

## TECHNICAL SPECIFICATIONS

### Engine

|                     |                         |
|---------------------|-------------------------|
| Engine Model        | YANMAR 3TNV74F-SPFN     |
| Number of Cylinders | 3                       |
| Max. Torque/Speed   | 48~51.8/1800±100N·m/rpm |
| Displacement        | 1.267L                  |
|                     |                         |

### Main Performance

|                      |         |
|----------------------|---------|
| Bucket Digging Force | 15.2kN  |
| Arm Digging Force    | 8.5kN   |
| Max. Traction Force  | 13.5kN  |
| Max. Walking Speed   | 3.7km/h |
| Min. Walking Speed   | 1.9km/h |
| Rotary Speed         | 9r/min  |
| Gradeability         | 30°     |
| Ground Pressure      | 29kPa   |
|                      |         |

### Hydraulic system

|                            |         |
|----------------------------|---------|
| Max. Main Pump Flow        | 99L/min |
| Main Safety Valve Pressure | 21.6MPa |
|                            |         |

### Oil Capacity

|                |       |
|----------------|-------|
| Fuel Tank      | 19L   |
| Hydraulic Tank | 15.4L |
| Engine Oil     | 3.4L  |



**Canada Mining Machinery Sales Ltd**  
[www.cmmss.ca](http://www.cmmss.ca) [www.lovol-canada.ca](http://www.lovol-canada.ca)

Address : #2-70 Haist Ave, Vaughan, L4L 5V4, ON,Canada  
 TEL: +437 6699966 /+437 6611666  
 E-mail:cmmsdirector@gmail.com

As manufacturer, CMMS has right to constantly upgrade and improve our products without informing to customers.  
 The pictures in literatures are for reference only, the detailed specifications are subject to real products.



|                  |                |
|------------------|----------------|
| Rated Power      | 14.6hp/2400rpm |
| Operating Weight | 3990 lbs       |
| Bucket Capacity  | 0.05 yd³       |

# FR18F -u



## FLEXIBILITY

**Tailless design** - Turning radius 850mm

**Boom side shift** - Small space corner operation

**Hypertensive cerebral hemorrhage**

Chassis 1040mm; Closed cab, split driving canopy, easy to pass 2m height limit



## RELIABILITY

**Boom bucket rod assembly explosion-proof valve**

Prevent falling, oil spray

**Load sensitive flow control**

Allocate the appropriate flow according to the demand of the load

**Large working range**

Maximum excavation radius 3905 mm

**Large bucket capacity**

Bucket 0.05yd³, High working efficiency



## EFFICIENCY

Imported engine, high reliability, low noise design

Three pump automatic control, according to real-time operating conditions, adjust the power demand

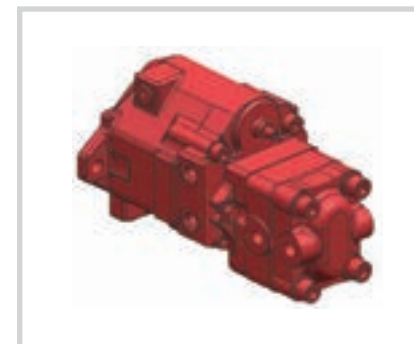
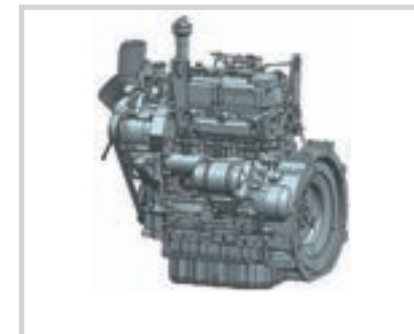
LOVOL customized main control spool, micro-control more accurate

Using the leading cycloidal rotary motor, small size, light weight, large torque

Open inspection window, hood open at a large Angle, easy maintenance

**Quick maintenance**

Design multiple inspection Windows



## COMFORT



### Yanmar engine

Low indoor and outdoor noise

### Large radiator area

High heat dissipation performance

### Humanization design

Increase the water cup holder, mobile phone case, increase the backrest height, headrest, backrest can be turned

