

# 302.2D

## Mini Hydraulic Excavator



### Engine

Gross Power (ISO 14396)	17.9 kW	24.3 hp
-------------------------	---------	---------

### Weights

Operating Weight with Cab	2135 kg	4,707 lb
Operating Weight with Canopy	2025 kg	4,464 lb

**Flexibility  
and efficiency  
to keep you  
on track  
for a more  
productive  
working day.**



**Contents**

Versatility.....	4
Performance .....	5
Productive Comfort.....	6
Maintenance and Service .....	8
Specifications.....	10
Standard Equipment.....	12
Optional Equipment.....	13



**The Cat® 302.2D provides power and efficiency so that you can get the best out of your job without ever feeling the strain. You can be assured of faster, more powerful digging with a smoother response.**

# Versatility

Flexible and functional for all jobs.



## High Flexibility

Compact in size and with a transport weight under 2055 kg (4,530 lb), the 302.2D can be transported easily using a conventional trailer and pick up truck or transit van.

The sturdy hoisting points on the cab roof enable the easy and rapid relocation of the machine between sites.

## Automatic Swing Lock

Safe transportation of the machine is aided by the Cat automatic swing lock which locks the machine's upper body in place when the control console is raised or the engine is stopped.

## Work Tools

A variety of purpose designed work tools are available, including buckets, quick couplers, hammer and auger. All Cat tools are built to last and matched to your machine to deliver excellent value and optimize performance.

## Auxiliary Hydraulics as Standard Fit

Machine is 'ready to work.' Hammer and two way lines complete with quick disconnect fittings are standard. Connections are located close to the tool to reduce hose lengths and any potential damage. Additional line options are available to further increase machine versatility. Stick and bucket cylinder hoses are protected by routing them through the boom.

## Auxiliary Flow Control

Machines configured with proportional auxiliary hydraulics, include the ability to adjust the flow for even greater tool control. Especially useful with tools such as angling ditching buckets.

## Thumb Ready Stick (North American Builds)

The 302.2D is configured with brackets and relief valves for simple and cost effective mounting of a hydraulic thumb.



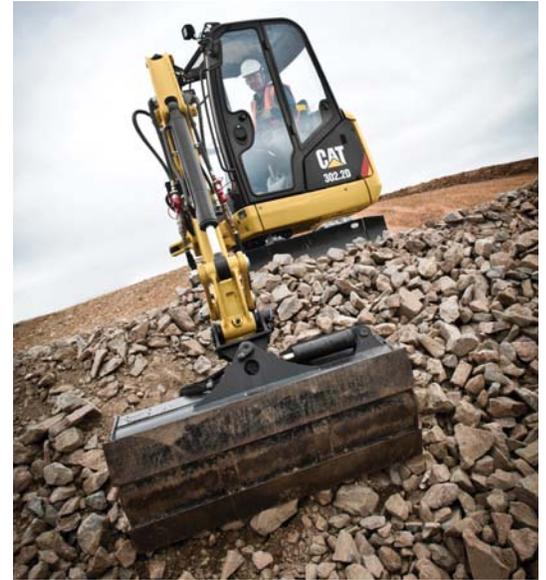
# Performance

## Powerful operation and greater uptime.

### Built Tough

The front end of the 302.2D is designed for hard work. Its rugged construction and protected hydraulics ensure that the machine is up to the toughest of jobs. Steel tubes, positioned above the boom supply the hydraulic fluid to the tools, ensuring protection from damage while keeping any maintenance quick and easy.

Components have been located to ensure the best possible machine center of gravity and weight distribution and give operator confidence over a range of terrain and applications.



### Dozer Float

Ground levelling and finishing applications are fast and easier with the dozer float function engaged making site clean-up much more efficient.

### Long Dozer Option

The optional longer dozer blade enables improved 'dig to blade' characteristics to give easier on site clean up.

### Dig Force

The 302.2D boasts high bucket and stick forces making it an impressive and productive excavator.

The choice of two stick lengths allows the customer to configure his machine to deliver even higher stick forces or longer reach. You have the choice, we have the solution.

All hydraulic functions are fully pilot operated, delivering effortless operation, reducing maintenance and lowering owner operating costs.

### Stability

An extending undercarriage and fold out dozer blade allow the machine to be configured for optimum performance. Blade extensions are retained with the dozer making them easy to use and ensuring that they are not lost.



The Cat 302.2D cab is amongst the largest in the industry. The flat cab floor optimizes visibility and increases operator leg room. The ergonomic control layout provides a comfortable, highly productive workspace.

The large two-part front windscreen allows the driver to slide both lower and upper panes beneath the cab roof, so protecting them from damage when the front screen is wide open. This also negates the need to remove or store the bottom windscreen pane away separately.



