LiuGong

ALL NEW F-SERIES

# 9051F ZTS
# 9057F ZTS
# EXCAVATORS

| | |
|---|---|
| **Engine** | YANMAR 4TNV86CT, EU Stage V |
| **Net Power** | 33.5kW (44.9 hp) |
| **9051F ZTS** | |
| **Operating Weight** | 5,180kg (11,420 lbs) |
| **Bucket Capacity** | 0.14m³ (0.18 yd³) |
| **9057F ZTS** | |
| **Operating Weight** | 5,570kg (12,280 lbs) |
| **Bucket Capacity** | 0.16m³ (0.21 yd³) |




TOUGH WORLD. TOUGH EQUIPMENT.

# “ THE BEST MACHINES ARE DESIGNED FOR BALANCE, NOT COMPROMISE...

## YOUR PERFORMANCE DASHBOARD

Research tells us that 6 key performance areas really matter to you. We’d like to use this performance dashboard to present the real, tough facts about our **all New 9051F TS / 9057F TS.**

**TOUGHNESS & DURABILITY**

**POWER & EFFICIENCY**

**INTELLIGENCE & CONTROL**

**COMFORT & ERGONOMICS**

**SAFETY & VISIBILITY**

**UPTIME & MAINTENANCE**

Built for high performance in tight spaces, our new zero tail swing machines match your performance criteria exactly. No compromises, just everything you need. It’s not rocket science, it’s simply customer focus matched with intelligent design.

## CUSTOMER DRIVEN DESIGN...

Our
Tha
the
machines are actually owned and operated.

This insight allows us to perfectly balance, the demands of the machine owner and the machine operator but without compromise.

Our UK design team were recently recognized with a prestigious Red Dot Award for our new 4180D motor grader recognising its innovation and excellence in product design.

# HERE'S THE BIG PICTURE...

A choice of tough, intelligent, zero tail swing machines, that perform as good as they look.

ALL NEW F-SERIES

## 9051F TS/ 9057F TS EXCAVATO

## POWER & EFFICIENCY

- Yanmar super-charged, Stage V engine delivering 35.5kW @ 2400rpm.
- Automatic engine idle and stop function as standard.
- 2 travel speeds with automatic "kickdown" to improve traction.

### TWO OPERATOR WORK MODES:

**P Mode (Power)**
Suitable for heavy load applications and pursuit of high productivity.

**E Mode (Economy)**
Providing maximum efficiency and fuel consumption savings.




## TOUGHNESS & DURABILITY

- NEW Double side mounted upper rollers for improved strength and durability.
- NEW Arm and bucket cylinder protection guards.
- Improved cast turret extends service life.
- Fully protected undercarriage.
- Steel braided hydraulic hose protection for maximum durability.

## COMFORT & ERGONOMICS

- F-Series cab with ergonomic and intuitive design.
- Superior all-round visibility with line of sight visibility to the front of the tracks.
- Fully adjustable mechanical suspension seat as standard with optional air-suspension seat also available.
- Integrated cab radio with Bluetooth connectivity.
- Foldable foot pedals.
- Front windscreen sunshade.

## SAFETY & VISIBILITY

- Zero tail swing radius.
- Enhanced cab front and roof protection.
- Machine start password setting.
- LED work-lights as standard with delay function.
- Amber beacon & seatbelt linked Green beacon fitted as standard.
- Arm and boom load holding valves fitted as standard. Dozer blade load holding valve available as an option.

## UPTIME & MAINTENANC

- Flip-up side opening hood gives easy access to the engine bay.
- Intelligent layout gives technicians room to work in comfort.
- Ground level maintenance and service access.
- Grease gun holder as standard.
- Re-fuelling pump fitted as optional with re-fuelling alarm to prevent spillages.

## INTELLIGENCE & CONTR

- Intuitive operator interfaces & control.
- 5.7" colour LCD display.
- Load sensing hydraulics deliver precise and smooth operation for excellent grading performance.
- Dozer float function as standard.

**NOW FOR THE DETAIL...**

# “YOU CAN TRUST IT IN THE TIGHTEST SPA”






## TOUGHNESS AND DURABILITY

DESIGNED TO WORK HARDER, FOR LONGER

# DESIGNED TO WORK HARDER, FOR LONGER...

To build a machine compact machine that can withstand the hardest conditions takes intelligent design, and attention to detail. We know that a machine is only as strong as its weakest point, so every weld, every joint, eve component is scrutinized to ensure it passes our rigorous durability tests. **Here's the proo**

## TOUGHNESS AND DURABILITY

### 1. CAST TURRET SUPPORT
The new, tougher cast turret provides maximum durability and service life of the slew mechanism.

### 2. DOUBLE MOUNTED FLANGED UPPER ROLLERS
The upper rollers are supported on both sides to reduce stress and improve toughness. These rollers are also flanged to reduce the likelihood of de-tracking in challenging ground conditions.

### 3. TOUGHER UNDERCARRIAGE
Comprehensive design and stringent weld inspection ensures that the undercarriage meets our high quality standards. Thicker panels have also been added to provide further protection.

### 4. TOUGHER BOOM AND ARM
Our machines may be tough, but with additional arm and bucket cylinder guards they just got tougher. This ensures suitability for a variety of applications.

### 5. HIGH QUALITY HOSES
Braided steel hose protection ensures the highest levels of protection in the harshest environments.



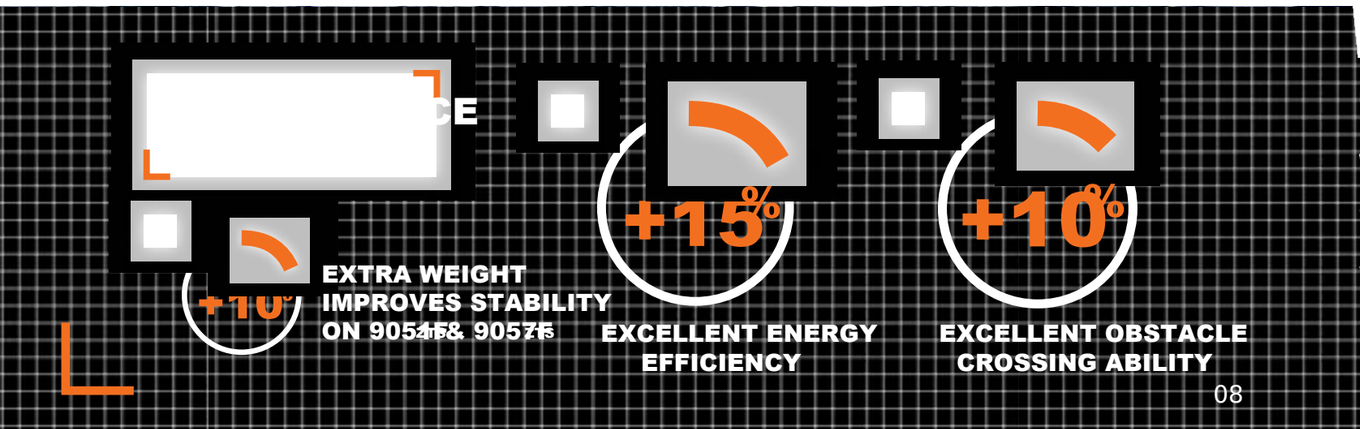






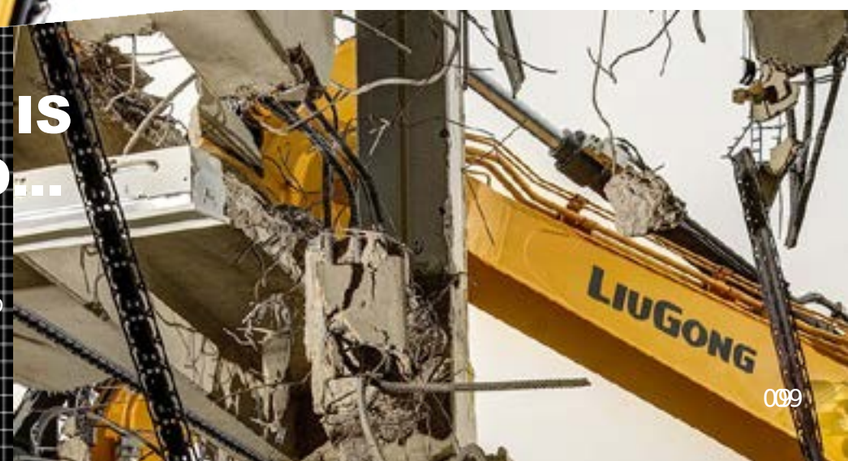







## TOUGHNESS IS WHAT WE DO...

With over **100,000** excavators already working in the world's toughest environments, you can trust out machines to keep working harder - for longer.



