



D'JOSAN

DX340 FS / DX420 FS / DX520 FS / DX700 FS



KEY POINT

Customized Features

- Wide range of model choice
- Optimized front linkage part
- High productivity
- Specialized cabin & Guard option
- Various bucket option

Reliability

- Reliable and well protected hydraulic, electric and lubrication routings with simple, optimized layout

Comfort

Operator orientated cabin designSimple and easy control panel

Fuel Efficiency

- Relief cut off - Optimized lever control & Idle
- Engine & Pump Matching

Performance

- Powerful Doosan Engine for each model
 E-POS System(Electronic Power Optimizing System)
- Maintenance
- Easy access to all maintenance componentsIntuitive maintenance data management

Front Shovel





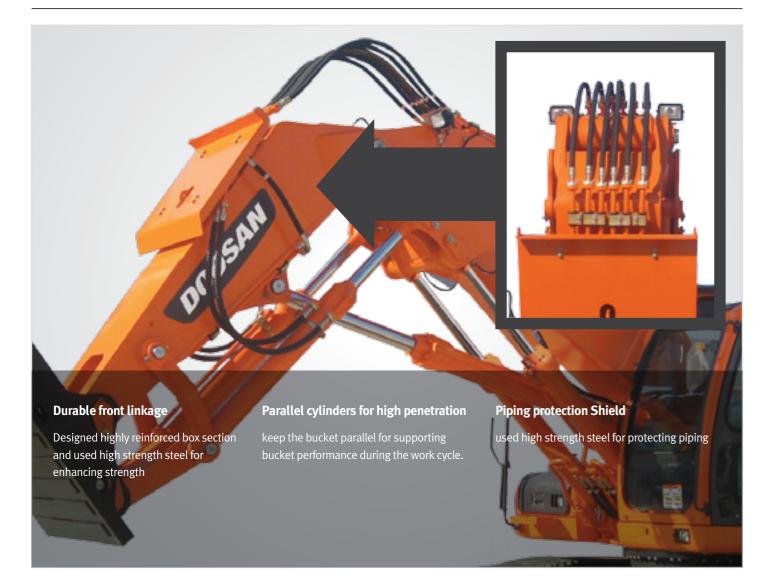
CUSTOMIZED FEATURES

Front Shovel is the machine to dig and dump big volume material at one time. It can put stone, gravel, soil or sand to dump truck from ground surface. Working range is short and shovel bucket is rotated in the opposite direction to the general excavator's backhoe for quick working with approached truck.

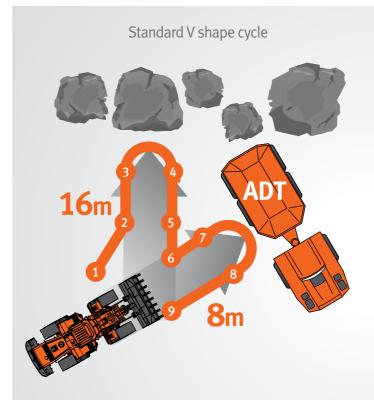
WIDE RANGE OF MODEL CHOICE

0.0 mini	Bucket Dump	Max.	Max.	Boom Length	Arm Length	Additional	Bucket Capacity (m ³)	Match with DOOSAN ADT	
Model	Туре	Dumping Height (mm)	Digging Reach (mm)	(mm)	(mm)	Counter- weight (t)		DA30	DA40
DX340 FS	Bottom dump	7,240	8,510	3,850	2,750	-	1.8	•	-
DX420 FS	Bottom dump	6,870	8,840	4,200	2,800	1.0	2.2	•	-
DX520 FS	Bottom dump	7,285	8,930	4,300	2,800	-	2.6	•	٠
	Detter	0.1/0 10.10	10.100		2 (00	3.0	3.3 / 3.5 / 3.6		
DX700 FS	Bottom dump	8,140	10,100	4,500	3,600 4.0 4.0	4.0 / 4.5	-	•	

OPTIMIZED FRONT LINKAGE PART



HIGH PRODUCTIVITY



Enhanced working mechanism

- Shorter Cycle time Increases unit per hour.

- Accessibility to the rugged terrain. - Perfect match with Doosan ADT.

SPECIALIZED CABIN & GUARD OPTION



Standard Swing cycle

High working efficiency

- Cost saving effect such as Labor and Fuel consumption.

Fall Objective Protection Structure (FOPS)

Operator protective guard (OPG) on the cabin to protect operator from falling objective from the top.



CUSTOMIZED FEATURES

VARIOUS BUCKET OPTION

Features & benefits

Bottom dump buckets are provided for each front shovel model.

Designed for dumping easily without tilting by opening the shell from bottom plate.
Large bucket capacity for high breaking force capable of excavating heavily compacted dirt and rock.



