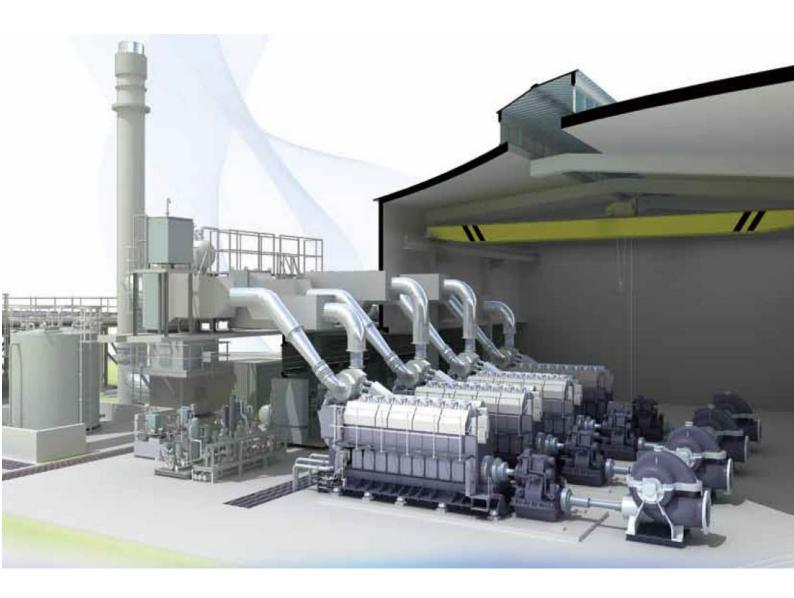




## Hi-touch Marine & Stationary Engine

### for Pump Station







# Earth Friendly Engine

#### **Design Philosophy**

Hyundai's HiMSEN Family has simple and smart design suitable for pumping applications with high reliability and performance. HHI Engines can run on liquid fuel such as Heavy Fuel Oil (HFO) and Diesel Oil (DO) or natural gas. The key features are:

#### **Economical and Ecological Engine**

It is designed with low fuel consumption, NOx emission, and Smoke, etc. which is based on the following specific designs:

- Optimized Supercharging with Miller Cycle
- High Fuel Injection Pressure

#### **Reliable and Practical Engine**

It is designed with simple, smart and robust structure.

- Number of engine components are minimized with Pipe-Free design.
- Most of the components are directly accessible for easier maintenance.
- Feed System is fully modularized with direct access.



#### **Main Features**

#### Performance characteristics

- Higher output in the similar range engines
- Low fuel consumption
- Quick acceleration & load response

#### Maintenance

- Easier maintenance through modularized design
- Minimal number of components

#### Earth friendly engine

- Low NOx emissions
- Complies with IMO NOx Tier II
- Low Vibration & Noise





#### **Liquid Fuel Engine Main Data**

#### H21/32 Bore 210 mm Stroke 320 mm

Technic	al Data	Speed (rpm)	5H21/32	6H21/32	7H21/32	8H21/32	9H21/32
Engine De	Engine Power (kW)		960	1,200	1,400	1,600	1,800
Eligille PC			-	1,200	1,400	1,600	1,800
Heat Date (L.1/LM/L.)		900			7,814		
пеат кате	Heat Rate (kJ/kWh <sub>m</sub> )				7,899		
D: .	Width		1,610	1,610	1,610	1,610	1,610
Dimensions (mm)	Height	-	2,712	2,781	2,781	2,911	2,911
(111111)	Length		3,411	3,781	4,235	4,453	4,783
Weigh	Weight (ton)		13.4	15.1	16.7	18.4	19.8

#### H25/33 Bore 250 mm Stroke 330 mm

Technic	al Data	Speed (rpm)	6H25/33	7H25/33	8H25/33	9H25/33		
Famina Davisa (LAM)		900	1,740	2,030	2,320	2,610		
Eligille Fo	Engine Power (kW)		1,800	2,100	2,400	2,700		
Heat Rate (kJ/kWh <sub>m</sub> )		900/1000	7,729					
D: :	Width	-	1,660	1,660	1,660	1,660		
Dimensions (mm)	Height		2,961	3,241	3,371	3,371		
(111111)	Length		4,414	4,794	5,311	5,691		
Weight (ton)			20.2	22.5	24.1	26.2		

