

# Single-Cylinder Diesel Engine RD90N

The RD90N is a robust single-cylinder diesel engine designed for agricultural machinery and water pumps. It features direct fuel injection for efficient combustion and durable construction for long service life.

Model	RD90N-3	RD90N-4	RD90N	RD110N	RD120N
排 列 Type	直列; 卧式; 四冲程; 水冷 Single-cylinder horizontal 4-stroke water-cooled				
排 量 Displacement l	0.655	0.439	0.437	0.538	0.651
缸径行程 Bore x Stroke (mm)	86x80	80x86	86x84	90x90	96x90
额定功率 Continuous output kW(rpm)	6.517/2400	5.889/2400	5.889/2400	6.968/2400	8.081/2400
最大功率 Maximum output kW(rpm)	10.212/400	6.620/2400	6.620/2400	8.087/2400	8.812/2400
燃油喷射系统 Combustion system	直喷式 Direct Injection				
燃油消耗率 Specific fuel consumption g/kWh	255	255	258	255	250
启动方式 Starting method	手摇启动 Hand crank (可选电启动)				
启动容量 Lifting of capacity L	3	3	2.3	3	3
冷却容量 Cooling water capacity L	8	8	2.1	2.3	2.3
重 量 Net weight kg	72	75	80(5)	110(115)	106(110)
外型尺寸 Overall dimensions(LxWxH)(mm)	750*330*488	700*330*488	730*340*488	790*360*488	830*360*488
包装尺寸 S400 container	140	140	108	108	108

## ADDITIONAL IMAGES



## Product Overview

### Rugged Single-Cylinder Power

The RD90N is a robust and reliable single-cylinder diesel engine designed for high-demand applications including agricultural machinery, water pumps, and small generators. Featuring a direct fuel injection system and a water-cooled design, it delivers consistent performance and efficient combustion. Its rugged construction, including a cast iron cylinder liner and a heavy-duty crankshaft, ensures a long service life under demanding operating conditions.

## Performance Metrics

### Performance Output

**6.62 kW**

Maximum Output

**9 hp**

Maximum Horsepower

**5.88 kW**

Continuous Output

**2400 rpm**

Rated Speed

## Technical Specifications

### Physical Dimensions

- Displacement: 0.487L
- Bore x Stroke: 86x84 mm
- Overall Dimensions: 739x340x468 mm
- Net Weight: 88-93 kg

### Operational Capacities

Parameter	Value
Fuel Consumption	258 g/kW.h
Lubricating Oil Capacity	2.3 L
Cooling Water Capacity	2.1 L

### Design Type

Single-cylinder, Horizontal, 4-stroke, Water-cooled

## Operational Features

### Equipped Features

Direct Injection • Hand Crank Start • Electric Start Option • Head Lamp Included • Condenser Equipped