Customized choice depend on job site condition

Classification focused on durability

H class

Material such as :

Hard packed clay, short limestone, limited rock content and gravel.

Features & Benefits

Spill guard is applied to load more capacity.

- High grade material composition for better durability
- Use HARDOX400 grade material on Lip plate, wear parts.

S class

Material such as :

Gravel, ripped basalt, caliche, shot granite, high silica sand, sharp rock and others.

Features & Benefits

Spill guard is applied to load more capacity.

- High grade material composition for better durability
- Added more patches for durability and strength on lip plate and inner shell.



Material such as :

Ripped basalt, caliche, shot granite, high silica sand, sharp rock and others.

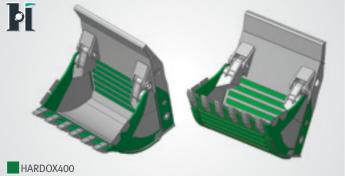
Features & Benefits

Spill guard is applied to load more capacity.

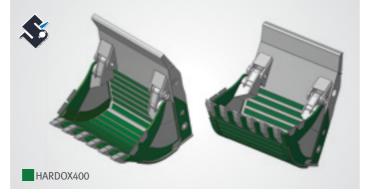
High grade material composition for better durability

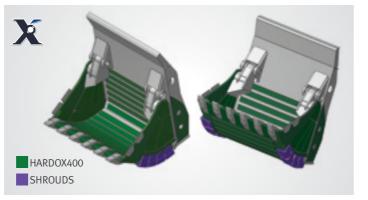
- Added more patches for durability and strength on lip plate and inner shell

- Muscle pack heels to increase durability and protect shell from wear.









Types of lip plate shape focused on performance

Straight shape

Designed for : Multi purposed digging and loading in almost all of general job site.

Features & Benefits

Even distributed breakout force on the all bucket tooth. Especially higher efficiency for normal duty digging and loading.

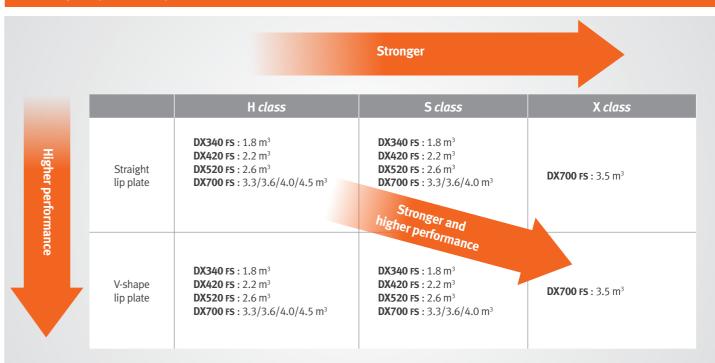
V-shape

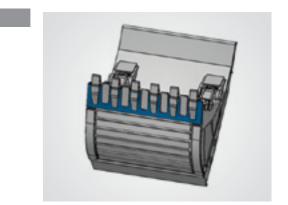
Designed for : Face or bank loading in mining or quarry applications.

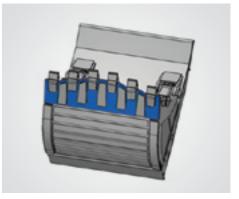
Features & Benefits

Optimized penetration for high resistance material such as blasted rock. - 150~160° tapered lip plate reduce the penetration resistance. Increased anti-abrasion life for lip plate.

Durability and penetration performance chart







PERFORMANCE

The performance of the Doosan machine has a direct effect on its productivity. Its new improved engine and new e-EPOS controlled hydraulic system have combined to create an unbeatable hydraulic excavator, with a cost/performance ratio that makes the Doosan machine even more appealing.