### **100% Pilot Controls**

All hydraulic functions are fully pilot operated, delivering effortless operation, reducing maintenance and lowering owner operating costs.

'As new' machine controllability is maintenance free without the need for adjustment of linkages or cables.

Auxiliary and boom swing services are controlled by proportional switches mounted on the joysticks.

### **2 Way Canopy Access**

Canopy builds allow the operator to enter and exit the operator station from both sides of the machine, helping to increase productivity and making working around site much easier.



# Productive Comfort

Large operator environment and ergonomic control layout.



# Maintenance and Service

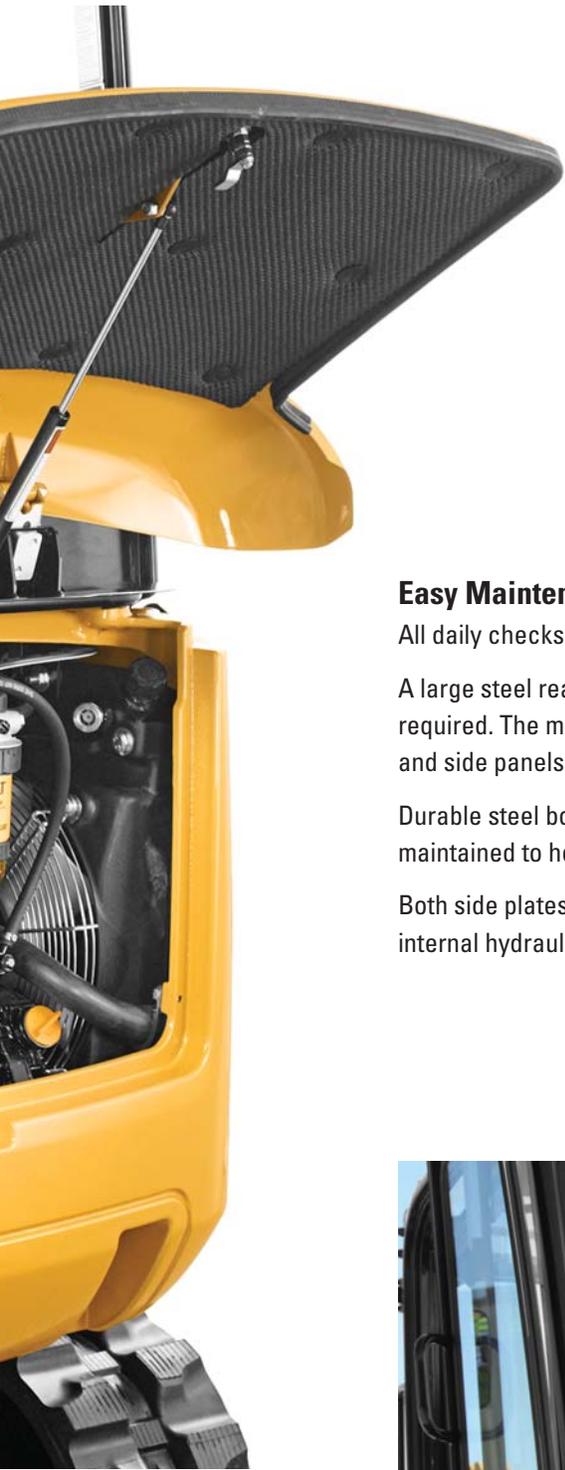
Easy access and minimal maintenance requirements keep you working.



## Unmatched support makes the difference

Your Cat dealer is ready to assist you with your purchase decision and everything after.

- Financing packages are flexible to meet your needs
- Unmatched parts availability keeps you working
- Make comparisons of machines, with estimates of component life, preventative maintenance and cost of production
- For more information on Cat products, dealer services and industry solutions, visit [www.cat.com](http://www.cat.com)



### **Easy Maintenance and Service**

All daily checks and regular service points, are easily accessed.

A large steel rear door and removable panels allow room to efficiently work on the machine when required. The main hydraulic valve and lines are also easily reached through a removable floor plate and side panels.

Durable steel body panels all round the machine offer good resistance to damage and are easily maintained to help keep the machine looking good and holding its value.

Both side plates and the cab floor plate are easy to remove and provide unhindered access to all internal hydraulic components.



# 302.2D Mini Hydraulic Excavator Specifications

## Engine

Engine Model	Yanmar 3TNV76	
Rated Net Power @ 2,200 rpm (ISO 9249)	13.2 kW	17.9 hp
Gross Power (ISO 14396)	17.9 kW	24.3 hp
Displacement	1116 cm <sup>3</sup>	40 in <sup>3</sup>

## Weights

Transport Weight with Cab	2055 kg	4,530 lb
Transport Weight with Canopy	1945 kg	4,288 lb
Operating Weight with Cab	2135 kg	4,707 lb
Operating Weight with Canopy	2025 kg	4,464 lb

- Operating weight includes standard stick, rubber tracks, bucket, operator, full fuel.

