

**Compact Crawler Excavator**

|                         |  |
|-------------------------|--|
| <b>OPERATING WEIGHT</b> | 16,538 -17,086 lbs<br>(7,500 - 7,750 kg) |
| <b>NET ENGINE POWER</b> | 72 hp<br>(53 kW)                         |
| <b>MAX DIG DEPTH</b>    | 14' 7" (4.44 m)                          |
| <b>MAX REACH</b>        | 24' 5" (7.44 m)                          |



**COMPACT CRAWLER EXCAVATOR**  
**TC75**

**Operating Data, Standard Equipment**

|                                    |                                     |
|------------------------------------|-------------------------------------|
| Operating weight (rubber crawlers) | 16,538 lbs (7,500 kg)               |
| Operating weight (steel crawlers)  | 17,086 lbs (7,750 kg)               |
| Overall length (travel position)   | 13' 7" (4.2 m)                      |
| Overall height (travel position)   | 14' 3" (4.3 m)                      |
| Total length (transport position)  | 19' 9" (6.0 m)                      |
| Total width with dozer blade       | 7' 6" (2.3 m)                       |
| Total height (top of cab)          | 8' 9" (2.7 m)                       |
| Tread width                        | 6' 2" (1.9 m)                       |
| Ground clearance                   | 16" (408 mm)                        |
| Uppercarriage tailswing            | 3' 10" (1.2 m)                      |
| Uppercarriage front swing          | 7' 7" (2.3 m)                       |
| Working envelope, 180°             | 11' 5" (3.5 m)                      |
| Working envelope, 360°             | 15' 1" (4.6 m)                      |
| Bucket force (SAE J 1179)*         | 11,970 lbs (53,200 N)               |
| Stick force (SAE J 1179)*          | 9,585 lbs (42,600 N)                |
| Ground pressure                    | 4.4 psi (0.31 daN/cm <sup>2</sup> ) |

\*Standard equipment, may vary with different bucket.

## Specifications

| Engine                                     |  |
|--|--|
| Manufacturer, model                        | Deutz, KHD BF 4 M                      |
| Type                                       | 4-cylinder, turbocharged diesel engine |
| Combustion                                 | 4-stroke, direct injection             |
| Displacement                               | 195 in <sup>3</sup> (3.2 L)            |
| Net power rating at 2,000 rpm (SAE J 1349) | 73 hp (54 kW)                          |
| Cooling system                             | Oil                                    |

| Electrical System |                       |
|-------------------|-----------------------|
| Nominal voltage   | 12 V                  |
| Battery           | 12 V / 105 Ah / 450 A |

| Power Transmission  |  |
|---|--|
| Hydrostatic drive with reduction gear. Gear-integrated multi-disc brake acting as service and parking brake, automatically hydraulically bled; 2-stage variable displacement motor, full power shift. |  |
| 2 speed ranges:   |  |
| Travel speed forward/reverse  | 0 – 1.7 mph (0 – 2.7 km/h)<br>0 – 3.2 mph (0 – 5.2 km/h) |
| Gradeability  | > 60%  |
| Drawbar pull  | 13,613 lbs (60.5 kN)                                     |

| Undercarriage  |                                  |
|--|----------------------------------|
| Maintenance-friendly crawler-type undercarriage with triple grouser plates or rubber crawlers. Idler suspension with hydraulic crawler tensioning. |                                  |
| Steel crawlers / rubber crawlers   | 18" / 18" (450 / 450 mm)         |
| Total length (sprocket/idler)  | 7' 2" / 7' 4" (2,202 / 2,247 mm) |
| Total length (undercarriage)   | 9' 4" (2.9 m)                    |

| Dozer Blade   |               |
|---|---------------|
| Independent from drive train, sensitive control via hand lever. |               |
| Width   | 7' 6" (2.3 m) |
| Cut below ground  | 15" (390 mm)  |
| Lift above ground   | 20" (500 mm)  |
| Slope angle   | 35°           |

| Steering  |  |
|---|--|
| Independent control of tracks via hand controls or foot pedals. |  |

| Swing System   |            |
|--|------------|
| Hydrostatic drive with 2-stage planetary gear and fixed axial piston displacement motor. In addition, automatically controlled spring-loaded multi-disc brake acts as swing brake when the pilot control lever is in neutral position. |            |
| Swing speed  | 0 – 10 rpm |

