

E19D

MINI EXCAVATOR



ENGINE	
Model	Yanmar 3TNV76
Emissions certification	Tier 4 Final / Stage V
Net horsepower - SAE J1349 @ 2300 RPM:	18.4 hp (13.7 kW)
Displacement	0.29 gal (1.116 L)
Cylinders	3-cylinder in line
Cooling	Liquid

DRIVETRAIN	
Travel speeds - 2-speed travel w/ auto-shift:	
1st	1.4 mph (2.3 kph)
2nd	2.7 mph (4.4 kph)

ELECTRICAL	
Voltage	12 volts
Alternator rating	40 amp
Battery	1 x 12 volts
Battery reserve capacity	65 Ah
Work lights	1 x boom / 1 x roof

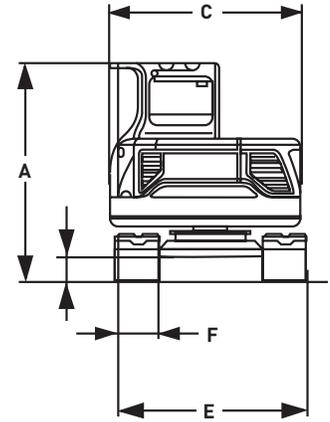
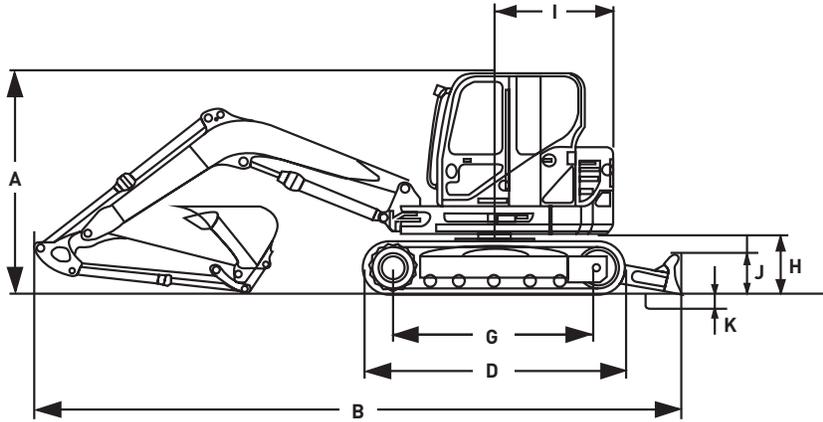
OPERATOR ENVIRONMENT	
Boom, arm, bucket and swing	2 x pilot joysticks
Tracks	2 x pilot levers
Dozer blade	1 x pilot lever
AUX 1	1- or 2-way flow
Electric proportional switch on right joystick	
AUX 2	2 way flow
Electric proportional switch on left joystick	
Boom swing	
Electric proportional switch on left joystick	
AUX 2/boom swing switch selection on right joystick	

OPERATING WEIGHT	
Canopy operating weight with rubber tracks:	4145 lb (1880 kg)

HYDRAULICS	
Type	Open Center
Pump type	2 x gear pumps
Max. rated flow total	13 gpm (49.1 L/min)
Max. system pressure	3481 psi (240 bar)
AUX 1 rated flow @ 205 bar	22.5 gpm (85 L/min)
AUX 2 rated flow @ 205 bar	8.2 gpm (31.1 L/min)
Slew speed	9.5 rpm
2nd Auxiliary (AUX 2) circuit with Electro-Hydraulic proportional control	

SERVICE CAPACITIES	
Fuel tank	7 gal (25 L)
Hydraulic oil tank	5 gal (20 L)
Hydraulic circuit capacity	8 gal (29 L)
Cooling system capacity	1.2 gal (4.5 L)
Engine oil	0.74 gal (2.8 L)