# “WHY CHOOSE BETWEEN POWER AND EFFICIENCY WHEN YOU CAN HAVE BOTH?”






## POWER AND EFFICIENCY

DESIGNED TO MOVE MORE, FOR LESS

# DESIGNED TO MOVE MORE, FOR LESS...

There's no need to compromise digging performance to get the highest fuel efficiency because the all New 9051F ZTS and 9057F ZTS gives you both. With greater torque and more power at lower engine speeds, you get the power you want and the fuel efficiency you need.

## POWER AND EFFICIENCY

### 1. MORE REAL POWER

With EFI technology, Yanmar super-charged, Euro V engine delivers 35.5Kw/2400rpm. EFI technology enables the engine to maximize its power output whilst creating less noise and using less fuel.

### 2. SAVE EVERY DROP OF FUEL

Engine auto idle and auto shutdown makes every single drop of fuel count. Reducing unproductive fuel saves you money and machine hours. These features also reduce work-site noise improving communication and the environment.

### 3. AUTOMATIC TRAVEL SPEED CHANGE

To improve traction our automatic travel speed function will choose the optimum moment to switch from high to low speed when travel is blocked.

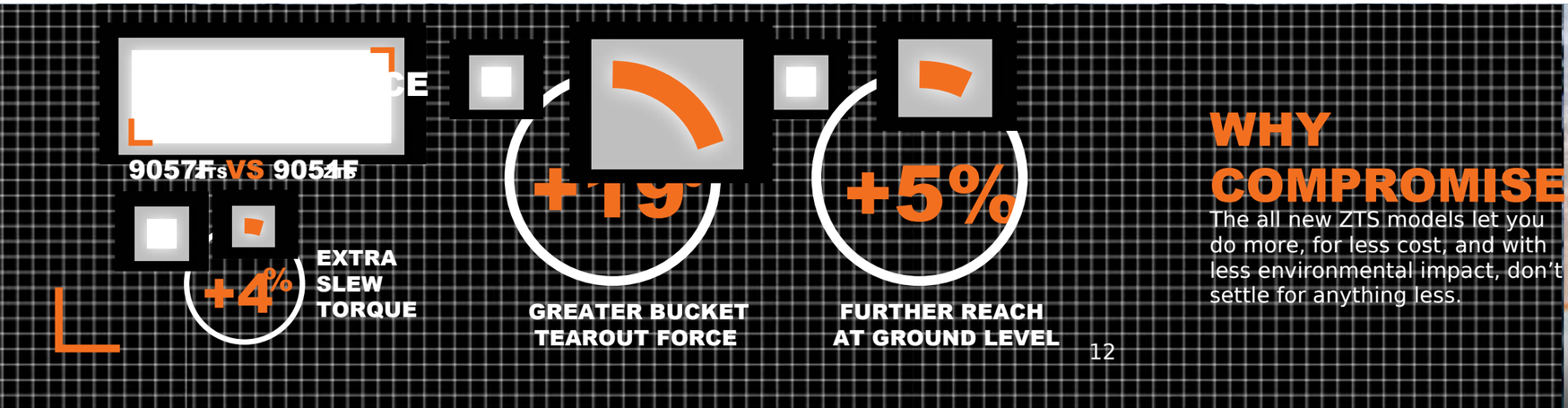
### 4. MULTI-FUNCTIONING PERFORMANCE

At LiuGong, we understand that you require the ability to use multiple hydraulic services at the same time. We have optimized multi-functioning performance to maximise ease of use and enable you to work efficiently with demanding attachments.

### 5. BUCKET TOUCHING BULLDOZER

Standard with arm, bucket can touch with the blade of bulldozer to achieve quick cleaning of ground debris.



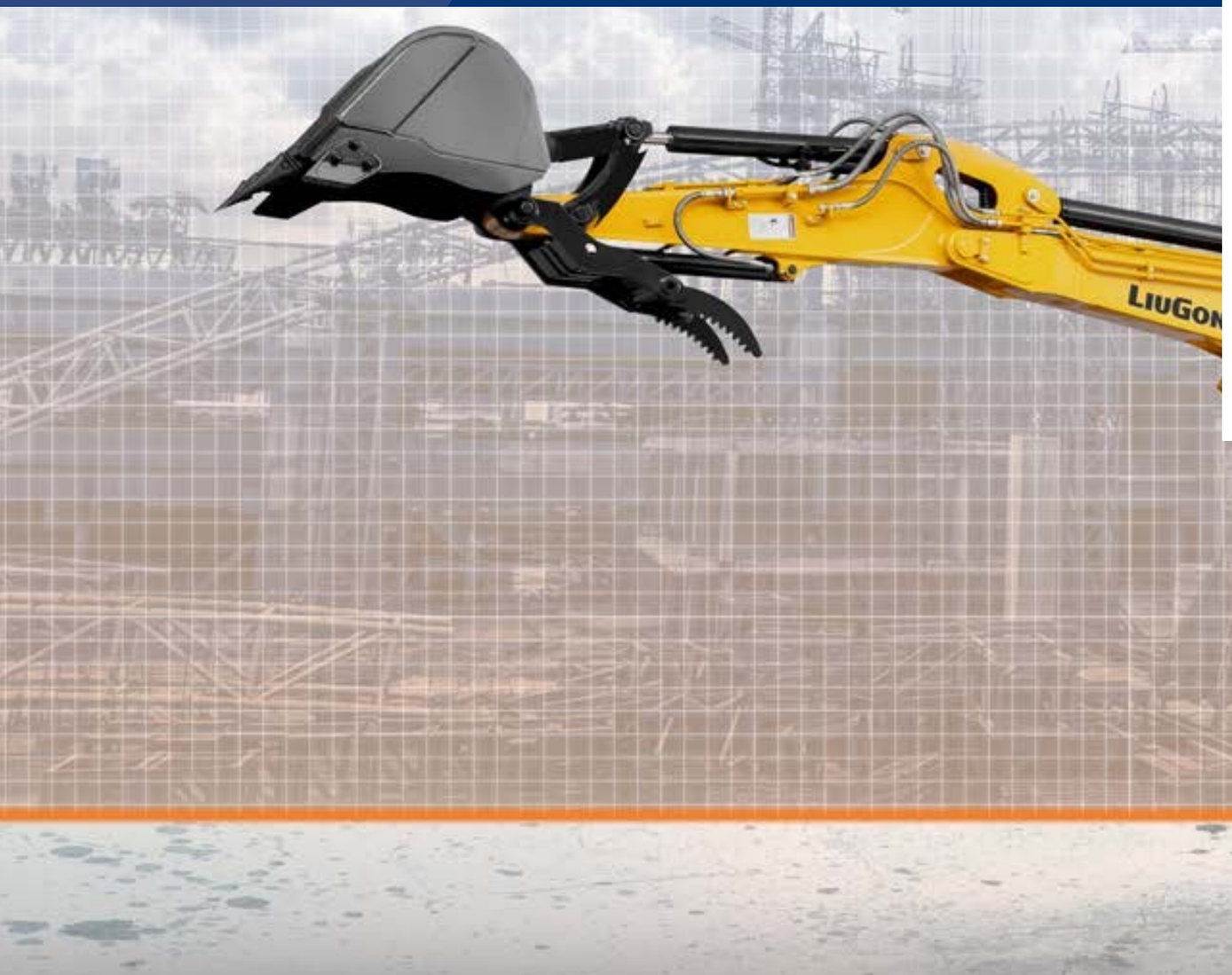




## WHY COMPROMISE?

The all new ZTS models let you do more, for less cost, and with less environmental impact, don't settle for anything less.



# “TOUGH MACHINES BE INTELLIGENT” TOO











## INTELLIGENCE AND CONTROL

DESIGNED TO WORK SMARTER

# DESIGNED TO WORK SMART

Smart operators choose smart machines because they know their job is tough enough. When it comes to intelligence and control the all New ZTS models may surprise you as they're packed with smart features to make life easier.