## Travel System

Travel Speed	2.8 km/h- 5.6 km/h	1.74 mph- 3.48 mph
Gradeability	30°/58%	

## Service Refill Capacities

Fuel Tank Capacity	24 L	6.3 gal
Hydraulic Tank Capacity	21 L	5.5 gal

## Blade

Width	1300 mm	4 ft 3 in
Height	300 mm	12 in
Dig Depth	360 mm	14 in
Lift Height	300 mm	12 in

## Hydraulic System

Pump Flow @ 2,200 rpm	23.8 + 23.8 + 19.0 + 6.4 L/min	6.29 + 6.29 + 5.0 + 1.7 gal/min
Operating Pressure – Equipment	200 bar	2,900 psi
Operating Pressure – Travel	200 bar	2,900 psi
Operating Pressure – Swing	150 bar	2,176 psi
Auxiliary Circuits		
Primary	30 L/min at 170 bar	8 gal/min at 2,465 psi
Secondary	17 L/min at 200 bar	4.5 gal/min at 2,900 psi
Maximum Bucket Force	19.6 kN	4,406 lbf
Maximum Stick Force – Standard Stick	12.5 kN	2,810 lbf
Maximum Stick Force – Long Stick	11.0 kN	2,473 lbf

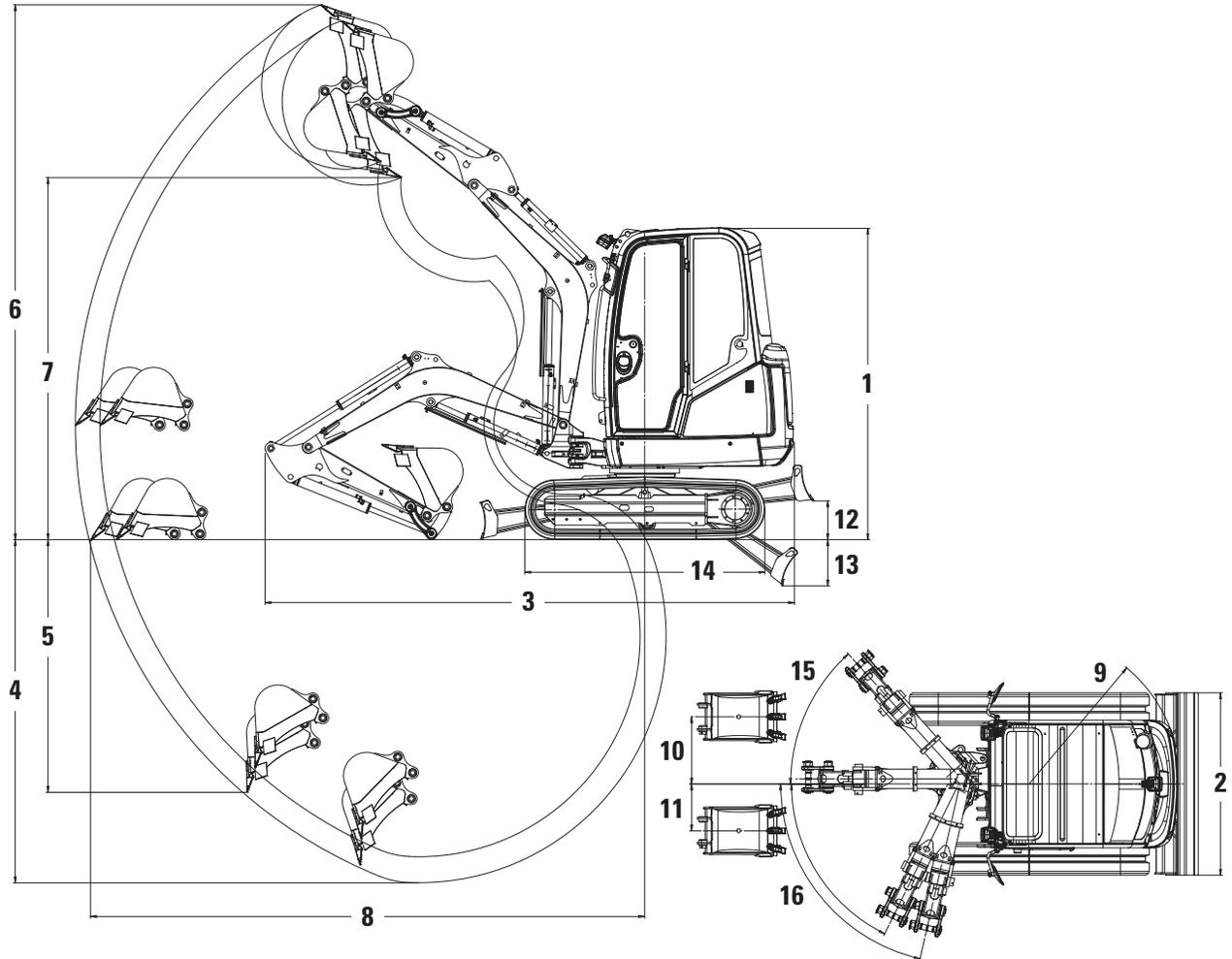
## Lift Capacity at Ground Level

Lift Point Radius	2 m (6'7")				2.5 m (8'2")				3 m (9'10")				Maximum			
	Front		Side		Front		Side		Front		Side		Front		Side	
	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
Standard Stick	887*	1,957*	557	1,228	639*	1,409*	408	900	501*	1,104*	319	703	420*	925*	267	589
Long Stick	863*	1,904*	548	1,207	616*	1,359*	400	882	484*	1,066*	311	686	382*	842*	240	529

\*The above loads are in compliance with hydraulic excavator lift capacity rating standard ISO 10567:2007 and they do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. The excavator bucket weight is not included on this chart.

## Dimensions

All dimensions are approximate.



	Standard Stick		Long Stick	
<b>1</b> Height	2295 mm	7'6"	2295 mm	7'6"
<b>2</b> Width	990 mm-1300 mm	3'3"-4'3"	990 mm-1300 mm	3'3"-4'3"
<b>3</b> Transport Length (arm lowered)	4050 mm	13'3"	4050 mm	13'3"
<b>4</b> Maximum Digging Depth	2490 mm	8'2"	2690 mm	8'10"
<b>5</b> Maximum Vertical Dig Depth	1670 mm	5'6"	1850 mm	6'0"
<b>6</b> Maximum Dig Height	3840 mm	12'6"	3930 mm	12'10"
<b>7</b> Maximum Dump Height	2720 mm	8'11"	2810 mm	9'2"
<b>8</b> Maximum Reach at Ground Level	4130 mm	13'6"	4330 mm	14'2"
<b>9</b> Tail Swing Radius	1170 mm	3'10"	1170 mm	3'10"
