■ FEATURES OF 1KR-FE ENGINE

The 1KR-FE engine has achieved the following performance through the adoption of the items listed below.

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

Section	Item	(1)	(2)	(3)	(4)	(5)
Engine Proper	A cylinder head cover made of plastic is used.		○	○		
	New LFA (Low Friction Resin with Alumina) coating is used on the sliding surface of the piston.	○				○
	Low-tension piston rings are used.	○				○
	Oil strainer made of plastic is used.			○		
	Spiny liners are used.	○				
Valve Mechanism	A shimless type valve lifters are used.			○		
	The VVT-i system is used.	○				○
	A timing chain and chain tensioner are used.	○		○	○	
Intake and Exhaust System	Intake manifold made of plastic is used.			○		
	A stainless steel exhaust manifold is used.			○		
	A linkless type throttle body is used.			○	○	
Fuel System	A fuel delivery pipe made of plastic is used.			○		
	A fuel returnless system is used.			○		○
	4-hole type fuel injectors with a high atomizing performance are used.	○				○
Ignition System	The long-reach type spark plugs are used.	○				
	The DIS (Direct Ignition System) makes ignition timing adjustment unnecessary.	○			○	○
Engine Control System	The flat type knock sensor is used.	○				
	The vacuum sensor and the intake air temperature sensor are integrated.			○		