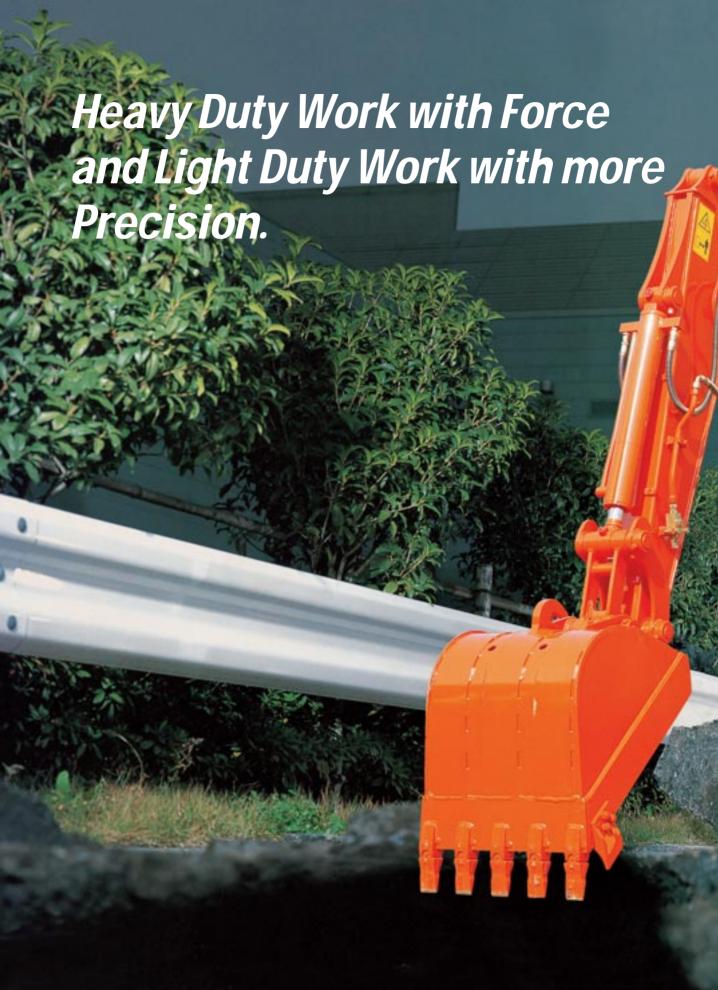


50L085V









Convenient and Comfortable Operation!

This standard-duty machine, offers a spacious operating area that is only found in medium and heavy-duty machines. The working controls in the cabin are ergonomically designed to ensure convenience and comfort for the operator. Resulting in operator comfort and convenient operation.

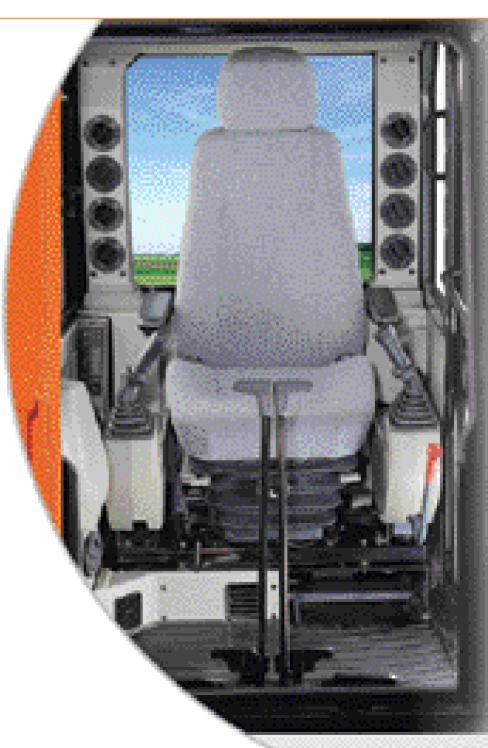


Comfortable Operating Area
The internal operating controls are arranged in a convenient and ergonomic fashion. This allows for maximized operating efficiency. A large capacity air-conditioning system has been installed for operator comfort in all seasons. The open and spacious cabin provides the operator with a wide field of view for the best possible working conditions.



