



TYPHON MACHINERY

# Typhon Fury Series

## 1 Ton, 1.5 Ton and 2 Ton Road Roller

### Operation Instruction Manual



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## Warranty & Service Information

# 1. Preface

This manual provides information on how to operate and maintain the road roller series safely. Please read and understand it carefully for your safety and to prevent damage to the machine.

Please keep this manual in a safe place. If it is lost or an additional copy is required, please feel free to contact us.

This machine has been designed with safety in mind. However, improper operation or maintenance may result in risks. If you have any questions about the operation or maintenance of our machine, please consult us.

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## 2. Safety Information

This manual contains several safety notices such as “**Danger,**” “**Warning,**” “**Caution,**” and “**Important.**”

To prevent personal injury, property damage, or improper maintenance, please strictly follow these notices.

Safety warning labels remind you of potential hazards. Observing all safety information will help prevent accidents and damage.



**Warning:** Indicates hazards that may cause death or serious injury if not avoided.

**Caution:** Indicates hazards that may cause minor or moderate injury if not avoided.



**Note:** Indicates potential risks that may cause damage to parts or property if not avoided.

**Important:** Contains other important operational information.

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### 2.1 Safe Operation

Safe operation requires familiarity with the machine and proper training. Improper operation or operation by an untrained person may result in accidents.

Please read all instructions (including this manual and the engine manual), understand the working environment, and operate all controls correctly.

New operators must learn from experienced operators before using this machine.

First, release the hinged steering locking rod. Otherwise, the machine cannot turn.

Check whether all controls function normally immediately after startup.

Operate the machine only after confirming that all controls work properly.

Always pay attention to workers on site and the operation of other equipment.

## **2.1.1**

Remain seated in the operator's seat while using the machine.

## **2.1.2**

Stay alert and prevent the machine from moving or sliding accidentally when operating on uneven roads, ramps, soft ground, or rough surfaces.

## **2.1.3**

Operate carefully near mines, ditches, or platform edges.

Check whether the ground is strong enough to support the machine and operator.

Prevent the wheels from slipping and the machine from falling or tipping.

## **2.1.4**

Wear protective clothing suitable for the work site.

Keep hands, feet, and loose clothing away from moving parts.

## **2.1.5**

Read, understand, and follow all operating procedures in this manual before using the machine.

## **2.1.6**

Store the machine in a clean and dry place when not in use.

## **2.1.7**

Use all safety devices and operate the machine according to the correct sequence.

Operators must be trained and fully aware of all potential risks.

## **2.1.8**

Do not touch the engine or muffler while the engine is running or immediately after shutdown.

These parts may be hot enough to cause burns.

## **2.1.9**

Do not use unauthorized fittings or accessories.

Doing so may cause machine damage or personal injury.

### **2.1.10**

Do not leave the machine unattended while it is in operation.

### **2.1.11**

Do not operate the machine with the fuel tank cap open or missing.

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## **2.2 Safe Use of the Internal Combustion Engine**

There are risks associated with operating and refueling the engine.

Please carefully read the warning information in the engine manual.

Strictly follow all safety standards.

### **2.2.1**

Do not smoke while operating the machine.

### **2.2.2**

Do not smoke while refueling the engine.

### **2.2.3**

Do not refuel the engine while it is hot or running.

### **2.2.4**

Do not refuel near open flames.

### **2.2.5**

Prevent fuel overflow during refueling.

### **2.2.6**

Do not run the engine near open flames.

## 2.2.7

Do not operate the machine indoors unless sufficient ventilation is provided, such as exhaust fans or hoses.

Do not operate the machine in deep enclosed areas such as ditches.

Engine exhaust contains toxic carbon monoxide (CO), which may cause unconsciousness or death.

## 2.2.8

Refuel the engine in a well-ventilated area.

## 2.2.9

Tighten the fuel tank cap securely after refueling.

## 2.2.10

Keep the exhaust area clear of debris to prevent fire.

