easy entrance and exit with boom cross member.

SPECIFICATIONS

Model

Operating Performance

Rated Operating Capacity	lb(kg)	1505(682)
Operating Weight	lb(kg)	5703(2587)
Bucket Capacity	ft³(m³)	11.0(0.31)
Breakout Force (Bucket)	lb(kg)	3139(1424)
Breakout Force (Boom)	lb(kg)	2890(1310)
Tipping Load	lb(kg)	3009(1365)
Speed, Forward	mph(kph)	7.5(12.1)
Reverse	mph(kph)	7.5(12.1)
Tires-Flotation		10-16.5-6PR
Hydraulics Standard Flow	gpm(lpm)@bar	11.8(44.8)@175
High Flow	gpm(lpm)@bar	25.9(98.0)@175

Engine

Maker		Cummins
Model		A2000
Rated output	hp(ps)@rpm	45(45.6)@2800
Tank Capacity	liter	53.0
Displacement	in³(cc)	122.0(2000)
Cylinders		4
Torque	ft.lb(kg.m)@rpm	101.3(14.0)@1600

Standard

Engine

Cummins Diesel A2000 Dual element air filter Preheat system Key fuel shut off Spark arrestor muffler, Lockable engine compartment

Hydraulic System

Gear type hydraulic pump,hydraulic motor 3 spool control valve Auxiliary boom hydraulics

Electrical

Two Front and One Rear working lights

O DIMENSIONAL DRAWINGS

Operator's Area :

ROPS & FOPS operator cab Operator safety restraint includes seat belt pull down safety bar with arm rest Rear cab window Rear view mirror Top cab window, Adjustable foam seat Light /Buzzer warning system

Drive Train

Piston type Hydrostatic transmission pump Parking brake

Instrument Panel

Engine oil pressure Engine water temperature Voltage meter Oil temperature indicator Charge pressure indicator Fuel gauge Hour meter Parking brake monitor Preheater monitor Key switch Hydrostatic filter Stop warning Light switch

Quick Coupler Ball fitting Type

Dimensions

B - Hinge Pin Height	in(mm)	112.0(2845)
C - R.O.P.S.Height	in(mm)	76.1(1934)
D - Length with Bucket	in(mm)	120.0(3047)
E - Length without Bucket	in(mm)	93.3(2371)
F - Width with Bucket	in(mm)	61.5(1562)
G - Track Width	in(mm)	58.5(1486)
H - Wheelbase	in(mm)	37.7(957)
I - Seat Index Point	in(mm)	37.8(959)
J - Ground Clearance	in(mm)	7.5(190)
K - Dump Angle	deg	45°
L - Dumping Height	in(mm)	86.3(2192)
M - Maximum Reach	in(mm)	20.4(518)
N - Max.Rollback at Ground	deg	25°
O - Max.Rollback - Extended	deg	94°
Q - Clearance Circle w/o Bucket	in(mm)	46.6(1183)
R - Clearance Circle with Bucket	in(mm)	71.0(1804)
S - Clearance Circle - Rear	in(mm)	60.4(1534)
T - Width w/o Bucket	in(mm)	48.1(1222)
U - Departure Angle	deg	27°

Optional

Engine Purifier (Catalvtic) Exhaust Muffler

Hydraulic System

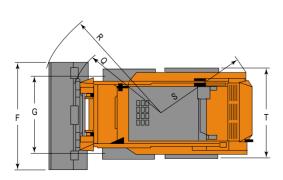
High Hydraulic Flow Hydraulic Self Leveling Flat Face Fitting for Quick Coupler

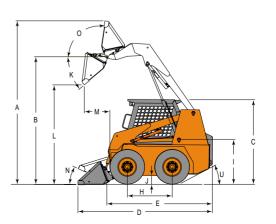
Electrical

Back-Up Alarm Horn for NON-EU Combination Lamp -Front and Rear Combination Lamp for use with High Flow Strobe Light

Operator's Area :

Hvdraulic Jovstick Controls Hand Control System (mechanical type) Hard Cab (Cabin) Heater for Hard Cab Side Mirrors Reflector for NON-EU area Tool Kit





430 Plus

142.4(3617)

in(mm)



Main Features of 440 Plus

- \checkmark Vertical linkage boom provides great reach and higher dump
- \checkmark Easy to see instrument and integral switch panel with room lamp.
- ✓ Great serviceability with tilting cab, wide open rear door, engine hood and swingout oil cooler

A - Height at Maximum Extension

 \checkmark Clean pedal with inclined floor plate and cleaning holes.