Rectangular Structure Cabin

For safety purposes and to protect the operator against falling objects at various working sites, the cabin structure is designed in a rectangular shape, ensuring operator safety.





 Vents are located in the left and right side of the rear sections.



High-Output Air-Conditioner and Defroster

The air-conditioner capacity has been greatly improved and the vents have been installed at both the front and rear of the operator's seat to maximize air-conditioning efficiency. A defroster has been installed to prevent the front windshield from becoming frosted in the cold season resulting in safer operation.



Left and Right Control Stands



. Front Defroster and Lower Vent



Fixed-Type Instrument Panel

Compact and elegantly designed central instrument panel makes it easy to check for various implements.

Gauges

- ① Digital Clock
- ② Engine Gauge
- (3) Fuel Gauge
- (4) Hour Meter Warning Pilot
- (5) Engine Oil Pressure Warning Pilot
- 6 Charging Warning Pilot
- (7) Engine Coolant Temperature Warning Pilot
- (8) Clogging Air Cleaner Filter Warning Pilot
- Fuel Warning Pilot
- 1 Glow Plug Pilot



Control Levers and Switches

Hydraulic joystick type lever is adopted for convenient control, and ensures precise control and excellent maneuverability. Various switches are centrally arranged to the right side of the seat for improved accessibility.

Various Convenience Devices



• Flexible Antenna



. High-end Car Stereo



• Footwear Storage Box



• Handle Release Device



• Foot Rest/Travel Pedal



• Cup Holder

Best Performance Ensured at Any Work

SOLAR 55-V plus ensures best performance with powerful excavating force and high-tech hydraulic system for better operation efficiency at any work site! Excellent performance is its basic feature! Its excellent performance with safety and convenience taken into account will help safe and convenient operation.



Powerful Excavating Force
Powerful excavating force of
3.74 tons from the 53PS
engine achieves excellent performance quickly within a
short time under any working
conditions. In addition, a rpm
controlling lever is installed
on the left control lever in the
cabin to make it easy to control working speed.

Composite Operation Capability Improved Maximum combined operation capability is guaranteed by a sophisticated engine and hydraulic control system. This system allows the engine and hydraulic system to be controlled to fit various working environments such as excavating or lifting operations requiring high pressure and large hydraulic flow or grading operations requiring low pressure and small hydraulic flow rate.



Breaker-Dedicated Line Installed

The hydraulic pipes have been installed up to the front end of the arm as standard equipment, for easy installation of the hydraulic breaker. A lock device is mounted on the end of the hydraulic line to prevent leakage of hydraulic oil when connecting the breaker.



RPM control lever





SOLAZ SSV





Bucket End and Dozer Blade Arrangement

The bucket end is designed to reach the dozer blade when the arm is folded. This feature improves efficiency in grading operation as well as stone lifting operation.



Large-Capacity Fuel Tank

This machine is equipped with a large-capacity fuel tank (115 liter) enabling continuous operation for two days before refueling. The fuel port has been raised in height to prevent oil leak when operating on a slope.



Large-capacity Dozer Blade

This machine is equipped with a large-capacity dozer blade (350 x 1,880 mm) ensuring excellent earth-moving operation. Its powerful dozer blade force can be used efficiently for operations on a slope.



Ground Clearance

The ground clearance has been raised to 350mm to reduce possible damage to the bottom when traveling on a rough road or logging operation.



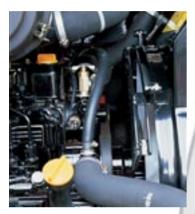
Dozer Blade Control Lever

The dozer blade control lever is positioned above the right-hand control stand to secure easy and convenient access.

Quick and Easy Maintenance of Optimal

Sturdy SOLAR 55-V Plus!

Special and scrupulous care has been given to even unseen features for trouble free operation and easy maintenance.



Fan Belt Easy Tension Adjustment and Replacement The spacious area around the fan belt enables easy tension adjustment and replacement. The mounted B-type belt has a greatly extended replacement interval.



Radiator

The large-capacity radiator provides excellent performance in severe and continuous operations. The assemblable dust net on oil-cooler front side prevents overheating from filth.



