

Waste Loader

# DL280-7

Maximum power:	190 hp
Operating weight:	19.7 t
Bucket capacity:	2.8 m <sup>3</sup>
Max. loader arm reach:	5 m



# DEVELON

# DEVELON

## Continuous Evolution for the Better.

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We trace our roots back to 1937 as one of Korea's first large-scale machine plants. Since then, we have consistently delivered earthmoving equipment to build critical infrastructure for the betterment of communities, societies, and the wider world.

**We are  
Develon.**

Develon is a bold name that reflects our core ambition to continue developing onwards and to make a positive mark on our world. Moving forward, we will continue providing innovative products and solutions that advance the world we live in today.





# New Develon Waste Loader: Built to Handle More

Maximize efficiency with the Develon Waste Loader and its impressive super high lift arm — designed for faster, easier loading of even the largest trucks.

Compact yet powerful, it delivers exceptional strength where space is limited, giving you performance without compromise. With advanced protective features built in, this loader meets the highest safety standards to keep both operators and operations secure. Add outstanding fuel economy, and you get a smart, sustainable choice that works as hard as you do.

## Power that Delivers

- Efficient power management matches the task at hand.
- Super high lift arm saves money on every cycle.
- Intelligent Clutch Cut-Off enables optimized lift arm speed and easier uphill starts.
- Smart assistance features improve performance, ensuring smoother and more efficient operations.

## Safety You Can Trust

- Designed for the challenges of waste and recycling facilities.
- Advanced air filtration system protects operator safety and comfort, while fire suppression system minimizes risks.

## Reliability by Design

- Heavy-duty guards are built to withstand the toughest jobsites.
- Solid rubber tires provide durability and puncture resistance.

## Comfort that Lasts

- Spacious cab provides superior comfort and removes distractions.
- Adjustable steering column reduces fatigue during long shifts, while electronic joystick shortens cycle times and ensures smooth operation.
- Develon Smart Touch brings all functions together on a single display.

## Maintenance Made Easy

- My Develon makes fleet management and remote diagnostics easy.
- Design ensures easy access to components.





The Develon DL280-7 waste loader delivers serious power with smart control. Its 5-meter reach, fuel-efficient DL06V engine, power modes, and advanced smart assistance system combine to boost stability, cut cycle times, and keep productivity high in even the toughest waste conditions.

#### **Reach Further. Load Faster.**

With an impressive 5-meter arm, the Develon DL280-7 waste loader makes quick work of even the largest trucks. A unique light arm design ensures fast operation and smoother workflows, saving time on every cycle.

#### **Optimized Power**

Choose from Power, Normal, or Economy modes to match your loader's performance to the task at hand, ensuring the right balance of power and fuel efficiency for any job.

#### **Save Fuel, Save Money**

Develon's auto idle and auto shutdown systems automatically reduce engine speed or shut down when the loader is not in use. This feature helps conserve fuel, reduce emissions, and prevent overheating—keeping your machine safe, efficient, and ready for action whenever you need it.

#### **I.C.C.O. (Intelligent Clutch Cut-Off)**

Need more engine power for lift arm speed? In lower gears, simply depress the left brake pedal to disengage the transmission. Start moving forward again on an incline by disengaging the transmission cutout using the switch panel.

#### **Smart Assistance**

Smart assistance includes features like automatic transmission shifting, kick-down, Load Isolation System (LIS), lift arm kick-out, return to dig position, reversing fan, and bucket leveling for smoother operations.



# The Power to Perform





# Safe, Secure, and Ready for Anything

Engineered with safety at its core, the incredibly robust DL280-7 waste loader doesn't just meet tough regulations. It goes further, surrounding operators with advanced protective systems and smart design details that keep you secure, confident, and in control no matter how demanding the environment.

#### **Safety in Every Corner**

The Develon DL280-7 safety features are specifically designed for the challenges of waste and recycling facilities. Building on proven Develon wheel loader solutions, this machine takes things to the next level with an additional set of safety features to protect the operator and your investment.

#### **Built for Challenging Conditions**

Our waste loader also offers an optional advanced air filtration system to protect the operator's safety and comfort, a fire suppression system to minimize risks, and premium Hi-Viz elements to ensure the machine is always visible.