Dimensions

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B - Hinge Pin Height

✓ Easy entrance and exit with boom cross member.

SPECIFICATIONS

Model

Operating Performance

Rated Operating Capacity	lb(kg)	1973(895)
Operating Weight	lb(kg)	6133(2782)
Bucket Capacity	ft³(m³)	11.9(0.34)
Breakout Force (Bucket)	lb(kg)	2910(1320)
Breakout Force (Boom)	lb(kg)	3285(1490)
Tipping Load	lb(kg)	3946(1790)
Speed, Forward	mph(kph)	7.3(11.8)
Reverse	mph(kph)	7.3(11.8)
Tires-Flotation		10-16.5-8PR
Hydraulics Standard Flow	gpm(lpm)@bar	15.8(59.8)@207
High Flow	gpm(lpm)@bar	27.5(104)@207

Engine

-		
Maker		Cummins
Model		A2300
Rated output	hp(ps)@rpm	47(48.0)@2600
Tank Capacity	liter	54.0
Displacement	in³(cc)	139.8(2290)
Cylinders		4
Torque	ft.lb(kg.m)@rpm	110.7(15.3)@1600

Standard

Engine

2.3 liter displacement. Dual element air filter Preheat system Key fuel shut off Spark arrestor muffler, Lockable engine compartment

Hydraulic System

Gear type hydraulic pump,hydraulic motor 3 spool control valve Auxiliary boom hydraulics

Electrical

Two Front and One Rear working lights

O DIMENSIONAL DRAWINGS

Operator's Area :

ROPS & FOPS operator cab Operator safety restraint includes seat belt pull down safety bar with arm rest Rear cab window Rear view mirror Top cab window, Adjustable foam seat Light /Buzzer warning system

Drive Train

Piston type Hydrostatic transmission pump Parking brake

Instrument Panel

Engine oil pressure Engine water temperature Voltage meter Oil temperature indicator Charge pressure indicator Fuel gauge Hour meter Parking brake monitor Preheater monitor Key switch Hydrostatic filter Stop warning Light switch

Quick Coupler Ball fitting Type

Optional Engine

Purifier (Catalytic) Exhaust Muffler (12v)

Hydraulic System

High Hydraulic Flow Hydraulic Self Leveling Flat Face Fitting for Quick Coupler

Electrical

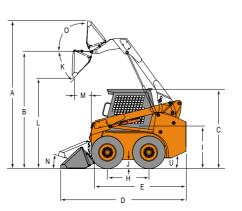
Back-Up Alarm Horn for NON-EU Combination Lamp -Front and Rear Combination Lamp for use with High Flow Strobe Light

Operator's Area :

26°

Hydraulic Joystick Controls Hand Control System (mechanical type) Hard Cab (Cabin) Heater for Hard Cab Side Mirrors Reflector for NON-EU area Tool Kit

G



440 Plus

145.8(3704)

114.8(2915)

76.9(1954) 126.3(3208) 99.3(2521) 63.4(1611) 58.5(1486) 42.3(1074.8) 37.8(959)

in(mm)

in(mm)

C - R.O.P.S.Height	in(mm)
D - Length with Bucket	in(mm)
E - Length without Bucket	in(mm)
F - Width with Bucket	in(mm)
G - Track Width	in(mm)
H - Wheelbase	in(mm)
I - Seat Index Point	in(mm)
J - Ground Clearance	in(mm)
K - Dump Angle	deg
L - Dumping Height	in(mm)
M - Maximum Reach	in(mm)
N - Max.Rollback at Ground	deg





Main Features of 450 Plus

- ✓ Conventional linkage boom provides compact maneuverability and operation.
- \checkmark Easy to see instrument and integral switch panel with room lamp.
- ✓ Great serviceability with tilting cab,wide open rear door, engine hood and swing-out oil cooler

A - Height at Maximum Extension

 \checkmark Clean pedal with inclined floor plate and cleaning holes.

Dimensions

B - Hinge Pin Height

D - Length with Bucket

F - Width with Bucket

I - Seat Index Point

L - Dumping Height

M - Maximum Reach

N - Max.Rollback at Ground

J - Ground Clearance

G - Track Width

H - Wheelbase

K - Dump Angle

E - Length without Bucket

C - R.O.P.S.Height

 \checkmark Easy entrance and exit with boom cross member.