Backrest extension, increase backrest height, backrest can be turned

Humanized design, water cup holder, mobile phone box

LED high brightness lights and increased shade protection

## SAFETY



### Cab meets certification requirements

FOPS/TOPS compliant cab, cockpit; Meet CE certified cab

### Stable chassis operation

The chassis has a telescopic function (990-1280mm)

The front service window is hinged + locked to facilitate daily maintenance

12V power base, easy access to electricity, reliable and durable

Chassis retractable for increased passability and operational stability

Split removable driving canopy, height less than 1.5m, more passability



## INCREASE YOUR PRODUCTIVITY AND PROFIT WITH LOVOL ATTACHMENTS

You can easily expand the performance of your machine by utilizing any of the variety of LOVOL Attachments. Each LOVOL Attachments is designed to fit the weight and horsepower of LOVOL Excavator for improved performance, safety, and stability.



Quick Coupler



Hydraulic Hammer



Hydraulic Rammer



Auger



Standard Bucket



## STANDARD CONFIGURATION

### Engine

|                                                               |
|---------------------------------------------------------------|
| Turbocharged 4 stroke water-cooling electronic injection type |
| Complying with China Stage III emissions                      |
| Automatic idle system                                         |
| Engine oil pan drain valve                                    |
| Radiator with protective net                                  |
| Double filter elements dry air filter element                 |
| Air pre-filter                                                |
| Air intake heater                                             |
| Fan guard                                                     |

### Hydraulic System

|                                                |
|------------------------------------------------|
| Automatic hydraulic system (confluence system) |
| Anti-swing valve                               |
| Boom and arm block valve                       |
| Multi-stage filtration system                  |
| Cylinder buffer device                         |
| Auxiliary hydraulic valve                      |
| Automatic two-speed travel motor               |

### Electronic Control System

|                                 |
|---------------------------------|
| 24V power supply                |
| Diagnostic interface            |
| Emergency stop switch           |
| Display brightness adjustment   |
| Maintenance tips                |
| Automatic diagnostic system     |
| Automatic idle system           |
| One-touch pressure augmentation |
| Safe stop / start function      |
| Main power switch               |
| Anti-theft system               |
| Engine starting protection      |
| Multilingual display            |

### Cab

|                                              |
|----------------------------------------------|
| Ashtray                                      |
| Cigar lighter                                |
| Seat belt                                    |
| Front sunshade                               |
| Storage box                                  |
| Escape hammer                                |
| Thermostatically controlled air conditioner  |
| Shock absorber (silicone oil and rubber pad) |
| Flexible antenna                             |
| Radio (with interfaces of MP3 and USB)       |
| Hydraulic safety lock                        |
| Sun-protection safety glass                  |
| Floor mat                                    |
| Large storage area                           |
| Pull-up front window                         |
| Removable lower windshield                   |
| Sunshade window                              |
| Front-bottom glass protective screening      |
| Wipers                                       |
| Open skylight                                |

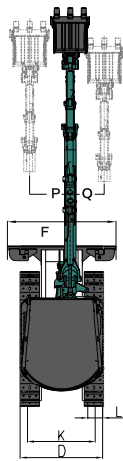
### Swing Platform

|                         |
|-------------------------|
| Passage with railing    |
| Tool box                |
| Anti-skid plate         |
| Large pedal             |
| Large armrest           |
| Bottom protection plate |
| Anti-collision beam     |

