LiuGong

ALL NEW F-SERIES

# 9035F ZTS EXCAVATORS

| | |
|---|---|
| **Engine** | YANMAR 3TNV88F-ESLY, EU Stage V |
| **Net Power** | 17.3 kW (23.2 hp) |
| **Operating Weight** | 3,540 kg (7,804 lbs)-Canop<br>3,800 kg (8,377 lbs)-Cab |
| **Bucket Capacity** | 0.11 m³ (0.144 yd³) |




TOUGH WORLD. TOUGH EQUIPMENT.

# SPECIFICATIONS

| Operating weight | 3,540 kg (7,804 lbs)-Canopy<br>3,800 kg (8,377 lbs)-Cab |
|---|---|

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

| Bucket capacity | 0.11 m³ (0.144 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 | 3TNV88F-ESLY |
| Aspiration | Natural |
| Cooling fan drive | Direct |
| Displacement | 1.64 L (0.43 gal) |
| Rated speed | 2,200 rpm |
| Engine output - net | 17.3 kW (23.2 hp) |
| Engine output - gross | 18.2 kW (24.4 hp) |
| Maximum torque | 94.2 N·m (69.5 lbf·ft) @1,320 rpm |
| Bore × Stroke | 88 × 90 mm (3.46" × 3.5") |

## UNDERCARRIAGE

| | |
|---|---|
| Track shoe pitchs | 44 |
| Shoe width, triple grouser | 300 mm (12") |
| Bottom rollers each side | 4 |
| Top rollers each side | 1 |

## SWING SYSTEM

| Description | |
|---|---|
| Planetary gear reduction driven by high torque axial piston motor with spring applied parking brake; Hydraulic oil lubricate. | |
| Swing speed | 10 rpm |
| Swing torque | 8,009 N·m (5,907 lbf·ft) |

## HYDRAULIC SYSTEM

| Main pump | |
|---|---|
| Type | Variable displacement piston pump |
| Maximum flow | 99 L/min (26.2 gal/min) |
| **Relief valve setting** | |
| Implement | 25.3 MPa (3,669 psi) |
| Travel circuit | 24.5 MPa (3,553 psi) |
| Slew circuit | 20.6 MPa (2,988 psi) |
| Pilot circuit | 3.5 MPa (508 psi) |
| **Hydraulic cylinders** | |
| Boom cylinder – Bore × Stroke | ϕ90 × 507 mm (ϕ3.5" × 1'8") |
| Arm cylinder – Bore × Stroke | ϕ80 × 590 mm (ϕ3.2" × 1'11") |
| Bucket cylinder – Bore × Stroke | ϕ70 × 465 mm (ϕ2.8" × 1'6") |
| Dozer Cylinder – Bore×Stroke | ϕ100 ×142 mm (ϕ3.9" × 5.6") |
| Swing Cylinder – Bore×Stroke | ϕ80 × 400 mm (ϕ3.1" × 1'4") |

## ELECTRIC SYSTEM

| | |
|---|---|
| System voltage | 12 V |
| Batteries | 12V |
| Alternator | 12 V-55 A |
| Start motor | 12 V-1.7 kW (2.3 hp) |

## SERVICE CAPACITIES

| | |
|---|---|
| Fuel tank | 55 L (14.53 gal) |
| Engine oil | 6.7 L (1.77 gal) |
| Cooling system | 7 L (1.85 gal) |
| Hydraulic reservoir | 42 L (11.1 gal) |
| Hydraulic system total | 58 L (15.3 gal) |

## SOUND PERFORMANCE

| | |
|---|---|
| Interior sound power level (ISO 6396) | 78 dB(A) |
| Exterior sound power level (ISO 6395) | 94 dB(A) |