## Hydraulic System

|   |                            |
|---|----------------------------|
| <b>Working hydraulics:</b> Axial piston pump with load-sensing, coupled with a load-independent flow division (LUDV). Simultaneous, independent control of all movements. Sensitive maneuvers irrespective of loads.  |                            |
| Maximum working pressure  | 4,060 psi (280 bar)        |
| Pump capacity   | 41 gpm (156 Lpm)           |
| Gear pump for all positioning and swing movements.  |                            |
| Pump capacities   | 18 gpm (68 Lpm)            |
| Maximum working pressure  | 3,335 psi (230 bar)        |
| Tank-immersed return filter with electric contamination indicator and full flow filtration. Hydraulic oil radiator provided as standard. Boom, dipperstick and articulated cylinders with end-position damping on both sides and bucket retract function with one-side end-position damping. Two-way auxiliary control circuit for work attachments provided as standard. |                            |
| <b>Auxiliary hydraulics:</b>  |                            |
| Maximum working pressure  | 4,060 psi (280 bar)        |
| Flow (adjustable)   | maximum 26.4 gpm (100 Lpm) |
| Additional two-way auxiliary circuit is available through a switch-over on the bucket circuit. Open (pressureless) return as standard. All functions can be activated proportionally. Two servo-assisted joystick controls for excavator operations. Shut-off of all working functions when dismounting the machine.  |                            |
| A/B control pattern switch standard.  |                            |
| Hose rupture safety valves associated with overload warning device on boom cylinder standard.   |                            |

## Knickmatik®

|  |                         |
|--|-------------------------|
| Boom offset to provide lateral parallel adjustment at full digging depth |                         |
| Angle of artic./ lateral adjustment left                                 | 63°/2' 8" (63°/ 815 mm) |
| Angle of artic./ lateral adjustment right                                | 65°/3' 1" (65°/ 950 mm) |

## Cab

Spacious, sound-insulated full-vision steel cab with large access door. Safety glass windows, thermo windows tinted in green. Skylight thermo window. Front window supported by pneumatic springs, lockable in place for ventilation and slideable under cab roof. Windshield washer. Glove box. Instrument panel to the right of the operator's seat with visual and acoustic warning device. Left-hand, outside rear-view mirror. Cab heating with windshield defroster through coolant heat exchanger and 3-setting fan and ventilating mode in summer. Fabric-covered, hydraulically cushioned operator's seat with height-adjustable armrests, height, tilt and weight adjustments and seat belt.

Working floodlight Halogen H-3.