Dual-Filter Air Cleaner

The high-performance dual-filter air cleaner eliminates dust from entering the engine. The

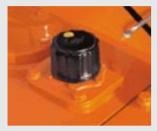


Engine Oil Filter The engine oil filter is attached to the engine body and extends out for easy maintenance.



Working Condition!





Air Breather The mounted large-capacity air breather prevents possible damage to the pump from cavitation.



Large-capacity Free Cleaner

The mounted large-capacity free cleaner helps minimize air load pressure to heighten engine efficiency.



Fuel Level Gauge

The fuel level gauge has been relocated to the lower section and makes it easy to check the remaining fuel level.



Auto Fuel Dispense Pump To reduce inconvenience in

dispensing fuel at the work site, an auto fuel dispense pump has been installed.



Air-Conditioner Belt Idle pulley is mounted so that it is easy to adjust belt tension and replace the belt.



Bonnet Protecting Cover

An over-sized protective cover is installed on both lower sides of the counterweight to prevent possible damage to the bonnet when operating in a mountainous region or any place having many obstacles. Also, a net protecting the engine compartment prevents entry of foreign objects.



Prefabricated Track Guard The track quard, which protects the vital track components is a prefabricated component and allows for easy

replacement.



Full Opening Hood Provides easy access for maintenance checks.

Technical Data

Engine

| Model | YANMAR 4TNE-94 |
|-------------------------------|--|
| Type | Water-cooled, 4-cycle, direct injection . |
| Aspiration | Natural |
| No. of cylinders | 4 |
| Rated flywheel horse power | |
| DIN 6271, gross DIN 6271, net | , , |
| SAE J1995, gross | |
| Piston displacement | 2,776cc (168.8 cu.in) |
| Maximum torque | 18.5 kgf.m (181.4 Nm, 133.7 lbf.ft) @ 1,400 rpm |
| Bore and stroke | 94 mm × 100 mm (3.7" × 3.9") |
| Starting systemBatteries | |



Hydraulic system

2 Variable displacement axial piston tandem type pumps.2 Gear pumps and control valve (9-spool) of section block construction.

This original design enables both independent and combined operations of all function, joystick control type operations.

| Main pumps ····· | 2 Variable displacement |
|-----------------------|---------------------------------------|
| | axial piston pump. |
| Max. oil flow ····· | 2-55 l/min |
| | (12.1 UK gpm, |
| | 14.5 US gpm) |
| Pilot pump ····· | Gear pump |
| Max. oil flow ····· | 9.9 l/min |
| | (2.17 UK gpm, |
| | 2.61 US gpm) |
| Swing motor | |
| Relief valve | 216 bar |
| | (3,129 psi, 220 kgf/cm ²) |
| Main relief valves | |
| Boom/Arm/Bucket ····· | 206 bar |
| | (2,986 psi, 210 kgf/cm ²) |

Travel circuit 206 bar



Hydraulic cylinders

High-strength piston rods and tubes are used. Cylinder cushion mechanism is provided for boom & arm cylinder to assure shock-free operation and extend life of cylinder.

| Cylinders | Q'ty | Bore _X Rod dia. _X Stroke |
|------------|------|--|
| Boom | 1 | 115 \times 60 \times 720mm (4.52" \times 2.36" \times 28.3") |
| Arm | 1 | $90\!\times\!60\!\times\!880\text{mm}$ (3.54" $\times2.36$ " $\times34.6$ ") |
| Bucket | 1 | $85 \times 55 \times 600$ mm (3.34" $\times 2.16$ " $\times 23.6$ ") |
| Dozer | 1 | 110 ×60 ×183mm (4.33" × 2.36" ×7.2") |
| Boom swing | 1 | 110 \times 55 \times 558mm (4.33" \times 2.16" \times 21.9") |



Super-structure revolving frame

A deep, full-reinforced box section. Heavy-gauge steel plates used for ruggedness.



Operator's cab

A roomy, independent, shock and noise-free operator's cab, 4 side safety glass windows give all-round visibility. Front window slides up and stores in the roof and side window can be opened for ventilation. Fully adjustable suspension seat. Air conditioner. ISO standard cab.

