



D8T

Track-Type Tractor

Technical Specifications

Engine

Engine Model	Cat® C15
Emissions	Japan 2014 (Tier 4 Final)
Rated Power (Net) – 1,900 rpm	
ISO 9249/SAE J1349	264 kW
Engine Power (Maximum) – 1,600 rpm	
ISO 14396	294 kW
Bore	137 mm
Stroke	172 mm
Displacement	15.2 L

- Net power advertised is the power available at the flywheel when the engine is equipped with fan, air cleaner, muffler, and alternator.
- No derating required up to 3566 m altitude, beyond 3566 m automatic derating occurs.
- Japan 2014 (Tier 4 Final) diesel engines are required to use only Ultra Low Sulfur Diesel (ULSD) with 15 ppm (mg/kg) of sulfur or less. Cat DEO-ULS™ or oils that meet the Cat ECF-3, API CJ-4, and ACEA E9 specification are required. Consult your OMM for further machine specific fuel recommendations.
- Diesel Exhaust Fluid (DEF) used in Cat Selective Catalytic Reduction (SCR) systems must meet the requirements outlined in the International Organization for Standardization (ISO) standard 22241.

Service Refill Capacities

Fuel Tank	627 L
Diesel Exhaust Fluid Tank	24 L
Cooling System	86 L
Engine Crankcase*	38 L
Power Train	155 L
Final Drives (each)	12.5 L
Roller Frames (each)	65 L
Pivot Shaft Compartment	40 L
Hydraulic Tank	75 L

* With oil filter.



オフロード法2014年
基準適合



D8T Track-Type Tractor Specifications

Weights

Operating Weight

Standard (Single-Shank Ripper)	40 375 kg
Standard (Multi-Shank Ripper)	41 050 kg
LGP (Drawbar)	37 750 kg

Shipping Weight

Standard (Single-Shank Ripper)*	30 400 kg
Standard (Multi-Shank Ripper)*	31 075 kg
LGP (Drawbar)*	31 490 kg

- Operating Weight – Standard: Includes hydraulic controls, blade, tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, Single-Shank Ripper, 610 mm MS shoes, and operator.
- Operating Weight – LGP: Includes hydraulic controls, blade, tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, SU-Blade, 965 mm MS shoes, and operator.
- Shipping Weight – Standard: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 610 mm MS shoes.
- Shipping Weight – LGP: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, and 965 mm MS shoes.

* Considering operator (75 kg) and 20% fuel (0.85 density) of 627 L.

Weights – Waste Handler

Operating Weight

Waste Handler	39 650 kg
LGP Waste Handler	41 850 kg

Shipping Weight

Waste Handler	33 610 kg
LGP Waste Handler	35 630 kg

- Operating Weight – Standard: Includes hydraulic controls, blade, tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, Waste SU-Blade, striker box, 610 mm MS shoes, and operator.
- Operating Weight – LGP: Includes hydraulic controls, blade, tilt cylinder, drawbar, coolant, lubricants, 100% fuel, ROPS, FOPS cab, Waste SU-Blade, 965 mm MS shoes, striker box, and operator.
- Shipping Weight – Standard: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, striker box, and 610 mm MS shoes.
- Shipping Weight – LGP: Includes coolant, lubricants, 20% fuel, ROPS, FOPS cab, striker box, and 965 mm MS shoes.

Undercarriage

Standard

Shoe Type	Moderate Service
Width of Shoe	610 mm
Shoes/Side	44
Track Rollers per Side	8
Grouser Height	78 mm
Pitch	216 mm
Ground Clearance	613 mm
Track Gauge	2083 mm
Length of Track on Ground	3206 mm
Ground Contact Area	3.91 m ²
Ground Pressure (JIS)	101.3 kPa

LGP

Shoe Type	Moderate Service
Width of Shoe	965 mm
Shoes/Side	44
Track Rollers per Side	8
Grouser Height	78 mm
Pitch	216 mm
Ground Clearance	613 mm
Track Gauge	2337 mm
Length of Track on Ground	3206 mm
Ground Contact Area	6.19 m ²
Ground Pressure (JIS)	59.8 kPa