---

## 2.3 Safety Service

Improper maintenance may create hazards.

For durability and safety, maintain the machine regularly and repair it as needed.

### 2.3.1

Do not clean or repair the machine while it is running.

Moving parts may cause injury.

### 2.3.2

Do not clean parts with gasoline, fuel, or flammable solvents, especially in enclosed spaces.

Vapors may accumulate and cause an explosion.

### 2.3.3

Do not modify the machine without written manufacturer approval.

### 2.3.4

Check all buttons and switches every two weeks.

### 2.3.5

Check for leaves, paper, cardboard, or similar debris near the muffler.

The hot muffler may ignite flammable materials.

### 2.3.6

If any part is damaged, use only recommended replacement parts.

### 2.3.7

Keep the machine clean and all labels legible.

Replace any missing or unreadable labels.

### 2.3.8







Before adjusting or repairing any electrical component, disconnect the power supply and battery.




### 2.3.9

Perform regular maintenance as recommended in this manual.

## 2.4 Safety Labels

We use labels in accordance with applicable international standards.

No.	Label	Meaning
A		<b>Safety Warning</b> Read this manual for instructions.
B		Securing point
C		Oil level
D		Oil tank
E		Oil drain
F		<b>Safety Warning</b> Keep the machine away from sparks, flames, or flammable materials during refueling.

<b>G</b>		Hot surface
<b>H</b>		Fuel tank
<b>I</b>		Lifting point

## 3. Technical Parameters

### 3.1 Road Roller

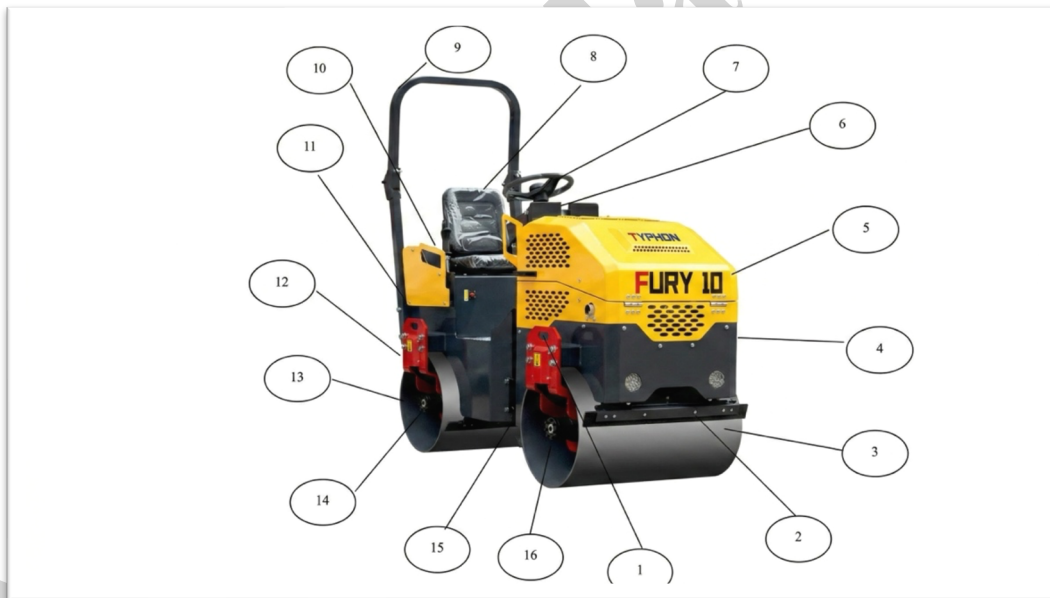
Item	<b>FURY 10</b>	<b>FURY 15</b>	<b>FURY 20</b>
Wheel Size (mm)	Front: 700 × 530 Rear: 700 × 530	Front: 800 × 530 Rear: 800 × 530	Front: 1000 × 610 Rear: 1000 × 610
Travel Speed (km/h)	0–8	0–8	0–12
Climbing Ability	30%	30%	30%
Drive Mode	Hydraulic drive	Hydraulic drive	Hydraulic drive
Drive Control	Stepless speed control	Stepless speed control	Stepless speed control
Vibration Mode	Electromagnetic control	Hydraulic control	Hydraulic control
Vibration Frequency (Hz)	75	75	75
Excitation Force (kN)	30	30	30
Dimensions (cm)	210 × 86 × 158	220 × 92 × 162	230 × 112 × 175
Operating Weight (kg)	1000	1500	2000