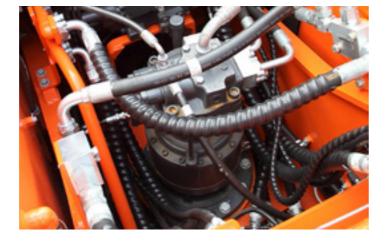
Maximum performance by Doosan engine

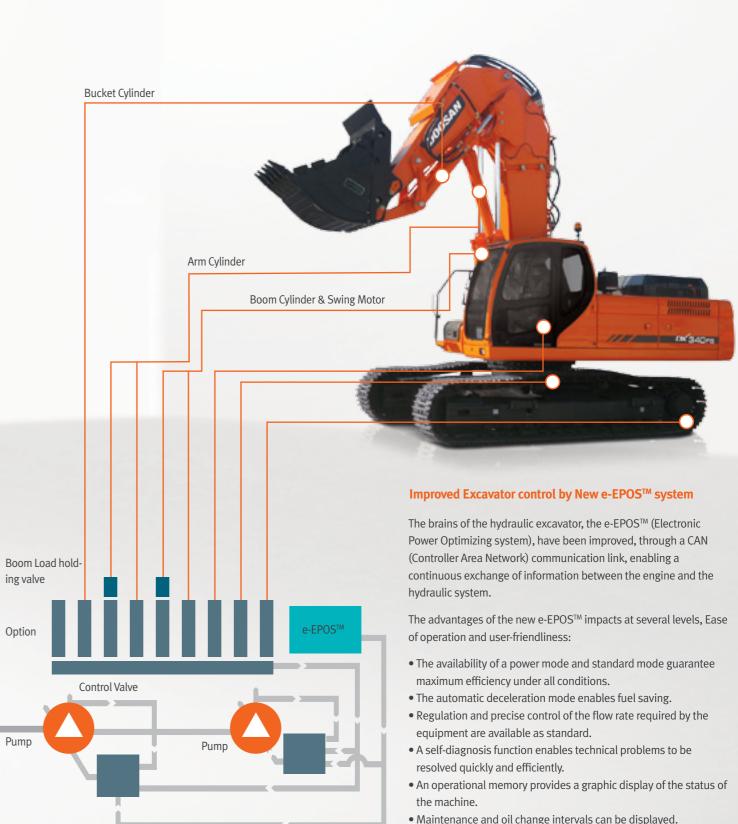
Doosan engine perfectly harmonized with the hydraulic system and provides strong power. Mechanical engine providing high resistance to moisture, dust, and bad fuel quality.



Smooth swing with Increased Swing torque

New motor swing reduction gear minimizes shocks during rotation while making increased swing torque.





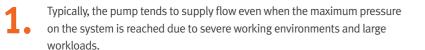
- Maintenance and oil change intervals can be displayed.

FUEL EFFICIENCY



RELIEF CUTOFF

to prevent transfer of unnecessary flow



Relief cutoff technology of Doosan prevent transfer of unnecessary flow to keep powerful working level at the maximum value while reducing consumption of fuel.



OPTIMIZED LEVER CONTROL

to prevent unnecessary fuel consumption

- When operator takes break for rest with the joystick kept fixed, both of the engine and the pump are kept in standby mode with maximum rotation rate and hydraulic power. In such a case, unnecessary fuel consumption takes place.
- **& AUTO IDLE**

The auto idle technology effectively controls the engine, and prevents unnecessary fuel consumption while the engine is kept in standby mode.

Further, the optimized lever control technology effectively controls the pump to keep power of the pump maximum and prevent fuel consumption while the system is kept shut down.

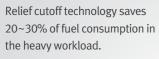
When operating the joystick, rotation rate of the engine and maximum hydraulic power of the pump increase simultaneously for efficient consumption of fuel. The technologies of Doosan enable operation of the system with maximum power in time.



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Relief Cutoff





Optimized Lever Control

In auto idle, you can save 90% of fuel than in operation.



Doosan Efficient Dynamics Features "NEW CONTROL LOGIC" for Better Fuel Efficiency

ENGINE & PUMP MATCHING

to reduce matching response time of the system

It is common that response time of the system (time for generating rated power from the minimum power) is slower than response speed of the pump. In such a case, the pump is kept in standby mode until the engine reaches the rated power to cause unnecessary fuel consumption. In addition, more fuel is supplied to the engine for matching the pump speed with the engine to result in more exhaust fumes.

Engine & pump matching, the new technology of Doosan, fully resolves these problems. Matching response time between pump and engine efficiently reduces unnecessary fuel consumption as well as exhaust fumes.

Engine & pump matching

Matching response time between pump and engine makes higher performance with reduced fuel consumption.



Rated power

Rated power

RELIABILITY

DOOSAN uses computer-assisted design techniques, highly durable materials and structures then test these under extreme conditions. Durability of materials and longevity of structures are our first priorities.



Additional counter weight options

For keeping machine stability and performance, Doosan offer sand witch type or Bottom mounting type.



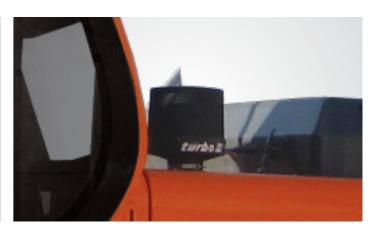
Polymer shim

A polymer shim is added to the bucket pivot to maintain precise control over the equipment.



Dry type of pre cleaner

Pre cleaner filters out impurities again for keeping steady machine performance.



COMFORT

The work rate of the hydraulic excavator is directly linked to the performance of its operator. DOOSAN designed a cabin by putting the operator at the center of the development goals. The result is significant ergonomic value that improves the efficiency and safety of the operator.