Noise Levels (dynamic value)

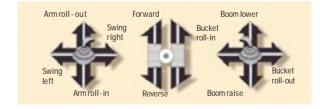
Lwa External noise

 $\begin{array}{ll} \mbox{Guaranteed Sound Power Level} & \mbox{101 dB (A) } \mbox{(2000/14/EC)} \\ \mbox{Measured Sound Power Level} & \mbox{100 dB (A) } \mbox{(2000/14/EC)} \\ \mbox{L}_{\mbox{PA}} & \mbox{Operator noise} & \mbox{81 dB (A) } \mbox{(ISO 6396)} \end{array}$



Controls. 2 implement levers

Pilot pressure control type. Right lever is boom and bucket control, left lever for swing and arm control.





(2,986 psi, 210 kgf/cm²)

2 Travel pedals with levers

Mechanical control type. Independent drive at each track allows counter-rotation of the tracks. Levers are detachable.





Swing mechanism

High-torque, axial piston motor with planetary reduction gear bathed in oil. Swing circle is single-row, shear type ball bearing with induction-hardened internal gear. Internal gear and pinion gear immersed in lubricant. Swing parking brake is spring-set, hydraulic-released disc type.

| Swing speed ····· | 0 to 9.0 rpm(min | 1) |
|-------------------|------------------|----|
| Rear swing radius | 1,650 mm(5'41") |) |



Each track is driven by an independent, high-torque, axial piston motor through planetary reduction gears. Two levers or foot pedal control provide smooth travel or counter-rotation upon demand.

| Travel speed (High/Low) 3.8/2.1 km/h (2.3/1.3 mph) |
|--|
| Maximum traction force 4,800 kgf (10,600 lbf) |
| Gradeability |



Undercarriage

Tractor type undercarriage. Heavy-duty track frame, all welded stress-relieved structure. Top grade materials are used for toughness. Side frames are welded, securely and rigidly, to the track frame. Lifetime-lubricated track rollers, idlers and sprockets with floating seals. Track shoes of induction-hardened rolled alloy with triple grousers. Specially heat-treated connecting pins. Hydraulic track adjusters with shock-absorbing recoil springs.

Number of rollers and shoes (each side)

| Upper rollers | ∙1 |
|----------------------|-----------------|
| (Standard shoe) | |
| Lower rollers | . 5 |
| Track shoes | · 38 |
| Overall track length | · 2,497mm(8'2") |
| Shoe width ····· | · 400mm(1'31") |



Brake

Two oil disc brake on final drive input shafts. spring applied hydraulically released, when machine is stationary, brakes are set automatically, operating either travel lever disongages brakes.

Weight

Equipped with 3.0m(9'84") boom, 1.6m(5'25") arm, and 0.173m3(0.22yd3; PCSA heaped) bucket and 400mm(15.7") shoes.

| Sho typ | | Shoe width | Operating weight | Ground pressure |
|---------------|-------|---------------|-------------------------|--|
| Trip grous | | 00mm (15.7") | 5,500 kg (12,100 lb) | 0.31kgf/cm² (4.41psi) |
| Rubb | oer 4 | 00mm (15.7") | 5,400 kg (11,900 lb) | 0.30 kgf/cm ² (4.27 psi) |

Service refill capacities

| Liters | US gal | UK gal |
|-----------------------|--------|---------|
| Fuel tank115 | 30.4 | 25.3 |
| Cooling system 10 | 2.64 | 2.2 |
| Lubrication Liters | US gal | Imp gal |
| Engine oil 9.7 | 2.56 | 2.13 |
| Swing drive 1.5 | 0.39 | 0.33 |
| Final drive(each) 1.2 | 0.32 | 0.26 |
| Hydraulic tank 80 | 21.1 | 17.6 |



Safety

- · Safety glass windows
- Electric type horn
- · Spring-set/hydraulic-released disc type travel parking brake.
- · Main relief valves, make-up valves.
- · Overload relief valves, hydraulic brake valves.
- · Engine coolant temperature gauge.
- · Monitor for before starting(Engine oil level, engine coolant level and hydraulic oil level)
- · Monitor for during operation(Engine oil pressure, engine coolant temperature, alternator charge, air cleaner clogging and fuel minimum level).
- Alarm buzzer(Engine oil pressure and engine coolant temperature)
- · Working lights pilot lamp
- · Lever lock



