



ENGINE

ENGINE	
Model	Case 434T/E4
Туре	Diesel 4-stroke, Turbo, D.I.
Cylinder	4
Bore/Stroke	3.9 in x 4.3 in
	(99 mm x 110 mm)
Displacement	207 in ³ (3.4 L)
Fuel injection	Direct, high pressure
	common rail
Fuel	#2 Diesel
Fuel filter:	
	8% efficiency @ 30 microns
	95% efficiency @ 4 microns
	bocharged w/ external EGR
Exhaust aftertreatme	nt Diesel particulate filter
Cooling	Liquid
Engine speeds	RPM
High idle – no load	2500 +/- 25
Rated – full load	2500
Low idle	1150 +/- 25
Horsepower @ 2500	
Gross	90 hp (67 kW)
Net	84 hp (63 kW)
Peak torque @ 1400	RPM 282 lb·ft (383 N·m)
Radiator:	
Core type	All aluminum
Core size area	2.056 ft ² (0.191 m ²)
Rows of tubes x co	
Cap pressure	13 +/-2 psi (0.90 +/- 0.14 bar)
Fan:	(0.90 +/- 0.14 bal)
Diameter	22 in (560 mm)
Ratio	1.1:1
Water pump:	
Style	Centrifugal
Flow	47.8 gpm (181 L/min)
Engine lubrication pu	
	ep sump pan, plate cooler,
	nder-piston nozzles
Pump operating angl	
Side to side	45°
Bucket up	35°
Bucket down	45°

POWERTRAIN

Drive pump	Mechanical
Pump to engine ratio	1:1
Displacement	2.81 in ³ (46 cc)
Flow @ rated engine R	RPM:
@ 100% efficiency	30.4 gpm (115 L/min)
Charge pressure	363 psi (25 bar)
System relief	5,220 psi (360 bar)
Control	Mechanical servo
Drive pump	Electro hydraulic
Pump to engine ratio	1:1
Displacement 2.75 in ³ (45 c	
Flow @ rated engine R	RPM:
@ 100% efficiency	29.8 gpm (113 L/min)
Charge pressure	363 psi (25 bar)
System relief	5,220 psi (360 bar)
Control	Electro hydraulic

POWERTRAIN (cont.)

TV380

FONERIA		iont.)	
Drive motors: Max. displace	ment	3.10 in³ (50 9 cc)
Displacement		```	50.0 00)
High speed	option	2.02 in ³ (33 1 cc)
Speed @ high	idle enai	```	
(100% eff. @			101
Speed @ optic		•	15.6
	•	ement and relief	F
•	•	@ 5,220 psi (36	
1 /		4,654 lb ft (63	10 N·m)
Travel speed:			,
Low range		5.0 mph (8	3.0 kph)
High range	7.6 mph (12.2 kph)		
Final drive	Dou	ble-reduction pl	anetary
Sprocket torque:		· · · · · ·	
Torque @ 5,220 psi (360 bar) relief pressure:			
		4,189 lb.ft (55	98 N∙m)
Max. tractive e	effort	9,267 lb (41	,222 N)
Parking brake:			
Туре		Spring-a	applied,
		hydraulic relea	
Engagement	Depre	ess on/off brake	button
	on hand	dle or instrumen	it panel,
	raise seat bar, get off seat,		
		or stop	engine.

ELECTRICAL

Alterna	tor 120 amp	
Starter	3.2 kW	
Battery	12-volt low-maintenance	
1000 cold-cranking amps @ 0° F (-18° C)		

OPERATOR ENVIRONMENT

ROPS/FOPS level 1 canopy w/ side screens; Tilt ROPS/FOPS; Rear window w/ emergency escape; Instrument panel w/ : hour meter, tachometer, fuel level, hydraulic oil temperature, engine coolant temperature, diagnostic features, security lockout; Non-suspension vinyl seat; 2 in (51 mm) retractable lap seat belt; Hand and foot throttles; Alarm package - back-up and horn; Headliner; Dome light; Top window; Cup holder; 12-volt power plug socket; Foot rest; Storage tray; Low effort ergonomic hand controls; Padded seat bar w/ integral armrests; Loader control lockout system; Electric parking brake control; Floor cleanout panel; Proportional auxiliary hydraulic control - on joystick.

Indicators: Digital hourmeter; Fuel level LCD bar graph with alarm. Warning lights with alarms: Engine coolant temperature; Engine oil pressure; Engine malfunction; Hydraulic charge pressure; Hydraulic filter restriction; Hydraulic oil temperature. Warning alarms: Battery voltage - plus display. Indicator light: Engine preheat; Parking brake; Seat bar reminder.