#### **A Clear Advantage**

Designed for comfort and safety, the cab offers a larger windshield for better visibility and oversized mirrors for a wider view. The windshield guard is designed for uncompromising protection without significant impact on visibility. Add up to 12 LED working lights and electric-adjustable mirrors, and you're ready to take on any job, day or night.



For waste management and recycling, you need a machine that stands up to it all. Our loaders' robust construction adds heavy-duty guards, optional exoskeleton, and solid rubber tires, ensuring durability and puncture-proof reliability.

#### **Robust and Reliable**

We put every detail under the microscope, using Finite Element Analysis to maximize the lifespan of crucial components like the chassis, joints, and lift arm. Our innovative design approach and data analysis ensure you get the best possible performance and durability.

#### **Extra Features for Maximum Protection**

The DL280-7 waste loader features comprehensive protection of all sensitive parts. Additional covers and brushes help shield internal components from dust, while the fuel tank guard, radiator guard, and optional exoskeleton provide extra protection against potential impacts in tight workspaces. Lift arm greasing lines are safely routed inside, taking advantage of the arm's hollow design.



# Tougher Than the Job





# Take a Seat in Business Class

Long shifts in tough environments demand more than power—they demand comfort. The Develon DL280-7 waste loader is designed around the operator, with a spacious, quiet cab, intuitive controls, and premium seating that reduce fatigue and help maintain focus. Every detail works together to deliver a smoother, more comfortable experience, so operators can perform at their best all day, every day.

## **Spacious cab**

The revamped cab is designed for ultimate comfort and focus, offering more space, quieter operation, and a better driving experience. With extra legroom, thoughtfully positioned pedals, and convenient storage, you'll feel right at home. Plus, the upgraded air conditioning keeps you cool and comfortable, allowing you to focus on the task at hand.

## **Adjustable Steering Column**

Customize your driving experience with adjustable tilt and telescopic steering, reducing fatigue for long hours on the job.

## **Develon Smart Touch**

Develon Smart Touch is an intuitive 8" touchscreen that integrates all machine functions, including settings, camera, A/C, and multimedia, with a help function for easy navigation—no manual needed.

## **Electronic Joystick**

The electronic joystick, built into the right armrest, reduces cycle times with adjustable sensitivity, shock prevention, and auto-leveling for smooth, precise control and comfort.

## **Return to Dig**

The Return to Dig feature lets you adjust the setting from inside the cab, ensuring the lift arm and bucket return to the same position every time. This improves consistency and efficiency on the job.

## **Lift Kickout**

Lift Kickout lets you set a maximum lift height for confined spaces, such as indoors, and easily override it by pulling back on the joystick when needed.

## **Premium Chair**

Enjoy even greater comfort in a high-quality seat with vertical and horizontal low-frequency suspension, pneumatic lumbar support, heating, and a 3-point safety belt.





# Simple Maintenance With Maximum Uptime

Every minute counts on the job site, which is why the Develon DL280-7 is designed for easy maintenance and maximum uptime. From smart cooling systems and durable air filtration to safe access points and dependable service support, every detail helps keep your machine running longer, with less downtime and lower operating costs.

## Cooling Package

With wide-pitch fin radiators and a reversible fan, your machine stays cool with less downtime and easy maintenance. Plus, you can set fan intervals directly from Develon Smart Touch for better fuel efficiency and faster warm-ups.

## Air Intake

The maintenance-free cyclone pre-filter removes 99% of particles 20 microns and larger, extending the filter life, improving combustion, and boosting engine longevity.

## We're Here to Support You

Maximize productivity and uptime with genuine Develon parts, Develon Premium Warranty, and a maintenance contract for routine service at regular intervals.

## Easy Access

Designed for accessibility and mobility, the machine features multiple platforms and handrails, ensuring operators always have secure 3-point contact for added safety.



