



Cat[®] 305D CR

MINI HYDRAULIC EXCAVATOR

FEATURES:

The Cat[®] 305D CR Mini Hydraulic Excavator delivers high performance in a compact design to help you work in the tightest applications. The 305D CR features the following:

- **Spacious, comfortable operator station** provides superior legroom and excellent visibility to minimize fatigue.
- **Compact radius design** keeps the radius of the upper body within 100 mm (4 in) of the undercarriage so the operator can concentrate on the job without worrying about the back of the machine.
- **High digging forces, fast cycle times and increased stability** boost your productivity.
- **Load sensing hydraulics** provide smooth, powerful performance as well as increased fuel efficiency.
- **Fingertip control for the boom swing and auxiliary hydraulic functions** makes operation easier while providing more foot room.
- **Choice of stick lengths** are available to meet your application needs. Sticks come “thumb-ready” as standard with brackets and relief valves installed from the factory (optional in Europe).
- **Automatic 2-speed** improves maneuverability around the job site by balancing high speed and torque travel requirements.
- **Angle dozer blade** option can be positioned straight ahead or up to 25 degrees to the left or right for greater machine versatility.
- **Over 200 degrees of bucket rotation** provides greater material retention during truck loading and easier vertical wall digging without having to reposition the machine.
- **A variety of Cat Work Tools** are available including hammers, augers and thumbs. The Cat Quick Coupler makes work tool changes fast and easy.

Specifications

Engine

Engine Model	Mitsubishi S4Q2	
Rated Net Power (ISO 9249)	31 kW	42 hp
Gross Power	32.2 kW	43 hp
Bore	88 mm	3.5 in
Stroke	103 mm	4.1 in
Displacement	2.5 L	153 in ³

Weights*

Operating Weight with Canopy	4995 kg	11,012 lb
Operating Weight with Cab	5155 kg	11,365 lb

* Weight includes rubber tracks, bucket, operator, full fuel and auxiliary lines.

Travel System

Travel Speed – High	4.6 km/h	2.8 mph
Travel Speed – Low	2.7 km/h	1.7 mph
Maximum Traction Force – High Speed	24 kN	5,395 lb
Maximum Traction Force – Low Speed	45.2 kN	10,161 lb
Ground Pressure	28.5 kPa	4.1 psi

Service Refill Capacities

Cooling System	10.7 L	2.8 gal
Engine Oil	8.2 L	2.2 gal
Fuel Tank	70 L	18.5 gal
Hydraulic Tank	48 L	12.7 gal
Hydraulic System	78 L	20.6 gal

Hydraulic System**

Pump Flow at 2,400 rpm	120 L/min	31.7 gal/min
Operating Pressure – Equipment	245 bar	3,553 psi
Operating Pressure – Travel	245 bar	3,553 psi
Operating Pressure – Swing	185 bar	2,690 psi
Auxiliary Circuit – Primary (186 bar/2,734 psi)	70 L/min	18.5 gal/min
Auxiliary Circuit – Secondary (174 bar/2,524 psi)	35 L/min	9.3 gal/min
Digging Force – Stick (standard)	24.7 kN	5,550 lb
Digging Force – Stick (long)	21.3 kN	4,788 lb
Digging Force – Bucket	44.7 kN	10,050 lb

** Load sensing hydraulics with variable displacement piston pump.

Swing System

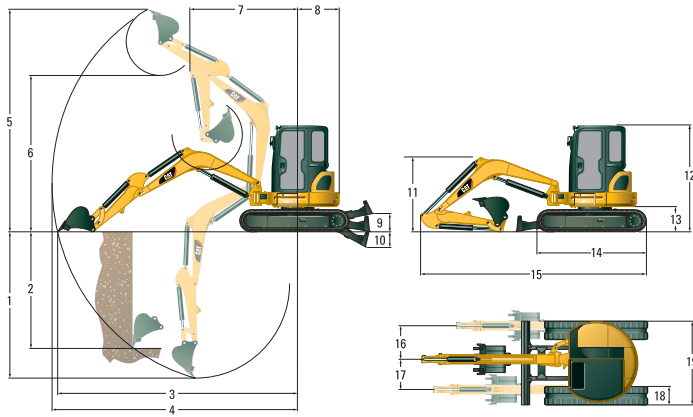
Machine Swing Speed	9 rpm
Boom Swing – Left (without stop)	80°
Boom Swing – Left (with stop)	60°
Swing – Right	50°