#### H25/33V Bore 250 mm Stroke 330 mm

Technic	al Data	Speed (rpm)	12H25/33V	14H25/33V	16H25/33V	18H25/33V	20H25/33V
Engine Power (kW)		900/1000	3,840	4,480	5,120	5,760	6,400
Heat Rate (kJ/kWh <sub>m</sub> )		900/1000			7,814		
D: :	Width	-	2,060	2,060	2,060	2,060	2,060
Dimensions (mm)	Height		3,750	3,750	3,750	3,750	3,750
	Length		5,524	5,944	6,364	6,784	7,204
Weight (ton)			33.5	36.5	39.5	42.5	45.5

#### H32/40 Bore 320 mm Stroke 400 mm

	25.5022								
Technical Data		Speed (rpm)	6H32/40	7H32/40	8H32/40	9H32/40			
Engine Power (kW)		720/750	2,850	3,325	3,800	4,275			
Heat Rate (kJ/kWh <sub>m</sub> )		720	7,600						
		750	7,686						
D: :	Width		2,300	2,300	2,300	2,300			
Dimensions (mm)	Height	-	3,959	4,130	4,130	4,130			
(111111)	Length		5,760	6,112	6,602	7,092			
Weight (ton)			33.7	38.6	41.5	44.6			

#### H32/40V Bore 320 mm Stroke 400 mm

Technical Data		Speed (rpm)	12H32/40V	14H32/40V	16H32/40V	18H32/40V	20H32/40V		
Engine Power (kW)		720/750	5,700	6,650	7,600	8,550	9,500		
Heat Rate (kJ/kWh <sub>m</sub> )		720	7,643						
		750			7,729				
D:	Width		2,650	2,650	2,650	2,650	2,650		
Dimensions (mm)	Height	-	4,723	4,723	4,723	4,794	4,794		
(111111)	Length		6,624	7,295	7,914	8,585	9,344		
Weight (ton)			56.0	63.3	69.1	76.3	84.0		

#### Remarks

- 1) The MCR will be based on ISO condition.
- 2) Based on LCV 42,700 kJ/kg, HFO operation.
- 3) Warranted at 100% load.
- 4) Power adjusting upto -5% derating is generally accepted, other power adjusting must be consulted with engine builder.
- 5) All dimensions and weight are approximate value and subject to change without prior notice.



#### **Natural Gas Engine Main Data**

#### H35/40G Bore 350 mm Stroke 400 mm

Technica	al Data	Speed (rpm)	6H35/40G	7H35/40G	8H35/40G	9H35/40G
Engine Power (kW)		720/750	2,880	3,360	3,840	4,320
Heat Rate (kJ/kWh <sub>m</sub> )		720/750		7,	370	
B	Width	-	2,300	2,300	2,300	2,300
Dimensions (mm)	Height		3,759	3,882	4,132	4,132
	Length		5,760	6,112	6,602	7,092
Weight (ton)			33.7	38.6	41.5	44.6

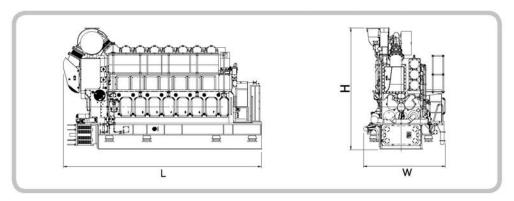
#### H35/40GV Bore 350 mm Stroke 400 mm

Technica	al Data	Speed (rpm)	12H35/40GV	14H35/40GV	16H35/40GV	18H35/40GV	20H35/40GV
Engine Power (kW)		720/750	5,760	6,720	7,680	8,640	9,600
Heat Rate (kJ/kWh <sub>m</sub> )		720/750			7,370		
Dimensions (mm)	Width	-	2,650	2,650	2,650	2,650	2,650
	Height		4,723	4,723	4,723	4.794	4,794
	Length		6,624	7,295	7,914	8,585	9,344
Weight (ton)			56.0	63.3	69.1	76.3	84.0

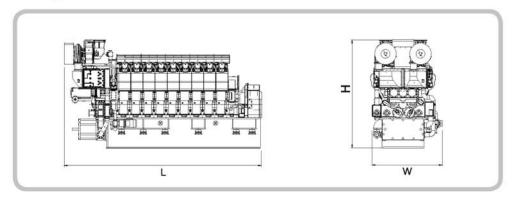
#### Remarks

- 1) The MCR will be based on ISO condition.
- 2) Fuel gas based on LNG, LCV 49,138 kJ/kg, Methane No. 73.
- 3) Warranted at 100% load.
- 4) Power adjusting upto -5% derating is generally accepted, other power adjusting must be consulted with engine builder.
- 5) All dimensions and weight are approximate value and subject to change without prior notice.

#### ■ L - Type



#### ■ V - Type





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