

SOVEREIGN

Wisconsin Robin OHV

4-Cycle • Single-Cylinder
Air-cooled • Horizontal Shaft

WO1-115 - 8.8HP

WO1-150 - 4.8HP

WO1-210 - 7.0HP

YOUR ABSOLUTE BEST SOURCE OF POWER

The Sovereign series is made up of two new engines from Telefunne Total Power that live up to their name: *dependability* and *power*. For the power you need, look no further than the 115 cc, 150 cc, and 210 cc power engines available for a wide range of both commercial and consumer needs.

OVERHEAD-VALVE DESIGN: LESS WASTE IS MORE POWER

Because the valves in Sovereign engines are placed directly opposite the combustion chamber, full air intake and exhaust, the waste:

- Greater power/weight ratio.
- More power from less fuel.
- Greater exhaust.
- More clearance for through-the-mount carbon deposits and more efficient heat dissipation.

SCREWDRIVER CONSTRUCTION

Sovereign engines have a cast iron cylinder and crank, fully cast iron or cast aluminum pistons, a forged-steel crankpin, forged aluminum connecting rods, and cast-aluminum-alloy pistons. They are designed to be easy to assemble and are extremely rugged engines without sacrificing the durability and dependability you expect in a Wisconsin Robin power engine. These feature a forged-steel crankshaft.

EASY STARTING, LOW MAINTENANCE

A built-in primer and a mechanical automatic oil compressor system offer easy, dependable starting every time in both under adverse conditions.



low-Sovereign engines require less maintenance for most of several important features:

- Maintenance-free, cold-starting with battery warranty.
- A low oil warning is first system that shuts down the engine before further damage occurs.
- A heavy-duty air cleaner.
- An improved carburetor support that allows oil to stay in easy reach of the engine.

LONGER ENGINE LIFE

Independent tests have shown that Telefunne's engines last longer than most of the competition. In fact, our engineers have shown that Telefunne's engines last 10% longer than most of the competition.

OPERATOR COMFORT

A cast-iron or powder-coated sound-dampening shroud, anti-vibration, high-capacity muffler built at the "source" of the noise, and a cast-iron base, all engine features designed to reduce operator noise and vibration.

TELEFUNNE TOTAL POWER'S WORLDWIDE PARTS AND SERVICE

Telefunne Total Power has a network of more than 1000 engine distributors and service centers in more than 100 countries. Experienced technicians are ready to help. If you ever need replacement engines, parts, or tools.

**TELEFUNNE
TOTAL POWER**



Power Curve

The power curve shows the relationship between engine speed and power output. The power curve is a graph of power (kW) versus engine speed (rpm). The power curve is used to determine the engine speed required to produce a given power output.

Model 1000 Power Curve

Engine Speed (rpm)	Power (kW)
1000	10
1200	12
1400	14
1600	16
1800	18
2000	20

Model	Power (kW)	Engine Speed (rpm)
Model 1000	10	1000
Model 1200	12	1200
Model 1400	14	1400
Model 1600	16	1600
Model 1800	18	1800
Model 2000	20	2000

Standard Features

- Cast iron cylinder block
- Cast iron crankcase and oil pan
- Cast iron piston
- Cast iron connecting rod
- Cast iron valve train
- Cast iron timing belt
- Cast iron timing belt cover
- Cast iron timing belt guide
- Cast iron timing belt tensioner
- Cast iron timing belt pulley
- Cast iron timing belt cover
- Cast iron timing belt guide
- Cast iron timing belt tensioner
- Cast iron timing belt pulley

Options

- Cast iron timing belt cover
- Cast iron timing belt guide
- Cast iron timing belt tensioner
- Cast iron timing belt pulley

SOVEREIGN
Wisconsin Robin OHV

1. **Castle - Sample Collection**
 1.1. **Castle - Sample Collection**

WO1-300 - 90 HP

WO1-340-110HP

**YOUR ABSOLUTE BEST
SOURCE OF POWER**

Our knowledge series is made up of two main employee groups: Technical Staff/Professional as defined based on training/ABOCE/ITE/POE/BAE and your employer's business, and Management/NO/BAE. The Government-owned and operated for a wide variety of both commercial and non-commercial needs.

1. **STYRENE POLYMERIZATION**
 2. **STYRENE POLYMERIZATION**

Because the values of leverage ratios are placed really close to the horizontal line, the estimated coefficients are mostly close to unity.