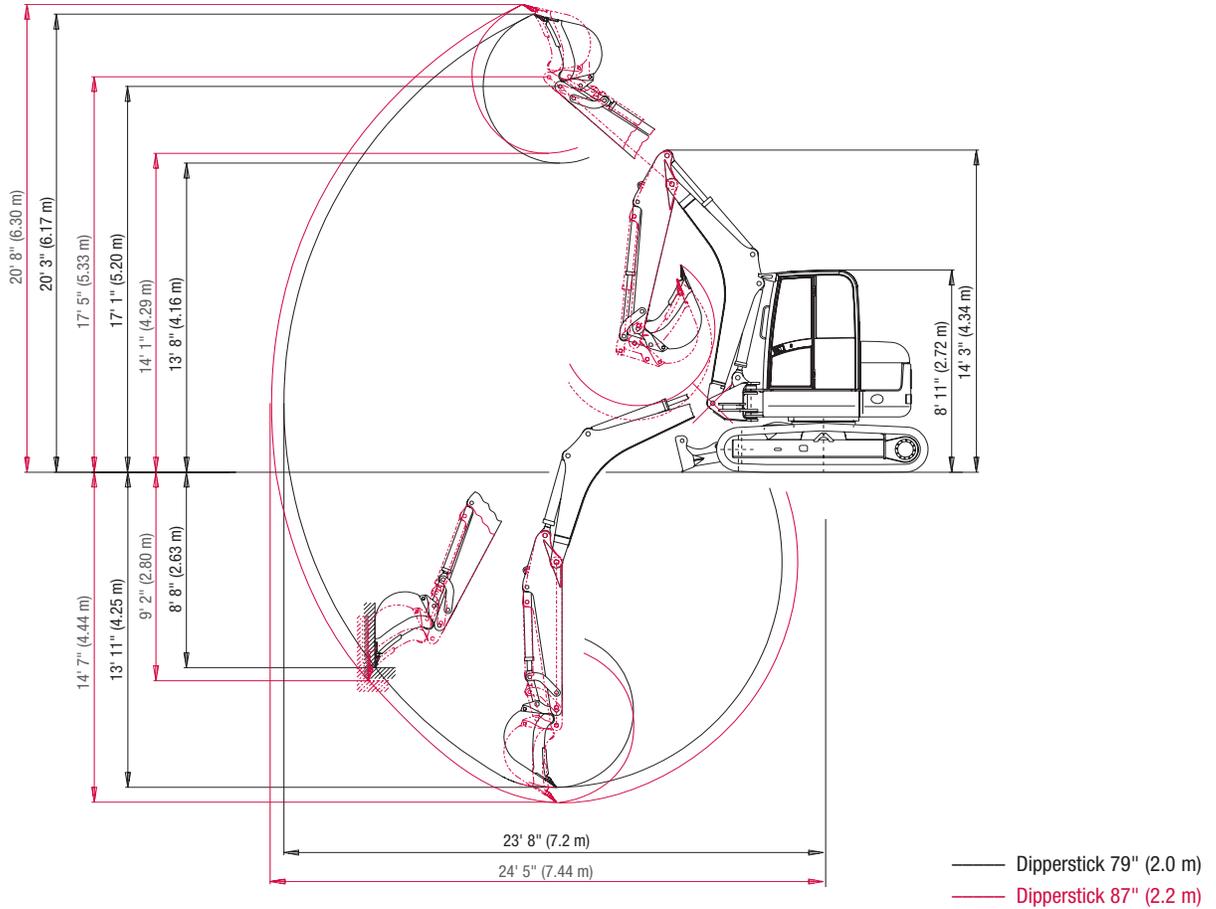
Noise emission ambience LWA / Noise emission cab LpA 101/ 77 dB (A)

Optional FOPS approved skylight guard available.

## Fluid Capacities

|                  |                |
|------------------|----------------|
| Fuel tank        | 34 gal (130 L) |
| Hydraulic system | 37 gal (140 L) |