My Develon > Management on the Jobsite  
> Work Efficiency Management > Proactive  
Service > Preventive Maintenance & Prolonged  
Uptime



# Monitor Your Equipment From Anywhere

To compete and succeed, your equipment must maximize jobsite productivity and profitability. Develon machines do both. To ensure a high return on investment, we include more premium features as standard on every model—features that other manufacturers often offer only as costly upgrades. By making them standard, Develon gives you a competitive edge, helping operators work more efficiently and enhancing safety during long days in the field.

- > **Telematics Terminal**  
A terminal device is installed and connected to a machine to capture machine data.
- > **Telecommunication**  
Develon offers dual-mode communication (mobile and satellite) for maximum coverage.
- > **My Develon**  
Stay informed with My Develon — the digital platform that consolidates all equipment information and digital services in one place for quick and easy access.

Operation Hours	Total operating hours and hours by mode
Fuel Efficiency*	Fuel levels and consumption
Reports & Location	Operation report and utilization, GPS, and geofencing
Warnings & Alerts	Detect machine warnings, antenna disconnections, and geo/time fence breaches
Filter & Oil Management	Preventive maintenance through scheduled part replacements

\*Functions may not be applied to all models. Please contact your sales representative for more information on this feature.





# Attachments

Using the right bucket for a waste loader is critical to achieving maximum efficiency and performance. The right match ensures faster loading, reduced material loss, and smoother operation.

## General-Purpose Bucket

With a sloped bottom for maximum filling and an improved dump angle, this bucket is your go-to for everyday material handling.





# DEVELON

## Technical Specifications

### DL280-7

#### Engine

Designed to deliver superior performance and fuel efficiency, the Develon DL06V diesel engine complies fully with the latest Stage V emission regulations. To optimize machine performance, the engine uses high-pressure fuel injectors, an air-to-air intercooler and electronic engine controls. 4-Cycle Water-Cooled, Wastegate Turbocharged, Diesel Oxidation Catalyst (DOC), Selective Catalytic Reduction (SCR) and Diesel Particulate Filter (DPF).

Make	Develon
Model	DL06
Number of cylinders	6
Max. power (SAE J1995)	190 hp (141.0 kW) at 2 000 rpm
Max. torque (SAE J1995)	902 N.m at 1 400 rpm
Displacement	5.9 l
Bore and stroke	100 x 125 mm
Starter	24 V, 8.6 hp (6.0 kW)
Battery	2 x 12 V
Alternator	24 V, 80 A
Air filter	Centrifugal Top Spin™ Donaldson® pre-cleaner with a 2-stage dry filter

#### Axles

The front and rear axles, manufactured by ZF with outboard planetary reduction gears, deliver reliable strength and durability. With 13.9 traction power, the loader can confidently operate on slopes of up to 30°.

LSD lock ratio	30% (front & rear)
HDL lock ratio	100% (front)
Oscillation angle	+/- 12°
Tire size — standard	20.5R25



#### Transmission

Develon offer you two options 4 gears or 5-gear powershift transmission with torque convertor. 3 operating modes: manual, fully automatic, or semi-automatic with 'kick-down' function. Based on high-quality components. Equipped with a modulation system for protection and smooth gear and direction changes. A manual transmission control lever is located to the left of the steering wheel. Direction change function also available in automatic or semi-automatic mode. Transmission can be disengaged by the brake pedal to deliver full engine power to the hydraulic system. A safety device prevents the engine from starting if the transmission is not in neutral. 5 gear transmission is equipped with Torque converter lock-up function from 2<sup>nd</sup> to 5<sup>th</sup> gear.

Travel speed – forward (4-speed)	3.9 / 7.7 / 14.4 / 22.1 mph (6.3 / 12.4 / 23.1 / 35.6 km/h)
Travel speed – forward (5-speed)	4.1 / 7.3 / 11.1 / 17.8 / 24.9 mph (6.6 / 11.7 / 17.9 / 28.7 / 40 km/h)
Travel speed – reverse	4.3 / 7.6 / 18.1 mph (7.0 / 12.3 / 29.2 km/h)
Max. grade	58% (30°)

#### Hydraulic System

The hydraulics are built for durability and smooth performance, with high-strength steel piston rods and cylinder bodies. Shock-absorbing mechanisms in every cylinder reduce stress, ensuring shock-free operation and longer piston life.

