

DOOSAN

Plug & Play Options |
Doosan Smart Solutions



Doosan Group – Building your tomorrow today

▣ Be part of the great Doosan family

The Doosan Group - founded in 1896 and headquartered in Seoul, South Korea - is one of the fastest-growing companies in the world:

- With more than 37,500 employees in 38 countries, we are a major player in a variety of industries worldwide.
- A global leader in the Infrastructure Support Business (ISB), with 56 subsidiaries and 3,700 distributors worldwide.
- Dramatic growth over the past two decades, with an annual Doosan Group revenue rising from €2.4 billion in 1998 to €12.8 billion in 2016.

▣ Doosan Group – a top player worldwide



Doosan Infracore

- Among the world's Top 5 manufacturers of construction equipment



Doosan Bobcat

- A leading company in the design, manufacture, marketing, distribution and service of small equipment and attachments for construction, agriculture, and landscaping
- Leading position in the global compact equipment market
- N° 1 in North America for SSL, CTL and MEX



Doosan Heavy Industries & Construction

- World N° 1 in desalination plant construction
- World N° 1 in heat recovery steam generator market
- World N° 1 in mould & tool steel
- World N° 3 in crankshafts



Doosan Engineering & Construction

A pioneering leader in construction of residential and public buildings, civil works and industrial facilities.

- World N° 1 chemical process equipment products



▣ Doosan Infracore Construction Equipment

Creating construction equipment for over 40 years

For over 40 years, we've been building a global production and business network to become one of the world's foremost construction equipment manufacturers.

A solid partner, close to you

A truly global player in every respect, we have large-scale factories, sales subsidiaries and dealers all over the world.



Doosan facilities in Europe

▣ From machine manufacturer... to full solution provider

To ensure the highest trade-in and residual values, our parts and service support professionals maintain the performance, productivity and reliability that you expect of our products throughout their lifetime.

▣ Ask your dealer for a full range of services designed especially for you!

As your local specialist, your dealer ensures that you receive the maximum benefit from our integrated package. Plan ahead to ensure the success of your equipment!



Doosan approved attachments



Genuine parts



Extension of warranty



Financial solutions



Maintenance contract



Telematics



Monitoring systems



▣ Experience the Doosan product range!



Articulated Dump Trucks



Wheel Loaders



Wheeled Excavators



Mini Excavators



Crawler Excavators

Smart Solutions – the easiest for the digital construction world

DOOSAN CONNECT



► 'Plug & Play' with all brands in the market and provide a factory-fit ready system

- Providing a 'Plug & Play' solution for all types of machine guidance systems for customers to choose whatever they want
- More intelligent support from Doosan Connect to allow customers to save costs and improve productivity

Versatility – works everywhere

■ Our Plug & Play strategy allows our customers to work everywhere with all types of tools.

Powerful and stable, and compatible with almost all tools and brands, Doosan machines are the perfect carriers for all types of tools. Here are some examples of the broad range of compatible Doosan tools for excavators:

► Waste & recycling



Orange grapple

► Forestry



Log grapple



Wood grapple

► Road construction



Plate compactor

► Demolition



Ripper

► Quarry



Hydraulic breakers

► Multiple type of construction



Stone grapple



SVAB & Steelwrist options



SVAB control system with user-friendly interface and auto-calibration

The new factory-installed SVAB/Steelwrist options are now available as a factory fit on Doosan wheeled excavators through Doosan Smart Solutions.

SVAB options

SVAB control system

Increases productivity when using a tilt rotator. The ergonomic joysticks deliver soft, flexible and simultaneous operation of numerous functions. The joystick rollers control all the functions in the most precise way. The user-friendly interface with the Auto Calibration function ensures optimal steering feedback and minimal fuel consumption.

Wheel joystick steering

This function moves the excavator while you continue to perform a specific task with the digging arm. Makes the many small machine movements during the workday comfortable, easy and efficient. You turn the wheels with one roller on the joystick and control the speed with your foot.

Automatic digging brake

The automatic digging brake keeps your wheeled excavator completely still when digging. After gently braking the excavator wheels, the system locks the wheels and keeps them locked until you press the accelerator. (So, you no longer need to press the brake pedal to its locked position.) For safety reasons, the system can only be activated when the machine is set to low speed.