VISIBILITY

has been improved in all directions and the size of the cab has been increased.



CONTROL OPTIONS

The hydraulic excavator's power, durability, ease of servicing and its precise control increase its effectiveness and life expectancy. DOOSAN offers an excellent return on investment.

Control lever

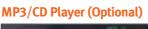
Very precise control of the equipment increases versatility, safety and facilitates tricky operations requiring great precision. Levelling operations and the movement of lifted loads in particular are made easier and safer.

The control levers have additional electrical buttons for controlling other additional equipment (for example, grabs, crushers, grippers, etc.)



Air suspension seat (Optional)

Equipped with various functions of adjustment forth and back and, and lumbar support, it reduces the vibration of equipment transmitted during work in an effective way. Also for considering winter working environment, Seat warmer functions equipped.





Audio Button



Audio Button has been positioned in a way that the driver can turn on/ off the radio, control the volume, and select a channel conveniently.

Appropriate storage spaces show the attention given to the operator.









The high performance air conditioning provides



Control stand (Telescopic Function)

Control panel

Correct positioning with clear controls makes the operator's task easier.



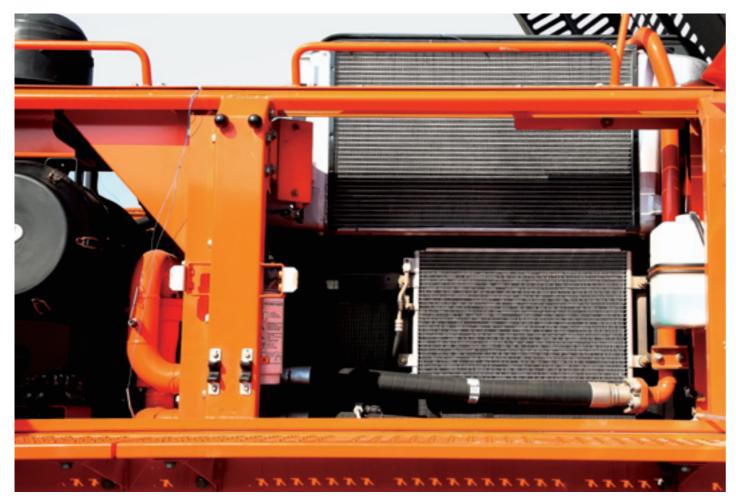




MAINTENANCE

Easy maintenance

Access to the various radiators and coolers is very easy, making cleaning easier. Access to the various parts of the engine is from the top and via side panels.



Fuel pre-filter

High efficiency fuel filtration is attained by the use of multiple filters, including a fuel pre-filter fitted with a water separator that removes most moisture from the fuel.

Air cleaner

The large capacity forced air cleaner removes over 99% of airborne particles, reducing the risk of engine contamination and making the cleaning and cartridge change intervals greater.

Remote greasing points

For comfortable maintenance, the arm and boom greasing points have been centralised. Remote & grouped greasing points on boom & arm.







Hydraulic oil return filter

The protection of the hydraulic system is more effective, using glass fiber filter technology in the main oil return filter. This means that with more than 99.5% of foreign particles filtered out, the oil change interval is increased.







New battery box

a. Cut-off switch easier to reach b. New spring to facilitate fixing c. New locking device

Convenient Fuse Box

The fuse box is conveniently located in a section of the storage compartment behind the operator's seat providing a clean environment and easy access.



PC monitoring

A PC monitoring function enables connection to the e-EPOS system. Thus, various parameters can be checked during maintenance, including pump pressures, engine rotation and engine speed. These can be stored and printed for analysis.





Larger anti-slip surface

High fraction coefficient guarantees user's safety while maintaining main parts in wet condition.



DX340 FS

Engine

Model Doosan DE12TIS

Type 4-Cycle ATA Intercooler in-Line

Number of cylinders

6

Rated Horse Power 195 kW (265 PS) @ 1,800 rpm (DIN 6271) 185 kW (261 HP) @ 1,800 rpm (SAE J1349)

Max torque 112 kgf.m @ 1,400 rpm

Piston displacement 11,051 cc

Bore & stroke Ø123 mm x 155 mm

Starting Motor 24 V x 6.0 kW

Batteries 12 V x 2/150 AH

Air cleaner Double element

Hydraulic System

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

Main pumps

Parallel, Bentaxis, Piston max flow : 2 x 265 ℓ /min Displacement : 140 cc/rev weight : 290 kg

Pilot pump

Gear pump - max flow : 22.5 l /min Pilot pump : 11.86 cc/rev Relief valve pressure : 40 kgf/cm²

Main relief Pressure

Boom/Arm/Bucket Working, Travel : 330 [+10~0] kg/cm² Pressure up : 350 [+10~0] kg/cm²

Hydraulic Cylinders

The piston rods and cylinder bodies are made of high-strength steel. A shock absorbing mechanism is fitted in all cylinders to ensure shock-free operation and extend piston life.