Type	Load sensing — closed center hydraulic system
Main pump	Dual variable displacement axial pistons pumps
Maximum flow	246 l/min
Maximum pressure	260 bar
EMCV	Automatic functions for positioning the bucket ready to dig and a function for stopping the lift arm at the desired height.
Filtration	In the oil return to the tank, the fiberglass filter has a filtering capability of 10 micron.

#### Lift Arm

The hollow-design super high lift arm delivers the reach, strength, and stability required in waste and recycling. With Z-kinematics, optimized bucket angles, and standard Load Isolation System, this machine ensures heavy-duty performance, comfort, and durability.

#### Hydraulic Cylinders

Built from high-strength steel, the piston rods and cylinders are engineered for durability you can rely on. With integrated shock-absorbing mechanisms, the hydraulic system delivers smoother, shock-free operation while protecting components and extending service life.

Steering (2) bore x rod diameter x stroke	2.8" x 1.8" x 18.3" (70 mm x 45 mm x 466 mm)
Lift arm (2) bore x rod diameter x stroke	5.3" x 3.1" x 31.1" (135 mm x 80 mm x 790 mm)
Bucket (1) bore x rod diameter x stroke	6.3" x 3.7" x 20.1" (160 mm x 95 mm x 510 mm)

#### Brakes

Dual multi-disc circuit with sintered metal discs for extended service life. Braking system activated by a pump and accumulator circuits. Spring-applied, hydraulically released parking brake is mounted on the transmission shaft and accumulator circuits and is electronically activated. Brake type: spring-applied / hydraulically released. Brake pump with variable displacement axial pistons provide 58 l/min. Operator can activate/deactivate the Intelligent Clutch Cut Off on the brake pedal from a switch and can adjust the sensor proximity with the same switch. The emergency brakes are composed of a double system continually under pressure by accumulators.

#### Cab

The cab combines ROPS/FOPS safety with comfort and visibility, giving operators peace of mind in demanding waste environments. Wide windows and clean air systems improve focus and reduce fatigue, while the heated air-suspension seat, adjustable steering column, and ergonomic controls keep operators comfortable and productive through long shifts.