Gateway to MCS (Machine Control System)

When the machine is equipped with an MCS, the gateway option enables the Positioning System feature. The MCS display gets full feedback on the bucket position and allows full tilt rotator functionality in the MCS. This gives you maximum performance and reduced risk of broken pipes and cut wires.

Steelwrist options

Steelwrist quick coupler and tilt rotators

- S6o quick coupler with front pin lock
- Direct fit X18 with S6o coupler
- Direct fit X18 with S6o coupler with gripper
- Sandwich X18 S6o/S6o
- Sandwich X18 S6o/S6o with gripper
- Direct fit X2o with S6o coupler
- Direct fit X2o with S6o coupler with gripper
- Sandwich X2o S6o/S6o
- Sandwich X2o S6o/S6o with gripper

Benefits

- The same installation on all 4 models (DX140W-5, DX160W-5, DX165W-5, DX170W-5) simplifies field support
- Shortens the machine's lead-time to end-user
- Doosan factory fit ensures a consistently high-quality installation
- The correct joysticks are factory-fitted, reducing cost and waste for customers
- Increased availability for reduced customer support time



Service tool



Available options

Item Name	Part no.	Machine models
Steelwrist tiltrotator X18 S6o/S6o (2 hose tiltrotator)	230101-00390	DX140W-5, DX160W-5, DX165W-5
Steelwrist Tiltrotator X18 S6o/S6o with gripper unit (2 hoses tiltrotator)	230101-00390G	
Steelwrist tiltrotator X18 direct fit (2 hose tiltrotator)	230101-00390D	
Steelwrist Tiltrotator X18 DIRECT FIT/S6o with Gripper unit (2 hoses tiltrotator)	230101-00390DG	
Steelwrist Tiltrotator X2o S6o/S6o (2 hoses tiltrotator)	230101-00391	DX160W-5, DX165W-5, DX170W-5
Steelwrist tiltrotator X2o S6o/S6o with gripper unit (2 hoses tiltrotator)	230101-00391G	
Steelwrist Tiltrotator X2o DIRECT FIT/S6o (2 hose tiltrotator)	230101-00391D	
Steelwrist Tiltrotator X2o DIRECT FIT/S6o with Gripper unit (2 hoses tiltrotator)	230101-00391DG	
Steelwrist Tiltrotator X2o DIRECT FIT/S6o (2 hoses tiltrotator)	230101-00399	DX140W-5, DX160W-5, DX165W-5
Steelwrist Tiltrotator X2o DIRECT FIT/S6o with Gripper unit (2 hoses tiltrotator)	230101-00400	DX170W-5
Steelwrist S6o FPL Quick coupler (Front Pin Lock) 60-80 mm shafts	270201-00070	DX140W-5, DX160W-5, DX165W-5 (pickup dimensions differs from DX170W-5)
Steelwrist S6o FPL Quick coupler (Front Pin Lock) 60-80 mm shafts	270201-00071	DX170W-5

For more information, please contact your local Doosan approved dealer.



Trimble Ready Options



▣ Simplified installation of a Trimble® 2D or 3D grade control system

Trimble Ready® kits include the necessary brackets, harnessing and sensors to allow for an easy aftermarket completion of a 2D or 3D Trimble GCS900 Grade Control System or Trimble Earthworks Grade Control Platform by a local SITECH® dealer.

Trimble GCS900 Grade Control System

The most mature and proven grade control system on the market was introduced by Trimble more than 10 years ago and has been installed on thousands of excavators worldwide. Leverage the power and portability across your existing fleet of machines to get every ounce of productivity out of them.

Trimble Earthworks Grade Control Platform

Take advantage of the next generation grade control platform from Trimble with easy-to-learn software that runs on an Android operating system. State-of-the-art hardware and software provide operators of any skill level the ability to work faster and more productively than ever before.



▣ Benefits of Trimble Grade Control

- 47% less fuel used when compared to traditional methods



- 30% faster completion of common excavation tasks



- 32% fewer passes or cycles to get the job done



▣ Available options

Trimble Ready Kit	Machine Models	Monoboom Part Number	Artiboom Part Number
Doosan Trimble Ready for GCS900	14T-30T machines built in NL in EuCup excluding	79701-GCS	79701-GCS-ARTI
Doosan Trimble Ready for Earthworks	DX140LCR-5, DX165W-5, DX235LCR-5 and DX300LC-5	79701-EW	79701-EW-ARTI

For more information, please contact your local Doosan approved dealer.