**Working Ranges & Dimensions**



**Lifting Capacities: 79" (2.0 m) Dipperstick**

| Unit: x 1,000 lbs (Metric tons) |                    | Load radius from the center of the ring gear |             |                |             |                |             |                |             |
|---------------------------------|--------------------|--|-------------|----------------|-------------|----------------|-------------|----------------|-------------|
| Bucket hinge pin height         |                    | 9' 10" (3.0 m)                               |             | 13' 1" (4.0 m) |             | 16' 5" (5.0 m) |             | 19' 8" (6.0 m) |             |
|                                 |                    | End  | Side        | End            | Side        | End            | Side        | End            | Side        |
| 9' 10" (3.0 m)                  | Supported by blade | —  | —           | 5.55 (2.52)    | 3.37 (1.53) | 4.32 (1.96)    | 2.20 (1.00) | —              | —           |
|                                 | Traveling          | —  | —           | 3.31 (1.65)    | 3.31 (1.50) | 2.49 (1.13)    | 2.18 (0.99) | —              | —           |
| 4' 11" (1.5 m)                  | Supported by blade | 7.14 (3.24)                                  | 5.14 (2.33) | 5.75 (2.61)    | 3.13 (1.42) | 4.72 (2.14)    | 2.14 (0.97) | 3.83 (1.74)    | 1.52 (0.69) |
|                                 | Traveling          | 4.96 (2.25)                                  | 5.07 (2.30) | 3.50 (1.59)    | 3.06 (1.39) | 2.34 (1.06)    | 2.07 (0.94) | 1.65 (0.75)    | 1.48 (0.67) |
| 0                               | Supported by blade | 11.68 (5.30)                                 | 3.97 (1.80) | 7.01 (3.18)    | 2.82 (1.28) | 4.98 (2.26)    | 1.98 (0.90) | 3.64 (1.65)    | 1.50 (0.68) |
|                                 | Traveling          | 4.85 (2.20)                                  | 3.97 (1.80) | 3.11 (1.41)    | 2.71 (1.23) | 2.18 (0.99)    | 1.92 (0.87) | 1.61 (0.73)    | 1.43 (0.65) |
| -3' 3" (-1.0 m)                 | Supported by blade | 10.14 (4.60)                                 | 3.97 (1.80) | 6.46 (2.93)    | 2.42 (1.10) | 4.63 (2.10)    | 1.89 (0.86) | 3.24 (1.47)    | 1.46 (0.66) |
|                                 | Traveling          | 4.56 (2.07)                                  | 3.75 (1.70) | 2.91 (1.32)    | 2.42 (1.10) | 2.07 (0.94)    | 1.85 (0.84) | 1.59 (0.72)    | 1.39 (0.63) |

The above loads (all values in lbs x 1,000 resp. metric tons) are in compliance with SAE J 1097. They do not exceed 87% of hydraulic lifting capacity or 75% of tipping capacity. In each case, the smaller value is indicated. All values were determined with load hook. In the event of an attached bucket the difference weights bucket minus load hook must be deducted from the permissible payloads. When used for crane operations, excavators must be equipped with hose-rupture safety valves and overload warning device. Working equipment: Rubber crawlers, dipperstick 79" (2.0 m).

# Compact Crawler Excavator TC75

## Attachments / Accessories

| Optional Accessories  |             |
|---|-------------|
| Mechanical quick-coupler system for work tools (QMH)        |             |
| Dipperstick   | 87" (2.2 m) |
| Quick-change adapter for hydraulic hammer                   |             |
| FOPS skylight guard   |             |
| Independent diesel heating with timer                       |             |
| Electrical tank refueling pump                              |             |
| Filling with biodegradable hydraulic oil, ester-based VI 68 |             |
| Air-cushioned driver's seat                                 |             |
| Set of working floodlights (cab-mounted, front and rear)    |             |
| Hydraulic boom height limitation                            |             |
| Radio control   |             |
| Electric drive  |             |
| Hydraulic Hammer  |             |
| Sound-insulated. Tools: Moil point or chisel point          |             |

| Bucket Options                       |                  |          |
|--------------------------------------|------------------|----------|
| Pin-on Style / Quick Coupler         | Capacity cu. ft. | (Liters) |
| 12" (300 mm) H.D. Bucket             | 3.3              | 93       |
| 16" (400 mm) H.D. Bucket             | 4.2              | 119      |
| 18" (450 mm) H.D. Bucket             | 5.0              | 142      |
| 24" (600 mm) H.D. Bucket             | 7.2              | 204      |
| 30" (760 mm) H.D. Bucket             | 9.5              | 269      |
| 48" (1,220 mm) Ditch-cleaning Bucket | 10.3             | 291      |

| Crawler-type Options   |              |
|------------------------|--------------|
| Steel crawlers (width) | 18" (450 mm) |
| Steel crawlers (width) | 24" (600 mm) |



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