Hydraulic Controls

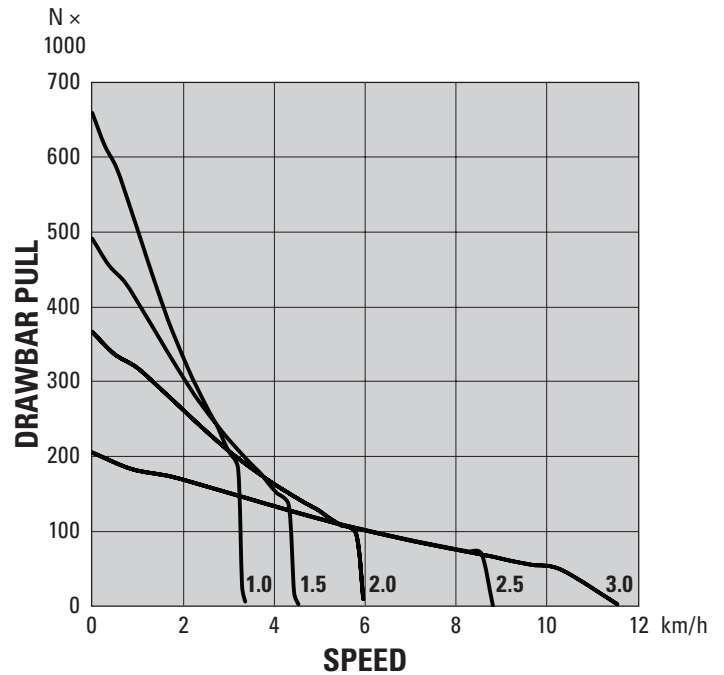
Pump Type	Piston-type, Variable Displacement
Pump Output (Steering)	284 L/min
Pump Output (Implement)	244 L/min
Tilt Cylinder Rod End Flow	132 L/min
Tilt Cylinder Head End Flow	170 L/min
Bulldozer Relief Valve Setting	24 000 kPa
Tilt Cylinder Relief Valve Setting	24 000 kPa
Ripper (Lift) Relief Valve Setting	24 000 kPa
Ripper (Pitch) Relief Valve Setting	24 000 kPa
Steering	43 000 kPa

- Steering Pump output measured at 2,364 rpm (pump speed) and 30 000 kPa.
- Implement Pump output measured at 1,900 rpm and 6895 kPa.
- Electro-hydraulic pilot valve assists operations of ripper and dozer controls. A standard hydraulic system includes four valves.
- Complete system consists of pump, tank, filter, oil cooler, valves, lines, and control levers.

D8T Track-Type Tractor Specifications

Transmission

1 Forward	3.5 km/h
1.5 Forward	4.8 km/h
2 Forward	6.6 km/h
3 Forward	11.3 km/h
1.5 Reverse	4.8 km/h
2.0 Reverse	6.4 km/h
2.5 Reverse	8.7 km/h
3.0 Reverse	11.8 km/h
Drawbar Pull	
1 Forward	659.2 kN
1.5 Forward	490.8 kN
2 Forward	366.1 kN
3 Forward	205.8 kN



Ripper

	Single-Shank, Adjustable Parallelogram	Multi-Shank, Adjustable Parallelogram
Number of Pockets	1	3
Overall Beam Width	—	2464 mm
Maximum Clearance Raised (under tip, pinned in bottom hole)	636 mm	593 mm
Maximum Penetration (standard tip)	1130 mm	780 mm
Maximum Penetration Force (shank vertical)	127.3 kN	124.2 kN
Pry out Force	222.7 kN	—
Pry out Force (Multi-Shank Ripper with one tooth)	—	222.9 kN
Weight* (without hydraulic controls)	3957 kg	—
Weight		
With One Shank	—	3946 kg
Each Additional Shank	—	332 kg
Total Operating Weight* (with SU-Blade and Ripper)	40 375 kg	41 050 kg

* Total Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel. ROPS, FOPS cab, blade, single-shank 610 mm MS shoes, and operator.