Cylinders	Quantity	Bore diameter x Rod diameter x Stroke
Boom	2	150 x 100 x 1,430 mm
Arm	1	170 x 120 x 1,760 mm
Bucket	2	140 x 95 x 1,185 mm

Undercarriage

Chassis are of very robust construction, all welded structures are designed to limit stresses.High-quality material used for durability. Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals. Tracks shoes made of induction-hardened alloy with triple grousers. Heat-treated connecting pins.Hydraulic track adjuster with shock-absorbing tension mechanism.

Upper rollers(Standard shoe)

2

Lower rollers

Track shoes

48

Overall track length

4**,**940 mm

Swing Mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single row, shear type ball bearing with inductionhardened internal gear. Internal gear and pinion gear immersed in lubricant.

Swing speed 0 to 8.9 rpm

Max. swing torque 11,660 kgf.m (EFF.=0.863)

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gear. Two levers or foot pedal control provide smooth travel or counter-rotation upon demand.

Travel speed (low/high) 3.1 / 4.7 km/h (EFF.=99.0 / 95.2%)

Maximum traction force 27.0 / 15.1 ton (EFF.=75.7 / 68.8%)

Maximum grade 70 %

Refill Capacities

Fuel tank 550 ℓ

Cooling system (Radiator capacity) 34 Q

Engine oil 39ℓ

Swing drive

Final drive 2 x 5.5 ℓ

Hydraulic tank 380ℓ

DX420 FS

Engine

Model

DOOSAN DE12TIS 4-Cycle Air-To-Air Intercooler In-line Water-Cooled, Direct Injection, Tier II

No. of cylinders

6

Rated horse power 218 kW (297 PS) @2,000 rpm (DIN 6271) 218 kW (293 HP) @2,000 rpm (SAE J1349)

Max. torque 127 kgf/m at 1,300 rpm

Idle (low - high) 975 [+/-50] - 2190 [+/-25] rpm

Piston displacement 11,051 cc

Bore & stroke Ø123 mm x 155 mm

Starter 24 V / 7.0 kW

Batteries 2 x 12 V / 150 Ah

Air filter

Double element and pre-filtered Turbo with auto dust evacuation.

Hydraulic System

The brain of the excavator is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the hydraulic system to be optimised for all working conditions and minimises fuel consumption. The e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link to harmonise the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations
- Two travel speeds offer either increased torque or high speed
- Cross-sensing pump system for fuel savings
- Auto deceleration system
- Three operating modes, three power modes
- Button control of flow in auxiliary hydraulic circuits
- Computer-aided pump flow control

Main pumps

Parallel, Bent-axis, Piston Max. flow : 2 x 315 ℓ /min Displacement : 162 cc/rev. Weight : 180 kg

Pilot pump

Gear pump Max. flow : 27.36 ℓ /min Displacement : 11.0 cc /rev. Relief valve pressure : 40 kgf/cm²

Maximum system pressure

Implement : 320 kgf/cm² Travel : 320 kgf/cm² Power Boost : 350 kgf/cm² Pilot : 40 kgf/cm²

Hydraulic Cylinders

Piston rods and cylinder bodies of high-strength steel. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore diameter x Rod diameter x Stroke
Boom	2	165 x 115 x 1,460 mm
Arm	1	190 x 130 x 1,820 mm
Bucket	2	160 x 110 x 1,320 mm

Undercarriage

Very robust construction of all chassis elements. All welded structures designed to limit stresses. High-quality, durable materials. Lateral chassis welded and rigidly attached to undercarriage. Track rollers lubricated for life. Idlers and sprockets fitted with floating seals. Track shoes made of induction-hardened alloy with triple grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism.

Upper rollers(Standard shoe)

2

Lower rollers 9

Track shoes

50

Overall track length 5,200 mm

Swing Mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single row, shear type ball bearing with inductionhardened internal gear. Internal gear and pinion gear immersed in lubricant.

Swing speed 0 to 9.1 rpm

Max. swing torque 13,510 kgf.m (EFF.=0.83)

Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers or foot pedals guarantee smooth travel with counter-rotation on demand.