SPECIFICATIONS

Model

Operating Performance

Rated Operating Capacity	lb(kg)	2061(935)
Operating Weight	lb(kg)	6911(3135)
Bucket Capacity	ft³(m³)	13.5(0.38)
Breakout Force (Bucket)	lb(kg)	4678(2122)
Breakout Force (Boom)	lb(kg)	4656(2112)
Tipping Load	lb(kg)	4122(1870)
Speed, Forward	mph(kph)	7.64(12.3)
Reverse	mph(kph)	7.64(12.3)
Tires - Flotation		12-16.5-8PR
Hydraulics Standard Flow	gpm(lpm)@bar	21.7(82.0)@207
High Flow	gpm(lpm)@bar	32.3(122.3)@207

Engine

Maker		Cummins
Model		B3.3NA
Rated output	hp(ps)@rpm	65(66.0)@2600
Tank Capacity	liter	70.0
Displacement	in³(cc)	198.9(3260)
Cylinders		4
Torque	ft.lb(kg.m)@rpm	157.7(21.8)@1600

Standard

Engine

Cummins Diesel B3.3 Dual element air filter Preheat system Spark arrestor muffler, Lockable engine compartment

Hydraulic System

Gear type hydraulic pump,hydraulic motor 3 spool control valve Auxiliary boom hydraulics

Electrical

Two Front and One Rear working lights

O DIMENSIONAL DRAWINGS

Operator's Area : ROPS & FOPS operator

cab Operator safety restraint includes seat belt pull down safety bar with arm rest Rear cab window Rear view mirror Top cab window, Adjustable foam seat Light /Buzzer warning system

Drive Train Piston type Hydrostatic

transmission pump Parking brake

Instrument Panel

Engine oil pressure Engine water temperature Voltage meter Oil temperature indicator Charge pressure indicator Fuel gauge Hour meter Parking brake monitor Preheater monitor Key switch Hydrostatic filter Stop warning Light switch

Quick Coupler Ball fitting Type

O - Max.Rollback - ExtendeddegQ - Clearance Circle w/o Bucketin(mm)R - Clearance Circle with Bucketin(mm)S - Clearance Circle - Rearin(mm)T - Width w/o Bucketin(mm)U - Departure Angledeg

Optional

Engine Purifier (Catalytic) Exhaust Muffler (12v)

Hydraulic System

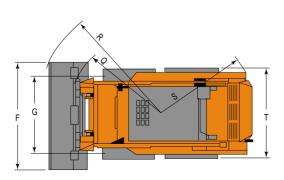
High Hydraulic Flow Hydraulic Self LevelingFlat Face Fitting for Quick Coupler

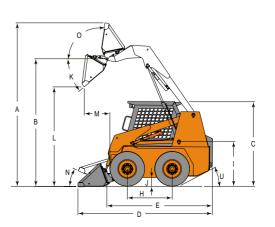
Electrical

Back-Up Alarm Horn for NON-EU Combination Lamp -Front and Rear Combination Lamp for use with High Flow Strobe Light

Operator's Area :

Hydraulic Joystick Controls Hand Control System (mechanical type) Hard Cab (Cabin) Heater for Hard Cab Side Mirrors Reflector for NON-EU area Tool Kit





450 Plus

153.1(3889)

119.6(3039)

80.1(2035)

126.9(3223)

99.8(2536)

67.5(1713)

65.4(1662)

41.8(1061)

40.9(1040)

8.6(218)

35°

95.2(2417)

25.8(656)

26°

98°

46.6(1185)

75.0(1905)

61.1(1551)

53.1(1350)

27°

in(mm)

deg

in(mm)

in(mm)

deg



Main Features of 460 Plus

- \checkmark Vertical linkage boom provides great reach and higher dump
- \checkmark Easy to see instrument and integral switch panel with room lamp.
- ✓ Great serviceability with tilting cab,wide open rear door, engine hood and swingout oil cooler

A - Height at Maximum Extension

 \checkmark Clean pedal with inclined floor plate and cleaning holes.