Optional equipment

Safety

· Boom lock valve

· Travel alarm

Cabin & Interior · Sun visor

Others

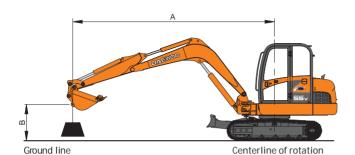
- · Two way piping
- · Rubber track
- Breaker piping
- Accmulator · Narrow bucket

Buckets

| Сара | city | Wie | dth | | Recommendation | | |
|---|--|----------------------|-------------------|--------------------|--------------------|-------------------|--|
| PCSA, heaped | CECE, heaped | Without side cutters | With side cutters | Weight | 3.0 m (9'84") Boom | 1.6 m (5'25") Arm | |
| 0.173 m ³ (0.22 yd ³) | 0.15 m ³ (0.20 yd ³) | 662 mm (26.1") | 734 mm (28.9") | 170 kg (375 lb) | - | - | |
| 0.126 m ³ (0.17 yd ³) | 0.06 m ³ (0.08 yd ³) | 300 mm (11.8") | 362 mm (14.3") | 109 kg (240 lb) | - | - | |

Lifting Capacities

Dozer Up



Boom: 3.0m (9'84") Arm : 1.6m (5'25")

Bucket: PCSA 0.173m3 (CECE 0.15m3)

Shoe : 400mm (15.7")

Metric Unit: 1,000 kg

| | | | | | | | | | | ٥. | , o o o |
|------|-------|-------|------|-------------|-------|-------------|------|------|-------|------------|---------|
| A(m) | 2 | | 3 | | | 4 | 5 | i | | Max. Reach | |
| B(m) | | ₽ | 8 | ∷ =□ | 8 | ∷ =□ | 8 | ₽ | 8 | ₽ | A (m) |
| 4 | | | | | *0.96 | *0.84 | | | *0.80 | 0.73 | 4.33 |
| 3 | | | | | *1.05 | 0.83 | | | 0.81 | 0.57 | 4.93 |
| 2 | *3.02 | 2.39 | 1.66 | 1.25 | 1.32 | 0.79 | 0.92 | 0.54 | 0.85 | 0.50 | 5.24 |
| 1 | 1.08 | 1.08 | 1.99 | 1.16 | 1.27 | 0.75 | 0.90 | 0.53 | 0.82 | 0.48 | 5.30 |
| 0 | *1.80 | *1.80 | 1.93 | 1.10 | 1.24 | 0.72 | 0.89 | 0.51 | 0.85 | 0.49 | 5.15 |
| -1 | *2.94 | *2.10 | 1.91 | 1.09 | 1.23 | 0.71 | | | 0.96 | 0.55 | 4.73 |
| -2 | *4.05 | 2.14 | 1.93 | 1.11 | | | | | 1.25 | 0.73 | 3.97 |
| -3 | *3.06 | *2.23 | | | | | | | *2.38 | 1.60 | 2.44 |

| Feet | Unit: 1,000 lb |
|------|----------------|
|------|----------------|

| A(ft) | 7.5' | | 1 | 0' | 12.5' | | 15' | | Max. Reach | | |
|-------|-------|-------|-------|------|-------|------------|-------|------|------------|------------|--------|
| B(ft) | 8 | ₽ | 8 | Œ | 8 | ∷ = | 8 | Ü÷□ | 뿝 | ∷ = | A (ft) |
| 15' | | | | | 1.81 | 1.81 | | | *1.81 | *1.81 | 12'5" |
| 12.5' | | | | | 2.02 | 2.02 | | | *1.75 | 1.52 | 14'7" |
| 10' | | | | | *2.26 | *1.99 | *2.38 | 1.45 | 1.77 | 1.27 | 16'1" |
| 7.5' | | | *3.11 | 2.75 | *2.77 | 1.92 | 2.36 | 1.42 | 1.86 | 1.14 | 17'0" |
| 5' | 7.11 | 3.98 | 4.39 | 2.59 | 3.08 | 1.84 | 2.32 | 1.37 | 1.83 | 1.07 | 17'4" |
| 2.5' | *4.36 | *3.74 | 4.23 | 2.45 | 3.00 | 1.76 | 2.27 | 1.33 | 1.81 | 1.05 | 17'3" |
| 0' | *5.24 | *3.69 | 4.15 | 2.38 | 2.94 | 1.71 | 2.24 | 1.30 | 1.87 | 1.08 | 16'9" |
| -2.5' | *6.76 | 3.69 | 4.12 | 2.35 | 2.91 | 1.68 | 2.22 | 1.28 | 2.03 | 1.17 | 15'9" |
| -5' | *6.80 | 3.72 | 4.12 | 2.36 | 2.91 | 1.69 | | | 2.36 | 1.37 | 14'4" |
| -7.5' | *6.88 | 3.79 | 4.17 | 2.40 | | | | | 3.14 | 1.83 | 12'0" |
| -10' | *5.45 | *3.93 | | | | | | | *5.38 | *3.87 | 7'6" |