### Chassis

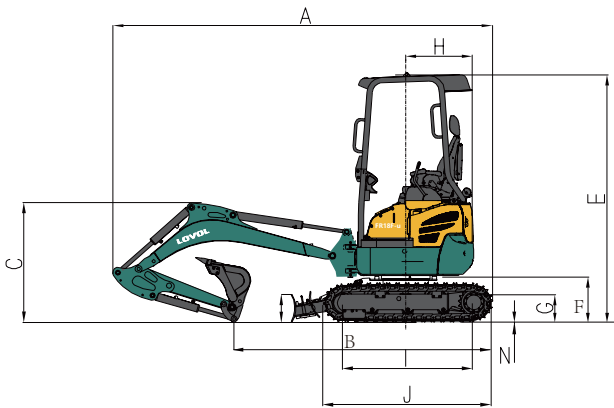
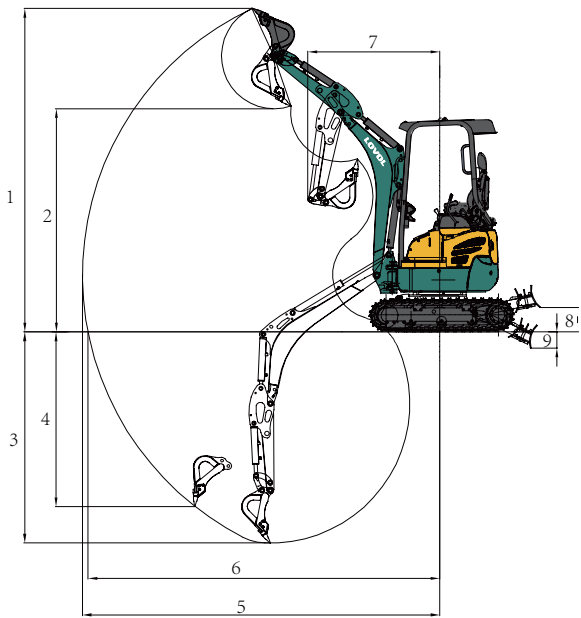
|                               |
|-------------------------------|
| Fixed chassis                 |
| 230mm, three-tooth track shoe |

## TECHNICAL SPECIFICATIONS



### Working Range

|                             |   |                   |
|-----------------------------|---|-------------------|
| Max. Digging Height         | 1 | 3540mm - 11.61 ft |
| Max. Dumping Height         | 2 | 2440mm - 8 ft     |
| Max. Digging Depth          | 3 | 2310mm-7.6 ft     |
| Max. Vertical Digging Depth | 4 | 1910mm-6.26 ft    |
| Max. Digging Radius         | 5 | 3905mm-12.8 ft    |
| Max. Ground Digging Radius  | 6 | 3845mm-12.6 ft    |
| Min. Turning Radius         | 7 | 1443mm - 4.7 ft   |
| Dozer Blade Lifting Height  | 8 | 266mm- 0.87 ft    |
| Dozer Blade Falling Height  | 9 | 176mm-0.57 ft     |



### Dimensions

|                                    |   |                                |
|------------------------------------|---|--------------------------------|
| Shipping Length                    | A | 3575mm - 11.72 ft              |
| Shipping Ground Length             | B | /                              |
| Boom Height                        | C | 1120mm -3.67 ft                |
| Shipping Width                     | D | 990mm - 3.25 ft                |
| Cab Height                         | E | 2347mm - 7.7 ft                |
| Ground Clearance of Counter Weight | F | 438mm - 1.43 ft                |
| Min. Ground Clearance              | G | 150mm - 0.5 ft                 |
| Tail Turning Radius                | H | 640mm-2 ft                     |
| Wheel Tread                        | I | 1230mm-4.03 ft                 |
| Track Length                       | J | 1593mm - 5.22 ft               |
| Shipping Ground Length             | K | 760/1050mm<br>2.5 ft / 5.22 ft |
| Track Shoe Width                   | L | 230mm - 0.75 ft                |



### Other Specifications

|                                  |                 |
|----------------------------------|-----------------|
| Boom Length                      | 1828mm - 6 ft   |
| Arm Length                       | 950mm - 3.11 ft |
| Track Section Number (each side) | 37              |
| Track Roller Number              | 3               |