## 3.2 Lubrication

Component	Lubricant / Method
Engine lubricant type	Recommended API CH-grade lubricant
Hydraulic oil type	Wear-resistant hydraulic oil
Vibration system	Bearing grease
Rear-wheel drive bearing	Lubrication nipple / Manual grease gun
Front-wheel drive bearing	Sealed bearing – no lubricant required
Articulated joint	Lubrication nipple / Manual grease gun

## 4. Operations

### 4.1 Running and Service Parts



No.	Description	No.	Description
1	Securing point	9	Rollover protection frame
2	Scraper	10	Water tank
3	Front roller	11	Rear frame
4	Front frame	12	Scraper
5	Casing	13	Rear steel wheel
6	Instrument panel	14	Rear-wheel drive
7	Steering assembly	15	Articulated steering assembly
8	Seat	16	Front-wheel drive

## 4.2 Application

This machine is a light-duty road roller for compacting asphalt floors, pavements, driveways, parking lots, and other surfaces.

Do not use this machine for any other applications.

## 4.3 Recommended Fuel

Common fuels suitable for the engine may be used.

Always select clean and fresh fuel.

Water or dust may damage the fuel system.

Refer to the engine manual for correct fuel usage.

## 4.4 Pre-startup

Please carry out the following checks before startup:

- Engine oil level
- Hydraulic oil level
- Oil circuit condition
- Air filter condition
- Brake system
- Fuel level
- Water level
- Cleanliness and adjustment of the scraper

**Important:** Keep all fluid levels correct.

Maintain the machine regularly.

Keep the driving platform clean.

Use the steps and handles when getting on or off the machine.

## 4.5 Startup

### 4.5.1

Preheat the engine if it is cold, especially in low temperatures.

The preheating period should not exceed 5 seconds.

### 4.5.2

Place the forward/backward lever in the neutral position.

The road roller will start only when the lever is centered.

### 4.5.3

Check the parking brake setting.

### 4.5.4

Turn the ignition switch on to start the engine and ensure the vibration system is turned off.

## 4.6 Stop / Park

### 4.6.1

Stop the vibration system.

### 4.6.2

Close both water valves.

### 4.6.3

Stop the engine using the key.

### 4.6.4

Turn off the ignition switch after the engine stops.

**Important:** Remove the key after shutdown.

Otherwise, the battery may discharge.

## 4.7 Direction and Speed

The forward/backward lever controls both the travel direction and speed.

Use this lever to control machine speed instead of the throttle while driving.

## 4.8 Braking

The machine stops automatically when the lever is returned to the neutral position.

If the machine does not remain stationary in neutral, adjust as required.

## 4.9 Vibration

The vibration switch is located on the instrument panel.

Push the switch to enable vibration.

Pull it back to disable vibration.

**Note:** If the machine stops while vibrating, vibration may continue after restart.

Always restart on level ground with vibration turned off.

## 4.10 Water Supply System

The water supply system is controlled by a button located on the right-hand side of the operator.

## 4.11 Steering Lock Rod

The steering lock rod securely connects the front and rear wheels.

Use it before lifting the machine during transportation or maintenance.

## 4.12 Roll-Over Protection Device (ROPS)

The machine is equipped with an anti-overturning device.

Always set it correctly before operation.

**Important:** Do not lift the machine using this device.

Check the mounting screws monthly.