Dimensions

B - Hinge Pin Height

D - Length with Bucket

F - Width with Bucket

I - Seat Index Point

L - Dumping Height

M - Maximum Reach

N - Max.Rollback at Ground

O - Max.Rollback - Extended

S - Clearance Circle - Rear

T - Width w/o Bucket

U - Departure Angle

Q - Clearance Circle w/o Bucket

R - Clearance Circle with Bucket

J - Ground Clearance

G - Track Width

H - Wheelbase

K - Dump Angle

E - Length without Bucket

C - R.O.P.S.Height

 \checkmark Easy entrance and exit with boom cross member.

O SPECIFICATIONS

Model

Operating Performance

Rated Operating Capacity	lb(kg)	2249(1020)
Operating Weight	lb(kg)	7174(3254)
Bucket Capacity	ft³(m³)	14.1(0.40)
Breakout Force (Bucket)	lb(kg)	4678(2122)
Breakout Force (Boom)	lb(kg)	5194(2356)
Tipping Load	lb(kg)	4497(2040)
Speed, Forward	mph(kph)	7.64(12.3)
Reverse	mph(kph)	7.64(12.3)
Tires-Flotation		12-16.5-8PR
Hydraulics Standard Flow	gpm(lpm)@bar	21.7(82.0)@207
High Flow	gpm(lpm)@bar	32.3(122.3)@207

Engine

		Cummins
Model		B3.3NA
Rated output	hp(ps)@rpm	65(66.0)@2600
Tank Capacity	liter	60.0
Displacement	in³(cc)	198.9(3260)
Cylinders		4
Torque	ft.lb(kg.m)@rpm	157.7(21.8)@1600

Standard

Engine

3.3 liter displacement, Dual element air filter Preheat system Key fuel shut off Spark arrestor muffler, Lockable engine compartment

Hydraulic System

Gear type hydraulic pump,hydraulic motor 3 spool control valve Auxiliary boom hydraulics

Electrical

Two Front and One Rear working lights

O DIMENSIONAL DRAWINGS

Operator's Area :

ROPS &FOPS operator cab Operator safety restraint includes seat belt pull down safety bar with arm rest Rear cab window Rear view mirror Top cab window, Adjustable foam seat Light /Buzzer warning system

Drive Train

Piston type Hydrostatic transmission pump Parking brake

Instrument Panel

Engine oil pressure Engine water temperature Voltage meter Oil temperature indicator Charge pressure indicator Fuel gauge Hour meter Parking brake monitor Preheater monitor Key switch Hydrostatic filter Stop warning Light switch

Quick Coupler Ball fitting Type

Optional

Engine Purifier (Catalytic) Exhaust Muffler (12v)

Hydraulic System

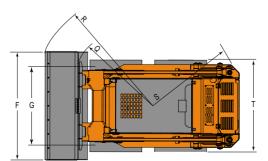
High Hydraulic Flow Hydraulic Self Leveling Flat Face Fitting for Quick Coupler

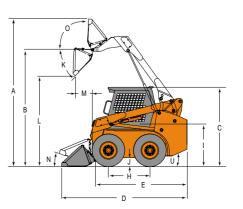
Electrical

Back-Up Alarm Horn for NON-EU Combination Lamp -Front and Rear Combination Lamp for use with High Flow Strobe Light

Operator's Area :

Hydraulic Joystick Controls Hand Control System (mechanical type) Hard Cab (Cabin) Heater for Hard Cab Side Mirrors Reflector for NON-EU area Tool Kit





460 Plus

156.3(3972)

122.3(3106)

80.1(2035)

127.9(3248)

100.7(2557)

70(1778)

65.4(1662)

41.8(1061)

40.9(1040)

8.6(218)

40°

95.4(2424)

29.0(737)

26°

94°

46.6(1185)

76.3(1939)

62.2(1580)

53.1(1350)

27°

in(mm)

deg

in(mm)

in(mm)

deg

deg

in(mm)

in(mm)

in(mm)

in(mm)

deg



Main Features of 470 Plus

- ✓ Vertical linkage boom provides great reach and higher dump
- \checkmark Easy to see instrument and integral switch panel with room lamp.
- ✓ Great serviceability with tilting cab,wide open rear door, engine hood and swingout oil cooler

A - Height at Maximum Extension

 \checkmark Clean pedal with inclined floor plate and cleaning holes.

