

Delphi Mechanical Throttle Bodies for Small Engines

Delphi Mechanical Throttle Bodies for Small Engines control airflow to the engine. They feature a butterfly valve in the throttle body which opens and closes the passage into the intake manifold to increase or decrease the volume of incoming air.

Delphi Mechanical Throttle Bodies offer a simpler alternative to electronic systems while maintaining excellent durability and reliability. They are mechanically linked to the accelerator and are constructed of aluminum or composite materials. Delphi Mechanical Throttle Bodies are also designed to provide the manufacturer with packaging flexibility.

► Benefits

- Offer integrated idle air control options, including an Idle Air Control Valve (IACV) or an idle air control bypass adjustment screw
- Optional integrated sensors can be used for more advanced engine control and diagnostics:
 - Throttle Position Sensor (TPS)
 - Manifold Absolute Pressure/Manifold Air Temperature (MAP/MAT) Sensor
- Throttle control interfaces include cable over cam or multiple lever linkage

► Typical Applications

Delphi Mechanical Throttle Bodies for Small Engines are designed for one- and two-cylinder (In-Line and "V") gasoline engines, from 10 hp to 42 hp. They can also be used in flexible fuel applications.

Delphi Mechanical Throttle Bodies for Small Engines can be used for the following:

- Motorcycles
- Motor scooters
- Commercial products
 - Lawn mowers
 - Stationary power generators
- Power sports products
 - Personal all-terrain vehicles
- Marine engines



Delphi Mechanical Throttle Body with Integrated Throttle Position Sensor, Idle Air Control Valve and Manifold Absolute Pressure/Manifold Air Temperature Sensor is Delphi's most highly integrated mechanical air control device.



Delphi Mechanical Throttle Body with Throttle Position Sensor offers manufacturers a good value for engine air control.

▶ Performance Advantages

Delphi's Mechanical Throttle Bodies for small engine non-automotive applications are integral to electronic fuel injection systems, which offer a significant improvement in performance, fuel economy and emissions reduction compared to conventional carbureted systems.

Delphi offers the benefits of proven experience producing a wide range of non-automotive engine products for motorcycles, marine engines and power equipment.

▶ The Delphi Advantage

Delphi offers the benefits of a long history in developing and manufacturing engine air control technology. Delphi manufactures engine air controls at facilities in North America, Europe, Asia and South America with technical support facilities in each region. This global presence helps Delphi provide close customer support and exceptional on-time delivery performance.

As a global leader in engine management systems technology, Delphi can help manufacturers around the world meet emissions requirements, improve fuel economy and enhance performance. Delphi is a source for high value solutions and our expertise is built into every product. Delphi's flexible engineering approach encourages collaboration. And, Delphi has a thorough understanding of markets around the world and a global network of resources.