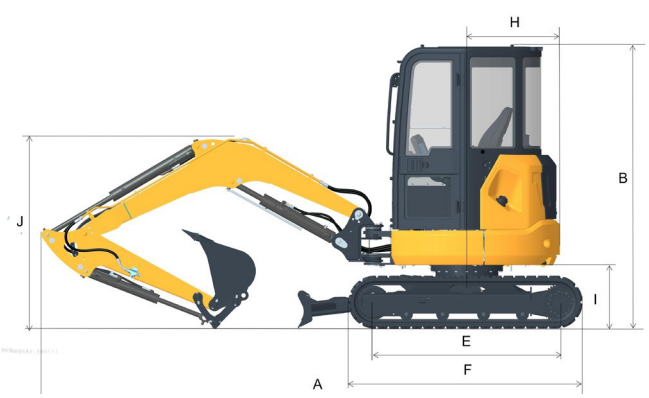
## DRIVE AND BRAKES

| Description | |
|---|---|
| 2-speed drive motors allow auto speed shifting. Each motor is equipped with a hydraulic released, spring applied parking brake. | |
| Max. travel speed | High: 4.2 km/h (2.6 mph)<br>Low: 2.5 km/h (1.5 mph) |
| Gradeability | 30°/58% |
| Max. drawbar pull | 33 |

**MHVP PTY LTD**
11 Des Young Dr, Moree, NSW, 2400
T: (02) 6752 4082 E: paul@mhvp.com.au
www.mhvp.com.au



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





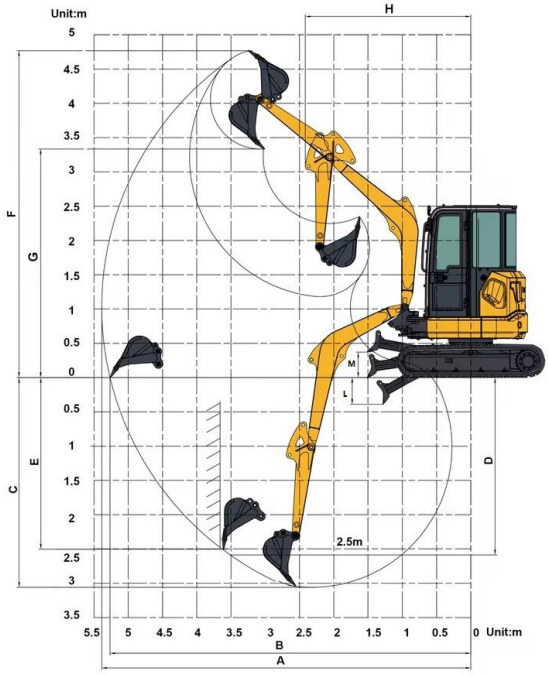


| DIMENSIONS | | |
|---|---|---|
| Boom | 2,450 mm (8') | |
| Arm Options | 1,320 mm (4'4") | 1,700 mm (5'7") |
| A Shipping Length | 4,810 mm (15'9") | 4,860 mm (15'11") |
| B Shipping Height – Top of Cab | 2,500 mm (8'2") | |
| C Track Gauge | 1,400 mm (4'7") | |
| D Undercarriage Width | 1,700 mm (5'7") | |
| E Length to Center of Rollers | 1,675 mm (5'6") | |
| F Track Length | 2,100 mm (6'11") | |
| G Overall Width of Upper Structure | 1,600 mm (5'3") | |
| H Tail Swing Radius | 850 mm (2'9") | |
| I Counterweight Ground Clearance | 580 mm (1'11") | |
| J Height – Top of Boom | 1,685 mm (5’53”) | |
| K Min. Ground Clearance | 258 mm (10") | |