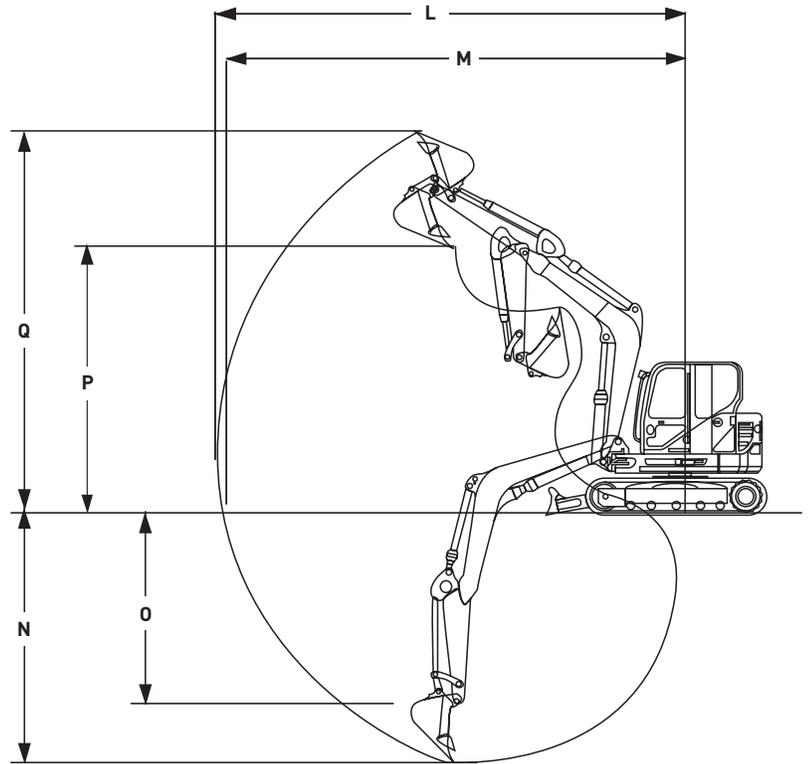


DIMENSIONS

Arm Length		3 ft 9 in (1.15 m) Arm
A	Overall height	7 ft 9 in (2370 mm)
B	Overall transport length	12 ft 8 in (3860 mm)
C	Width of upper structure	4 ft 3 in (1300 mm)
D	Track overall length	5 ft 1 in (1560 mm)
E	Track overall width	3 ft 3 in (990 mm)
F	Track shoe width	9 in (230 mm)
G	Center to center – idler to sprocket	3 ft 11 in (1185 mm)
H	Upper structure ground clearance	1 ft 6 in (456 mm)
I	Tail swing radius:	
	Standard counterweight	2 ft 2 in (650 mm)
	Boom swing	67° left/60° right
	Tail swing overhang:	
	Standard counterweight	0 in (0 mm)

BLADE SPECS

J	Backfill blade rise above ground	11 in (290 mm)
K	Backfill blade dig depth	10 in (260 mm)
	Backfill blade width	3 ft 3 in (990 mm)



PERFORMANCE SPECS

Arm Length		3 ft 9 in (1.15 m)	4 ft 5 in (1.35 m)
L	Maximum dig radius	13 ft 2 in (4020 mm)	13 ft 10 in (4210 mm)
M	Dig radius at groundline	12 ft 10 in (3920 mm)	13 ft 6 in (4120 mm)
N	Maximum dig depth	7 ft 6 in (2280)	8 ft 2 in (2480 mm)
O	Vertical straight wall dig depth	5 ft 10 in (1770 mm)	6 ft 5 in (1960 mm)
P	Dump height	8 ft 6 in (2580 mm)	8 ft 10 in (2700 mm)
Q	Overall reach height	11 ft 9 in (3590 mm)	12 ft 2 in (3710 mm)
	Arm digging force – ISO	2136 lbf (9.5 kN)	2136 lbf (9.5 kN)
	Bucket digging force – ISO	3372 lbf (15 kN)	3372 lbf (15 kN)

Line drawings are for illustrative purpose only and may not be exact representation of unit.

