■FEATURES OF 3MZ-FE ENGINE

The 3MZ-FE engine has achieved the following performance through the use 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)
Engine Proper	An upright type intake port is used.	○				
	A cylinder block made of aluminum alloy is used.			○		
	Connecting rods that have been forged for high strength are used.			○		
	The forged crankshaft has four journals and nine counter weights.	○	○			
Valve Mechanism	A VVT-i (Variable Valve Timing-intelligent) system is used.	○				○
	A timing belt and tensioner are used.				○	
Cooling System	The engine coolant used is TOYOTA Genuine SLLC (Super Long Life Coolant).				○	
Intake and Exhaust System	A charcoal filter is used in the air cleaner cap.					○
	An intake manifold made of plastic is used.			○		
	Stainless steel exhaust manifolds are used.			○		
	An ultra thin-wall, high-cell density ceramic type TWC (Three-Way Catalytic converter) is used.					○
	A 2-way exhaust control system is used in the main muffler.		○			
Fuel System	The fuel returnless system is used.			○	○	○
	12-hole type fuel injectors are used.	○				○
	Quick connectors are used to connect the fuel tube with the fuel pipe.				○	
	A fuel vapor-containment system is used.					○
Ignition System	The DIS (Direct Ignition System) makes ignition timing adjustment unnecessary.	○			○	○
	Iridium-tipped spark plugs are used.	○			○	
Engine Control System	The ETCS-i (Electronic Throttle Control System-intelligent) is used.	○				○
	An evaporative emission control system is used.					○