OPERATING WEIGHT

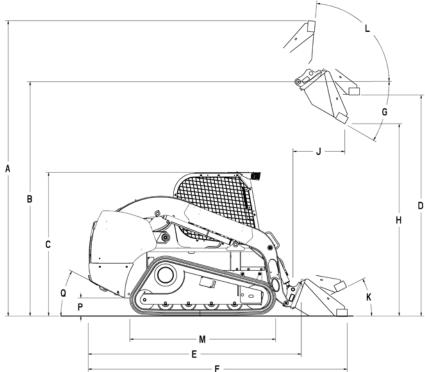
Operating weight	10,200 lb (4625 kg)
Shipping weight	9,865 lb (4475 kg)
Add-on weights:	
Side cab glass	47 lb (21.3 kg)
Polycarbonate cab door	74 lb (33.6 kg)
Glass cab door w/ wiper	134 lb (60.8 kg)
Suspension seat	22 lb (10 kg)
Additional counterweight	600 lb (272 kg)

HYDRAULICS

Standard equipment pu	imp type Gear
Displacement:	
Standard aux.	2.23 in ³ (36.6 cc)
High flow aux.	1.24 in ³ (20.4 cc)
Pump flow @ rated eng	ine RPM:
@ 100% efficiency	24.2 gpm (92 L/min)
Optional high flow @ rat	ted engine RPM:
@ 100% efficiency	35 gpm (132.5 L/min)
Loader control valve:	
	spool/open center/series
Relief pressure	3,050 psi (210 bar)
Port relief pressures:	
Loader raise	3,263 psi (225 bar)
Bucket curl	3,481 psi (240 bar)
Bucket dump	3,336 psi (230 bar)
Hydraulic lines:	
Tubing	37° JIC Flare
Loop hoses	SAE 100 R13
Hydraulic oil cooler:	
Number of fins	10 per in (3.94 per cm)
Number of tube rows	
Area	130.7 in ² (843 cm ²)
Hydraulic filter	6 micron/spin on
Lift cylinder:	
Bore diameter	2.75 in (69.8 mm)
Rod diameter	2.0 in (50.8 mm)
Stroke	34.9 in (886.5 mm)
Closed length	47.4 in (1205 mm)
Bucket cylinders:	
Bore diameter	3.0 in (76.2 mm)
Rod diameter	1.5 in (38.1 mm)
Stroke	16.14 in (410.0 mm)
Closed length	24.0 in (610.0 mm)

SERVICE CAPACITY

Fuel tank	25.5 gal (96.5 L)
Engine oil with filter	8.9 qt (8.5 L)
Hydraulic system:	
Reservoir	6 gal (22.75 L)
Total	11.75 gal (44.5 L)



R S

PERFORMANCE SPECS

	PERFORMANCE SPECS	
drawings are for illustrative purpose only and may not be exact representation of unit.	Rated operating capacity (ROC): 50% of tipping load with additional counterweight 35% of tipping load Tipping load Breakout forces @ 3,150 psi (217 bar): Lift cylinder Bucket cylinder with 78 in (1.98 m) heavy duty dir Cycle times: Raise Lower Dump Roll back	6,020 lb (26.8 kN) 7510 lb (33.4 kN)
IMENSIONS		
Overall operating height: with foundry/excavating bucket short lip with heavy duty dirt bucket with low profile extended/long lip bucket		161.9 in (4.11 m) 166.0 in (4.26 m) 171.0 in (4.34 m)
ight to: Bucket hinge pin Top of ROPS Bottom of level bucket, fully raised		131.6 in (3.34 m) 80.4 in (2.04 m) 124.8 in (3.17 m)
erall length: without attachment with coupler with foundry excavation bucket on ground with heavy duty dirt bucket with low profile extended bucket		117.7 in (2.99 m) 141.9 in (3.60 m) 146.0 in (3.71 m) 151.0 in (3.83 m)
Dump angle		53.5°
Dump height: with foundry/excavating bucket short lip with heavy duty dirt bucket		105.1 in (2.67 m) 102.2 in (2.60 m)
Dump reach – max. height with heavy duty dirt bucket		31.4 in (0.80 m)
ximum attachment rollback: Bucket on ground Bucket at full height		34.2° 86°
Track on ground		64.5 in (1.64 m)
Ground clearance – bottom of belly pan		9.5 in (0.24 m)
Angle of departure		32°
earance circle: without bucket with 78 in (2.0 m) foundry bucket in carry position with 78 in (2.0 m) heavy duty dirt bucket on ground with 78 in (2.0 m) extended low profile on ground Clearance circle rear		56.2 in (1.43 m) 84.8 in (2.16 m) 88.4 in (2.25 m) 92.6 in (2.35 m) 70.4 in (1.78 m)
Track gauge		58.3 in (1.48 m)
Over the track width		76.0 in (1.93 m)

DIMENSIONS

Α.

