

DEVELON

Material Handler

DX225MH-5



Engine

Make	DEVELON
Model	DL06K
Number of cylinders	6
Rated power, gross (hp per SAE J1995)	166 hp (123.7 kW) @ 1800 rpm
Rated power, net (hp per SAE J1349)	162 hp (120.8 kW) @ 1800 rpm
Max. torque, net (SAE J1995)	557 lbf. ft. (750 kgf. m) @ 1400 rpm
Displacement	359 in. ³ (5.9 L)
Bore and stroke	3.9 in. x 4.9 in. (100 mm x 125 mm)
Starter	24 V, 8.0 hp (6.0 kW)
Battery	2 x 12 V, 150 AH
Alternator	24 V, 80 amp
Air cleaner	Double elements

Hydraulics

Main pumps	2 x 54.55 gpm (2 x 207 L/min.)
Pilot pump (gear design)	71 gpm (27 L/min.)

Maximum System Pressure

Boom/arm/bucket (normal)	4694 psi (330 kg/cm ²)
Boom/arm/bucket (power boost)	4978 psi (350 kg/cm ²)
Travel (normal)	4694 psi (330 kg/cm ²)
Swing (normal)	4694 psi (330 kg/cm ²)

Undercarriage

Upper rollers (each track)	2
Lower rollers (each track)	8
Number of shoes (links per side)	49
Total length of track	14' 7" (4445 mm)

Swing Mechanism

Swing speed	0 – 10.9 rpm
Swing torque	60757 lbf. ft. (8400 kgf. m)

Environment

Sound level (2000/14/EC)	102 dB(A)
Cabin sound level (ISO 6396)	70 dB(A)

Drive System

Travel speed (low – high)	1.8 – 3.4 mph (3.0 – 5.5 km/h)
Traction force (drawbar pull)	60715 lbf. (27540 kgf)
Max. grade (limited by engine lubrication)	70% (35°)

Refill Capacities

Fuel tank	105.67 gal. (400 L)
DEF tank	9 gal. (35 L)
Cooling system	5.9 gal. (22.3 L)
Engine oil	7.1 gal. (27 L)
Swing reduction unit	1.3 gal. (5 L)
Final drive (each side)	0.9 gal. (3.3 L)
Front axle	–
Front hub (2x)	–
Rear axle	–
Rear hub (2x)	–
Transmission	–
Hydraulic system	63.4 gal. (240 L)
Hydraulic tank	37 gal. (140 L)

Hydraulic Cylinders

Boom (2) bore x rod diameter x stroke	4.9 in. x 3.3 in. x 49.6 in. (125 mm x 85 mm x 1260 mm)
Arm (1) bore x rod diameter x stroke	5.5 in. x 3.9 in. x 67.1 in. (140 mm x 100 mm x 1705 mm)
Steering (1) bore x rod diameter x stroke	–
Leveling (1) bore x rod diameter x stroke	–
Dozer (2) bore x rod diameter x stroke	–
Outrigger, rear (2) bore x rod diameter x stroke	–
Cabin tilting (1) bore x rod diameter x stroke	4.5 in. x 2.0 in. x 33.7 in. (115 mm x 50 mm x 855 mm)
Cabin elevating (2) bore x rod diameter x stroke	–

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 extended piston life.

Note: Where applicable, dimensions are in accordance with Society of Automotive Engineers (SAE) and ISO standards. Specifications and design are subject to change without notice. All dimensions are given for DEVELON material handlers equipped with standard tracks and the standard front as listed. Pictures of DEVELON material handlers may show other than standard equipment. All dimensions are shown in imperial. Respective metric dimensions are enclosed by parentheses. DEVELON equipment is manufactured with a Quality Management System that is in compliance with ISO 9001:2008.

