

Advantage: Cat

Cat® 308E2 CR Mini Hydraulic Excavator vs. Komatsu PC 88/Kubota KX 080-4/Bobcat E85/John Deere 85G



CAT VS. KOMATSU

Caterpillar:

- Swing boom operated by joystick
- Pattern changer* located within the COMPASS monitor; can be changed at touch of button from operator seat
- Continuous auxiliary flow control; allows steady control and ease of work tool operation
- Blade float allows the blade to drag backwards to easily smooth the site
- Anti-theft security system is standard; built into COMPASS monitor
- Stick breakout force of 40.1 kN (9,015 lbf) is 9% greater. Translating to stronger force and pressure to free an object or load from material it is surrounded or imbedded in, allowing operator to perform productively.

Komatsu:

- Swing boom activated by floor pedal
- Pattern change valve is located outside operator station and must be selected by operator prior to operating
- Continuous flow to work tool setting not available
- Blade float functionality not available
- Security system is optional and not built into monitor
- The 36.3 kN (8,161 lbf) breakout force is less than Cat® specification which provides less force to penetrate the ground or engage a load

CAT VS. KUBOTA

Caterpillar:

- Ergonomic layout of joystick controls and monitor decreases operator fatigue, increases productivity
- Swing boom operated by joystick
- COMPASS monitor, a standard feature, informs operator through full color pop up screens to appropriately maintain engine and Diesel Particulate Filter (DPF)/Diesel Oxidation Catalyst (DOC) components as part of the U.S. EPA Tier 4 Final/EU Stage IIIB solution
- Easy to access ground level service points
- Increased service intervals reduce owning and operating costs
- Compact radius design offers a small overhang, providing flexibility for various work sites, reducing risk of damage to machine and job site obstacles

Kubota:

- Digital panel is located further from joystick controls and mounted lower in relation to operator seat, making monitor less accessible than in the Cat machine
- Swing boom activated by floor pedal
- Digital panel provides limited information to the operator such as when engine rpm must be increased or a DPF service is required
- Some service areas may be difficult to access and may require stool or step
- Shorter service intervals may increase owning and operating costs
- Reduced radius version has larger overhang than Cat

CAT VS. BOBCAT

Caterpillar:

- Pattern changer* located within the COMPASS monitor; can be changed at touch of button from operator seat
- Swing boom operated by joystick
- Unlimited time setting on security system eliminates need to enter passcode at each machine start up, maximizing productivity
- Offers balanced stick and bucket breakout forces. This balance offers smooth control in both digging and lifting applications.
- Increased service intervals reduce owning and operating costs
- Higher horsepower of 66.7 (49.7 kW) and a turbocharger. Leads to great performance, productivity and efficiency.

Bobcat:

- Pattern change selection is located beneath operator seat and not within monitor
- Swing boom activated by floor pedal
- Operator must enter pass code into security system at each start up
- Offers a bucket digging force which is 44% higher than the stick digging force. The variability between the two impacts the smoothness of operation required for productivity.
- Shorter service interval may increase owning and operating costs
- Lower horsepower of 59.4 (44.2 kW) and no turbocharger

CAT VS. DEERE

Caterpillar:

- Camera is a standard feature on all 308E2 Tier 4 Final machines – In addition to increased safety on the job site, the camera can be used for positioning
- Pattern changer* located within COMPASS monitor; can be changed at a touch of a button from operator's seat
- Swing boom operated by joystick
- Stick breakout force of 40.1 kN (9,015 lbf) is 23% greater – Higher breakout force allows for faster material loading and better penetration, resulting in more productivity
- Higher horsepower of 48.5 kW (65 hp) leads to great performance, productivity and efficiency

Deere:

- Camera is available, but only as an option
- Pattern change selection is located behind compartment panel and is not within the monitor
- Swing boom activated by floor pedal
- 30.7 kN (6,902 lbf) breakout force is less than Cat specification which provides less force to penetrate the ground or engage the load
- Lower horsepower of 42.4 kW (56.9 hp)

