

# Single-Cylinder Diesel Engine

This single-cylinder diesel engine is designed for a range of applications. It provides reliable power through efficient combustion and a durable construction.

| 水冷系列主要技术参数 Main specification of Water-cooled series |                                                           |             |             |                             |             |
|------------------------------------------------------|-----------------------------------------------------------|-------------|-------------|-----------------------------|-------------|
| 型号<br>Model                                          | TH170                                                     | TH205       | TH170       | TH170A                      | TH170A      |
| 缸径<br>Bore                                           | 70/70                                                     |             |             |                             |             |
| 行程<br>Stroke                                         | 70                                                        |             |             |                             |             |
| 燃烧室形式<br>Type of combustion chamber                  | 涡流室式 Swirl combustion chamber                             |             |             | 预燃室式 Pre-combustion chamber |             |
| 缸数<br>Number of cylinders                            | 1                                                         |             |             |                             |             |
| 排量<br>Displacement (L)                               | 0.211                                                     | 0.199       | 0.290       | 0.280                       | 0.402       |
| 压缩比<br>Compression ratio                             | 22±1                                                      |             | 23±1        |                             |             |
| 1150转功率(kW/rpm)<br>1150rpm Power (kW)                | 1.22/2000                                                 | 1.43/2000   | 4.05/2000   | 3.64/2000                   | 4.88/2000   |
| 1150转转速(rpm)<br>1150rpm Speed (rpm)                  | 2342/2000                                                 | 2127/2000   | 3.66/2000   | 3.31/2000                   | 4.41/2000   |
| 额定转速(rpm)<br>Rated speed (rpm)                       | 2000                                                      |             |             |                             |             |
| 冷却方式<br>Cooling method                               | 水冷 Water-cooled                                           |             |             |                             |             |
| 润滑方式<br>Lubrication method                           | 离心飞溅 Centrifugal lubrication combined oil mist and splash |             |             |                             |             |
| 启动方式<br>Starting method                              | 脚踏脚踏 Hand starting                                        |             |             |                             |             |
| 外形尺寸<br>Dimensions (mm)                              | 460*280*343                                               | 487*294*364 | 566*324*415 | 589*342*440                 | 638*342*440 |
| 重量<br>Weight (kg)                                    | 600*305*295                                               | 600*305*295 | 610*370*400 | 610*370*400                 | 610*370*400 |

## ADDITIONAL IMAGES



## Overview

### Robust Single-Cylinder Diesel Engine

This series of horizontal 4-stroke diesel engines is engineered for reliability and efficient performance across diverse industrial and agricultural applications. Featuring water-cooled mechanisms and a choice between swirl or pre-combustion chamber designs, these engines deliver consistent power output. With a compact footprint and durable construction, they are an ideal solution for powering machinery in demanding environments.

## Performance Metrics

### Key Performance Metrics

**5.66 kW**

Max 1-Hour Power

**2600 rpm**

Rated Speed

**0.402 L**

Max Displacement

## Technical Specifications

### Technical Specifications

| Parameter         | Details                                      |
|-------------------|----------------------------------------------|
| Engine Type       | Horizontal 4-stroke                          |
| Cylinders         | 1                                            |
| Cooling Method    | Water-cooled                                 |
| Lubrication       | Centrifugal lubrication, oil mist and splash |
| Starting Method   | Hand starting                                |
| Compression Ratio | 22±1 to 23±1                                 |

## Model Comparison

### Water-Cooled Series Data

| Model | Bore x Stroke (mm) | Net Weight (kg) |
|-------|--------------------|-----------------|
| TR165 | 65x60              | 28              |
| TR170 | 70x60              | 35              |
| R175A | 75x80              | 60              |
| R180A | 80x80              | 70              |

## Applications

### Suitable Applications

Agricultural Machinery, Construction Equipment, Industrial Power, Water Pumping