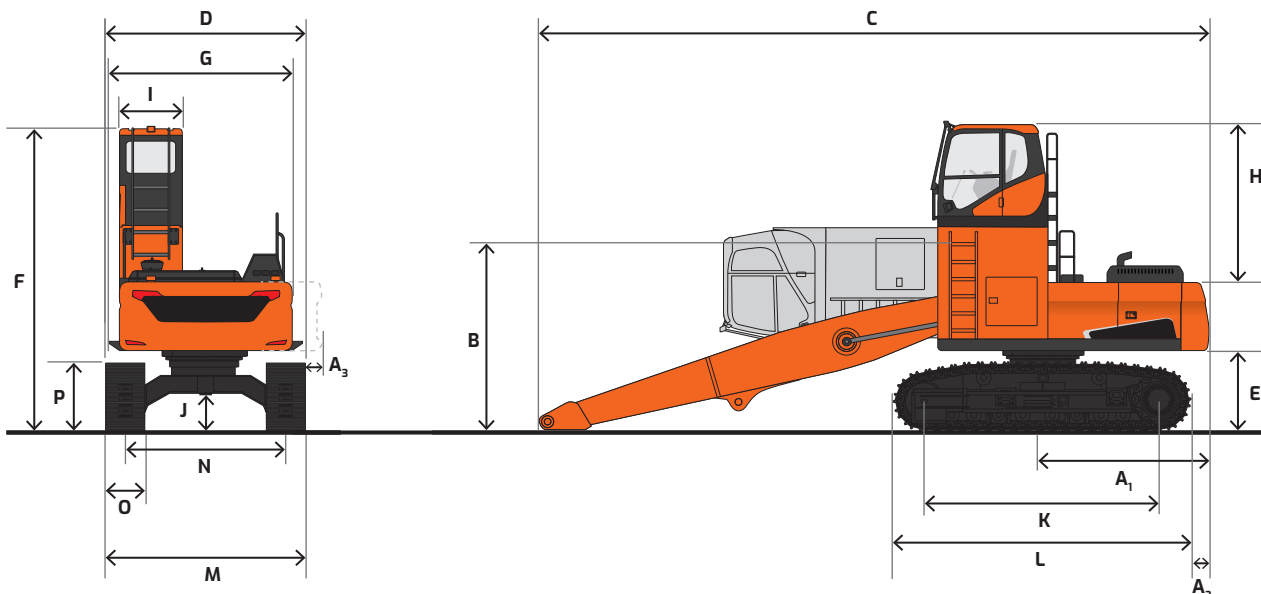
Dimensions

DX225MH-5 (US90)

Boom length		21' 4" (6500 mm)
Arm length		14' 9" (4500 mm)
Cab type		Fixed Cab Riser 3' 11" (1200 mm)
Tail swing radius	A ₁	9' 2" (2790 mm)
Tail swing overhang (rear)	A ₂	1' 10" (568 mm)
Tail swing overhang (side), outrigger width - ground	A ₃	3' 11" (1195 mm)
Tail swing overhang (front)*		1' 10" (568 mm)
Shipping height**	B	11' 7" (3531 mm)
Shipping length	C	31' 1" (9480 mm)
Shipping width	D	10' 6" (3190 mm)
Counterweight clearance	E	3' 4" (1010 mm)
Cabin height	F	13' 9" (4200 mm)
Cab riser*		3' 11" (1200 mm)
Upper structure width	G	8' 11" (2710 mm)
Cabin height above house	H	6' 8" (2040 mm)
Cabin width	I	3' 4" (1010 mm)
Car body clearance	J	1' 7" (480 mm)
Tumbler distance	K	12' 0" (3650 mm)
Overall track length	L	14' 7" (4445 mm)
Undercarriage width	M	10' 6" (3190 mm)
Track gauge	N	6' 6" (1990 mm)
Track shoe width	O	32" (800 mm)
Track height	P	3' 1" (947 mm)