D8T Track-Type Tractor Specifications

Winches

Winch Model	PA140VS
Weight*	2136 kg
Oil Capacity	15 L
Increased Tractor Length	781 mm
Winch Length	1614 mm
Winch Case Width	1226 mm
Drum Width	332 mm
Flange Diameter	610 mm
Recommended Cable Size	29 mm
Optimal Cable Size	32 mm
Drum Capacity	
Recommended Cable Length	84 m
Optional Cable	62 m

- Variable speed, hydraulically driven, dual braking system, three roller fairlead.

* Includes winch, mounting group, and oil.

Winch Model	W12E
Weight*	2880 kg
Oil Capacity	121 L
Increased Tractor Length	669 mm
Winch Length	1485 mm
Winch Case Width	1216 mm
Drum Width	281 mm
Flange Diameter	635 mm
Recommended Cable Size	29 mm
Optimal Cable Size	32 mm
Drum Capacity	
Recommended Cable Length	69 m
Optional Cable	55 m

- Fixed speed, PTO driven.

* Includes winch, mounting group, and oil.

Track Shoes

	610 mm	660 mm	700 mm	710 mm	965 mm
Positive Pin Retention Track					
Moderate Service	✓			✓	✓
Moderate Service, Trapezoidal				✓	
Extreme Service	✓	✓		✓	
Extreme Service, Trapezoidal	✓	✓	✓		
Heavy Duty Extreme Service Track – HDXL with DuraLink™	✓	✓	✓		

- Additional track shoe types/widths available by special order. Please consult your Cat dealer for details.

Standards

- The declared dynamic operator sound pressure level is 76 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- Hearing protection may be needed when the machine is operated with an open operator station for extended periods or in a noisy environment. Hearing protection may be needed when the machine is operated with a cab that is not properly maintained or when the doors and windows are open for extended periods.
- The declared dynamic operator sound pressure level is 75 dB(A) when “ISO 6396:2008” is used to measure the value for an enclosed cab. The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds. The measurement was conducted with the cab doors and the cab windows closed. The cab was properly installed and maintained.
- The declared exterior sound power level is 113 dB(A) when the value is measured according to the dynamic test procedures and the conditions that are specified in “ISO 6395:2008.” The measurement was conducted at 70% of the maximum engine cooling fan speed. The sound level may vary at different engine cooling fan speeds.

ROPS/FOPS

- Rollover Protective Structure (ROPS) meets the following criteria: ISO 3471:2008.
- Falling Object Protective Structure (FOPS) meets the following criteria: ISO 3449:2005 Level II.

Brakes

- Crawler Machine Brake Requirements meets the following criteria: ISO 10265:2008.

D8T Track-Type Tractor Specifications

Blades

	Capacity	Width*	Width Over End Bits	Height	Digging Depth
Semi-Universal (SU)	10.3 m ³	3900 mm	4042 mm	1747 mm	573 mm
SU with Rock Guard, Wear Plate	10.3 m ³	3900 mm	4042 mm	2017 mm	573 mm
SU with Push Plate	10.3 m ³	3900 mm	4042 mm	1747 mm	573 mm
SU Landfill with Wear Plate	21.2 m ³	3900 mm	4042 mm	2553 mm	573 mm
SU with Performance Cutting Edges	10.3 m ³	3900 mm	3962 mm	1747 mm	573 mm
SU with Rock Guard, Performance Cutting Edges	10.3 m ³	3900 mm	3962 mm	2017 mm	573 mm
Universal	11.8 m ³	4123 mm	4265 mm	1732 mm	573 mm
Universal with Rock Guard, Wear Plate	11.8 m ³	4123 mm	4265 mm	2012 mm	573 mm
Universal Landfill	23.4 m ³	4123 mm	4265 mm	2544 mm	573 mm
Angle Blade	5.2 m ³	4531 mm	5043 mm	1177 mm	625 mm
LGP SU	9.9 m ³	4402 mm	4543 mm	1622 mm	575 mm
LGP SU Landfill	22.2 m ³	4402 mm	4543 mm	2454 mm	575 mm
LGP Angle	5.6 m ³	5041 mm	5553 mm	1177 mm	625 mm

