

# MAS 1330 - S12 R MPTA FE

## Fuel System

Fuel feed pump  
Change over type fuel filters  
Fuel injection pump  
Shielded fuel injection lines

## Lubricating Oil System

Oil pressure alarm switch  
Full-flow lubricating oil filters (change over type)  
By-pass filter (change over type)  
Oil cooler with thermostat

## Cooling System

Fresh water pump  
Thermostats with by-pass

## Electric System

Starter motor  
Alternator 30 Amps

## Inlet and Exhaust System

Turbo chargers MITSUBISHI  
Inlet air main fold with air cleaner  
Dry type exhaust main fold with vertical outlet, counter flange

## Other Standard Equipment

Hydraulic governor  
Mounting brackets

## Alternator

Stamford type HMC  
Engine and alternator are mounted on a welded steel base frame, installed on vibration dampers

## TECHNICAL DATA

| Power                                                                                    | Cylinders            | Diameter x Bore | Total Cylinder Capacity | Injection System | Starting System   | Fly head      | Dry Weight |
|------------------------------------------------------------------------------------------|----------------------|-----------------|-------------------------|------------------|-------------------|---------------|------------|
| 50 Hz - 1331 Kva - 1500 Rpm<br>60 Hz - 912 Kva - 1200 Rpm<br>60 Hz - 1428 Kva - 1800 Rpm | 12 cylinders in line | 170x180 mm      | 49.0 liters             | Direct           | 24 Volts bi-polar | SAE 21 / SAE1 | 10400 Kg   |

## Options

### Classification

BV, LRS, DNV classification (and other). IMO classification

### Engine cooling system

Heat exchanger fresh water / raw water (turbo lair or combined)  
Plate cooler  
Box cooler  
Keel cooling  
Mounted seawater pump  
Electric seawater pump

### Exhaust

Flexible expansion joint  
Silencer 22 db or 35 db or others  
Spark-arrestor

### Lubricating oil system

Manual oil drain pump  
Electric oil drain pump  
Pre-lubricating pump  
Emergency oil pump

### starting system

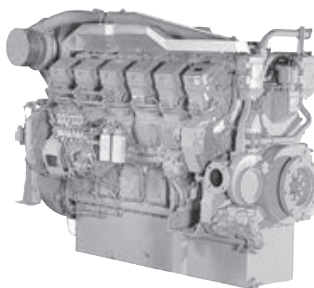
Air starting  
Electric compressor set  
Air / electrical combined starting

### Instrumental panel

Single- or multi-stations  
Mechanical or electronic remote control

### Alternator

Other brands like LEROY SOMER, etc...

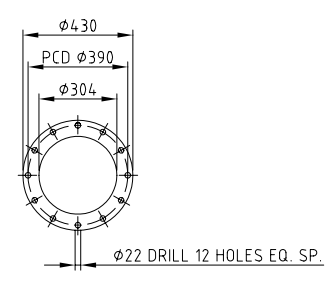


**S12R-MPTA** 12-cylinder, 4-cycle, Water cooled, Diesel Engine Direct-injection, Turbocharged with Air-cooler  
Bore x Stroke (mm) : 170 x 180  
Displacement (L) : 49.03