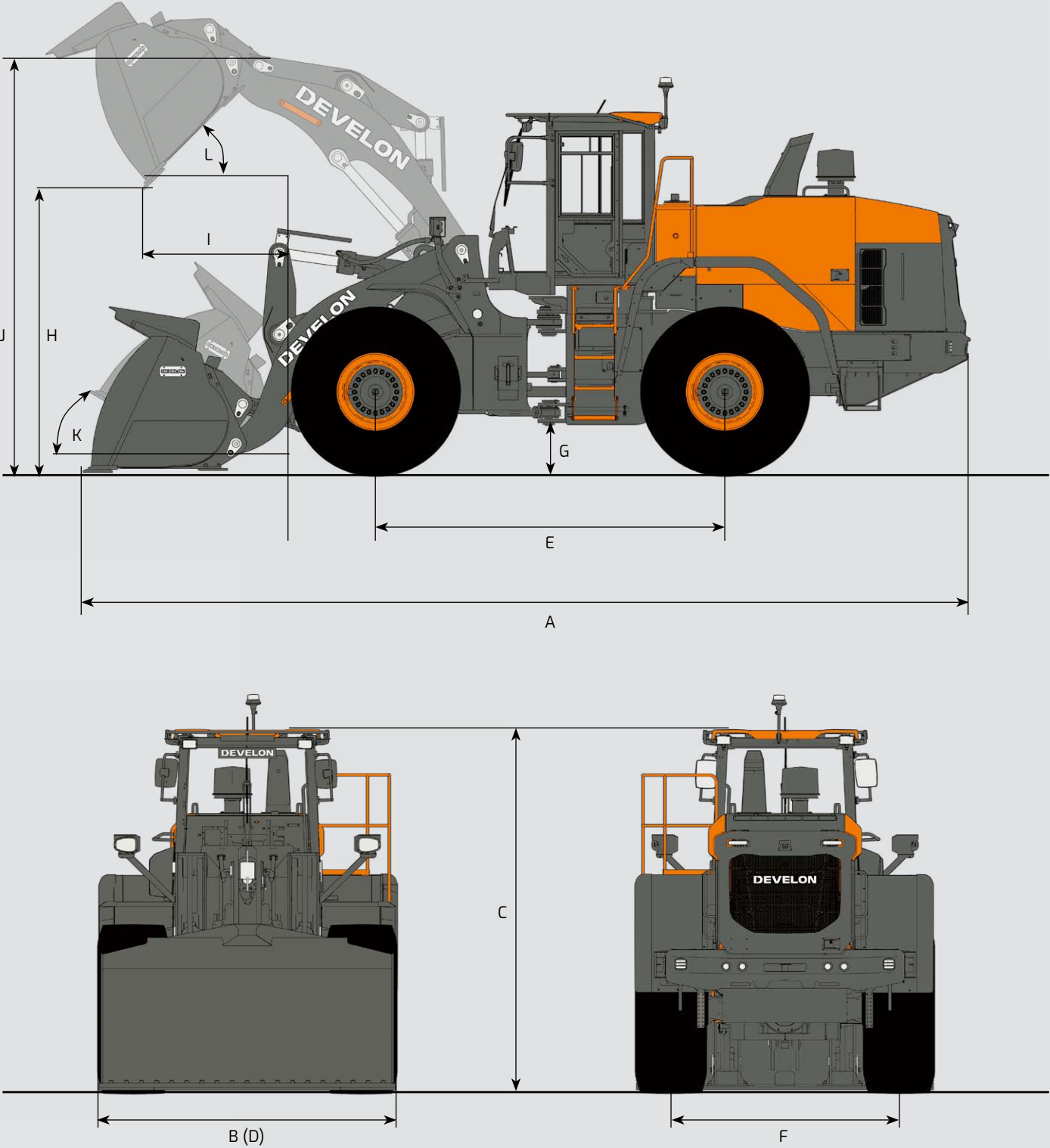
Sound level (ISO 6395)	104 dB(A)
Cabin sound level (ISO 6396)	72 dB(A)

#### Fluid Capacities

Fuel tank	62.1 gal. (235.0 l)
DEF tank	7.9 gal. (30.0 l)
Cooling system (radiator capacity)	9.0 gal. (34.0 l)
Engine oil	6.5 gal. (24.5 l)
Transmission	9.8 gal. (37.0 l)
Front axle	9.2 gal. (35.0 l)
Rear axle	9.2 gal. (35.0 l)
Hydraulic system	31.7 gal. (120.0 l)



# Performance Data & Dimensions



## Classification

		Unit	High tip bucket 2,7m <sup>3</sup>
	Ground engaging tools		2.7 m <sup>3</sup> BOCE
	Attachment coupling		Quickcoupler
	Capacity heaped (ISO/SAE)	m <sup>3</sup>	2.7 m <sup>3</sup>
B	Bucket weight	kg	2 264
	Bucket width	mm	2 740
	Static tipping load (straight)	kg	5 915
	Static tipping load (full turn - 40°)	kg	7 180
H	Dump height at 45° fully raised	mm	4 086
I	Dump reach at 45° fully raised	mm	1 356
	Digging depth	mm	300
J	Height at bucket pivot point	mm	4 994
	Max. tilt angle fully raised	°	80
K	Max. tilt angle on ground	°	57.1
	Max. tilt angle at max. reach	°	81
	Max. dump angle at max. reach	°	37
	Max. dump angle on ground	°	80
L	Max. dump angle fully raised	°	26.7
O	External radius (tire side)	mm	5 510
	External radius (bucket edge)	mm	7 317
E	Wheel base	mm	3 050
D	Width at tires edge	mm	2 640
	Overall width (with exoskeleton)	mm	2 040
F	Tread	mm	2 400
G	Ground clearance	mm	400
	Ground clearance (at 12° osc.)	mm	389
A	Overall length	mm	9 555
C	Overall height	mm	3 360
	Tire size		20.5R25
	Operating weight	t	19.7

Bucket cylinder stroke at max height dump: Bucket can tilt an additional 95° downward at any point using the bucket dump pivot.