Travel speed (low/high) 3.3 / 5.5 km/h

Maximum traction force 37.74 / 18.05 ton (EFF.=85 / 75%)

Maximum grade 35° (70%)

Refill Capacities

Fuel tank 550 ℓ

Cooling system (Radiator Capacity) 29.5 l

Engine oil 28ℓ

Swing drive 7.9 ℓ

Final drive $2 \times 6.3 \ell$

Hydraulic tank 390 ℓ

DX520 FS

Engine

Model

DOOSAN DE12TIS 4-Cycle Air-To-Air Intercooler In-line Water-Cooled, Direct Injection, Tier II

No. of cylinders

6

Rated horse power

238 kW (323 PS) at 2,000 rpm (DIN 6271) 238 kW (318 HP) at 2,000 rpm (SAE J1349)

Max. torque 139 kgf/m (1363 Nm) at 1300 rpm

Piston displacement 11,051 cc

Bore & stroke Ø123 mm x 155 mm

Starter 24 V / 6.6 kW

Batteries 2 x 12 V / 150 Ah

Air filter

Double element and pre-filtered Turbo with auto dust evacuation.

Hydraulic System

The brain of the excavator is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the hydraulic system to be optimised for all working conditions and minimises fuel consumption. The e-EPOS is connected to the engine's electronic control unit (ECU) via a data transfer link to harmonise the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations
- Two travel speeds offer either increased torque or high speed
- Cross-sensing pump system for fuel savings
- Auto deceleration system
- Three operating modes, three power modes
- Button control of flow in auxiliary hydraulic circuits
- Computer-aided pump flow control

Main pumps

Parallel, Bentaxis, Piston Max. flow: 2 x 360 ℓ /min Displacement: 186 cc/rev. Weight: 195 kg

Pilot pump

Gear pump Max. flow: 27.4ℓ/min Displacement: 11.0 cc/rev. Relief valve pressure: 40 kgf/cm²

Maximum system pressure

Implement (boom/arm/bucket): Work, travel: 320 kg/cm²[+10~0] Power: 350 kg/cm²[+10~0]

Hydraulic Cylinders

Piston rods and cylinder bodies of high-strength steel. Shock-absorbing mechanism fitted in all cylinders for shock-free

operation and extended piston life.

Cylinders Quantity		Bore diameter x Rod diameter x Stroke			
Boom	2	170 x 115 x 1,610 mm			
Arm	1	190 x 130 x 1,820 mm			
Bucket	2	160 x 110 x 1,320 mm			

Undercarriage

Very robust construction of all chassis elements. All welded structures designed to limit stresses. High-quality, durable materials. Lateral chassis welded and rigidly attached to undercarriage. Track rollers lubricated for life. Idlers and sprockets fitted with floating seals. Track shoes made of induction-hardened alloy with triple grouser. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing

Upper rollers(Standard shoe)

3

Lower rollers

11 Track shoes

53

Overall track length 5,465 mm

Swing Mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single row, shear type ball bearing with inductionhardened internal gear. Internal gear and pinion gear immersed in lubricant.

Swing speed

0 to 9.2 rpm

Max. swing torque 15,500 kgf.m (EFF.=0.77)

Drive

Each track is driven by an independent, high-torque axial piston motor through a planetary reduction gearbox. Two levers or foot pedals guarantee smooth travel with counter-rotation on demand.

Travel speed (low/high) 3.2 / 5.6 km/h

Maximum traction force 37.6 / 18.9 ton (EFF.=85 / 75%)

Maximum grade 35° (70%)

Refill Capacities

Fuel tank 620 ℓ

Oil tank 390 ℓ

Engine oil 28ℓ

Swing drive 2 x 5 ℓ

Final drive 2 x 10 ℓ

Hydraulic tank 390 ℓ

DX700 FS

Engine

Model ISUZU MOTORS AH-6WG1XYSC-01

Type Water-Cooled, Common Rail, Direct Injection

Number of cylinders

6

Rated Horse Power 345 kW (469 PS) @ 1,800 rpm (DIN 6271) 345 kW (463 HP) @ 1,800 rpm (SAE J1349)

Max torque 202 kgfm@ 1,500 rpm

Piston displacement 15,681 cc

Bore & stroke Ø147 mm x 154 mm

Starting Motor 24 V x 7.0 kW

Batteries 12 V x 2/150 AH

Air cleaner Double element with precleaner

Hydraulic System

The heart of the system is the e-EPOS (Electronic Power Optimizing System). It allows the efficiency of the system to be optimized for all working conditions and minimizes fuel consumption. The new e-EPOS is connected to the engine electronic control via a data transfer link to harmonize the operation of the engine and hydraulics.

- The hydraulic system enables independent or combined operations.
- Two travel speeds offer either increased torque or high speed tracking.
- Cross-sensing pump system for fuel savings.
- Auto deceleration system.
- Two operating modes, two power modes.
- Button control of flow in auxiliary equipment circuits.
- Computer-aided pump power control.

