

Advantage: Cat

Cat® 301.7D/302.4D Mini Hydraulic Excavators vs. Kubota KX18-4/KX71 Mini Hydraulic Excavators



OPERATOR STATION

Caterpillar:

- Versatile front window system – bottom glass slides in top glass. Full unit stores in roof of cab.
- Easily adjustable wrist rests with no tools required.
- Travel alarm for job site safety – standard.

Kubota:

- Bottom window is not removable or able to store within cab.
- Wrist rests require tool for adjustment.
- Travel alarm \$300+ option.

UNDERCARRIAGE

Caterpillar:

- Dozer float for site prep and clean up offered as standard.
- Blade wings attached, pivot and pin within blade (301.7D).

Kubota:

- No dozer float available.
- Blade wings detach from blade (KX18-4).

HYDRAULICS

Caterpillar:

- Auxiliary lines and quick disconnects standard for easy work tool installation.
- 100% Pilot Controls.

Kubota:

- Auxiliary lines and quick disconnects are optional.
- Mechanically controlled travel, auxiliary and boom swing.

SERVICEABILITY

Caterpillar:

- Maintenance and service access easy to locate.
- 500 hour service interval, engine oil and filters.

Kubota:

- Limited access to maintenance points.
- 300 hour service interval, engine oil and filters.

TRANSPORT

Caterpillar:

- Two point lifting for access to any job site.

Kubota:

- No two point lifting provided on machine.

PERFORMANCE

Caterpillar:

- Caterpillar uses a single pin position to meet breakout specifications and maintain industry leading bucket rotation of 190 degrees in the less than three ton models.
- 15% greater stick and bucket forces (301.7D).

In trenching productivity study:

- 7% more productive.
- 40% more fuel efficient (302.4D).

Kubota:

- Kubota utilizes two pin positions: power and lift to meet various breakout specification requirements.
- Decreased stick and bucket breakout forces (KX18-4).

In trenching productivity study:

- 7% less productive.
- Less fuel efficient (KX71).

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Specifications

| | Cat 301.7D | Kubota KX18-4 | Cat 302.4D | Kubota KX71 |
|-------------------------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ENGINE | | | | |
| ENGINE MAKE/ENGINE MODEL | Yanmar 3TNV76 | Kubota D902-BH-E4 | Yanmar 3TNV76 | Kubota V1505 |
| EMISSION RATING | Tier 4 Final | Tier 4 Final | Tier 4 Final | Tier 4 Final |
| NET POWER – kW (hp) | 13.2 (17.7) | 12 (16.1) | 13.2 (17.7) | 17.2 (23.1) |
| DISPLACEMENT – L (in ³) | 1.116 (68.1) | 0.898 (54.8) | 1.116 (68.1) | 1.498 (91.4) |
| POWER TRAIN | | | | |
| TYPE | Hydrostatic | Hydrostatic | Hydrostatic | Hydrostatic |
| MAXIMUM TRAVEL SPEED – km/h (mph) | 5.6 (3.48) | 4.0 (2.6) | 4.0 (2.5) | 4.6 (2.9) |
| HYDRAULIC SYSTEM | | | | |
| PUMP TYPE | Variable Displacement | Variable Displacement | Variable Displacement | Variable Displacement |
| PUMP FLOW – L/min (gal/min) | 39.6 (10.5) | 51.8 (13.7) | 78 (20.6) | 81 (21.4) |
| AUXILIARY FLOW | 30 (8) | 27.7 (7.32) | 30 (8) | 49.5 (13.1) |
| DIMENSIONS | | | | |
| MAXIMUM DIGGING REACH – m (ft) | 3.895 (12'9") | 3.86 (12'8") | 4.22 (13'10") | 4.88 (16'0") |
| MAXIMUM DIGGING DEPTH – m (ft) | 2.4 (7'11") | 2.38 (7'9.7") | 2.6 (8'6") | 2.97 (9'9") |
| BUCKET DIGGING FORCE – kN (lbf) | 18.8 (4,226) | 16.3 (3,594) | 21.8 (4,900) | 28.8 (6,350) |
| ARM DIGGING FORCE – kN (lbf) | 9.8 (2,203) | 8.4 (1,852) | 13.3 (2,990) | 14.9 (3,285) |
| WEIGHT | | | | |
| SAE OPERATING WEIGHT – kg (lb) | 1735 (3,825) | 1700 (3,748) | 2210 (4,872) | 2860 (6,305) |

Cat Advantage: Dozer Float – Standard



Cat Mini Hydraulic Excavators are equipped with a detent on blade control valve; push the blade lever all the way forward for blade float. This opens both ports on the blade cylinder which allows it to move freely up and down.

Benefit:

- With blade float, the operator can drag the blade backwards (away from the cutting edge side) and the blade will “float” along the contour of the ground.
- The primary application of blade float is for smoothing the dirt after grading and backfilling holes.

Value to Customer:

- Leave the worksite with a professional finish and the ground prepped for the next step.
- Save time. Eliminate extra work and additional machines needed to smooth the dirt.

Kubota does not offer dozer float.



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