Note 1. Ratings are based on SAE J1097

2. Load point is the hook on the back of the bucket.

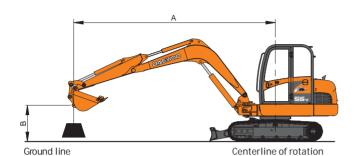
3. *Rated loads are based on hydraulic capacity.

4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

0 : Ground



Dozer Down (Must be equipped with dozer lock valve)



Boom : 3.0m (9'84") Arm : 1.6m (5'25")

Bucket: PCSA 0.173m3 (CECE 0.15m3)

Shoe : 400mm (15.7")

Metric Unit: 1,000 kg

| 11101110 | | | | | | | | | | 0 | iiit . 1,000 kg |
|----------|-------|-------|-------|-------------|----------|------|-------|-------------|-------|------------|-----------------|
| A(m) | | 2 | 3 | 3 | 2 | 1 | í | ō | | Max. Reach | |
| B(m) | | æ | 8 | ∷ =□ | <u> </u> | Ü⊨□ | 8 | ∷ =□ | 8 | Ü₽□ | A(m) |
| 4 | | | | | *0.96 | 0.84 | | | *0.80 | 0.73 | 4.33 |
| 3 | | | | | *1.05 | 0.83 | | | *0.81 | 0.57 | 4.93 |
| 2 | *3.02 | 2.39 | *1.66 | 1.25 | *1.33 | 0.79 | *1.21 | 0.54 | *0.87 | 0.50 | 5.24 |
| 1 | *1.08 | *1.08 | *2.47 | 1.16 | *1.67 | 0.75 | *1.36 | 0.53 | *0.98 | 0.48 | 5.30 |
| 0 | *1.80 | *1.80 | *2.94 | 1.11 | *1.94 | 0.72 | *1.49 | 0.51 | *1.19 | 0.49 | 5.15 |
| -1 | *2.94 | 2.10 | *3.03 | 1.09 | *2.03 | 0.71 | | | *1.61 | 0.55 | 4.73 |
| -2 | *4.05 | 2.14 | *2.76 | 1.11 | | | | | 1.84 | 0.73 | 3.97 |
| -3 | *3.06 | 2.23 | | | | | | | *2.38 | 1.60 | 2.44 |

| Fee. | Ur | nit : 1,000 lb |
|------|----|----------------|
|------|----|----------------|