Blade

Width	1980 mm	78.0 in
Height	375 mm	14.8 in
Dig Depth	555 mm	21.9 in
Lift Height	405 mm	15.9 in



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Dimensions

	Standard Stick		Long Stick	
1	3280 mm	10'9"	3670 mm	12'1"
2	2320 mm	7'7"	2630 mm	8'8"
3	5430 mm	17'10"	5810 mm	19'1"
4	5600 mm	18'5"	5960 mm	19'7"
5	5250 mm	17'3"	5440 mm	17'10"
6	3720 mm	12'2"	3920 mm	12'10"
7	2350 mm	7'8"	2530 mm	8'3"
8	1100 mm	3'7"	1100 mm	3'7"
9	405 mm	1'4"	405 mm	1'4"
10	555 mm	1'10"	555 mm	1'10"
11	1750 mm	5'9"	2150 mm	7'0"
12	2550 mm	8'4"	2550 mm	8'4"
13	615 mm	2'0"	615 mm	2'0"
14	2580 mm	8'5"	2580 mm	8'5"
15	5180 mm	17'0"	5290 mm	17'4"
16	785 mm	2'7"	785 mm	2'7"
17	695 mm	2'3"	695 mm	2'3"
18	400 mm	1'4"	400 mm	1'4"
19	1980 mm	6'6"	1980 mm	6'6"

Lift Capacities at Ground Level*

Lift Point Radius		3000 mm (9'8")		4500 mm (14'9")	
		Front	Side	Front	Side
Blade Down	kg	2420	1340	1370	760
	(lb)	(5,335)	(2,954)	(3,020)	(1,675)
Blade Up	kg	1580	1200	880	690
	(lb)	(3,483)	(2,645)	(1,940)	(1,521)

* 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. Lifting capacities are for standard stick.

STANDARD EQUIPMENT

- 1-way and 2-way (combined function) auxiliary hydraulic lines
- Adjustable wrist rests
- Alternator
- Automatic engine idle
- Automatic swing park brake
- Automatic two speed travel
- Auxiliary line quick disconnects
- Boom cylinder guard
- Boom mounted work light
- Canopy with FOPS ISO 10262 (Level 1), Tip-Over Protection (TOPS) ISO 12117
- Coat hook
- Cup holder
- Control pattern changer (not available in Europe)
- Dozer blade with float function
- Floor mat
- Foot travel pedals
- Gauges or indicators for fuel level engine coolant temperature, hour meter, engine oil pressure, air cleaner, alternator and glow plugs, service interval
- Horn
- Hydraulic oil cooler
- Lifting eye on bucket linkage (optional in Europe)
- Lockable storage box
- Low maintenance linkage pin joints
- Maintenance free battery
- Rubber track
- Seatbelt, 76 mm (3 in) wide, retractable (optional in Europe)
- Standard stick
- Suspension seat, vinyl covered
- "Thumb ready" sticks (standard equipment for all regions except Europe)
- Travel alarm (optional in Europe)

OPTIONAL EQUIPMENT

- Air conditioning
- Angle dozer blade with float function
- Beacon socket for canopy machines
- Boom check valve (Europe only)
- Boom mounted light
- Cab, radio ready with FOPS ISO 10262 (Level 1), Tip-Over Protection (TOPS) ISO 12117, heater/defroster, interior light and windshield wiper/washer
- Ecology drain valve for hydraulic tank
- Ecology drain valve for engine oil
- Fan and sun blind installation
- Front screen guard for cab and canopy
- High back suspension seat, fabric covered
- Hydraulic quick coupler lines
- Long stick
- Mechanical quick coupler
- Mirrors for cab and canopy
- Secondary auxiliary hydraulic lines
- Steel track and steel track with rubber pads

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