1 2 3 4 5 6 7 8 9

A

DETAIL A  
EXHAUST GAS OUTLET



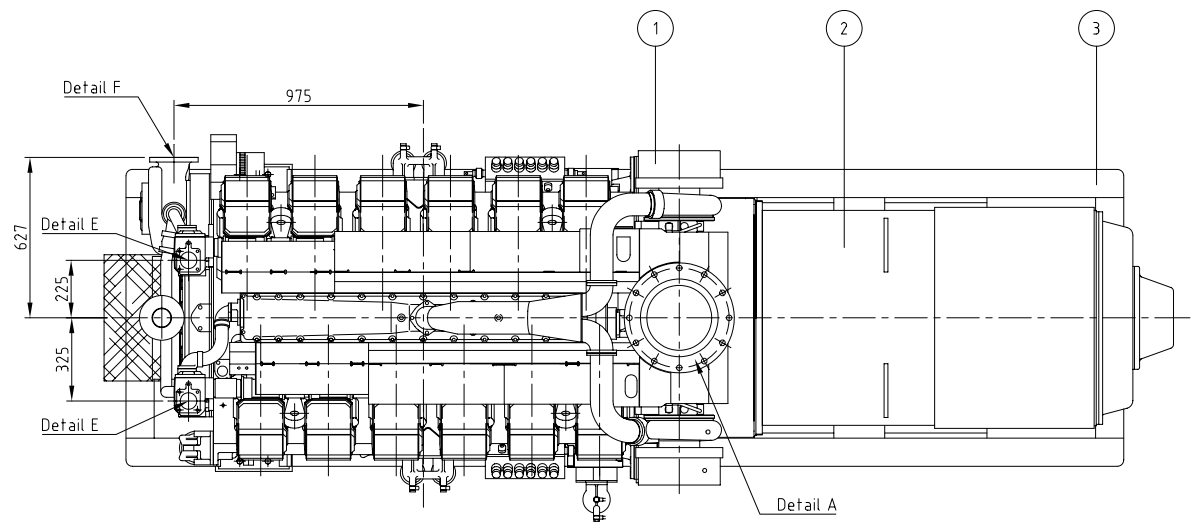
B

C

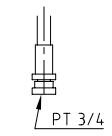
D

E

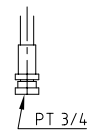
F



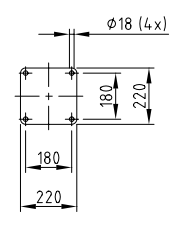
DETAIL B (NON SCALE)  
FUEL PIPE JOINT  
ON BOTH SIDES



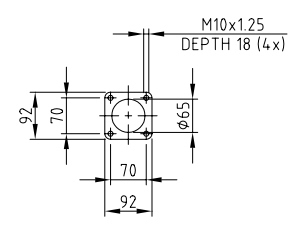
DETAIL C (NON SCALE)  
FUELLEAK OFF PIPE JOINT  
ON BOTH SIDES



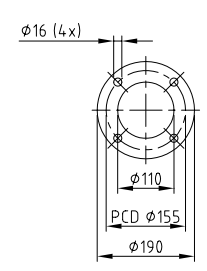
DETAIL D  
MOUNTING DETAIL VIBRATION DAMPER