| A(ft) | 7.5 | 5' | 10 |)' | 12. | 5' | 15 | | | Max. Reach | |
|-------|-------|------|-------|------|-------|-------|-------|------|-------|------------|--------|
| B(ft) | 8 | Ü⊨□ | 8 | Ç⊫o | 8 | ₽ | ä | ф□ | 8 | ∷ = | A (ft) |
| 15' | | | | | *1.81 | *1.81 | | | *1.81 | *1.81 | 12'5" |
| 12.5' | | | | | *2.02 | 2.02 | | | *1.75 | 1.52 | 14'7" |
| 10' | | | | | *2.26 | 1.99 | *2.38 | 1.45 | *1.77 | 1.27 | 16'1" |
| 7.5' | | | *3.11 | 2.75 | *2.77 | 1.92 | *2.62 | 1.42 | *1.86 | 1.14 | 17'0" |
| 5' | *7.39 | 3.98 | *4.45 | 2.59 | *3.44 | 1.84 | *2.97 | 1.84 | 2.01 | 1.07 | 17'4" |
| 2.5' | *4.36 | 3.74 | *5.62 | 2.45 | *4.08 | 1.76 | *3.34 | 1.33 | 2.25 | 1.05 | 17'3" |
| 0' | *5.24 | 3.69 | *6.32 | 2.38 | *4.56 | 1.71 | *3.62 | 1.30 | 2.62 | 1.08 | 16'9" |
| -2.5' | *7.03 | 3.69 | *6.54 | 2.35 | *4.78 | 1.68 | *3.74 | 1.28 | 3.27 | 1.17 | 15'9" |
| -5' | *9.34 | 3.72 | *6.34 | 2.36 | *4.67 | 1.69 | | | 3.79 | 1.37 | 14'4" |
| -7.5' | *8.10 | 3.79 | *5.59 | 2.40 | | | | | 4.28 | 1.83 | 17'0" |
| -10' | *5.45 | 3.94 | | | | | | | *5.38 | 3.87 | 7'6" |

Note 1. Ratings are based on SAE J1097

- 2. Load point is the hook on the back of the bucket.

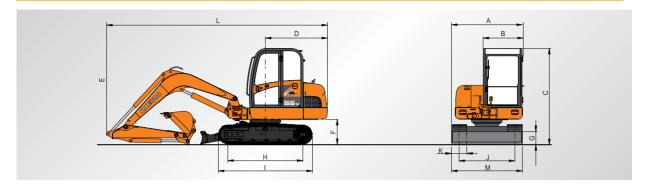
 3. *Rated loads are based on hydraulic capacity.

 4. Rated loads do not exceed 87% of hydraulic capacity or 75% of tipping capacity.

0 : Ground

Dimensions & Working Ranges

Dimensions Unit: mm(ft.in)

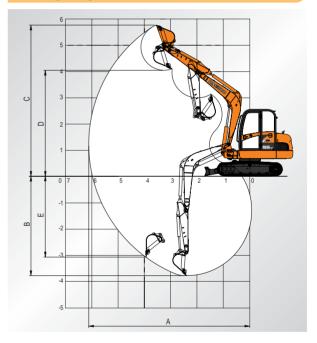


| A Ove | erall width of upper structure | 1,885mm (6'2") |
|--------|--------------------------------|-----------------|
| B Ove | erall width of cab | 1,030mm (3'38") |
| C Ove | erall height of cab | 2,556mm (8'39") |
| D Tail | l swing radius | 1,650mm (5'41") |
| E Ove | erall height | 2,420mm (7'11") |
| F Clea | arance under counterweight | 670mm (2'2") |
| G Gro | und clearance | 350mm (1'15") |
| H Tun | nbler distance | 1,990mm (6'53") |
| I Tra | ck length | 2,497mm (8'2") |
| J Tra | ck gauge | 1,480mm (4'86") |
| K Tra | ck shoe width | 400mm (1'31") |
| L Ove | erall length | 5,850mm (19'2") |
| M Ove | erall track width | 1,880mm (6'17") |
| | | |

Digging forces

| | SAE | ISO | | |
|----------------|-----------|-----------|--|--|
| Bucket | 3,740 kgf | 4,190 kgf | | |
| digging | 36.7 kN | 41.1 kN | | |
| force * | 8,250 lbf | 9,240 lbf | | |
| Arm digging | 2,660 kgf | 2,740 kgf | | |
| | 26.1 kN | 26.9 kN | | |
| force * | 5,860 lbf | 6,090 lbf | | |

Working ranges



| Boom length | 3.0m (9'84") |
|-------------------------------------|-----------------|
| Arm length | 1.6m (5'25") |
| A. Max. digging reach | 6,152mm (20'2") |
| B. Max. digging depth | 3,796mm (12'5") |
| C. Max. digging height | 5,774mm (18'9") |
| D. Max. dumping height | 4,048mm (13'3") |
| E. Max. vertical wall digging depth | 3,070mm (10'1") |

*Specifications are subject to change without prior notice.

EC0037 (2003.3)

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