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

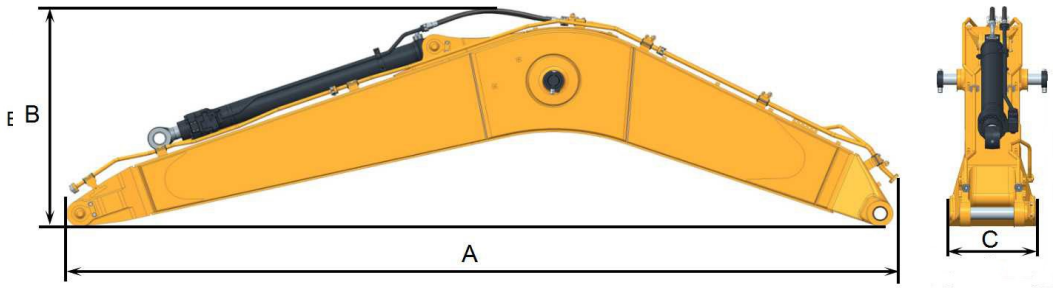
# SPECIFICATIONS




| WORKING RANGE | | |
|---|---|---|
| Boom | 2,450 mm (8') | |
| Arm options | 1,320 mm (4'4") | 1,700 mm (5'7") |
| A. Max. digging reach | 5,385 mm (17'8") | 5,715 mm (18'9") |
| B. Max. digging reach on ground | 5,270 mm (17'3") | 5,603 mm (18'5") |
| C. Max. digging depth | 3,085 mm (10'1") | 3,440 mm (11'3") |
| D. Max. digging depth (2.44 m level) | 2,610 mm (8'7") | 3,019 mm (9'11") |
| E. Max. vertical wall digging depth | 2,503 mm (8'3") | 2,713 mm (8'11") |
| F. Max. cutting height | 4,710 mm (15'5") | 4,843 mm (15'11") |
| G. Max. dumping height | 3,310 mm (10'10") | 3,463 mm (11'4") |
| H. Min. front swing radius | 2,416 mm (7'11") | 2,413 mm (7'11") |
| L. Dozer-Down | 390 mm (1'3") | 390 mm (1'3") |
| M. Dozer-Up | 370 mm (1'3") | 370 mm (1'3") |
| Bucket Digging Force (ISO, kN) | 33 kN (7,419 lbf) | 30 kN (6,744 lbf) |
| | / | / |
| Stick Digging Force (ISO, kN) | 22 kN (4,946 lbf) | 17.8 kN (4,002 lbf) |
| | / | / |
| Bucket Capacity | 0.11 (0.144 $yd^3$) | 0.07 (0.092 $yd^3$) |
| Bucket Tip Radius | 725 mm (2'5") | 725 mm (2'5") |



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




| BOOM DIMENSIONS | |
|---|---|
| Boom | 2,450 mm (8') |
| Length | 2,548 mm (8'4") |
| Height | 806 mm (2'8") |
| Width | 273 mm (11") |
| Weight | 142 kg (313 lbs) |

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

| ARM DIMENSIONS | | |
|---|---|---|
| Arm | 1,320 mm (4'4") | 1,700 mm (5'7") |
| Length | 1,706 mm (5'7") | 2,100 mm (6'11") |
| Height | 392 mm (1'3") | 392 (1'3") |
| Width | 145 mm (5.7") | 145mm (5.7") |
| Weight | 78 kg (172 lbs) | 97 kg (214 lbs) |

Includes bucket cylinder, linkage and pin.

## MACHINE WEIGHTS AND GROUND PRESSURE

| Shoe width | Operating weight | Ground pressure | Overall width |
|---|---|---|---|
| | 2450 mm (8') boom, 1,320 mm (4'4") arm, 0.11 m³ (0.144 yd³) bucket, 560 kg (1234.6 lbs) counterweight | | |
| 300 mm (12") Cab | 3,800 kg (8,377.6 lbs) | 35 kPa (177.7 psi) | 1,675 mm (5'6") |
| 300 mm (12") Canopy | 3,540 kg (7,804.4 lbs) | 34 kPa (167.7 psi) | 1,675 mm (5'6") |

## BUCKET SELECTION GUIDE

| Bucket Type | Capacity | Cutting Width | Weight | Teeth pcs | 2,450 mm (8'10") Boom 1,320 mm (4'9"), 1,700 mm (5'7") Arm |
|---|---|---|---|---|---|
| General purpose | 0.07 m³ (0.09 yd³) | 458 mm (1'6") | 82 kg (181 lbs) | EA | A |
| General Purpose | 0.11 m³ (0.14 yd³) | 610 mm (2') | 101 kg (223 lbs) | 3/4 | A |
| Digging | 0.045 m³ (0.06 yd³) | 305 mm (1') | 62 kg (137 lbs) | 4 | A/B |
| Digging | 0.065 m³ (0.09 yd³) | 458 mm (1'6") | 76 kg (168 lbs) | 2 | A/B |
| Grading | 0.14 m³ (0.18 yd³) | 830 mm (2'9") | 205 kg (452 lbs) | 3 | A |
| Ditch Cleaning | 0.18 m³ (0.24 yd³) | 1,000 mm (3'3") | 160 kg (353 lbs) | / | A |

