

# S12R

Output marine auxiliary from 760-1270 kW  
Output marine propulsion from 880-1210 kW



## MARINE PROPULSION AND AUXILIARY ENGINES

Check the many excellent reasons for buying a Mitsubishi S12R marine diesel engine.

### Economic operation

All Mitsubishi engines are designed and built to deliver performance as well as fuel efficiency. From the combustion chamber design to the direct fuel injection technology, from the turbocharger to the advanced cooling system - everything has been perfectly balanced to provide a highly economic operation and optimum fuel consumption across the entire power curve.

### Easy maintenance

With Mitsubishi's S12R marine engines, maintenance is very easy. Each cylinder has its own cylinder head and the engine has large inspection covers in the crankcase and oil-pan. Oil and fuel filters are easily accessible too. No auxiliary component requires separate lubrication, whether it's the fuel injection pumps, the governor, the waterpump or the turbochargers.

### Approved by all major classification societies

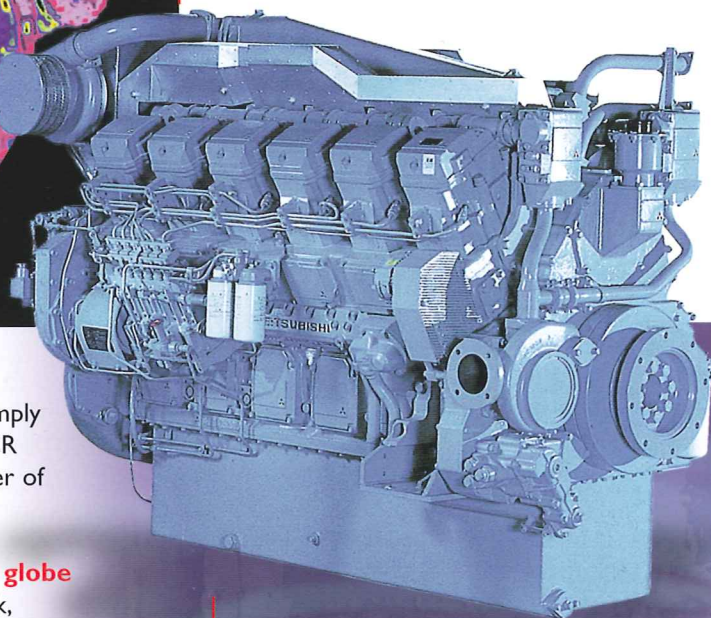
At our ISO certified manufacturing facilities, every Mitsubishi S12R diesel engine is built to meet the highest quality standards. All major marine classification societies, as well as the national shipping authorities, recognise the precision of Mitsubishi's manufacturing procedures.

### Environmental compatibility

Mitsubishi offers a full line-up of engines that comply with environmental regulations and IMO and CCR emission standards, as certified by Lloyd's Register of Shipping and Germanischer Lloyd.

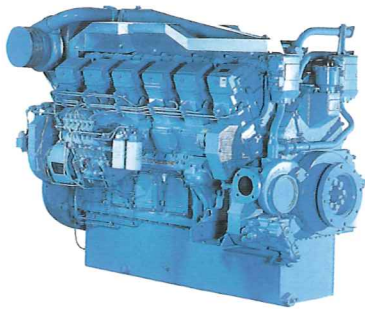
### 24 hour service - local support around the globe

A team of specialists is available around the clock, throughout the year, all over the world to ensure that service and maintenance are performed without delay.