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G. Н.

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L.

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Q.

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V.

W.

Height to: В.

Overall length:

Maximum attachment rollback:

Clearance circle:

STANDARD EQUIPMENT

OPERATOR ENVIRONMENT

See page 1

FNGINE

Case 434T/E4 diesel No maintenance belt Over and under radiator and oil cooler Glow plugs Integral engine oil cooling Fuel filter with water trap Dual element air cleaner 120 amp alternator 1000 CCA 12-volt battery Master electrical disconnect

POWERTRAIN

2-speed hydrostatic drive Servo assist controlled pumps SAHR disc parking brake

OPTIONAL EQUIPMENT

OPERATOR ENVIRONMENT

Electro-hydraulic controls: for drive/steering, loader functions switchable between H and ISO patterns adjustable sensitivity of controls

Foot controls, servo-assist mechanical

- Deluxe cloth, air suspension seat, with heater and lumbar support
- Interior mirror

Enclosed cab including glass door with wiper and washer, sliding side windows, heater, shoulder belt, radio with speakers, keyless start

3 in (76.2 mm) retractable seat belt

Heater and air conditioner

Open cab interior trim package

FOPS level 2

Demolition cab door with polycarbonate

HYDRAULICS

Auxiliary hydraulics @ 3,050 psi (210 bar) 24.2 gpm (92 L/min) Auxiliary hydraulic disconnects, ISO flat-face connect-under-pressure with case drain Hydraulic circuit pedal lock Loader arm-mounted ISO flat face connectors Auxiliary function lockout override Loader function lockout system Loader lift lockout override 3-spool loader control valve Heavy-duty oil cooler Loader arm float position

LOADER

Vertical loader arm design Mechanical attachment coupler Loader lift arm support strut

OTHER

Machine protection auto shutdown Mounting points for add-on counterweights Halogen lights: 2 front 2 side 2 rear Rear tail lights Lockable service access hood Single-point daily servicing Pre-wired for rotating beacon Remote oil drain Remote oil and fuel filters

ENGINE

Coolant block heater Battery disconnect switch

HYDRAULICS

High-flow auxiliary hydraulics - combined @ 3,050 psi (210 bar) – 35 gpm (132.5 L/min) Second auxiliary hydraulics with high pressure circuit with attachment case drain plumbing

LOADER

Auxiliary front electric control **Ride control** Hydraulic attachment coupler Hydraulic one-way self-leveling

OTHER

Add-on counterweights Road lights Rotating beacon Four-corner LED strobe Lift points - four-point or single-point Language decals Factory-installed track - see page 3 Buckets - see page 3 Bolt-on bucket cutting edges 42 in (1.07 m) and 48 in (1.22 m) pallet forks Rear door guard insert Special paint

TRACK SELECTION

Туре	Area	Ground Pressure	Width to Outside of Track
17.7 in (450 mm)	2,293 in ² (13 776 cm ²)	4.5 psi (31 kPa)	76 in (1.93 m)

OPTIONAL BUCKETS

Туре	Width	Weight	Heaped Capacity
Dirt & Foundry	78 in (2.0 m)	435 lb (197 kg)	18.4 ft ³ (0.52 m ³)
Low Profile Extended	78 in (2.0 m) 84 in (2.1 m)	502 lb (228 kg) 607 lb (275 kg)	18.6 ft³ (0.53 m³) 20.2 ft³ (0.57 m³)
Light Material	84 in (2.1 m)	497 lb (225 kg)	27.9 ft ³ (0.79 m ³)
Manure & Slurry	84 in (2.1 m)	535 lb (243 kg)	22.5 ft ³ (0.64 m ³)
Heavy Duty	78 in (2.0 m) 84 in (2.1 m)	527 lb (239 kg) 758 lb (344 kg)	15.9 ft³ (0.45 m³) 25.7 ft³ (0.473 m³)

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NOTE: All specifications are stated in accordance with SAE Standards or Recommended Practices, where applicable.

NOTE: All engines meet current EPA emissions requirements.

IMPORTANT: Case Construction Equipment Inc. reserves the right to change these specifications without notice and without incurring any obligation relating to such change. Case Construction Equipment Inc. does not warrant the safety or reliability of attachments from other manufacturers.

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All Case construction equipment is biodiesel ready.