## INTELLIGENCE AND CONTROL

### 1. CHOOSE YOUR MODE

With a choice of 2 Integrated Work Modes (Power Mode & Economy Mode), each designed to match the engine speed, pump flow and system pressure to your chosen application. It's easy to find the perfect balance of performance and economy.

### 2. ELECTRO-HYDRAULIC CONTROL

To a professional operator, control is everything. Load sensing hydraulics, equipped with pressure compensated valves deliver precise, smooth and powerful operation no matter what attachments, and with excellent grading performance. Finger-tip control from the Electro proportional joystick delivers precise and sensitive control of all your attachments from the start, to the end of the job.

### 3. USE OUR BRAINS

With a suite of Smart functions at your fingertips you can control your attachment properties from the comfort of your cab. It's easy:

- Adjustable flow control
- 8 attachment settings

### 4. DOZER FLOAT FUNCTION

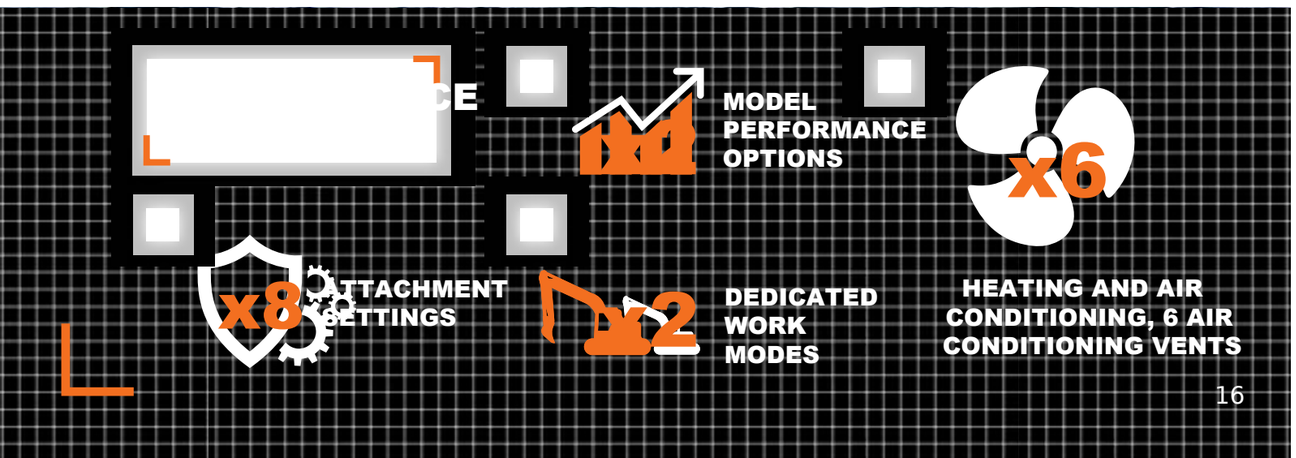
When dozer float is activated, the dozer blade will automatically follow the contours of the ground. This functionality enables operators to perform fine grading and clean-up activities with maximum ease and control.

### 5. INTELLIGENT OPERATOR INTERFACE

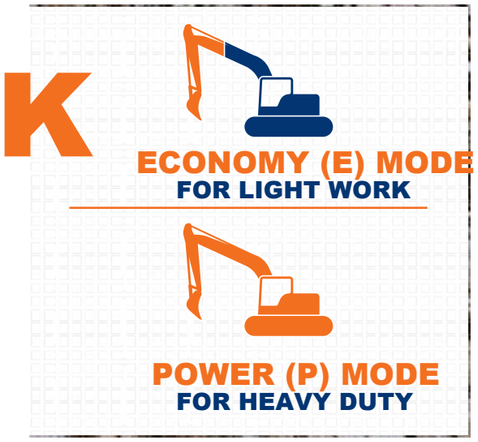
With a 5.7inch colour touchscreen display and intuitive menu selection, we've made it simple to switch working modes, adjust flow rates and access the machine's intelligent functions.

## SMART IDEAS IN ACTION

The all New ZTS models have the perfect balance of toughness and intelligence designed to keep you in control.
















# “TOUGH DAYS GO F
# YOU’RE WORKING IN C”





## COMFORT AND ERGONOMICS

DESIGNED AROUND THE OPERATOR

# DESIGNED AROUND THE OPERATOR

Climb into the spacious cab and you'll know that it has been designed by a team that really knows what it is like to be an operator. Talking, listening and observing operators, our design team spend almost as much time in the cab as they do with the CAD. The result? One of the most ergonomic and comfortable cabs you can get.

## COMFORT AND ERGONOMICS

### 1. PERFECT CONTROL

From the ergonomically positioned non-slip pedals to the multi-functional joysticks, the cab interior represents a masterclass in design.

### 2. INTUITIVE INTERFACE

Every action and movement requires the minimum of effort from the operator. We've designed the operator interface to be even more intuitive and easy to use.

### 3. YOUR CHOICE OF SEAT

Every operator is different, so we offer a range of seats and joystick configurations to suit everyone.

- Mechanical suspension standard seat.
- Air suspension seat available as an option.

### 4. MAKE IT YOUR PLACE

We never forget that a machine is not just a tool, it's your place for many hours a day (and night). So, we've remembered all the little things that make it feel like home.

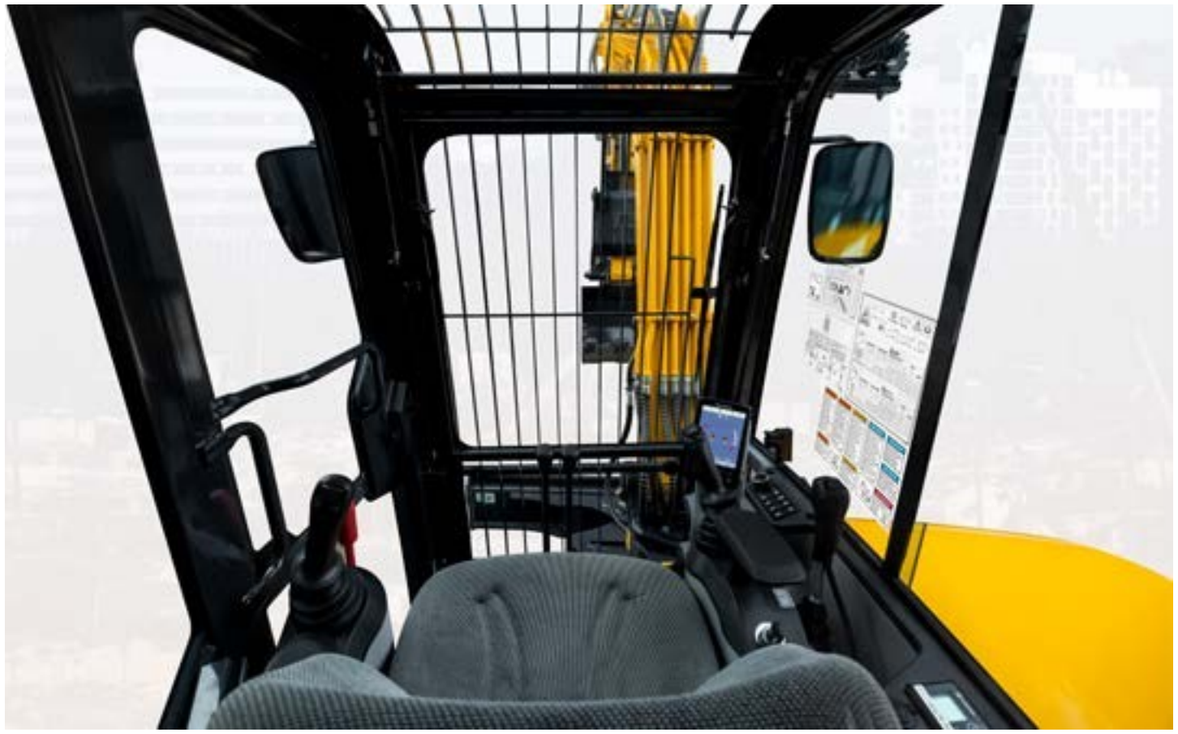
- Large storage box and rack drinks holder.
- Phone holder with 12V charging, USB and AUX ports.

### 5. IT'S SO QUIET

The cab is packed with comfort-enhancing technology; the NVH design & CAE analysis reduces wind resistance and noise. The result, the calmest and quietest operator experience possible at only 74 dB internal noise.