Main pumps

Parallel, Bentaxis, Piston Max. flow: 2 x 436 ℓ /min Displacement: 2 x 242 cc/rev. Weight: 300 kg

Pilot pump

Gear pump Max. flow: 27ℓ/min Displacement: 15 cc/rev. Relief valve pressure: 39.8 kgf/cm²

Maximum system pressure

Implement (boom/arm/bucket): Work, travel: 320 kg/cm²[+10~0] Power: 350 kg/cm²[+10~0]

Hydraulic Cylinders

Piston rods and cylinder bodies of high-strength steel. Shock-absorbing mechanism fitted in all cylinders for shock-free operation and extended piston life.

Cylinders	Quantity	Bore diameter x Rod diameter x Stroke			
Boom	2	190 x 125 x 1,795 mm			
Arm	1	230 x 160 x 1,550 mm			
Bucket	2	175 x 115 x 1,700 mm			

Undercarriage

Chassis are of very robust construction, all welded structures are designed to limit stresses. High-quality material used for durability. Lateral chassis welded and rigidly attached to the undercarriage. Track rollers lubricated for life, idlers and sprockets fitted with floating seals. Tracks shoes made of induction-hardened alloy with triple grousers. Heat-treated connecting pins. Hydraulic track adjuster with shock-absorbing tension mechanism

Upper rollers(Standard shoe)

3

Lower rollers

Track shoes 48

Track length 5,975 mm

Swing Mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single row, shear type ball bearing with inductionhardened internal gear. Internal gear and pinion gear immersed in lubricant.

Type Axial Piston

Swing speed 7.1 rpm (EFF.=0.98)

MAX. SWING TORQUE

22,070 kgf.m (EFF.=0.77)

Drive

Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gear. Two levers or foot pedal control provide smooth travel or counter-rotation upon demand.

Travel speed (low/high) 2.8/4.6 km/h (EFF.=97%)

Maximum traction force 48.9/42.4 ton (EFF.=76.4/65.4%)

Maximum grade 70 %

Refill Capacities

Fuel tank 900 ℓ (Diesel)

Cooling system (Radiator capacity) 69 l (Water)

Engine oil 52 ℓ

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Swing Device 2 x 6 ℓ

Travel Device 2 x 20 ℓ

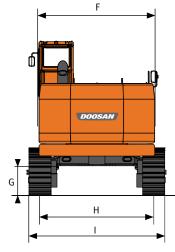
Lever

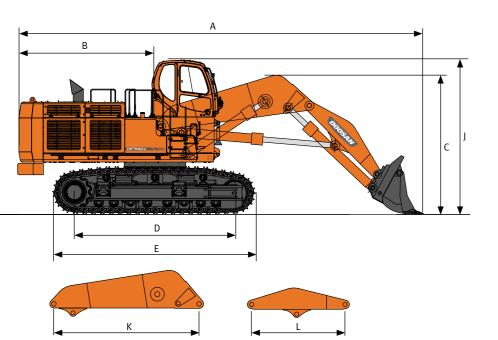
350ℓ **Oil Tank**

Lever 350 l System (Tank full) 790 l

DIMENSIONS

STANDARD AND OPTIONAL EQUIPMENT





Transport Dimension

D	Dimension	Unit	DX340 FS	DX420 FS	DX520 FS	DX700 FS
A S	Shipping Length	mm	11,540	11,950	12,045	13,480
B Ta	ail Swing Radius	mm	3,500	3,660	3,700	4,010
C S	Shipping Height	mm	3,670	3,950	4,210	4,700
D Tu	umbler Distance (Wheel Base)	mm	4,040	4,250	4,470	4,730
E Ti	rack Length	mm	4,940	5,200	5,465	5,975
F H	louse Width	mm	2,990	2,990	2,990	3,410
G G	Ground Clearance	mm	510	540	770	870
H Ti	rack Gauge (Tread Width)	mm	2,680	2,750	2,740 / 3,300*	2,910 / 3,350*
I S	Shipping Width	mm	3,280	3,350	3,340 / 3,900*	3,560 / 4,000*
J H	leight over Cabin	mm	3,125	3,154	5,150	4,580
K B	Boom Length	mm	3,850	4,200	4,300	4,500
L A	Arm Length	mm	2,750	2,800	2,800	3,600

Weight of Main Parts

Parts	Unit	DX340 FS	DX420 FS	DX520 FS	DX700 FS
Additional CWT	kg	-	1,000		3,000 / 4,000
Boom	kg	2,800	3,300	3,870	5,850
Arm	kg	2,390	2,400	2,500	4,710
Bucket	kg	2,850	3,900	4,250	6,000
Etc. (Cylinder & Piping)	kg	1,950	1,980	2,750	3,300
Total	kg	9,990	12,580	13,370	22,860 / 23,860