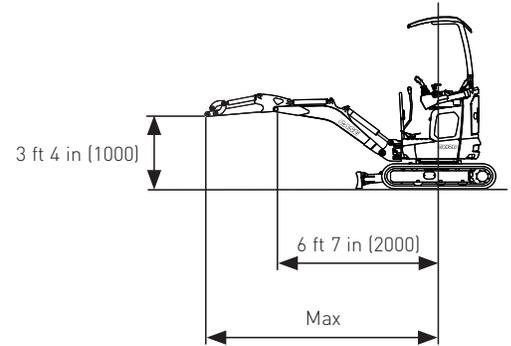
E19D MINI EXCAVATOR SPECIFICATIONS

Standard arm L = 3 ft 9 in (1150)
Long arm L = 4 ft 5 in (1350)

Opening arm from the rotation's center ft-in (mm)
Lifting capacity in lb (kg) at 3 ft 4 in (1000) height

LIFTING CAPACITY		
	6 ft 7 in (2000 mm)	Max
Frontal and lowered dozer blade	1345 lb (610 kg)	860 lb (390 kg)
Frontal and lifted dozer blade	948 lb (430 kg)	397 lb (180 kg)
Frontal and lifted dozer blade	948 lb (430 kg)	419 lb (190 kg)

The lifting capacity is based on the ISO 10567 and it does not exceed more than the 75% of static tipping load or more than the 87% of the hydraulic lifting capacity of the machine.



Standard Equipment

Engine

- Yanmar 3TNV76 diesel engine - Tier 4 Final/Stage V compliant
- Dry air filter with clogged filter warning on instrument cluster
- Glow plugs for cold weather starting

Electrical

- 12-volt battery
- Heavy-duty battery
- Battery disconnect switch
- Auxiliary power socket next to operator
- Auxiliary power socket on roof for beacon
- Key start switch
- Horn
- Travel Alarm
- myNewHollandConstruction Telematics –includes hardware and a 7-year advanced data subscription

Upper Structure

- Zero tail swing (with standard counterweight)
- Standard arm
- Pin-on bucket
- Swing boom
- Open canopy with ROPS/TOPS/FOPS Level 1
- LED work lights
- Standard counterweight
- Bucket linkage with lifting hooks

Hydraulics

- High flow 1-/2-way auxiliary hydraulics (Aux 1)
- Low flow 2-way auxiliary hydraulics (Aux 2)
- Attachment quick coupler auxiliary hydraulics (2-way | double effect)
- Direct drain to tank auxiliary circuit
- Control pattern selector valve (ISO/SAE)
- Cylinder guard on boom and dozer blade cylinders
- Hydraulic variable flow rate pump
- Mineral based hydraulic oil and lubricants

Track Drive

- Rubber belt tracks
- Retractable tracks/undercarriage
- 2-speed travel with auto shift down/up
- Fully hydrostatic drive system
- Sealed and lubricated track rollers
- Hydraulically adjustable track tensioner (with grease)
- Dozer blade with float and dual side foldable extensions

Operator Environment

- Adjustable mechanical suspension vinyl seat with seat belt
- Travel levers with foldable foot pedals
- Pilot controlled joysticks
- Blade control lever
- Engine throttle lever
- Warning light indicators
- Visual indicators
- Ignition key that opens all machine panel locks
- Operator's manual compartment
- Footrests

Optional Equipment

Hydraulics

- Object handling kit with hose burst check valves on boom and arm
- Blade safety hose burst check valve
- High constant flow 1-way mulching head auxiliary hydraulics

Upper Structure

- Long arm
- Full range of attachment quick couplers
- Full range of buckets
- Hydraulic thumb
- Biodegradable hydraulic oil and lubricants
- Additional bolt-on counterweight
- Front protection guard (Level 2)
- LED beacon

Operator Environment

- Adjustable mechanical suspension fabric seat with seat belt
- Cab heater
- Rear view mirrors
- Windshield wiper and washer
- Automatic courtesy light
- 2-piece overhead stowable windshield
- Slide right side window
- Radio & Speakers
- Enclosed cab with ROPS/TOPS/FOPS Level 1

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Safety begins with a thorough understanding of the equipment. Always make sure you and your operators read the Operator's Manual before using the equipment. Pay close attention to all safety and operating decals and never operate machinery without all shields, protective devices and structures in place. This is a one-person machine. Never allow riders in the cab, outside the machine, or in/on any bucket or attachment.

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