## PERFECTLY MATCHED TO YOU

The all New ZTS models gives you the operating environment you would design for yourself.








## TICKS ALL THE RIGHT BOXES

- ☑ INTUITIVE LCD OPERATOR CONSOLE
- ☑ INTELLIGENT CENTRALIZED CONTROL
- ☑ INTELLIGENT CENTRALIZED CONTROL
- ☑ ADVANCED AIR-CON AND TEMPERATURE CONTROL
- ☑ OPTIMAL VISIBILITY
- ☑ CUSTOMIZABLE OPERATORS ARMRESTS
- ☑ HIGH COMFORT, FULLY ADJUSTABLE SEAT
- ☑ LOW NOISE AND LOW VIBRATION

# “ WE CONSTANTLY A
# MAKE OUR MACHINES

”






## SAFETY AND VISIBILITY

DESIGNED TO PROTECT

# SAFER ALL-ROUND ACCESS

Being protected in the cab is important, but accident research shows us that most accidents occur outside of the machine. We'v taken the challenge to make our machines even safer to be arou

## SAFETY AND VISIBILITY

### 1. MORE PROTECTION WHERE YOU NEED IT

The driver protection system delivers even greater protection to the front and top of the cab and protects the operator from falling rocks and debris.

### 2. SAFER AND MORE VERSATILE

With zero tail swing (ZTS), our 5T range can work in confined spaces. This design significantly reduces the likelihood of collisions making for a safer working environment.

### 3. EMERGENCY STOP

The operator control isolator lever is fitted as standard. A lockable isolator switch is also fitted in the service bay for improved safety.

### 4. SAFER MAINTENANCE ACCESS

No need to climb on the machine, all the daily maintenance points, including the oil level check point are easily accessible from the ground.

### 5. BE SAFE. BE SEEN

- Standard LED work-lights provide excellent visibility in low light conditions.
- Amber beacon & seat-belt linked Green beacon fitted as standard.

### 6. NO BLIND SPOTS

The design of the cab provides maximum direct line of sight visibility for the operator.

### 7. PASSWORD PROTECTION

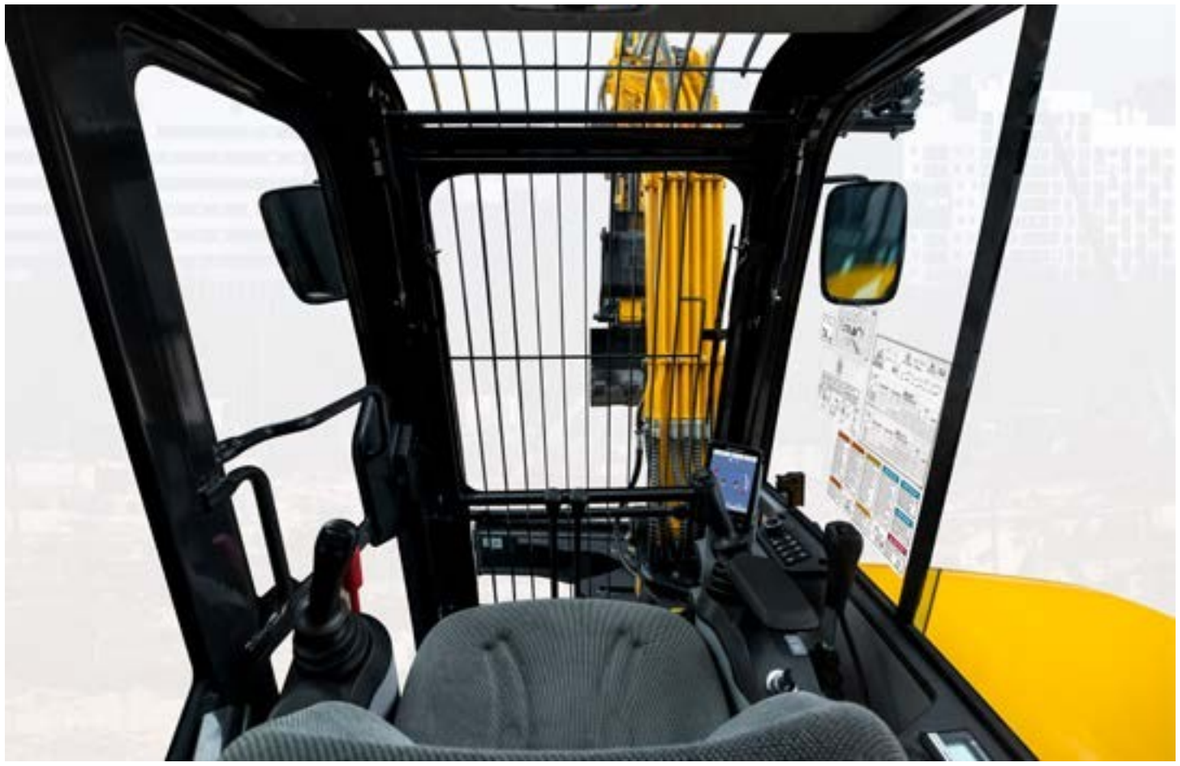
To prevent unauthorized usage, machine start-up can be password protected.











# “CAN DAILY MAINTE
# AS SIMPLE AS THIS?”






## UPTIME AND MAINTENANCE

DESIGNED TO BE EASY TO SERVICE AND MAINTAIN

# EASY TO OWN AND EASY TO MAINTAIN

We understand that when your machine's not working, it's not earning. To maximize your productive hours, we've made the All New ZTS models are even easier to maintain, helping you make every productive second count.

## MAINTENANCE AND UPTIME

### 1. MAINTENANCE FRIENDLY DESIGN
Our re-designed air filter with large ash capacity now has a 1000-hour maintenance cycle – that's one less job to think about.

### 2. INTEGRATED TOOL BOX
The new design features a handy tool storage facility ideal for storing tools, lifting equipment and grease cartridges.

### 3. MINIMUM DOWNTIME
With easy access to A/C refill points, radiator and wash bottle,valve chest, battery and hydraulic tank, we've made it even easier to keep your machine in top condition.

### 4. HIGH VOLUME FUEL TANK
Fitted with a large 63L fuel tank complete with an "overfill" refuelling alarm, it's easy to avoid wasteful spillages.

### 5. EASE OF MAINTENANCE
The fully opening rear and side hoods make service and maintenance access easy. The new component layout creates extra space for technicians to work and includes a grease gun holder for extra convenience. In the cab, a flip seat gives easy access to components beneath.

### 6. NO RISK - LOW LEVEL ACCESS
Convenience and safety should never be compromised.

The easy to access optional re-fuelling pump is safely stowed behind the bay door. All filters are located close to the bay doors for safe access and efficient replacement.

### 7. NO SPILLAGE REFUELLING
Electric refuelling pump with auto-stop function to reduce the risk of spillage.

### 8. NEGATIVE SWITCH BATTERY
Right side cover opens for one-stop maintenance, both battery and negative switch are located on the front side of the main valve for easy access.

### 9. FULLY OPEN HOOD
Fully opening rear and side hood with all key maintenance parts visible.

### 10. FLIP SEAT
Easily flip the seat with the pull of an under-seat pin for easy and convenient maintenance of the pipes underneath.

### 11. LARGE VOLUME FUEL TANK & HIGH LEVEL REMINDER
Offering a large 63L external fuel port diesel tank and 100% matching operator refuelling, our machine provides efficient and convenient refuelling to the operator. Simply press the refuelling reminder button to clearly display the current fuel level, and throughout the refuelling process, the beeping reminder frequency will increase to indicate nearing completion, avoiding fuel overflow and spillages in the worksite or surrounding environment.





