

## ■ FEATURE OF 1KD-FTV ENGINE

The 1KD-FTV engine has been able to achieve the following performance through the adoption of the items listed below.

- (1) High performance and fuel economy
- (2) Low noise and vibration
- (3) Lightweight and compact design
- (4) Good serviceability
- (5) Clean emission

Item	(1)	(2)	(3)	(4)	(5)
Cylinder head cover is made of plastic and cylinder head is made of aluminum alloy.			○		
2 balance shafts built into the cylinder block.		○			
A shim-less type valve lifter is used.	○			○	
Crankshaft pulley has adopted a torsional damper.		○			
A common-rail type fuel injection system is used.	○	○			○
A pilot injection control system is used.	○	○			○
Injector is provided in the bore center to improve its air utilization rate.	○				○
Piston provided with combustion chamber is used in conjunction with the adoption of direct injection.	○				○
A variable nozzle vane type turbocharger and high efficiency intercooler are used.	○		○		○
A camshaft is driven by a timing belt and gear.		○	○		
Intake restrictor valve and air flow meter are used.	○	○			○
SC (Segment Conductor) type alternator has been adopted.			○		
The no-contact sensor has been adopted in the accelerator pedal position sensor.				○	
An automatic tensioner is provided for the timing belt.				○	
A serpentine belt drive system to drive accessory components is used.				○	
The electrical hydraulic type engine mounts have been adopted.		○			
An EGR and a catalytic converter are used.					○
The passage for the EGR is provided in the cylinder head and water cooling type EGR cooler is used.			○		○