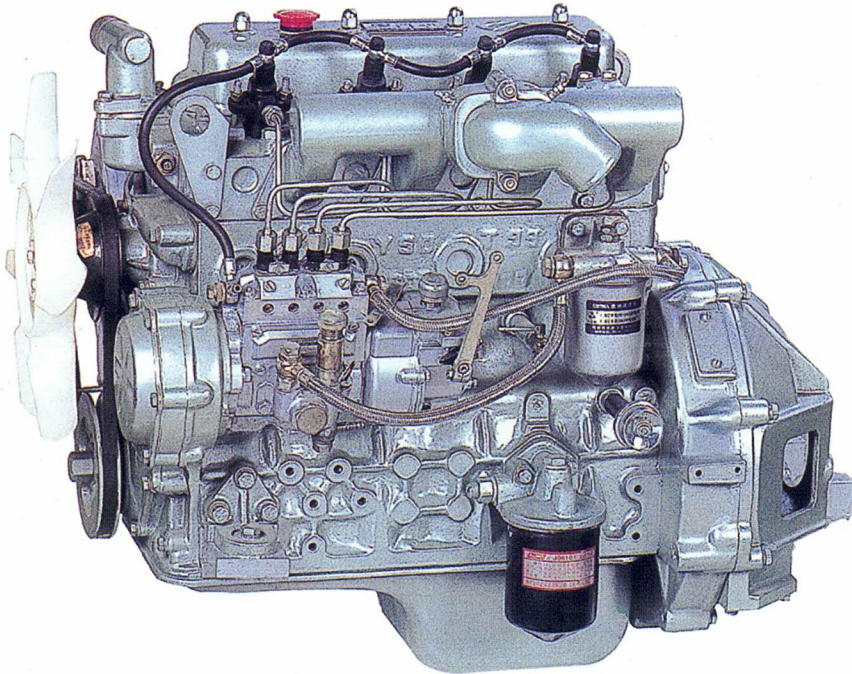




MAC-TECH DIESEL ENGINE

MD490

■ Products Introduction



The new MD490 designed engines have the following features:(1) Through simulation test for engine body, small curve surface is added to big curve surface of each cylinder skirt and thickness of bottom plate is increased, which have greatly raised rigidity of engine body and reduced vibration, noise, so performance of motor has been raised and usage life been prolonged. (2) In line with suggestions of AVL co., spiral intake passage has been redesigned and direct-injection combustion chamber have been adopted, which have reduced oil consumption, improved emission level and starting performance in low temperature. (3) Cooling system of motor has been improved, so it can be evenly cooled, which avoid partially overheated phenomenon in water cavity and reduce heat load of diesel engine. (4) The diesel engines are inter changeable whose overall dimensions are the same as 490 diesel engines and whose major spare parts are interchangeable with 490 engines, (5) Through improvement of oil sumps, the ability to incline to vertical and horizontal has been raised. Therefore, MD490 engines can be used in mountain village and rural area.

MODEL	MD490	
Type	Vertical, water-cooling, 4-stroke, direct injection combustion chamber	
No. of cylinders	4	
Bore x stroke	(mm x mm)	90 x 100
Compression ratio	18	
Total displacement	(L)	2.54
Cylinder order	1-3-4-2	
Full load fuel consumption	(g/kW - h)	< 247.5
Rated power / speed	(kW/r/min)	42/3000
Max.torque	(N.m)	> 149.7
Oil consumption ratio	(g/kW - h)	< 0.8%
Cooling fashion	Cooling by water forced	
Lubrication fashion	Splashing under pressure	
Starting fashion	Started by electric motor	
Overall dimensions(mm)	(L x H x W)	716 x 530 x 670
Net weight	(kg)	230



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