# “WORLD-CLASS PERFORMANCE DELIVERED BY TOP-TIER COMPONENTS”






## SPECIFICATIONS

TIME FOR THE DETAIL

# SPECIFICATIONS ZL9051F

| Operating weight | 5,180 kg (11,420 lbs) |
|---|---|

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg.

| Bucket capacity | 0.14 m³ (0.18 yd³ ) |
|---|---|

## ENGINE

**Description**

4-cylinder straight four strokes, Turbo and common rail

| | |
|---|---|
| Emission rating | EPA Tier 4F / EU Stage V |
| Engine manufacturer | Yanmar |
| Engine model | 4TNV86CT-PLY |
| Aspiration | Turbo |
| Cooling fan drive | Direct |
| Displacement | 2.09 L (0.55 gal) |
| Rated speed | 2,200 rpm |
| Engine output - net | 33.5 kW (44.9 hp) |
| Engine output - gross | 35.5 kW (47.6 hp) |
| Maximum torque | 162.3-176.6 N·m (119.7-130.3 lbf·ft) @1,560 rpm |
| Bore × Stroke | 86 × 90 mm (3.4" × 3.5") |

## UNDERCARRIAGE

| | |
|---|---|
| Track shoe pitchs | 74 |
| Shoe width, triple grouser | 400 mm (16") |
| Bottom rollers each side | 4 |
| Top rollers each side | 1 |

## SWING SYSTEM

**Description**

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.

| | |
|---|---|
| Swing speed | 9.6 rpm |
| Swing torque | 12,500 N·m (9,220 lbf·ft) |

## HYDRAULIC SYSTEM

**Main pump**

| | |
|---|---|
| Type | Load-sensing variable pump |
| Maximum flow | 149.6 L/min (40 gal/min) |

**Relief valve setting**

| | |
|---|---|
| Implement | 27.4 MPa (3,974 psi) |
| Travel circuit | 26 MPa (3,771 psi) |
| Slew circuit | 20.6 MPa (2,988 psi) |
| Pilot circuit | 3.5 MPa (508 psi) |

**Hydraulic cylinders**

| | |
|---|---|
| Boom cylinder – Bore × Stroke | ϕ90 × 649 mm (ϕ3.5" × 2'2") |
| Arm cylinder – Bore × Stroke | ϕ80 × 673 mm (ϕ3.2" × 2'3") |
| Bucket cylinder – Bore × Stroke | ϕ70 × 589 mm (ϕ2.8" × 1'11") |

## ELECTRIC SYSTEM

| | |
|---|---|
| System voltage | 12 V |
| Batteries | 12V, 93AH, 750CCA |
| Alternator | 12 V-80 A |
| Start motor | 12 V-2.3 kW (3.1 hp) |

## SERVICE CAPACITIES

| | |
|---|---|
| Fuel tank | 67 L (17.7 gal) |
| Engine oil | 6.3 L (1.7 gal) |
| Cooling system | 14 L (3.7 gal) |
| Hydraulic reservoir | 54.3 L (14.3 gal) |
| Hydraulic system total | 61 L (16.1 gal) |

## SOUND PERFORMANCE

| | |
|---|---|
| Interior sound power level (ISO 6396) | 74 dB(A) |
| Exterior sound power level (ISO 6395) | 96 dB(A) |

## DRIVE AND BRAKES

**Description**

Steering controlled by two hand levers with pedals.

| | |
|---|---|
| Max. travel speed | High: 4.2 km/h (2.6 mph)<br>Low: 2.4 km/h (1.5 mph) |
| Gradeability | 30°/58% |
| Max. drawbar pull | 60 |



LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.



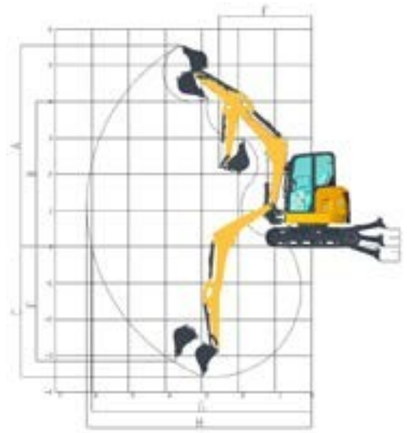
## DIMENSIONS

| | |
|---|---|
| Boom | 2,700 mm (8'10") |
| Arm Options | 1,450 mm (4'9") |
| A.Shipping Length | 5,510 mm (18'1") |
| B.Undercarriage Width – 400mm (16") Shoes | 1,960 mm (6'5") |
| C.Overall Width of Upper Structure | 1,904 mm (6'3") |
| D.Shipping Height – Top of Boom | 2,550 mm (8'4") |
| E.Distance from Dozer to Swing | 2,060 mm (6'9") |
| F.Counterweight Ground Clearance | 631 mm (2'1") |
| H.Tail Swing Radius | 990 mm (3'3") |
| I.Length to Center of Rollers | 1,990 mm (6'6") |
| J.Track Length | 2,495 mm (8'2") |
| K.Track Gauge | 1,560 mm (5'1") |
| L.Distance Between the Working Device and Swing Center--Right | 684 mm (2'3") |
| M.Distance Between the Working Device and Swing Center--Left | 876 mm (2'10") |
| N.Distance from Implement to Swing Center | 93.5 mm (4") |
| α.Maximum Boom Swing Angle to the Left | 55° |
| β.Maximum Boom Swing Angle to the Right | 70° |
| Track Shoe Width | 400 mm (1'4") |
| Overall Height of Cab | 1,634 mm (5'4") |
| Min. Ground Clearance | 297 mm (12") |



LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

# SPECIFICATIONS ZL9051F



| WORKING RANGE | |
|---|---|
| A.Max. Cutting Height | 5,423 mm (19'2") |
| B.Max. Dumping Height | 3,880 mm (18'11") |
| C.Max. Digging Depth | 3,450 mm (11'4") |
| E.Max. Vertical Wall Digging Depth | 2,510 mm (8'3") |
| F. Min. Front Swing Radius | 2,624 mm (8'7") |
| G.Max. Digging Reach on Ground | 5,765 mm (18'11") |
| H.Max. Digging Reach | 5,850 mm (19'2") |
| I.Lift above Ground | 694 mm (2'3") |
| J.Depth below Ground | 409 mm (1'4") |
| Max. Digging Depth, 2.44 m (8') Level | 2,484 mm (8’2”) |
| Bucket Digging Force (ISO) | 37 kN (8,318 lbf) |
| Arm Digging Force (ISO) | 25 kN (5,620 lbf) |
| Bucket Capacity | 0.14 m³ (0.18 yd³) |
| Bucket Tip Radius | 715 mm (2'4") |

| BOOM DIMENSIONS | |
|---|---|
| Boom | 2,700 mm (8'10") |
| Length | 2,835 mm (9'4") |
| Height | 980 mm (3'3") |
| Width | 245 mm (10") |
| Weight | 310.6 kg (685 lbs) |

Includes arm cylinder, piping and pin, excludes boom cylinder pin.

| ARM DIMENSIONS | |
|---|---|
| Arm | 1,450 mm (4'9") |
| Length | 1,928 mm (6'4") |
| Height | 469 mm (1'6") |
| Width | 168 mm (7") |
| Weight | 175.2 kg (386 lbs) |

Includes bucket cylinder, linkage and pin.

| MACHINE WEIGHTS AND GROUND PRESSURE | | | |
|---|---|---|---|
| Shoe width | Operating weight | Ground pressure | Overall width |
| | 2,700 mm (8'10") boom, 1,450 mm (4'9") arm, 0.14 m³ (0.18 yd³) bucket, 290 kg (639 lbs) counterweight | | |
| 400 mm (16") | 5,180 kg (11,420 lbs) | 28.4 kPa (4.1 psi) | 1,960 mm (6'5") |

| BUCKET SELECTION GUIDE | | | | | |
|---|---|---|---|---|---|
| Bucket Type | Capacity | Cutting Width | Weight | Teeth pcs | 2,700 mm (8'10") Boom 1,450 mm (4'9") Arm |
| General Purpose | 0.06 m³ (0.08 yd³) | 300 mm (12") | 84 kg (185 lbs) | 2 | A/B |
| | 0.08 m³ (0.1 yd³) | 400 mm (16") | 93 kg (205 lbs) | 3 | A/B |
| | 0.1 m³ (0.13 yd³) | 455 mm (18") | 100 kg (220 lbs) | 3 | A/B |
| | 0.14 m³ (0.18 yd³) | 600 mm (1'12") | 121 kg (267 lbs) | 4 | A/B |
| | 0.2 m³ (0.26 yd³) | 910 mm (2'12") | 205 kg (452 lbs) | 0 | A/B |
| | 0.26 m³ (0.34 yd³) | 1,220 mm (4'0") | 230 kg (507 lbs) | 0 | A/B |

The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density:
A. 1,200-1,300 kg/m³ (2,023-2,191 lbs/yd³) : Coal, Caliche, Shale
B. 1,400-1,600 kg/m³ (2,360-2,697 lbs/yd³) : Wet earth and clay, limestone, sandstone
C. 1,700-1,800 kg/m³ (2,865-3,034 lbs/yd³) : Granite, wet sand, well blasted rock
D. 1,900 kg/m³ (3,203 lbs/yd³) : Wet mud, Iron ore
NA. Not applicable

# SPECIFICATIONS 9051F

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.