	Ground Clearance	Maximum Tilt	Weight* (without hydraulic controls)	Total Operating Weight**	Rear Attachment in Total Operating Weight
Semi-Universal (SU)	1255 mm	895 mm	4407 kg	39 830 kg	SS ripper
SU with Rock Guard, Wear Plate	1255 mm	895 mm	4998 kg	40 375 kg	SS ripper
SU with Push Plate	1255 mm	895 mm	4655 kg	40 080 kg	SS ripper
SU Landfill with Wear Plate	1255 mm	895 mm	5251 kg	39 650 kg	striker box
SU with Performance Cutting Edges	1255 mm	895 mm	4547 kg	40 470 kg	SS ripper
SU with Rock Guard, Performance Cutting Edges	1255 mm	895 mm	5130 kg	40 507 kg	SS ripper
Universal	1230 mm	968 mm	4895 kg	40 320 kg	SS ripper
Universal with Rock Guard, Wear Plate	1230 mm	968 mm	5454 kg	40 875 kg	SS ripper
Universal Landfill	1230 mm	968 mm	5840 kg	40 239 kg	striker box
Angle Blade	1323 mm	733 mm	5121 kg	40 464 kg	SS ripper
LGP SU	1228 mm	859 mm	4703 kg	37 750 kg	drawbar
LGP SU Landfill	1228 mm	859 mm	5062 kg	41 850 kg	striker box
LGP Angle	1323 mm	657 mm	5714 kg	38 761 kg	drawbar

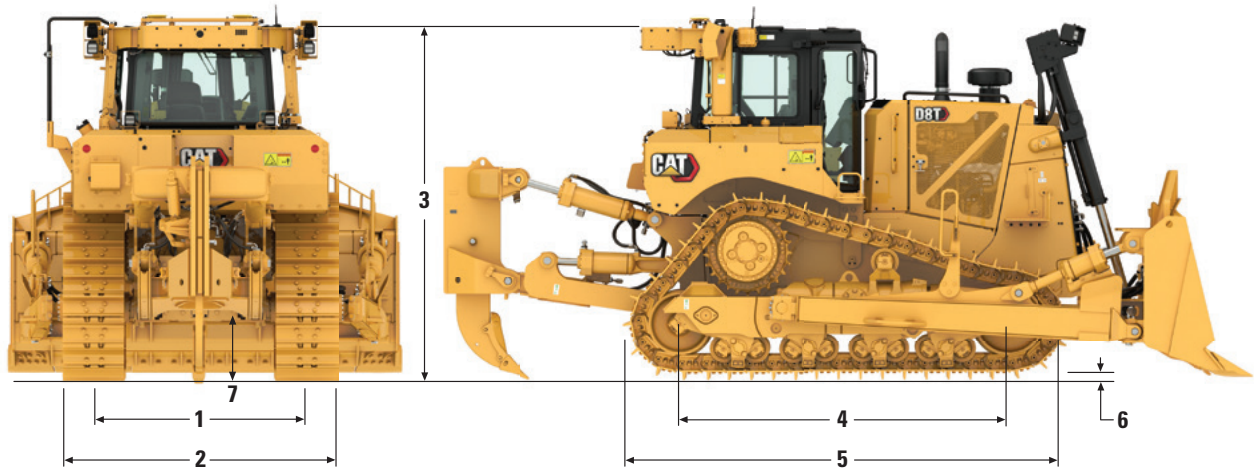
* Includes blade tilt cylinder.

** Operating Weight: Includes hydraulic controls, blade tilt cylinder, coolant, lubricants, 100% fuel, ROPS, FOPS cab, blade, rear attachment, 610 mm MS shoes, and operator.

D8T Track-Type Tractor Specifications

Dimensions

All dimensions are approximate.