<b>10</b> Maximum Boom Offset (RH)	520 mm	20"	520 mm	20"
<b>11</b> Maximum Boom Offset (LH)	360 mm	14"	360 mm	14"
<b>12</b> Maximum Dozer Lift Height	220 mm	9"	220 mm	9"
<b>13</b> Maximum Dozer Dig Depth	360 mm	1'1"	360 mm	1'1"
<b>14</b> Length of Undercarriage	1710 mm	5'7"	1710 mm	5'7"
<b>15</b> Boom Swing Angle (RH)	48°		48°	
<b>16</b> Boom Swing Angle (LH)	77°/64°		77°/64°	

# 302.2D Standard Equipment

## Standard Equipment

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

- Hammer/two way auxiliary hydraulic lines
- Auxiliary quick disconnect couplers
- Dozer blade
- Working light mounted to boom
- Canopy – ROPS and TOPS protection
- Retractable seat belt
- Suspension seat, vinyl covered
- Travel pedals
- Maintenance free battery
- Hydraulic oil cooler
- Extending undercarriage
- Rubber track 250 mm (10 in) wide
- Automatic swing park brake
- Dozer float
- Standard stick

### Optional Equipment

Optional equipment may vary. Consult your Cat dealer for details.

- Cab, radio ready – ROPS and TOPS protection, heater/defroster and windscreen washer/wiper
- Suspension seat, fabric covered
- Boom stick or dozer blade check valve
- Removable swing stop
- Mirror pack
- Additional hydraulic circuit diverted from bucket cylinder
- Cab top guard to ISO 10262 (Level 1)
- Auto engine idle
- Joystick mounted proportional auxiliary control with flow control
- Long stick
- Cab/canopy lights
- Second auxiliary lines
- Long dozer blade





For more complete information on Cat products, dealer services, and industry solutions, visit us on the web at [www.cat.com](http://www.cat.com)

AEHQ7029 (07-2013)

© 2013 Caterpillar Inc.  
All rights reserved

Materials and specifications are subject to change without notice. Featured machines in photos may include additional equipment. See your Cat dealer for available options.

CAT, CATERPILLAR, SAFETY.CAT.COM, their respective logos, "Caterpillar Yellow" and the "Power Edge" trade dress, as well as corporate and product identity used herein, are trademarks of Caterpillar and may not be used without permission.