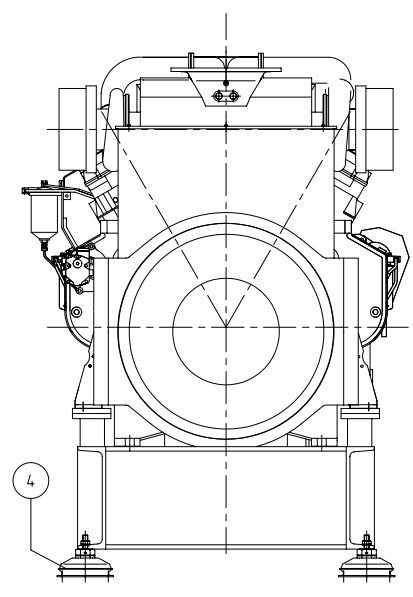
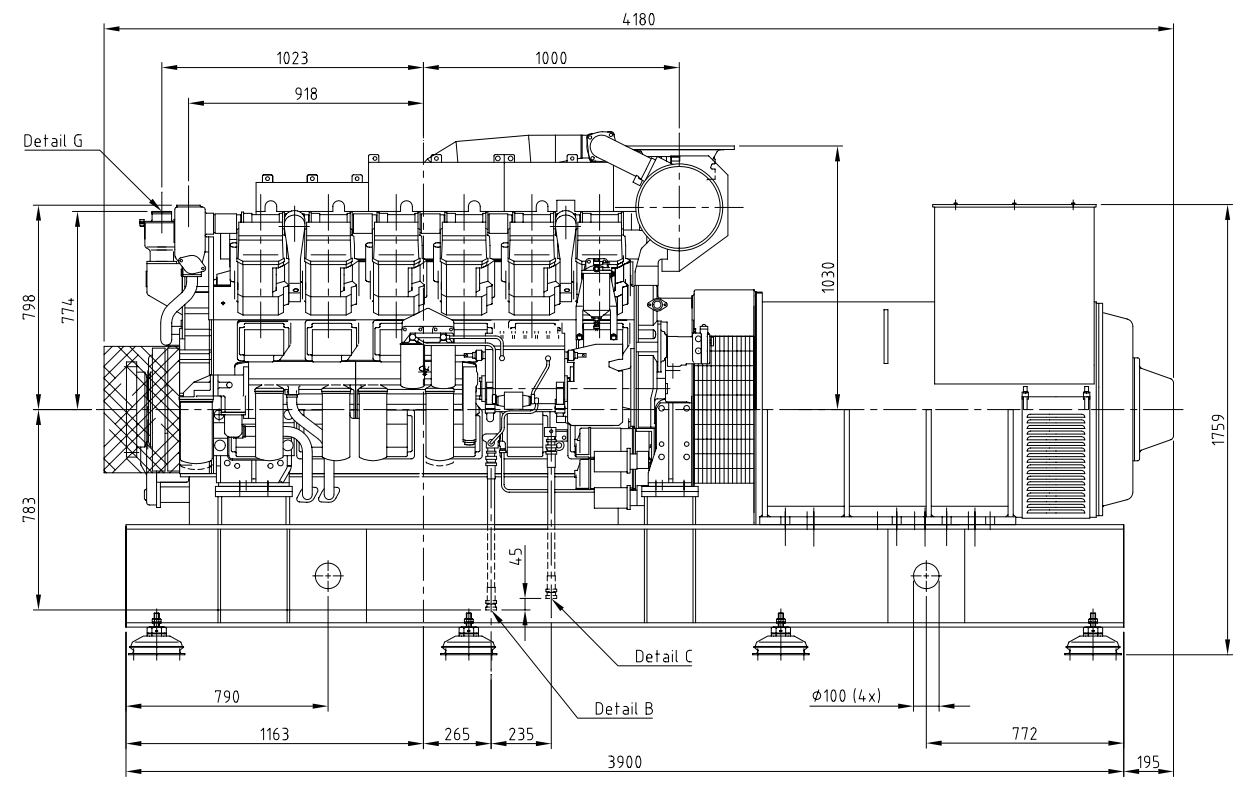
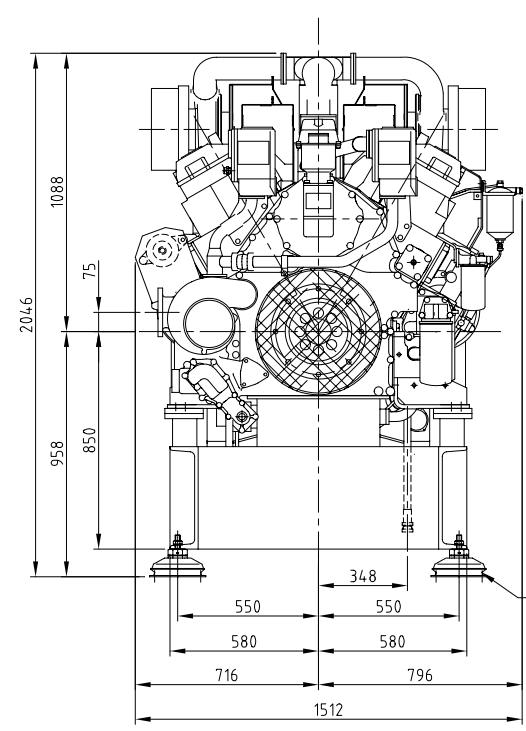
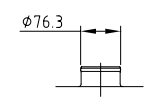
DETAIL E (1:10)  
F/W OUTLET



DETAIL F (1:10)  
F/W INLET



DETAIL G (1:10)  
BREATHER OUTLET



NOTE:  
UNDER EVERY FILTER A DRIPTRAY WILL BE INSTALLED  
ALL ROTATING PARTS WILL BE COVERED

FOR INFORMATION ONLY

|         |          |                  |            |  |          |
|---------|----------|------------------|------------|--|----------|
| 4       | 8        | VIBRATION DAMPER | TV 063 I/A |  |          |
| 3       | I        | FRAME            | B00474     |  | STEEL    |
| 2       | I        | GENERATOR        | HCM734GI   |  |          |
| 1       | I        | ENGINE           | SI2R-MPTA  |  |          |
| Pos No. | QUANTITY | DESCRIPTION      | TYPE       |  | MATERIAL |

|                                                                                      |                    |                       |              |                     |      |
|--------------------------------------------------------------------------------------|--------------------|-----------------------|--------------|---------------------|------|
| No.:                                                                                 | Date:              | Description of change |              |                     |      |
| Subject:                                                                             |                    | MAS 1330              |              | 1500 rpm            |      |
| Type:                                                                                | S12R-MPTA HCM734GI |                       | Project No.: |                     |      |
| Drawn:                                                                               | S.K.               | Checked:              |              | Scale:              | 1:20 |
| Date:                                                                                | February 1999      | Date:                 |              | Size:               | A2   |
| MHI EQUIPMENT EUROPE B. V.                                                           |                    |                       |              | American projection |      |
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| Drawing number:                                                                      |                    |                       |              | B00590-0            |      |
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|                                                                                      |                    |                       |              | Sheet No.           | 1/1  |

1 2 3 4 5 6 7 8 9