*Not shown on diagram

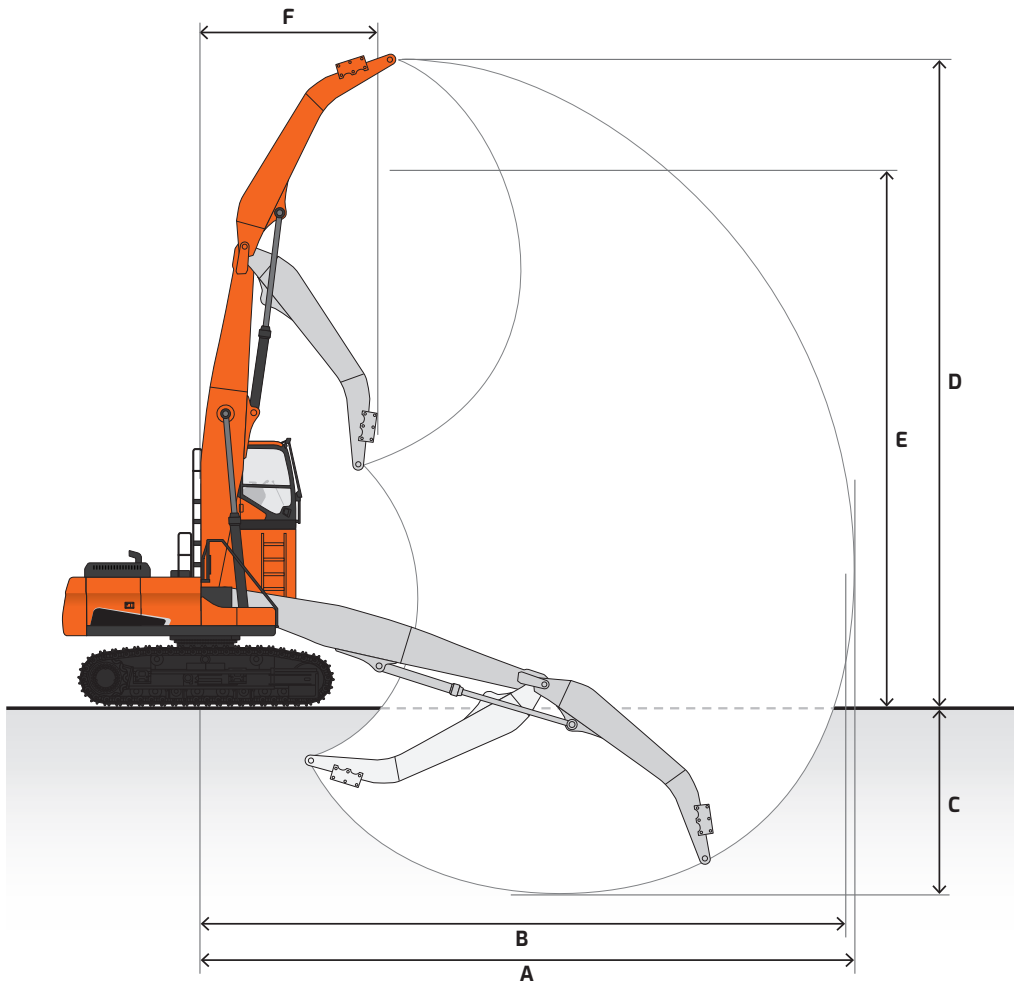
**With fixed cabin in transport position or elevating cabin lowered



Working Range

DX225MH-5 (US90)

Boom length	21' 4" (6500 mm)	
Arm length	14' 9" (4500 mm)	
Cab type	Fixed Cab Riser 3' 11" (1200 mm)	
Max. working reach	A	35' 5" (10800 mm)
Max. working reach (ground)	B	35' 0" (10670 mm)
Max. working depth	C	16' 9" (5100 mm)
Max. working height	D	40' 0" (12200 mm)
Max. loading height	E	31' 6" (9600 mm)
Min. swing radius	F	9' 11" (3020 mm)
Counterweight	12787 lb. (5800 kg)	
Operating weight	60848 lb. (27600 kg)	

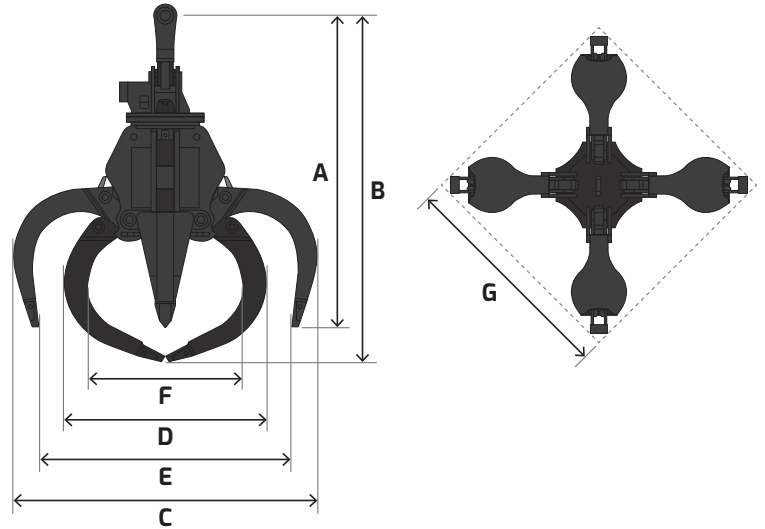


Grapple

DXG4063

Capacity		0.63 yd ³ (0.5 m ³)	
Weight		3064 lb. (1390 kg)	
Height	open	A	7' 8" (2326 mm)
	closed	B	8' 6" (2600 mm)
Width	open	C	7' 2" (2183 mm)
	closed	D	4' 8" (1420 mm)
Clearance	open	E	6' 0" (1838 mm)
	closed	F	3' 6" (1079 mm)
Width (square)	G	5' 5" (1643 mm)	
Underslung mount*		2.6" (65 mm)	
Rotation		12 rpm @ 4.3 gpm (16 L/min.)	