1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
6. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

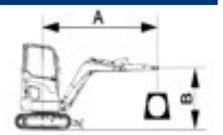
## LIFTING CAPACITY (METRIC)

### 9051F TS with 400 mm Shoes, 2,700 mm Boom, 1,450 mm Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

**Conditions**

Boom length: 2,700 mm
Arm length: 1,450 mm
Bucket: None
Shoes: 400 mm
Unit: kg




**Blade Down**

**A (Unit: m)**

| B (m) | | 2.0 | | 3.0 | | 4.0 | | MAX REACH | | A |
|---|---|---|---|---|---|---|---|---|---|---|
| 3.0 | kg | | | | | 1,406 | 926 | 1,436 | 876 | 4.2 |
| 2.0 | kg | | | 1,626 | 1,356 | 1,476 | 916 | 1,446 | 726 | 4.8 |
| 1.0 | kg | | | 2,356 | 1,256 | 1,716 | 886 | 1,386 | 676 | 5.0 |
| GROUND LEVEL | kg | | | 2,936 | 1,186 | 1,956 | 846 | 1,536 | 666 | 5.0 |
| -1.0 | kg | 2,296 | 2,066 | 2,996 | 1,166 | 2,026 | 836 | 1,596 | 696 | 4.8 |

**Blade Up**

**A (Unit: m)**

| B (m) | | 2.0 | | 3.0 | | 4.0 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | A (m) |
| 3.0 | kg | | | | | 1,266 | 926 | 1,206 | 876 | 4.2 |
| 2.0 | kg | | | 1,626 | 1,356 | 1,256 | 916 | 996 | 726 | 4.8 |
| 1.0 | kg | | | 1,806 | 1,256 | 1,226 | 886 | 916 | 676 | 5.0 |
| GROUND LEVEL | kg | | | 1,726 | 1,186 | 1,186 | 846 | 906 | 666 | 5.0 |
| -1.0 | kg | 2,296 | 2,066 | 1,696 | 1,166 | 1,166 | 836 | 956 | 696 | 4.8 |



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Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.




1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
5. *Indicates the load is limited by hydraulic capacity rather than tipping capacity.
6. Operator should be fully acquainted with the Operator's and Maintenance Instructions before operating this machine and rules for the safe operation of equipment should be adhered to at all times.

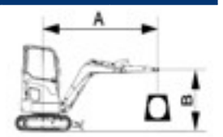
## LIFTING CAPACITY (METRIC)

### 9051F TS with 16" Shoes, 8'10" Boom, 4'9" Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

**Conditions**

Boom length: 8'10"
Arm length: 4'9"
Bucket: None
Shoes: 16"
Unit: kg




**Blade Down**

**A (Unit: ft)**

| B (ft) | | 6.5 | | 10 | | 13.1 | | MAX REACH | | A |
|---|---|---|---|---|---|---|---|---|---|---|
| 10 | lbs | | | | | 3,093 | 2,037 | 3,159 | 1,927 | 13.8 |
| 6.6 | lbs | | | 3,577 | 2,983 | 3,247 | 2,015 | 3,181 | 1,597 | 15.8 |
| 3.3 | lbs | | | 5,183 | 2,763 | 3,775 | 1,949 | 3,049 | 1,487 | 16.4 |
| GROUND LEVEL | lbs | | | 6,459 | 2,609 | 4,303 | 1,861 | 3,379 | 1,465 | 16.4 |
| -3.3 | lbs | 5,051 | 4,545 | 6,591 | 2,565 | 4,457 | 1,839 | 3,511 | 1,531 | 15.8 |

**Blade Up**

**A (Unit: ft)**

| B (ft) | | 6.5 | | 10 | | 13.1 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | A (ft) |
| 10 | lbs | | | | | 2,785 | 2,037 | 2,653 | 1,927 | 13.8 |
| 6.6 | lbs | | | 3,577 | 2,983 | 2,763 | 2,015 | 2,191 | 1,597 | 15.8 |
| 3.3 | lbs | | | 3,973 | 2,763 | 2,697 | 1,949 | 2,015 | 1,487 | 16.4 |
| GROUND LEVEL | lbs | | | 3,797 | 2,609 | 2,609 | 1,861 | 1,993 | 1,465 | 16.4 |
| -3.3 | lbs | 5,051 | 4,545 | 3,731 | 2,565 | 2,565 | 1,839 | 2,103 | 1,531 | 15.8 |



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# SPECIFICATIONS ZL9057F

| | |
|---|---|
| **Operating weight** | **5,570 kg (12,280 lbs)** |

Operating weight includes coolant, lubricants, full fuel tank, cab, standard shoes, boom, arm, bucket and operator 75 kg.

| | |
|---|---|
| **Bucket capacity** | **0.16 m³ (0.21 yd³)** |

## ENGINE

**Description**

4-cylinder straight four strokes, Turbo and common rail

| | |
|---|---|
| Emission rating | EPA Tier 4F / EU Stage V |
| Engine manufacturer | Yanmar |
| Engine model | 4TNV86CT-PLY |
| Aspiration | Turbo |
| Cooling fan drive | Direct |
| Displacement | 2.09 L (0.55 gal) |
| Rated speed | 2,200 rpm |
| Engine output - net | 33.5 kW (44.9 hp) |
| Engine output - gross | 35.5 kW (47.6 hp) |
| Maximum torque | 162.4-176.6 N·m (120-130.3 lbf·ft) @1,560 rpm |
| Bore × Stroke | 86 × 90 mm (3.4" × 3.5") |

## UNDERCARRIAGE

| | |
|---|---|
| Track shoe pitchs | 74 |
| Shoe width, triple grouser | 400 mm (16") |
| Bottom rollers each side | 5 |
| Top rollers each side | 1 |

## SWING SYSTEM

**Description**

Planetary gear reduction driven by high torque axial piston motor, with oil disk brake. Swing parking brake resets within five seconds after swing pilot controls return to neutral.

| | |
|---|---|
| Swing speed | 9.6 rpm |
| Swing torque | 13,000 N·m (9,588 lbf·ft) |

## HYDRAULIC SYSTEM

**Main pump**

| | |
|---|---|
| Type | Load-sensing variable pump |
| Maximum flow | 149.6 L/min (40 gal/min) |

**Relief valve setting**

| | |
|---|---|
| Implement | 27.4 MPa (3,974 psi) |
| Travel circuit | 26 MPa (3,771 psi) |
| Slew circuit | 20.6 MPa (2,988 psi) |
| Pilot circuit | 3.5 MPa (508 psi) |

**Hydraulic cylinders**

| | |
|---|---|
| Boom cylinder – Bore × Stroke | ϕ95 × 640 mm (ϕ3.7" × 2'1") |
| Arm cylinder – Bore × Stroke | ϕ85 × 691 mm (ϕ3.4" × 2'3") |
| Bucket cylinder – Bore × Stroke | ϕ75 × 589 mm (ϕ3" × 1'11") |

## ELECTRIC SYSTEM

| | |
|---|---|
| System voltage | 12 V |
| Batteries | 12V, 93AH, 750CCA |
| Alternator | 12 V-80 A |
| Start motor | 12 V-2.3 kW (3.1 hp) |

## SERVICE CAPACITIES

| | |
|---|---|
| Fuel tank | 67 L (17.7 gal) |
| Engine oil | 6.3 L (1.7 gal) |
| Cooling system | 14 L (3.7 gal) |
| Hydraulic reservoir | 54.3 L (14.3 gal) |
| Hydraulic system total | 61 L (16.1 gal) |

## SOUND PERFORMANCE

| | |
|---|---|
| Interior sound power level (ISO 6396) | 74 dB(A) |
| Exterior sound power level (ISO 6395) | 96 dB(A) |

## DRIVE AND BRAKES

**Description**

Steering controlled by two hand levers with pedals.