*Pattern changer feature not available in Europe

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Specifications

	Cat 308E2 CR	Komatsu PC 88 MR-10	Kubota KX 080-4	Bobcat E85	John Deere 85G
ENGINE MANUFACTURER	Caterpillar	Komatsu	Kubota	Yanmar	Yanmar
ENGINE MODEL	C3.3B	SAA4D95LE-6	V3800DI	4TNV98C	4TNV98C
DISPLACEMENT – L (in ³)	3.33 (203.2)	3.26 (199)	3.331 (203.2)	3.319 (202.5)	3.3 (202)
NET ENGINE OUTPUT – kW (hp)	48.5 (65)	48.8 (65.5)	50.2 (67.3)	—	42.4 (56.9)
GROSS ENGINE OUTPUT – kW (hp)	49.7 (66.6)	50.7 (67.9)	52.2 (70)	44.2 (59.4)	—
EMISSIONS	Tier 4 Final/ Stage IIIB	Tier 4 Final/ Stage IIIB	Tier 4 Final/ Stage IIIB	Tier 4 Final/ Stage IIIB	Tier 4 Final/ Stage IIIB
TRACK SHOE WIDTH – mm (in)	450 (18)	450 (18)	450 (17.7)	450 (17.7)	450 (18)
TRANSPORT LENGTH – mm (ft/in)	6380 (20'11")	6350 (20'10")	6450 (21'2")	6248.4 (20'6")	6820 (22'5")
TRANSPORT HEIGHT WITHOUT BOOM – mm (ft/in)	2550 (8'4")	2730 (8'11")	2540 (8'4")	2641.6 (8'8")	2610 (8'7")
MAXIMUM DIGGING REACH – mm (ft/in)	7350 (24'1")	7345 (24'1")	7330 (24'1")	7023 (23'1")	7700 (25'3")
GROUND LEVEL REACH – mm (ft/in)	7540 (24'9")	7150 (23'5")	7170 (23'6")	7264 (23'10")	7550 (24'9")
DIG DEPTH – mm (ft/in)	4690 (15'5")	4615 (15'2")	4600 (15'1")	4724 (15'6")	4510 (14'10")
FUEL TANK CAPACITY – L (gal)	125 (33)	125 (33)	115 (30.4)	110 (29.1)	120 (31.7)
HYDRAULIC TANK CAPACITY – L (gal)	82 (21.7)	56 (14.8)	75 (19.8)	148 (32.5)	56 (15)
GROUND BEARING PRESSURE – kPa (psi)	36.3 (5.26)	38.2 (5.5)	35.9 (5.22)	38.2 (5.5)	41.5 (6.0)
MAXIMUM STICK BREAKOUT – kN (lbf)	40.1 (9,015)	36.3 (8,161)	38.1 (8,565.2)	35.8 (8,069)	30.7 (6,902)
MAXIMUM BUCKET BREAKOUT – kN (lbf)	60.2 (13,534)	61.3 (13,781)	65.2 (14,657)	64.5 (14,509)	46.6 (10,476)
MAIN PUMPS MAXIMUM FLOW – L/min (gal/min)	150 (39.6)	160 (42.2)	210.6 (55.6)	151 (40.1)	200 (53)
MACHINE WEIGHT – kg (lb)	8400 (18,519)	8580 (18,916)	8195 (18,105)	8600 (18,960)	8701 (19,182)

Cat Advantage: COMPASS Control Panel



Complete Operation, Maintenance, Performance And Security System

- Standard feature
- One monitor with built in rearview camera as standard – one interface to do it all
- Passcode protected security system; anti-theft device, master plus five user codes
- Adjustable auxiliary work tool flow control; adjust flow to work tool with simple push of button
- Continuous flow; maintain hydraulic flow to work tool at any flow and in any direction
- Power on demand – full time efficiency, power when you need it
- Push button pattern changer; safe and easy
- Access to maintenance and performance information; keep track of various maintenance intervals and performance parameters
- Security system can be set to require password for start up after one minute between key off and key on or “unlimited” meaning no password required
- Ability to set up “short cut” button for most commonly used features
- Site reference system aids in grading and trenching
- Auto engine shutdown; conserves fuel and reduces emissions
- Courtesy light allows the operators to exit the job site safely

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