*Not shown on diagram



Magnet

40" Magnet*

48" Magnet

	40" Magnet*	48" Magnet
Diameter	40" (1016 mm)	48" (1219 mm)
Lift capacity (HM1)	1250 lb. (567 kg)	1925 lb. (866 kg)
Lift capacity (HM2)	775 lb. (352 kg)	1275 lb. (574 kg)
Lift capacity (turnings)	400 lb. (181 kg)	525 lb. (236 kg)
Duty cycle	75%	
Amps (cold)	32 A	44 A
Voltage, DC	230 V	
Sling type	Chain	















*For underslinging

Lifting Capacity

 Rating over front  Rating over side or 360°

DX225MH-5 US90

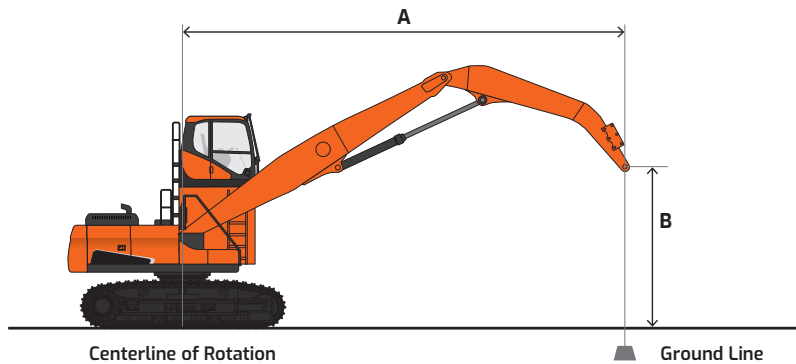
Boom: 21' 4" (6500 mm) | Arm: 14' 9" (4500 mm) | Counterweight: 12787 lb. (5800 kg) | 32" (800 mm) Track Shoes | Bucket: None | Unit: lb. (kg)

A (ft. or m) B (ft. or m)	10' (3.0 m)		15' (4.5 m)		20' (6.0 m)		25' (7.5 m)		30' (9.0 m)		35' (10.5 m)		Max. Reach			
															A	
40' (12.0 m)													* 18730 (* 8670)	* 18730 (* 8670)	11' 9" (3.58 m)	
35' (10.5 m)					* 12740 (* 5710)	* 12740 (* 5710)							* 12680 (* 5600)	* 12680 (* 5600)	20' 5" (6.46 m)	
30' (9.0 m)					* 11650 (* 5290)	* 11650 (* 5290)	* 10820 (* 4900)	10330 (4820)					* 10710 (* 4800)	9540 (4220)	26' 2" (8.11 m)	
25' (7.5 m)					* 11520 (* 5270)	* 11520 (* 5270)	* 10510 (* 4800)	10430 (4800)	* 9760 (* 4440)	7690 (3590)			* 9750 (* 4400)	7670 (3430)	30' 0" (9.23 m)	
20' (6.0 m)			* 13900 (* 6400)	* 13900 (* 6400)	* 12040 (* 5530)	* 12040 (* 5530)	* 10690 (* 4900)	10310 (4790)	* 9660 (* 4420)	7710 (3590)			* 9160 (* 4140)	6660 (3000)	32' 8" (10 m)	
15' (4.5 m)			* 15980 (* 7380)	* 15980 (* 7380)	* 13070 (* 6020)	* 13070 (* 6020)	* 1180 (* 5140)	10030 (4650)	* 9810 (* 4510)	7590 (3520)		(* 3950)	(2750)	* 8720 (* 3950)	6080 (2750)	34' 5" (10.51 m)
10' (3.0 m)			* 18720 (* 8660)	* 18720 (* 8660)	* 14340 (* 6620)	13350 (6190)	* 11780 (* 5430)	9670 (4480)	* 10020 (* 4610)	7400 (3430)		* 8480 (* 3930)	5850 (2720)	* 8350 (* 3780)	5760 (2610)	35' 4" (10.78 m)
5' (1.5 m)			* 20870 (* 9650)	18930 (8780)	* 15380 (* 7090)	12670 (5870)	* 12230 (* 5640)	9300 (4310)	* 10110 (* 4670)	7200 (3340)		* 8240 (* 3840)	5770 (2680)	* 7980 (* 3620)	5650 (2560)	35' 6" (10.83 m)
Ground Level	* 6770 (* 2940)	* 6770 (* 2940)	* 21290 (* 9810)	18050 (8370)	* 15680 (* 7240)	12160 (5640)	* 12280 (* 5670)	9010 (4170)	* 9890 (* 4580)	7040 (3260)		* 7560 (* 3580)	5720 (2650)	* 7550 (* 3420)	5720 (2590)	35' 0" (10.67 m)
-5' (-1.5 m)	* 10130 (* 4480)	* 10130 (* 4480)	* 19840 (* 9150)	17700 (8210)	* 14960 (* 6910)	11880 (5510)	* 11670 (* 5400)	8840 (4090)	* 9110 (* 4250)	6960 (3220)				* 6970 (* 3170)	6000 (2720)	33' 9" (10.3 m)
-10' (-3.0 m)	* 13840 (* 6140)	* 13840 (* 6140)	* 16820 (* 7770)	* 16820 (* 7770)	* 13070 (* 6060)	11830 (5480)	* 10120 (* 4720)	8810 (4080)	* 7330 (* 3490)	6990 (3230)				* 6090 (* 2780)	6090 (2780)	31' 8" (9.67 m)
-15' (-4.5 m)			* 12230 (* 5710)	* 12230 (* 5710)	* 9770 (* 4590)	* 9770 (* 4590)	* 7170 (* 3440)	* 7170 (* 3440)								

