

30 YEARS OF PROOF

KVT Gas powered engines sets has proven themselves in the last 30 years in different applications offering reliability and durability to our customers. Inspired by and led by the future requirements of our customers to meet the needs of different industries including cogen, telecommunications, rental, retail, healthcare, materials handling, agricultural/turf, manufacturing, construction, emergency aid relief and data centres.



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KVT
-GAS-

GAS ENGINES





GAS POWERED ENGINES

The tightening of regulations and the instability of traditional fuel makes alternatively fuelled gas engines an increasingly attractive option. Natural gas, Liquefied Petroleum Gas and bio fuels offer quiet, cleaner and domestically produced energy at a lower overall cost.

Today's power users need robust and cost-effective power generation systems that meet ever-increasing global emissions standards. To harness its enormous potential, Kemper en van Twist (KVT) has been gasifying Perkins Diesel engines over the last 30 years. Today we are designing, developing and manufacturing gas engines meeting worldwide customer needs more precisely than ever before.

This international success can be attributed to KVT's philosophy of putting customers at the heart of our business and together meeting market challenges, anticipating the changing requirements.

As demand for cleaner power increases throughout the world, our insight and experience means we can tailor Perkins engines specifically to meet your needs, now and in the future.

That is why we have developed with Perkins permission a versatile range of gas engines between 13 kWm to 66 kWm on 1500 RPM natural aspirated which meet all the fundamental requirements for your gas-fuelled applications in this range. The engines are offered as standard electro-units for power generation, as cogen-units for combined heat and power or as industrial open power units for mobile application.

KVT adopts a flexible approach and offers solutions ranging from a core engine to a complete genset on alternative fuel. The fact that the gas engines are designed on the basis of Perkins diesel engines, key engine knowledge is already with each Perkins distributor, available and accessible. Therefore the gas engines can be serviced worldwide to meet the high expectations from our customers.

CUSTOMER BENEFITS

- Reliable power from proven diesel engine technology
- Runs on LPG, NG and biofuel to provide low exhaust emissions
- Quiet combustion process reducing operating noise
- Compact design requiring minimal space
- Common components with diesel engines
- Easy, low cost maintenance
- Global network for service



RELIABLE, QUIET AND CLEAN POWER

KVT Gas delivers customers reliable power from proven diesel engine technology making the installation versatile, quiet and clean.

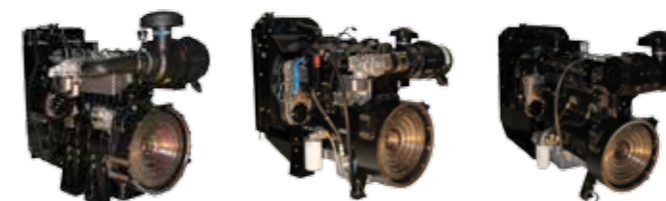


ENGINE USES AND BENEFITS

The gas engines are based on Perkins diesel engines and therefore compact and reliable, for use as standby, prime or continuous power generation, as well as co- and trigeneration CHP. We also offer our engines for variable speed applications such as material handling equipment. Available for use with Natural gas, CNG, LPG also Bio, syn gas and other process gases.

| ENGINE TYPE MANUFACTURER | BASED ON | NORMAL RATING COP kWm |
|-----------------------------|--------------|--------------------------|
| KVT-E15SI | Perkins 403 | 13 |
| KVT-E22SI | Perkins 404 | 18 |
| KVT-E33SI | Perkins 1103 | 32 |
| KVT-E44SI | Perkins 1104 | 43 |
| KVT-E60SI | Perkins 1006 | 54 |
| KVT-E70SI | Perkins 1106 | 66 |

Also turbocharged engines are available on special request in the range of 30 up to 110 kWm.



KVT uses specially designed components to make the engine much more structurally robust than any other conventional spark ignition engine. The combustion chamber components are designed to withstand high cylinder temperatures and peak pressures. This lowers the stress levels resulting in longer service life, higher reliability and lower maintenance costs.

HIGH STANDARDS

Quality, reliability and durability, are the main design features of our engines, to meet the high standards demanded by customers. Clean burning fuel lead to extended engine life and lower servicing costs. Excellent product service and support is available through a worldwide network of Perkins distributors and partners.