Dimensions

B - Hinge Pin Height

D - Length with Bucket

F - Width with Bucket

I - Seat Index Point

L - Dumping Height

M - Maximum Reach

N - Max.Rollback at Ground

O - Max.Rollback - Extended

J - Ground Clearance

G - Track Width

H - Wheelbase

K - Dump Angle

E - Length without Bucket

C - R.O.P.S.Height

 \checkmark Easy entrance and exit with boom cross member.

O SPECIFICATIONS

Model

Operating Performance

Rated Operating Capacity	lb(kg)	2500(1134)
Operating Weight	lb(kg)	7478(3392)
Bucket Capacity	ft³(m³)	14.1(0.40)
Breakout Force (Bucket)	lb(kg)	4678(2122)
Breakout Force (Boom)	lb(kg)	5194(2356)
Tipping Load	lb(kg)	5000(2268)
Speed, Forward	mph(kph)	7.64(12.3)
Reverse	mph(kph)	7.64(12.3)
Tires-Flotation		12-16.5-8PR
Hydraulics Standard Flow	gpm(lpm)@bar	21.7(82.0)@207
High Flow	gpm(lpm)@bar	32.3(122.3)@207

Engine

Maker		Cummins
Model		B3.3T
Rated output	hp(ps)@rpm	75(76.0)@2600
Tank Capacity	liter	60.0
Displacement	in³(cc)	198.9(3260)
Cylinders		4
Torque	ft.lb(kg.m)@rpm	193.1(26.7)@1600

Standard

Engine

Cummins Diesel B3.3 Turbo Dual element air filter Preheat system Spark arrestor muffler, Lockable engine compartment

Hydraulic System

Gear type hydraulic pump,hydraulic motor 3 spool control valve Auxiliary boom hydraulics

Electrical

Two Front and One Rear working lights

O DIMENSIONAL DRAWINGS

Operator's Area :

ROPS &FOPS operator cab Operator safety restraint includes seat belt pull down safety bar with arm rest Rear cab window Rear view mirror Top cab window, Adjustable foam seat Light /Buzzer warning system

Drive Train

Piston type Hydrostatic transmission pump Parking brake

Instrument Panel

Engine oil pressure Engine water temperature Voltage meter Oil temperature indicator Charge pressure indicator Fuel gauge Hour meter Parking brake monitor Preheater monitor Key switch Hydrostatic filter Stop warning Light switch

Quick Coupler Ball fitting Type

Q - Clearance Circle w/o Bucketin(mm)R - Clearance Circle with Bucketin(mm)S - Clearance Circle - Rearin(mm)T - Width w/o Bucketin(mm)U - Departure Angledeg

Optional

Engine Purifier (Catalytic) Exhaust Muffler (12v)

Hydraulic System

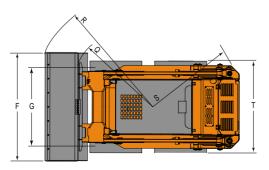
High Hydraulic Flow Hydraulic Self Leveling Flat Face Fitting for Quick Coupler

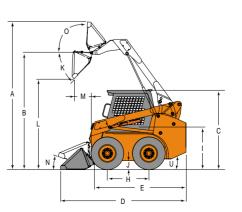
Electrical

Back-Up Alarm Horn for NON-EU Combination Lamp -Front and Rear Combination Lamp for use with High Flow Strobe Light

Operator's Area :

Hydraulic Joystick Controls Hand Control System (mechanical type) Hard Cab (Cabin) Heater for Hard Cab Side Mirrors Reflector for NON-EU area Tool Kit





470 Plus

156.3(3972)

122.3(3106)

80.1(2035)

127.9(3248)

100.7(2557)

70(1778)

65.4(1662)

41.8(1061)

40.9(1040)

8.6(218)

40°

95.4(2424)

29.0(737)

26°

94°

46.6(1185)

76.3(1939)

62.2(1580)

53.1(1350)

27°

in(mm)

deg

in(mm)

in(mm)

deg

deg

Looking toward the Future as one

From Doosan Daewoo to Doosan





We have completed the transition to the Doosan brand.

We look to the future with pride and promise. As a reliable partner, we will continue to provide innovative products and services. As a responsible player, we will continue to contribute to the better future.

Power Up for Tomorrow.



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Doosan Infracore

6



Doosan Infracore

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The illustrations do not necessary show the product in standard version. All products and equipment are not available in all markets. Materials and specifications are subject to change without prior notice.