A Distance from center of rotation

B Height

NOTE: Lifting capacities are in compliance with ISO 10567. Lift capacities apply only to the machine as originally manufactured and normally equipped by the manufacturer. Load point is the end of the arm. Rated loads shown do not exceed 75% of minimum tipping loads or 87% of hydraulic capacities. Rated loads marked with an asterisk (*) are limited by hydraulic capacities. The least stable position is over the side. The total mass of machine includes the mass of the boom, arm, counterweight, all operating fluids and 165 lb. (75 kg) operator.



Standard & Optional Equipment

■ Standard ● Optional

Engine

Emissions (EPA)	T4
High-pressure common-rail (HPCR)	■
Turbo, waste gate (WGT)	■
Cooled exhaust gas recirculation (CEGR)	■
Diesel oxidation catalyst (DOC)	■
Selective catalyst reduction (SCR)	■
Diesel exhaust fluid (DEF)	■
Fuel filter with water separator	■
Coolant recovery tank	■
Variable-speed hydraulic cooling fan, radiator (electric clutch direct drive)	■
Dual element dry-type air filter with evacuator	■
Precleaner	■
Electronic engine control (ECU)	■
Auto idle	■
Auto shutdown (time-adjustable)	■
Overheat & low oil pressure engine protection	■
Block heater (110 V)	●
Diesel-powered coolant heater	●
Fuel filler pump	●

Hydraulic

Electronic Power Optimizing System (EPOS)	■
Variable axial piston main pump (tandem)	■
Cross-sensing pump control	■
Pilot-operated control valves	■
Gear pilot pump	■
Smart Power Control (SPC)	■
Variable-speed hydraulic cooling fan, oil cooler (electric clutch direct drive)	■
Axial piston swing motor	■
Spring-applied hydraulic release brake, swing	■
Axial piston travel motor (high/low, auto)	■
Auxiliary hydraulics, one- and two-way piping	■
Auxiliary hydraulics, rotate piping	■
Adjustable auxiliary flow & pressure, 10 presets	■
Boom lock valves	■
Arm lock valve	■

Controls

Joystick controls	■
Pattern control change valve (SAE, ISO)	■
Joystick attachment control	■
Switches/buttons (one-way, two-way, power boost)	■
Foot pedal attachment control	■
Control stands	■
- Height adjustable	■
- Sliding (fore/aft)	■
Engine speed control dial	■
Travel pedals with hand levers	■
Straight travel pedal	●
Switches, console-mounted	■
- Starter (key)	■
- Travel speed selector	■
- Work light	■
- Auxiliary mode switch	■
Emergency stop switch	■
Power modes (P+, P, S, E)	■
Work modes (digging, lifting, breaker, shear)	■
Smart Power Control (SPC)	■
Jog dial display control	■
Wiper control panel	■
Audio control panel	■