| | |
|---|---|
| Max. travel speed | High: 4.2 km/h (2.6 mph)<br>Low: 2.4 km/h (1.5 mph) |
| Gradeability | 30°/58% |
| Max. drawbar pull | 60 |



## DIMENSIONS

| | |
|---|---|
| Boom | 2,850 mm (9'4") |
| Arm Options | 1,570 mm (5'2") |
| A.Shipping Length | 5,650 mm (18'6") |
| B.Undercarriage Width – 400mm (16") Shoes | 1,960 mm (6'5") |
| C.Overall Width of Upper Structure | 1,904 mm (6'3") |
| D.Shipping Height – Top of Boom | 2,550 mm (8'4") |
| E.Distance from Dozer to Swing | 2,060 mm (6'9") |
| F.Counterweight Ground Clearance | 631 mm (2'1") |
| H.Tail Swing Radius | 1,045 mm (3'5") |
| I.Length to Center of Rollers | 1,990 mm (6'6") |
| J.Track Length | 2,505 mm (8'3") |
| K.Track Gauge | 1,560 mm (5'1") |
| L.Distance Between the Working Device and Swing Center--Right | 684 mm (2'3") |
| M.Distance Between the Working Device and Swing Center--Left | 876 mm (2'10") |
| N.Distance from Implement to Swing Center | 93.5 mm (4") |
| α.Maximum Boom Swing Angle to the Left | 55° |
| β.Maximum Boom Swing Angle to the Right | 70° |
| Track Shoe Width | 400 mm (1'4") |
| Overall Height of Cab | 1,634 mm (5'4") |
| Min. Ground Clearance | 297 mm (12") |

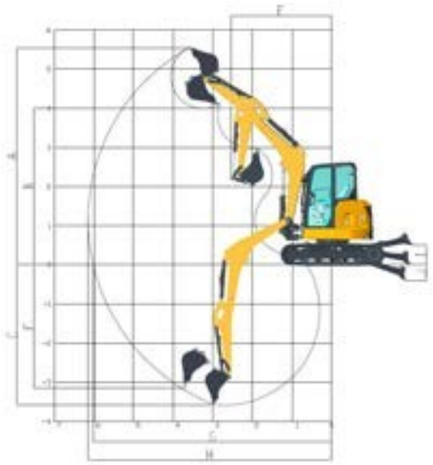


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# SPECIFICATIONS ZL9057F



| WORKING RANGE | |
|---|---|
| A.Max. Cutting Height | 5,571 mm (18'3") |
| B.Max. Dumping Height | 4,000 mm (13'1") |
| C.Max. Digging Depth | 3,630 mm (11'11") |
| E.Max. Vertical Wall Digging Depth | 2,800 mm (9'2") |
| F. Min. Front Swing Radius | 2,558 mm (8'5") |
| G.Max. Digging Reach on Ground | 6,040 mm (19'10") |
| H.Max. Digging Reach | 6,105 mm (20'0") |
| I.Lift above Ground | 694 mm (2'3") |
| J.Depth below Ground | 409 mm (1'4") |
| Max. Digging Depth, 2.44 m (8') Level | 2,756 mm (9'1") |
| Bucket Digging Force (ISO) | 44 kN (9,892 lbf) |
| Arm Digging Force (ISO) | 27 kN (6,070 lbf) |
| Bucket Capacity | 0.16 m³ (0.21 yd³) |
| Bucket Tip Radius | 688 mm (2'3") |

| BOOM DIMENSIONS | |
|---|---|
| Boom | 2,850 mm (9'4") |
| Length | 2,985 mm (9'10") |
| Height | 1,022 mm (3'4") |
| Width | 245 mm (10") |
| Weight | 322.7 kg (711 lbs) |

Includes arm cylinder, piping and pin, excludes boom cylinder pin.

| ARM DIMENSIONS | | |
|---|---|---|
| Arm | 1,570 mm (5'2") | 1,820 mm (5'12") |
| Length | 2,048 mm (6'9") | 2,290 mm (7'6") |
| Height | 563 mm (1'10") | 580 mm (1'11") |
| Width | 168 mm (7") | 168 mm (7") |
| Weight | 191.2 kg (422 lbs) | 210.6 kg (464 lbs) |

Includes bucket cylinder, linkage and pin.

| DOZER DIMENSIONS | Normal Dozer | Angle Dozer |
|---|---|---|
| Length | 1,638 mm (5'4") | 1,572 mm (5'2") |
| Height | 330 mm (1'1") | 420 mm (1'5") |
| Width | 1,960 mm (6'5") | 1,960 mm (6'5") |
| Weight | 247 kg (545 lbs) | 448 kg (988 lbs) |

Includes cylinder and pin.

**MACHINE WEIGHTS AND GROUND PRESSURE**

| Shoe width | Operating weight | Ground pressure | Overall width |
|---|---|---|---|
| | 2,850 mm (9'4") boom, 1,570 mm (5'2") arm, 0.16 m³ (0.21 yd³) bucket, 700 kg (1,543 lbs) counterweight | | |
| 400 mm (16") | 5,570 kg (12,280 lbs) | 31.7 kPa (4.6 psi) | 1,960 mm (6'5") |

**BUCKET SELECTION GUIDE**

| Bucket Type | Capacity | Cutting Width | Weight | Teeth pcs | 2,850 mm (9'4") Boom 1,570 mm (5'2") Arm |
|---|---|---|---|---|---|
| General Purpose | 0.06 m³ (0.08 yd³) | 300 mm (12") | 84 kg (185 lbs) | 2 | A/B |
| | 0.08 m³ (0.1 yd³) | 400 mm (16") | 93 kg (205 lbs) | 3 | A/B |
| | 0.1 m³ (0.13 yd³) | 455 mm (1'6") | 100 kg (220 lbs) | 3 | A/B |
| | 0.16 m³ (0.21 yd³) | 625 mm (2'1") | 126 kg (278 lbs) | 4 | A/B |
| | 0.2 m³ (0.26 yd³) | 910 mm (2'12") | 205 kg (452 lbs) | 0 | A/B |
| | 0.26 m³ (0.34 yd³) | 1,220 mm (4'0") | 230 kg (507 lbs) | 0 | A/B |

The recommendations are given as a guide only, based on typical operation conditions. Bucket capacity based on ISO 7451, heaped material with a 1:1 angle of repose.

Maximum material density:
A. 1,200-1,300 kg/m³ (2,023-2,191 lbs/yd³) : Coal, Caliche, Shale
B. 1,400-1,600 kg/m³ (2,360-2,697 lbs/yd³) : Wet earth and clay, limestone, sandstone
C. 1,700-1,800 kg/m³ (2,865-3,034 lbs/yd³) : Granite, wet sand, well blasted rock
D. 1,900 kg/m³ (3,203 lbs/yd³) : Wet mud, Iron ore
NA. Not applicable


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# SPECIFICATIONS 9057F

Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
Lifting capacities are based on the machine standing on a firm, uniform supporting surface.




1. Do not attempt to lift or hold any load that is greater than these rated values at their specified load radius and height. Weight of all accessories must be deducted from the above lifting capacities.
2. The rated loads are in compliance with ISO 10567 Hydraulic Excavator Lift Capacity Rating Standard. They do not exceed 87% of hydraulic lifting capacity or 75% tipping load.
3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
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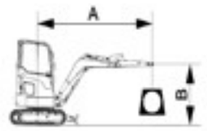
## LIFTING CAPACITY (METRIC)

### 9057F TS with 400 mm Shoes, 2,850 mm Boom, 1,570 mm Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

**Conditions**

Boom length: 2,850 mm
Arm length: 1,570 mm
Bucket: None
Shoes: 400 mm
Unit: kg




**Blade Down**

**A (Unit: m)**

| B (m) | | 2.0 | | 3.0 | | 4.0 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | A |
| 3.0 | kg | | | | | 1,466 | 926 | 1,316 | 766 | 4.6 |
| 2.0 | kg | | | | | 1,596 | 906 | 1,256 | 656 | 5.1 |
| 1.0 | kg | | | 2,656 | 1,226 | 1,886 | 866 | 1,276 | 606 | 5.3 |
| GROUND LEVEL | kg | | | 3,256 | 1,136 | 2,146 | 816 | 1,356 | 596 | 5.3 |
| -1.0 | kg | 2,286 | 1,976 | 3,296 | 1,106 | 2,226 | 796 | 1,606 | 616 | 5.1 |