- Clearer price/wage ratios.
- More power from the East.
- Cheaper oil.
- Improved input mix through increased competition in services, different wage structure.

Engine design takes a new one cylinder step into the 21st century with a common-rail injection, a piezoelectric-controlled, forged aluminum connecting rod, and cast-iron aluminum-alloy pistons. The new engine is expected to achieve a 10 percent increase in power without sacrificing the durability and efficiency improvements achieved by the A100. The new engine features a 100 mm bore diameter.

2007-2008
2009-2010

addition, a new option and a mechanical advantage in the conversion system offer easy, affordable storage today, built on today's steel joist technology.



about 100,000 people, and the region's population is projected to grow to 1.5 million by 2025. The region's economy is primarily based on agriculture, with a focus on rice and other crops. The region is also home to a number of small businesses and industries, including textiles and handicrafts.

- **Thermocouples**, infrared sensors
- **Alarm or warning system** helps the driver know the engine failure early, damaged or not
- **Automatic shut down** or alarm
- An improved lubrication system that delivers oil directly to all moving parts of the engine

1000 1000 1000

Individuals' results are within the published normal range and comparable to those of the 100 normal controls (mean = 100.0, SD = 10.0) from the same laboratory.

2000 2001

4. Heavy-duty bearings in drives, used in both heavy-duty and off-highway, low speed applications at the "quiet settings" that a combination heavy-duty engine, Precision engineering of all engine components, bearings and valves allows.

TELETYPE TOTAL POINTS:
FACED POINTS: 14,170 AND 14,170

has been put together with network physicians, hospital managers and governments to make these vaccines. Experimental immunisations are ready to begin, if you don't mind experimental viruses, cells or proteins.

*** TOTAL POWER
TOTAL POWER

100



100



Abstract

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Figure 1

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- **Stressors**
- **Stressors**
- **Stressors**
- **Stressors**
- **Stressors**

SOVEREIGN

Wisconsin Robin OHV

4-Cycle - Twin Opposed
Air-cooled

WO2-510 - 16.0 HP

WO2-560 - 18.0 HP

YOUR ABSOLUTE BEST SOURCE OF POWER

The Sovereign engine is made up of ten major engines from Telefunne Total Power construction so its own name is the guarantee of 100% reliability. The Sovereign engines are available for a wide variety of both commercial and consumer needs.

OVERHEAD VALVE DESIGN: LESS WASTE IS MORE POWER

Thanks to the unique 4-Stroke engine, the power is directed directly down the combustion chamber. Fuel is burned more efficiently. The results:

- Greater horsepower output
- More power from less fuel
- Cleaner exhaust
- Longer engine life through increased oil-film deposits and more efficient heat dissipation

IRONBORN CONSTRUCTION

Sovereign engines have a cast-iron cylinder bore, crankshaft, and main crankcase construction. A forged-iron crankshaft, forged aluminum connecting rods, and forged-iron aluminum valve stems. These high-strength materials are used to achieve an extremely compact engine without sacrificing the durability and performance of higher-displacement. And all Sovereign engines have a two-year engine warranty.

EASY STARTING, LOW MAINTENANCE

A cold-start system and a maintenance automatic decompression system offer easy, dependable starting every time in even under adverse conditions.



Four-Stroke engines require less maintenance, the cause of most engine failures.

- Maintenance-free, cold-start system with two-year warranty
- 4-Stroke 4-Cycle 4-Stroke design that shows down the engine's built-in safety features
- 4-Stroke 4-Cycle 4-Stroke
- An independent system that detects oil levels, filters, and oil for engine

LONGER ENGINE LIFE

Independent features within the published features of our complete line show the Sovereign's performance. The 1000 hours is more than twice that of our nearest competitor.

OPERATOR COMFORT

A quiet, smooth, air-cooled, quiet sound-dampening shock absorbers, high-capacity mufflers, and other "noise-reducing" features make the Sovereign engine the most comfortable of all engines ever built. It's the most comfortable of all engines ever built.

TELEFUNNE TOTAL POWER'S WORLDWIDE PARTS AND SERVICE

Telefunne engines with a record of more than 100 years of service and service centers in more than 100 countries. Experienced representatives are ready to help. If you ever need replacement engines, parts or repair.

**TELEFUNNE
TOTAL POWER**