	Standard	Non-Suspended	LGP*
1 Track Gauge	2083 mm	2083 mm	2337 mm
2 Width of Tractor			
Over Trunnions	3057 mm	3057 mm	3311 mm
Without Trunnions (standard shoe width)	2693 mm	2693 mm	3302 mm
3 Machine Height**, from Tip of Grouser			
Exhaust Stack	3472 mm	3463 mm	3295 mm
EROPS (to top of railing)	3566 mm	3575 mm	3566 mm
4 Length of Track on Ground	3206 mm	3258 mm	3206 mm
5 Length of Basic Tractor (tag link trunnion to tip of rear grouser)	4647 mm	4647 mm	4647 mm
With the following attachments add:			
Ripper – Single-Shank (with tip at ground line)	1519 mm	1519 mm	Not Available
Ripper – Multi-Shank (with tip at ground line)	1613 mm	1613 mm	Not Available
SU Blade	1904 mm	1904 mm	1904 mm
U Blade	2241 mm	2241 mm	Not Available
A Blade (not angled)	2027 mm	2027 mm	Not Available
A Blade (angled 25 degrees)	3068 mm	3068 mm	Not Available
Drawbar	406 mm	406 mm	406 mm
6 Height of Grouser	78 mm	78 mm	78 mm
7 Ground Clearance	613 mm	606 mm	613 mm

*Standard shoe width of D8T LGP with non-suspended undercarriage is 965 mm.

**When Cat GRADE with 3D antennas are installed, overall machine height increases by approximately 82 mm.

D8T Standard and Optional Equipment

Standard and Optional Equipment

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
POWER TRAIN			CAT TECHNOLOGY		
Cat C15 Diesel Engine, electronic unit injection	✓		Attachment Ready Option (ARO)		✓
Engine mounted aftertreatment to meet Japan 2014 (Tier 4 Final) emission standards	✓		AutoCarry/AutoRip, single tilt or dual tilt		✓
24V electric start	✓		Cat GRADE with 3D		✓
Air-to-air aftercooler (ATAAC)	✓		Cat GRADE with Slope Assist		✓
Air filter, with electronic service indicator	✓		Cat Slope Indicate	✓	
Extreme Service Brakes		✓	COMMAND for Dozing Ready		✓
Extended life coolant	✓		Grade Control Ready	✓	
Ecology drains, power train		✓	Product Link™ – Cellular or Dual Mode		✓
Engine precleaner with screen		✓	OPERATOR ENVIRONMENT		
Engine thermal shield		✓	Access/egress lighting with shutdown timer	✓	
Suction fan, auto reversing	✓		Adjustable armrests	✓	
Four planet, double-reduction planetary final drives	✓		Cab glass – enhanced 40 psi		✓
Fuel priming pump, electric	✓		Cab glass – enhanced dual pane		✓
Full autoshift	✓		Cab, ROPS/FOPS, sound suppressed	✓	
High performance single plane cooling system	✓		Hydraulic controls lock switch	✓	
Oil change system, high speed		✓	Decelerator pedal	✓	
Electronic parking brake	✓		Electronic governor switch	✓	
Precleaner, strata-tube dust ejector	✓		Heater and ventilation	✓	
Prescreener	✓		Interior LED courtesy lights	✓	
Radiator, 6.35 fins per inch, debris	✓		Mirror, rearview	✓	
Sound attenuated exhaust system	✓		Provision for wire passage in/out of cab	✓	
Automatic ether starting aid	✓		Radio, AM/FM, Bluetooth®	✓	
Torque divider with lock-up clutch	✓		ROPS mounted air conditioner	✓	
Electronic transmission control module	✓		Retractable seat belt	✓	
Transmission, electronically-controlled powershift	✓		Air-suspension seat, cloth	✓	
Turbocharger	✓		Seat, cloth, heated		✓
Water separator	✓		Seat, heated and ventilated		✓
			Touchscreen operator interface	✓	
			Visibility arrangement – mirrors		✓
			Visibility arrangement – single camera		✓
			Window shades		✓
			Wipers, intermittent	✓	

(continued on next page)