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

# STANDARD EQUIPMENT

## ENGINE SYSTEM

Double elements air filter

Fuel pre-filter with fuel water separator

Electronic throttle

Automatic preheating

Engine overheat prevention system

Engine oil low pressure protection

Auto-idle speed control

Alarm: oil pressure, low fuel level, clogged air filter, overheating, etc

## ELECTRICAL SYSTEM

Negative switch

12V power source

Maintenance-free Battery

Boom working light guard

Rotating beacon

Machine startup password

Power modes (ECO/STD)  LCD Display

## HYDRAULIC SYSTEM

Electro-proportional joystick controlled dual way circuits

High pressure quick coupler pipeline

Boom cylinder guard

Dozer blade cylinder guard

Pilot hydraulic oil preheating

2-speed travel with auto-shift

Electro-proportional joystick controlled boom swing

Arm cylinder load holding valve

Boom cylinder load holding valve

Dozer blade load holding valve



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

## OPERATOR STATION

Adjustable Left-handside armrest

Travel lever with foldable travel pedal

Emergency escape and escape hammer

AM/FM radio with USB Input and bluetooth

TOPS Cab (TOP Guard, Level I)

A/C with defogging and defrosting functions

Fire extinguisher

Front work lights, on cab, 2

## DIGGING EQUIPMENT

| | |
|---|---|
| Boom | 2,450 mm |
| Standard arm | 1,320 mm |
| Boom swing | |

## UNDERCARRIAGE

Rubber shoes 400 mm (12")

## OTHERS

Grease gun holder

Tool box & Tool kit

Counterweight 0.56 ton



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

# OPTIONAL EQUIPMENT

## ELECTRICAL SYSTEM

| | |
|---|---|
| T-BOX | □ |
| Front work light, on cab, long strip | □ |

## HYDRAULIC SYSTEM

| | |
|---|---|
| Arm cylinder rod protect | □ |
| Bucket cylinder rod protect | □ |
| Attachment rotation lines with flow adjustment | □ |
| Attachment return lines | □ |
| Quick coupler lines, low pressure | □ |
| Boom and arm load holding valve, with overload alarm | □ |

## OPERATOR STATION

| | |
|---|---|
| Canopy (TOP Guard, Level I) | □ |
| OPG | □ |
| FOG | □ |
| Front work lights, on cab, 2 (Canopy) | □ |

## DIGGING EQUIPMENT

| | |
|---|---|
| Counterweight 0.27 t | □ |
| Arm, 1,700 mm | □ |
| Bucket | □ |
| 0.07m³ digging bucket (width, 446mm) with 3 teeth | □ |
| 0.07m³ digging bucket (width, 446mm) with 4 teeth | □ |
| 0.11m³ digging bucket (width,610mm) with 4 teeth and side teeth | □ |
| 0.065m³ trenching bucket (width, 405mm) with 3 teeth and lifting hole | □ |
| 0.045m³ digging bucket (width, 300mm) with 2 teeth and lifting hole | □ |
| 0.045m³ earth-moving bucket (width, 1000mm) with no teeth and replaceable main blade | □ |
| Hydraulic thumb with pipelines | □ |
| Breaking hammer, LGB53 | □ |
| Mechanical quick coulper | □ |
| Hydraulic quick coulper | □ |



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

## UNDERCARRIAGE

300mm steel track+rubber block

□



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.

**Guangxi LiuGong Machinery Co., Ltd.**
No. 1 Liutai Road, Liuzhou, Guangxi 545007, PR China
T: +86 772 388 6124 E: overseas@liugong.com
www.liugong.com

Like and follow us:

**LG-PB-9035E$_{TS}$-Stage V-WW-A4-022024-ENG**

The LiuGong series of logos herein, including but not limited to word marks, device marks, letter of alphabet marks and combination marks, as the registered trademarks of Guangxi LiuGong Group Co., Ltd. are used by Guangxi LiuGong Machinery Co., Ltd. with legal permission, and shall not b without permission. Specifications and designs are subject to change without notice. Illustrations and pictures may include optional equipment an not include all standard equipment. Equipment and options varies by regional availability.