**Blade Up**

**A (Unit: m)**

| B (m) | | 2.0 | | 3.0 | | 4.0 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | A (m) |
| 3.0 | kg | | | | | 1,266 | 926 | 1,045 | 766 | 4.6 |
| 2.0 | kg | | | | | 1,246 | 906 | 896 | 656 | 5.1 |
| 1.0 | kg | | | 1,776 | 1,226 | 1,196 | 866 | 826 | 606 | 5.3 |
| GROUND LEVEL | kg | | | 1,676 | 1,136 | 1,156 | 816 | 816 | 596 | 5.3 |
| -1.0 | kg | 2,286 | 1,976 | 1,646 | 1,106 | 1,126 | 796 | 856 | 616 | 5.1 |



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Lifting capacity at the arm end without bucket.
For lifting capacity including bucket, weight of the bucket or the bucket with quick coupler must be deducted from the lifting capacities.
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3. Ratings at bucket lift hook.
4. Lifting capacities are based on machine standing on level, firm and uniform ground.
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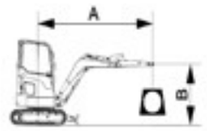
## LIFTING CAPACITY (METRIC)

### 9057F TS with 1'4" Shoes, 9'4" Boom, 5'2" Arm

A: Reach from swing center
B: Bucket hook height
C: Lifting capacity
Cf: Rating over front
Cs: Rating over side

**Conditions**

Boom length: 9'4"
Arm length: 5'2"
Bucket: None
Shoes: 1'4"
Unit: kg




**Blade Down**

**A (Unit: ft)**

| B (ft) | | 6.5 | | 10 | | 13.1 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | A |
| 10 | lbs | | | | | 3,225 | 2,037 | 2,895 | 1,685 | 15.1 |
| 6.6 | lbs | | | | | 3,511 | 1,993 | 2,763 | 1,443 | 16.7 |
| 3.3 | lbs | | | 5,843 | 2,697 | 4,149 | 1,905 | 2,807 | 1,333 | 17.4 |
| GROUND LEVEL | lbs | | | 7,163 | 2,499 | 4,721 | 1,795 | 2,983 | 1,311 | 17.4 |
| -3.3 | lbs | 5,029 | 4,347 | 7,251 | 2,433 | 4,897 | 1,751 | 3,533 | 1,355 | 16.7 |

**Blade Up**

**A (Unit: ft)**

| B (ft) | | 6.5 | | 10 | | 13.1 | | MAX REACH | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | Cf | Cs | Cf | Cs | Cf | Cs | Cf | Cs | A (ft) |
| 10 | lbs | | | | | 2,785 | 2,037 | 2,301 | 1,685 | 15.1 |
| 6.6 | lbs | | | | | 2,741 | 1,993 | 1,971 | 1,443 | 16.7 |
| 3.3 | lbs | | | 3,907 | 2,697 | 2,631 | 1,905 | 1,817 | 1,333 | 17.4 |
| GROUND LEVEL | lbs | | | 3,687 | 2,499 | 2,543 | 1,795 | 1,795 | 1,311 | 17.4 |
| -3.3 | lbs | 5,029 | 4,347 | 3,621 | 2,433 | 2,477 | 1,751 | 1,883 | 1,355 | 16.7 |



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# STANDARD EQUIPMENT

## 9051FZTS
## 9057FZTS

| ENGINE SYSTEM | 9051FZTS | 9057FZTS |
|---|---|---|
| Automatic preheating | ■ | ■ |
| Engine overheat protection | ■ | ■ |
| Engine oil low pressure protection | ■ | ■ |
| Auto idling | ■ | ■ |
| Auto idling stop function | ■ | ■ |
| Electric refueling pump with auto shutoff | ■ | ■ |

| ELECTRICAL SYSTEM | 9051FZTS | 9057FZTS |
|---|---|---|
| 1 signaling/warning horns | ■ | ■ |
| Pilot control shut-off lever | ■ | ■ |
| Battery disconnect switch | ■ | ■ |
| 12V power on demand | ■ | ■ |
| Boom and internal lights with time delay capability | ■ | ■ |
| Color LCD 5.7" monitor | ■ | ■ |
| Power-on password setting | ■ | ■ |
| P/E work modes | ■ | ■ |
| Travel alarm | ■ | ■ |
| Rotating beacon | ■ | ■ |
| Secondary engine shutoff switch | ■ | ■ |
| Seatbelt connected warning beacon | ■ | ■ |
| Boom work lamp guard | ■ | ■ |
| T-BOX | ■ | ■ |

| HYDRAULIC SYSTEM | 9051FZTS | 9057FZTS |
|---|---|---|
| Pilot accumulator | ■ | ■ |
| Automatic swing parking brake | ■ | ■ |
| Boom cylinder rod protect | ■ | ■ |
| Dozer blade cylinder rod protect | ■ | ■ |
| Dual way auxiliary lines with proportional joystick control. Monitor-controlled auxiliary circuit(one or two way). | ■ | ■ |
| High pressure quick coupler line with alarm | ■ | ■ |
| Dozer blade with float function | ■ | ■ |
| Automatic two speed travel | ■ | ■ |
| Boom and arm load holding valve, with overload alarm | ■ | ■ |



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| OPERATOR STATION | 9051FZTS | 9057FZTS |
|---|---|---|
| Enclosed cabin with ROPS | ■ | ■ |
| Document holder | ■ | ■ |
| Fire extinguisher, inc. bracket | ■ | ■ |
| Cab rearview mirrors (lift, right, back) | ■ | ■ |
| Openable front windshield with assist device | ■ | ■ |
| Armrest box, height adjustable | ■ | ■ |
| LED lights on cab front (2 lights) | ■ | ■ |
| Pneumatic suspension heated seat & 2 inch red retractable seat belt with wire connector | ■ | ■ |
| Front window with sliding sun visor | ■ | ■ |
| AM/FM radio with USB charging interface and Bluetooth | ■ | ■ |
| Automatic air conditioner, heater | ■ | ■ |

| DIGGING EQUIPMENT | 9051FZTS | 9057FZTS |
|---|---|---|
| Boom | 2,700 mm (9'4") | 2,850 mm (8’10”) |
| Standard arm | 1,450 mm (4'9") | 1,570 mm (5’2”) |
| Boom swing | ■ | ■ |

| UPPER STRUCTURE | 9051FZTS | 9057FZTS |
|---|---|---|
| Butter filler at front of platform | ■ | ■ |
| Lockable tool box | ■ | ■ |
| Towing eye on base frame | ■ | ■ |
| 2 mm platform bottom plate | ■ | ■ |
| Traction hole | ■ | ■ |
| Towing eye on machine lifting | ■ | ■ |
| Maintenance tool kit | ■ | ■ |

| UNDERCARRIAGE | 9051FZTS | 9057FZTS |
|---|---|---|
| Rubber shoes 400 mm (16") | ■ | ■ |



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# OPTIONAL EQUIPMENT

9051Fs
9057Fs

## HYDRAULIC SYSTEM

| | | |
|---|---|---|
| Arm cylinder rod protect | □ | □ |
| Bucket cylinder rod protect | □ | □ |
| Low pressure quick coupler line with alarm | □ | □ |
| High pressure quick coupler | □ | □ |
| Attachment rotation lines with flow adjustment | □ | □ |
| Attachment return Lines | □ | □ |
| Swing dozer blade with float function | □ | □ |

## OPERATOR STATION

| | | |
|---|---|---|
| Cab lights on top (4 rear 2 front) | □ | □ |
| Front guard | □ | □ |
| Fixed Operator Prodectiv Guards | □ | □ |

## DIGGING EQUIPMENT

| | | |
|---|---|---|
| Breaking hammer | □ | □ |
| Optional arm | □ | □ |
| Bucket | □ | □ |
| Additional counterweight | □ | □ |
| Hydraulic Thumbs | □ | □ |

## UNDERCARRIAGE

| | | |
|---|---|---|
| 600 mm (1'12") steel track | □ | □ |
| Long arm dozer blade | □ | □ |
| 400 mm (16") steel track | □ | □ |
| 400mm Steel Shoes with Rubber Pads | □ | □ |



LiuGong standard and optional equipment may vary from region to region. Please consult your LiuGong dealer for information specific to your area.

LIUGONG

TOUGH WORLD. TOUGH EQUIPMENT.

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