# Standard & Optional equipment

## Engine

Exhaust aftertreatment (DOC + DPF + SCR + EGR)	■
Auto idle function	■
Auto shutdown function	■
Air pre-cleaner (centrifugal)	■
Engine management	■
Fan—reversible, variable speed, with automatic function	■
Wide fin radiators	■

## Powertrain

4-gear powershift transmission with torque convertor	■
Transmission mode management	■
I.C.C.O. (Intelligent Clutch Cut-Off)	■
High category axle—Hydraulic Differential Lock (HDL)	■
5-gear powershift transmission with torque convertor with lock-up	●

## Hydraulics

Load sensing hydraulic system, variable displacement pump	■
EMCV (Electric main control valve)	■
3rd spool valve	■

## Lift Arm

Super high lift arm, Z-bar kinematic	■
Hydraulic lift arm suspension—Load Isolation System (LIS)	■
Smooth end position bucket & arm	■
Position memories	■
Automatic bucket position 'return to dig'	■
Parallel lift (electro-hydraulic compensation)	■
Greasing lines routed inside the arm	■

## Cab & Operator Comfort

ROPS (ISO 3471:2008)/FOPS (ISO 3449) pressurized cab	■
Grammer seat with vertical and horizontal low-frequency suspension, pneumatic lumbar support, heating, 3-point safety belt	■
Joystick lever with FNR and thumbwheel roller integrated to the seat's right armrest	■
Develon Smart Key	■
Door remote opening	■
Develon Smart Touch—8" touch screen, all-in-one	■
Develon Smart Guidance System	■
Rear-view mirrors—heated	■
My Develon (telematic system)	■
12V socket	■
USB socket	■
Fingertip control	●
Rear-view mirrors—heated, electric adjustment	●
Grammer seat with vertical and horizontal low-frequency suspension, pneumatic lumbar support, heating and ventilation, 3-point safety belt	●
Electric steering joystick on left armrest	●

## Safety

Safety belt alarm	■
Rear-view camera	■
Hand rails and maintenance platforms	■
Strobe reversing light	■
LED working lights on cab (4× front + 4× rear)	■
LED working lights on cab (6× front + 6× rear)	●

## Waste & Recycling Protection

Full windshield guard—grid type	■
Road light protection (lamp guard—front&rear)	■
Arm cylinder cover	■
Front frame cover	■
Belly protection (front, rear, T/M)	■
Air intake mesh	■
Radiator guard	■

Fuel tank guard	■
Axle breathers moved upwards	■
Rim cover	●
Articulation guard	●
Exoskeleton	●

## Other

20.5R25 (L5) solid tires	■
Additional counterweight	■
Develon Smart Load	●
Automatic lubrication system	●
Cab air filtration system	●
Green beacon	●
Contrasting hand rails and steps	●
HiViz chevrons	●
Fire suppression systems	●
360° camera with object detection	●



Standard = ■  
Optional = ●



# Develon Warranty

## Your Key to Equipment Protection and Peace of Mind

Keep your heavy construction equipment protected with Develon. Our comprehensive warranties and premium protection plans give you peace of mind, ensuring your investment stays safe and valuable for the road ahead.

### **Tailored Warranty Plans**

Choose from a range of affordable protection plans, designed exclusively for Develon customers through our authorized dealers. These plans transform your machine's price into a strategic investment, not just an expense.

### **Develon Premium Protection**

Opt for Develon Premium to experience unmatched security, reliability, and overall value. This top-tier plan shields your equipment from unexpected costs and minimizes downtime, letting you focus on what matters—getting the job done.

### **Act Now!**

Get in touch with a Develon authorized dealer today to protect your equipment investment. With an easy process and lasting benefits, Develon helps keep your heavy construction equipment in top condition.

**Choose Develon Premium Warranty:  
Play it Safe and Secure Your  
Investment.**

\*Only for ADT, HEX and WLO.  
Offer may vary based on model.



Powered by **Innovation**

**DEVELON**

Space for dealer's stamp

HD Hyundai Infracore Europe s.r.o.  
IBC – Pobrezni 620/3,  
18600 Praha 8 – Karlin, Czechia

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D-4601035 (08/2025)

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