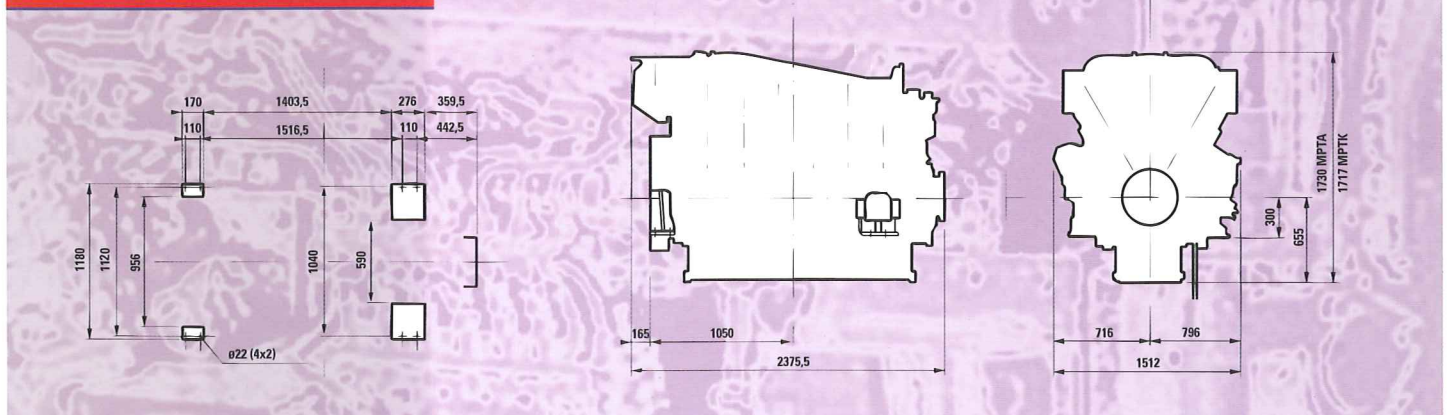
Mitsubishi Marine Engines. **You got the power!**





Model	SI2R-MPTA	SI2R-MPTK
Type	4-cycle, watercooled, turbocharged diesel engine	
	MPTA with aftercooler, cooled by engine jacket water	
	MPTK with intercooler, cooled by (sea)water of max. 32°C	
Combustion system	direct injection	
Cylinder arrangement	12-60°V.	
Bore x stroke	170 x 180 mm.	
Total displacement	49 Ltr.	
Compression ratio	14 : 1	
Rotation	SAE standard (Counter-clockwise viewed from flywheel end)	
Starting system	Electric motor or air motor	
Flywheel	SAE 21	
Flywheelhousing	SAE 00	
Fuel oil	ISO8217, DMX-class	
Lubricating oil	API service grade "CD" or "CF" class	
Dry weight, kg.	5210	5240
Output marine auxiliary	760 kW @ 1200 rpm	840 kW @ 1200 rpm
	1110 kW @ 1500 rpm	1120 kW @ 1500 rpm
	1190 kW @ 1800 rpm	1270 kW @ 1800 rpm
Output marine propulsion		
heavy duty	880 kW @ 1600 rpm	940 kW @ 1600 rpm
medium duty	970 kW @ 1650 rpm	1040 kW @ 1650 rpm
light duty	1140 kW @ 1800 rpm	1210 kW @ 1800 rpm

## Outside dimensions



## Standard Engine Equipment

### Fuel system

flexible fuel supply and return hoses, fuel feed pumps, change over type fuel filters, fuel injection pumps, shielded fuel injection lines, fuel injectors, overflow valve

### Lubricating oil system

wet type oil pan with inspection covers, oil pressure pump (gear driven), full-flow lubricating oil filters (change over type), by-pass filter (change over

type), oilcooler with thermostat, piston cooling through oil injectors

### Cooling system

fresh waterpump, thermostats with by-pass

### 24 Volts electric system, earth floated

startermotors, alternator 30 Amps., stop solenoid (ETS)

### Inlet- and exhaust system

Mitsubishi turbochargers with vertical

exhaust outlet, air inlet silencers with pre-cleaner, inlet air aftercoolers or intercoolers, inlet ducts, exhaust manifolds

### General

hydraulic governor with oil supply system, mounting brackets, flywheel and housing SAE standard, torsional vibration damper, parts catalogue and instruction manual