D8T Standard and Optional Equipment

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
UNDERCARRIAGE			HYDRAULICS		
Gauge arrangements – Standard or LGP	✓		Dozer tilt hydraulics – dual tilt		✓
Rollers and idlers, lifetime lubricated	✓		Dozer tilt hydraulics – single tilt	✓	
Sprocket rim segments, replaceable	✓		Electronically enabled quick drop valve	✓	
Suspension-type undercarriage	✓		Hydraulics, electronically controlled, load-sensing dozer lift and tilt	✓	
8-roller tubular track roller frame (carrier roller ready)	✓		Hydraulics, electronically controlled, load-sensing rear hydraulics, ripper or winch ready	✓	
Hydraulic track adjusters	✓		Hydraulics, independent steering and work tool pumps	✓	
Track guide	✓		Hydraulics, ripper		✓
Two-piece master links	✓		Hydraulics, winch		✓
Positive Pin Retention (PPR) undercarriage – 44 section track, sealed and lubricated, single grouser shoes	✓		ELECTRICAL		
610 mm PPR moderate service shoes*	✓		Alarm, back-up	✓	
PPR undercarriage, suspended, guarded		✓	Converter, 24V to 12V	✓	
PPR undercarriage, arctic		✓	Diagnostic connector	✓	
Heavy Duty, Extended Life (HDXL) undercarriage – 44 section track, sealed and lubricated, single grouser shoes		✓	Ground level service center with hour meter	✓	
HDXL undercarriage, suspended		✓	Horn, forward warning	✓	
HDXL undercarriage, suspended, guarded		✓	Light, warning strobe		✓
HDXL undercarriage, arctic		✓	Light, warning strobe mount		✓
Carrier rollers, suspended		✓	Lights – premium light package		✓
Carrier rollers, suspended – arctic		✓	Lights – six-light package	✓	
Carrier rollers, none		✓	BULLDOZERS <i>(see chart for available blade options)</i>		
Final drives, standard or LGP	✓		8SU/U – basic, guarded or dual tilt guarded		✓
Final drives, standard or LGP, guarded		✓	8SU LGP – basic		✓
Final drives, standard, arctic		✓	8 LGP – single tilt guarded or dual tilt guarded		✓
			8A		✓

*For optional track shoe offerings, please refer to chart on page 4.

(continued on next page)

Standard and Optional Equipment *(continued)*

Standard and optional equipment may vary. Consult your Cat dealer for details.

	Standard	Optional		Standard	Optional
PUSH ARMS			FLUIDS, LUBRICANTS, COOLANTS		
Single tilt, standard	✓		Engine coolant, standard (-37° C)	✓	
Single tilt, extreme		✓	Engine coolant, arctic (-51° C)		✓
Dual tilt, standard or extreme		✓	OTHER STANDARD EQUIPMENT		
BOTTOM GUARDS			Equalizer bar, pinned	✓	
Hinged	✓		Front pull device	✓	
Powered		✓	HVAC box – corrosive resistant	✓	
Heavy duty, sealed		✓	Mounting, lift cylinders	✓	
Wood chip		✓	Oil cooler, hydraulic	✓	
Bottom guards with front counterweight		✓	Product Link	✓	
REAR ATTACHMENTS			S·O·S SM sampling ports	✓	
Ripper – single-shank		✓	Steering, electronically controlled power differential	✓	
Ripper – single-shank with pin puller		✓	Vandalism protection for fluid compartments	✓	
Ripper – single-shank with striker bar		✓	Engine compartment service light	✓	
Ripper – single-shank with puller and striker bar		✓	GUARDS		
Ripper – multi-shank		✓	Guard, fan debris		✓
Ripper – multi-shank with striker bar		✓	Guard, fast fuel		✓
Counterweight, rear		✓	Guard, fuel tank		✓
Drawbar, rigid		✓	Guard, grill debris		✓
Rear striker bar		✓	Rear screen		✓
Winch, PA140VS, variable speed		✓	Striker bars, front, suspended		✓
Winch, W12E PTO		✓	Sweeps group		✓
STARTERS, BATTERIES, AND ALTERNATORS			OTHER ATTACHMENTS		
Batteries – Heavy Duty	✓		Black paint, blade		✓
Batteries – Arctic		✓	Grab handles, push arm		✓
Alternators – 150 Amp	✓				
Alternators – 150 Amp, ducted		✓			
Starting aids – engine heaters		✓			
Heater, engine coolant (120V)		✓			

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Based on the Labor, Safety and Health Laws in Japan, employer of small construction equipment are required to provide specific training for all operators on machines with ship weight less than 3 metric ton. For machines greater than 3 metric ton, operator needs to obtain operator license certification from a Government approved registered training school.

AEXQ2386-01 (06-2020)
Replaces AEXQ2386
Build Number: 21A
(Japan)