Arm Crowd Force & Bucket Breakout Force

	Unit	DX340 FS	DX420 FS	DX520 FS	DX700 FS
Arm Crowd Force	ton	19.2	22.1	25.3	27.4
Bucket Breakout Force	ton	29.4	31.7	36.9	40.7

Standard Equipment

Front and counterweight parts

- Shovel boom and arm
- Arm and bucket cylinders
- Hydraulic piping for arm, bucket and bottom dumping functions
- Additional counterweight for 70ton machine

Hydraulic system

- Boom and arm flow regeneration
- Boom and arm holding valves
- Swing anti-rebound valves
- One-touch power boost
- Piping for special attachment
 Bottom dump bucket open/close

Cabin & Interior

- Viscous cab mounts
- All weather sound suppressed type cab
- Air conditioner & Heater
- Adjustable suspension seat with head rest and adjustable arm rest
- Pull-up type front window and removable lower front window
- Room light
- Intermittent windshield wiper
- Cigarette lighter and ashtray
- Cup holder
- Hot & Cool box
- 7" LCD color monitor panel
- E/G RPM control dial
- AM/FM radio
- Remote radio ON/OFF switch
- 12V spare powers socket
- Serial communication port for laptop PC interface
- Joystick lever with 3 switches
- Sun visor
- Sun roof

Safety

- Large handrails and step
- Convex metal anti-slip plates
- Seat belt
- Hydraulic safety lock lever
- Safety glass
- Hammer for emergency escape
- Right and left rear view mirrors
- Travel alarm
- Battery protector cover
- Battery cut off switch
- Lock valve

Others

- Double element air cleaner
- Water separator
- Fuel filter
- Dust screen for radiator/oil cooler
- Engine overheat prevention system
- Engine restart prevention system
- Self-diagnostic system
- Alternator(24V, 50 amps)
- Electric horn
- Halogen working lights(frame mounted 1, boom mounted 2)
- Hydraulic track adjuster
- Track guards
- Greased and sealed track link
- Hydraulic oil tank air breather filter

Optional Equipment

Cabin & Interior

- Cabin riser with hydraulic tilting system for 70ton machine
- OPG(Operator protective guard) on cabin
- Air suspension seat
- MP3/CD player
- Cassette player
- Rain shield
- High mount seat
- Rear Camera

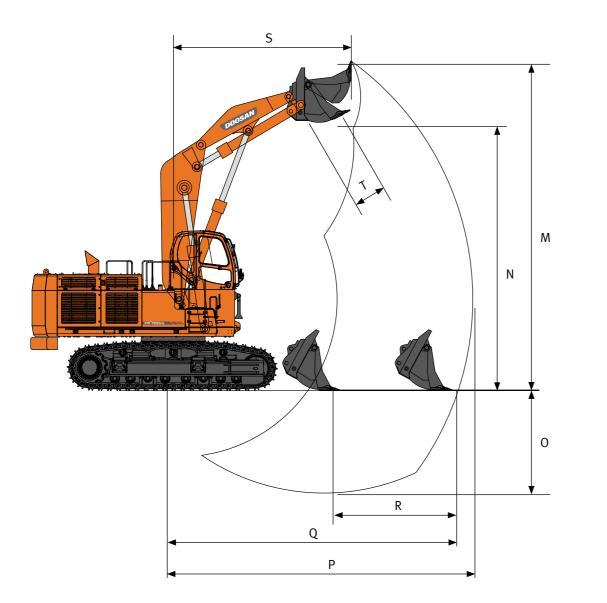
Safety

- ROPS cabin
- Overload warning device
- Cabin Top/Front guard(ISO 10262, FOGS standard)
- Travel & swing alarm
- Rotation beacon

Others

- 700 mm / 800 mm / 900 mm shoe
- Lower wiper
- Fuel heater
- 80A alternator
- Fuel filler pump
- Additional working lights
- 4-fornt / 2-rear on cabin - 2-front on cabin
- · 2-ITOTIL OTI CADITI
- 1 on counterweight
- Additional count weight
- Oil bath cleaner

WORKING RANGE



Transport Dimension

	Dimension	Unit	DX340 FS	DX420 FS	DX520 FS	DX700 FS
М	Max. Digging Height	mm	9,505	10,000	10,415	11,180
Ν	Max. Dumping Height	mm	7,240	6,870	7,285	8,140
0	Max. Digging Depth	mm	2,755	3,900	3,365	4,250
Ρ	Max. Digging Reach	mm	8,510	8,840	8,930	10,100
Q	Max. Digging Reach (Ground)	mm	8,045	8,280	8,345	9,170
R	Level Crowding Distance	mm	3,330	3,340	3,380	3,580
S	Reach at Max. Dumping Height	mm	3,060	3,840	3,720	4,530
Т	Max. Bucket Opening Width	mm	1,255	1,450	1,450	1,510



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