Trimble Grade Control Offerings



Leica-ready options



Leica-ready 3D machine control system

The Leica-ready 3D machine control system not only boosts your productivity, it also offers unmatched flexibility. In brief, it will revolutionize the way you move dirt and fine-grade!

Leica Geosystems for excavator 3D solution

Boost your productivity

Digitize your construction site with Leica Geosystems software and hardware platform to build complex designs with simpler workflows and less downtime.

Ease-of-use

Simple, clean and intuitive user interface with interactive user design. The assistive technology with wizards and help functions helps you drive the excavator and get more work done with high quality and less rework.

Robust design

With their robust design, the Leica MCP80 panel and the Leica MDS series docking station are prepared for the harshest environments and are truly resilient for the heavy construction industry.

Ultimate accuracy

Leica Geosystems machine control solution guides the operator using reference models and GNSS in 3D. Design information and real-time cut/fill indications are displayed in the cab on your control panel, allowing you to rapidly excavate to the reference design.

Less downtime

The operator can use the Create Model function to make even complex models directly on the panel without leaving the cab and without the assistance of a surveying engineer.

Cost and Time Savings

The sync function allows the excavator operator to work on the latest up-to-date design data. The operator collects and shares as-built data and can receive remote support via ConX. Therefore, thanks to ConX, the project manager of the construction site can track the productivity for the work that has been performed and have a real-time snapshot of the construction site's latest status.

What is 3D Leica Ready?

3D Leica Ready is an option on the existing Doosan excavators portfolio from 14 ton up.

Value add for Leica

- Less failure on standardized process
- Easier to calibrate
- Save time
- No cables falling around

Value add for Doosan

- Professional factory installation
- Save time for the dealers to prepare machine for the customers
- Standardized production process
- Delivering constant quality

3D Leica Ready Benefit

- Consistent routing for the installation
- Right position of the sensor
- No need to look for the right location
- Tidy look on the in-cab machine – cables are placed under a plastic panel

3D Leica Ready – Components' kits: no product but installation!

- Cables
- Sensors
- Brackets
- Junction box

Available options

Kit	Item Name	Qty	Part no.	Machine models
Leica 3D Ready - Mono boom Doosan Whole Kit PN: 6014909	XJB-16 3D Junction box for Excavator systems	1	779080	Crawler and wheeled excavators in the range from 14 tons to 30 tons Mono boom only
	MSS400, Pitch-Roll Sensor	1	822981	
	MSS403, Stick Sensor W/O Laser Window	1	822983	
	CA23, Mag. Radio/Modem Ant. Mount + cap	2	827064	
	MSS405, Bucket Sensor	1	822985	
	MSS401, Boom 1 Sensor	1	822979	
	MMB1404, Bracket, MSS401/402/403/404, Ex	2	822990	
	MMB1428, L-Bracket, MSS405/406, EX	2	822991	
	MMB1430, L-Bracket Cover, MSS405/406, EX	1	833931	
	MSC1400 Cable XJB-16 to Cradle	1	845925	
	MSC708 Cable MIL2f/BATT Lug 15A F, 8m	1	848112	
	MSC1447 Cable M12 F to M12 F 3.5m	1	851346	
	MSC1449 Cable M12 F to M12 F 7.5m	2	851348	
	CX-3 mini CAN-X, 3xM12	1	772356	
	MSC1446 Cable M12 F to M12 F 2.0m	2	851344	
	MSC1474 Cable CAN M12 F/F, 5 m	1	855191	
	Cable mounting with magnet 31 mm	6	868020	
	Cable ties 4.8x200mm 100 pcs.	2	761702	
Kit	Item Name	Qty	Part no.	Machine models
Leica 3D Ready - Arti boom Doosan Whole Kit PN: 6014911	Doosan Whole Kit "Leica 3D Ready - Mono boom"	1	6014909	Crawler and wheeled excavators in the range from 14 tons to 30 tons Arti boom only
	MSS402 Boom 2 sensor	1	822980	
	MSC1447 Cable M12 F to M12 F 3.5m	1	851346	
	MMB1404, Bracket, MSS401/402/403/404, Ex	1	822990	

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Full 3D control of your excavator





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