## 4.13 Hour Meter / Tachometer

The tachometer measures engine speed.

The hour meter records engine running hours and indicates maintenance intervals.

## 4.14 Operations on a Ramp

For safety, operation is normally limited to inclinations not exceeding 17°.

Do not operate laterally on a ramp.

## 4.15 Battery Pack Disconnection

Disconnect the battery before servicing any electrical components.

## 5. Regular Maintenance

**Important:** Regular maintenance ensures the best performance of the machine.

**Important:** Change the engine oil after the first **250 hours** of operation on a new machine.

Check and maintain wiring monthly.

- Check for damaged wires
- Check for loose wiring
- Check all electrical components

### 5.1 Routine Maintenance

#### 5.1.1 Every 10 Hours

- Check engine oil
- Check fuel tank level

#### 5.1.2 Every 50 Hours

- Check hydraulic oil level
- Check battery condition
- Tighten loose fastening bolts

#### 5.1.3 Every 100 Hours

- Clean fuel filter
- Clean air filter

#### 5.1.4 Every 200 Hours

- Replace fuel filter
- Add grease to vibratory steel wheel

#### 5.1.5 Every 500 Hours

- Replace engine oil
- Replace hydraulic oil
- Grease hinge pin and steering joint

### 5.2 Recommended Lubricants

- Engine oil: API CH-grade
- Hydraulic oil: Wear-resistant VG46
- Grease: High-temperature lithium-based grease
- Fuel: Diesel / gasoline

### 5.3 Fuel Filter

Replace the fuel filter annually.

Check for cracks or leaks.

## 5.4 Lubricant

Drain lubricant while warm into a proper container.

Dispose of used oil according to environmental regulations.

## 5.5 Scraper

Check scrapers regularly.

Adjust if necessary.

Avoid excessive pressure against the wheels.

## 5.6 Lubrication Nipples

- Hinged rod
- Rear wheel
- Vibrating block

## 5.7 Hydraulic System Cleaning

Keep hydraulic oil clean to maximize component life.

Contamination sources include:

- dust
- internal wear debris
- poor oil storage
- incorrect oil type
- leakage from pipes or fittings

## 5.8 Hydraulic Oil Requirements

Use high-quality petroleum-based wear-resistant hydraulic oil.

Do not mix different brands or grades.

## 5.9 Hydraulic Oil Level Indicator

Check visually and refill as necessary.

Use clean hydraulic oil only.

## 5.10 Suction Filter

The suction filter is installed in the hydraulic oil tank.

It does not require frequent replacement.

## 5.11 Hydraulic Oil Change

Drain used oil completely.

Replace filter element.

Refill with clean oil to specified level.

## 5.12 Hydraulic System Air Bleeding

Run engine without load.

Operate controls slowly.

Check and refill hydraulic oil as needed.

## 5.13 Brake Control

Adjust brake lever until braking force is approximately **30 lbf**.

## 5.14 Throttle Control

Run engine at maximum speed of **2800 rpm**.

## 5.15 Lifting

Lift only using designated lifting holes.

Ensure lifting equipment has adequate capacity.

## 5.16 Shipment

Secure machine using specified securing points only.

## 5.17 Storage

Before storing for more than 30 days:

- drain fuel
- drain water
- change engine oil
- remove battery
- store in dry protected area

## 5.18 Dragging

Use dragging valve only in emergency conditions.

Do not tow for long distances or above **3–5 km/h**.

Otherwise, the drive motor may be damaged.

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TYPHON Machinery

## Warranty & Service Information

Thank you for choosing **TYPHON Road Roller**.

To ensure safe operation and long-term performance, please follow all operation, inspection, and maintenance instructions provided in this manual.

For technical support, spare parts, warranty claims, or maintenance assistance, please contact our authorized sales or after-sales service team.

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### Customer Support Contact

Customer Service Hotline:

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# TYPHON

## Built for Power. Designed for Performance.



**FURY SERIES**

**TYPHON**