Cabin

Steel, all-weather & sound-suppressed	■
Fixed cab riser, 3' 11" (1200 mm)	■
Fixed cab riser, 5' 11" (1800 mm)	●
Hydraulic cab riser, up to 6' 5" (1950 mm)	●
Viscous mount, spring-reinforced	■
Front window with wiper/washer	■
Tinted safety glass	■
Skylight	■
Visor, front window with sun screen	■
Pull-up type top front window	■
Removable lower front window with storage behind seat	■
Adjustable sliding side door window	■
Defrost, front window	■
Lockable doors	■
Seat	■
- Heated	■
- Air suspension	■
- 2" (51 mm) seat belt	■
- Adjustable height & recline	■
- Adjustable fore/aft	■
- Adjustable armrests	■
3" (76 mm) seat belt	●
Control stands	■
- Height-adjustable	■
- Mounted to seat base	■
Storage for operator's manuals	■
Mirrors	■
Fully automatic HVAC with ambient temperature sensor	■
7" multi-function LCD display monitor	■
Cigarette lighter	■
AM/FM stereo with CD player & MP3 port	■
Speakers (2)	■
Antenna, roof-mounted	■
Emergency breakout tool	■
Hot/cold beverage compartment	■
Power socket, 12 V	■
Cup holder	■
Interior light	■
Coat hanger	■
Rain shield	●
Fog guard	●
Front window guard	●
Vandalism covers (windows)	●

Electrical

System voltage – 24 V	■
Alternator – 24 V, 80 amp	■
2 x 12 V batteries, 150 AH reserve capacity	■
Blade-type fuse panel	■
Main circuit breaker	■
Light, work (halogen): machine (2), boom (2)	■
Light, work (halogen): cabin, front (4), rear (2)	●
Rotating beacon	●
Hour meter	■
Engine restart prevention system	■
Rearview camera	■
Side view camera (right side)	●
Laptop service port	■
Self-diagnostics system	■
DEVELON Fleet Management	■

Display Monitor & Warnings

Gauges	■
- Fuel level	■
- DEF level	■
- Engine coolant temperature	■
- Hydraulic oil temperature	■
- Engine rpm	■
- Battery voltage	■
- Hydraulic pump pressure	■
- ECO	■
- Digital clock	■
- Trip meter	■
- Hour meter	■
- Fuel consumption	■
Warning & indicator lights	■
- Seat belt	■
- Error code	■
- SCR warning	■
- Check engine	■
- Engine oil pressure	■
- Engine pre-heat engaged	■
- Radiator coolant level & temperature	■
- Air filter	■
- Fuel level	■
- DEF level – low	■
- Water in fuel	■
- Battery charge	■
- Work lights on	■
- Hydraulic oil temperature	■
- Hydraulic charge pressure	■
- Hydraulic pilot filter	■
- Hydraulic return filter	■
Travel alarm	■
Swing alarm	■
Buzzer	■
- Engine oil pressure	■
- Coolant temperature	■

Undercarriage

Track guards & chains with adjusters	■
Track rollers, upper	2
Track rollers, lower	8
In-shoe motor protection	■
Shoes, triple grouser – 800 mm	■
Shoes, triple grouser – 900 mm	●
Shoes	49

Other

Centralized lubrication	■
- Boom	■
- Arm	■
- Swing bearing	■
Handrails & service platforms	■
Skid-resistant steps & service platforms	■
V-shape upper side guards	●
Catwalk	●
Manuals	■
- Operation & Maintenance	■
- Parts	■
- AEM Safety Manual	■
DEVELON Fleet Management 3-year subscription	■
Vandalism protection	■
- Lockable panels	■
- Lockable fluid fill points	■
- Anti-theft protection (password)	■
Air compressor	●

Certain specification(s) are based on engineering calculations and are not actual measurements. Specification(s) are provided for comparison purposes only and are subject to change without notice. Specification(s) for your individual DEVELON equipment will vary based on normal variations in design, manufacturing, operating conditions, and other factors. Pictures of DEVELON units may show other than standard equipment.

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