AUX. ENGINE

HYUNDAI - MAN B&W

Description Page 1 (1)	Main Data for Engine	500.00 Edition 02H

L27/38

Cycle	:	4-stroke
Configuration	:	In-line
Cyl. Nos. available	:	5-6-7-8-9
Power range	:	1500-2880 kW (2040-3915 BHP)
Speed	:	720/750 rpm
Bore	:	270 mm
Stroke	:	380 mm
Stroke/bore ratio	:	1.4:1
Piston area per cyl.	:	572.6 cm^2
Swept volume per cyl.	:	21.8 ltr.
Compression ratio	:	15.9:1
Max. combustion pressure	:	190 bar
Turbocharging principle	:	Constant pressure system and intercooling
Fuel quality acceptance	:	HFO up to 700 cSt/50° C (BSMA 100-M9)

Power lay-out		MCR version	
Speed	rpm	720	750
Mean piston speed	m/sec.	9.1	9.5
Mean effective pressure	bar	23	23.5
Max. combustion pressure	bar	190	190
Power per cylinder	kW/cyl. BHP/cyl.	300 408	320 435

Overload rating (up to 10%) allowable in 1 hour for every 12 hours			
Power per cylinder	kW/cyl. BHP/cyl.	330 449	352 479

M.V. COSCO PUSAN
[redacted] CHIEF ENGINEER

08028-0D/H5250/94.08.12

EMERGENCY FIRE PUMP

MESSRS.	HYUNDAI HEAVY INDUSTRIES CO., LTD.
HULL NO.	1381/1382/1407/1408
SERVICE	EMERGENCY FIRE PUMP
REQ.NO.PER SHIP	1 SET
CLASSIFICATION	GL

1. PARTICULARS OF PUMP

MODEL SVB125MS

CAPACITY	72 m^3/h	ROTATION	
TOTAL HEAD	90 m	CLOCKWISE VIEW FROM COUPLING	
SUCTION HEAD	-5 m	HYDRAULIC TEST	15.5 kg/cm2G
PUMPING LIQUID :	SEA WATER	FLANGES(SUC.×DIS.)	JIS 5K × 10K
LIQUID TEMP.	32 ℃		

2. MOTOR

OUTPUT	45 kW	SYN.SPEED	3600 r/min.

3. ACCESSORIES PER PUMP

SEALING PIPE	1 SET	VACUUM PUMP	1 SET
(S.W. : NYLON ~~F.W. : COPPER~~)		SEPARATE TANK	
AIR VENT VALVE	1	AUTO VALVE	
GAUGE ROOT VALVE	2	PIPING FOR VACUUM PUMP	
PRESSURE GAUGE & JOINT	1 SET	ZINC PALTE	2
COMPOUND GAUGE & JOINT	1 SET		
GAUGE BOARD	1		

4. MATERIALS

THOSE SHOWN WITH * IN THE SECTIONAL DRAWING ARE SHOWN BELOW.

CASING	BRONZE	BC2	IMP.SHAFT	STAINLESS STEEL	SUS304
IMPELLER			MOUTH RING	BRONZE	BC3
WORKING	STAINLESS STEEL	SCS14	SLEEVE	STAINLESS STEEL	SUS304
SPARE	–	–			

5. PAINTING

DESCRIPTION : ALKYD RESIN ENAMEL

COLOR : MUNSELL 5G 9/2

SHINKO IND.LTD.

OILY WATER SEPARATOR

A) Ölablaß	OIL DRAIN		
B) Entlüftung	AIR VENT		DN 65
C) Gemischeintritt	MIXTURE INLET		
D) Wasseraustritt	WATER OUTLET		G 2 1/2
E) Fallanschluß	FILLING CONNECTION		DN 50
F) Entleerung	DRAIN		G 3/4
G) Spülanschluß für 15 ppm Bilge Alarm	FLUSHING CONNECTION FOR 15 PPM BILGE ALARM		G 3/4
H) Probewasserleitung für 15 ppm Bilge Alarm	SAMPLE WATER PIPE FOR 15 PPM BILGE ALARM		DN 8/Φ10
K) Fremdwasseranschluß für Ölablaß	EXTERN. WATER CONNECTION FOR OIL DISCHARGE		DN 8/Φ10
L) Sicherheitsventil Austritt	SAFETY VALVE OUTLET		G 1/2
			G 1 1/2
I) Zentrale E-Einspeisung	CENTRAL ELECTRICAL SUPPLY CONNECTION		
II) E-Anschluß zum Magnetventil	ELECTRICAL CONNECTION TO SOLENOID VALVE		SEA/BILGE
V) Druckluftversorgung	COMPR. AIR SUPPLY		5-10 bar
1) TURBULO-Entöler	TURBULO-SEPARATOR		
25) Exzenterschneckenpumpe	ECCENTRIC HELICAL ROTOR PUMP		
39) Fallhahn	FILLING COCK		
40) Sicherheitsventil	SAFETY VALVE		G 3/4
45) Manometer mit Hahn	PRESSURE GAUGE WITH COCK		G 1 1/2
50) Probierhahn	TESTING COCK		
60) 15 ppm Bilge Alarm	15 PPM BILGE ALARM		
66) 3-Wegehahn	3-WAY COCK		
70) Steuerelektrode für Ölablaß	OIL-LEVEL CONTROL ELECTRODE		DN 8/Φ10
75) Entlüftungsschraube	VENT SCREW		
			G 1
80) Schaltgerät mit Ölstandsteuerrelais	SWITCH BOX WITH OIL-LEVEL CONTROL RELAY		
90) Ölablaßventil	OIL OUTLET VALVE		DN 65
91) Magnetventil	SOLENOID VALVE		
101) Probenentnahmehahn	SAMPLING COCK		
120) E-Heizung	ELECTRIC HEATING		6 kW
130) Rückschlagklappe	SWING TYPE CHECK VALVE		G 2 1/2
135) Fremdwasserventil	EXTERNAL WATER VALVE		G 1/2
140) Durchflußmengenregelventil	FLOW CONTROL VALVE		
145) Entleerungshahn	DRAIN COCK		G 3/4
150) Druckhalteventil	PRESSURE RETAINING VALVE		DN 50
155) Ablaßventil (Bilge/See)	OUTLET VALVE (BILGE/SEA)		DN 50
156) Magnetventil	SOLENOID VALVE		
185) Manometer mit Hahn	PRESSURE GAUGE WITH COCK		
190) Sicherheitsventil	SAFETY VALVE		G 1 1/2
195) Belüftungsventil	VENT VALVE		
230) Gegenflansche	COUNTERFLANGES		
250) ICSM-Schnittstelle	ICSM-INTERFACE		

Lieferumfang gemäß Herstellerspezifikation — SCOPE OF SUPPLY ACCORDING TO SPECIFICATION OF MANUFACTURER

Nennleistung	RATED CAPACITY	10 m^3/h
Gewicht - leer	WEIGHT - EMPTY	1100 kg
Gewicht - voll	WEIGHT - FILLED UP	2490 kg
Max. Betriebsüberdruck Entöler	MAX. WORKING OVER PRESSURE SEPARATOR	1,5 bar
Max. Saughöhe Gemischeintritt	MAX. SUCTION HEAD FROM MIXTURE INLET	0,6 bar
Betriebstemperatur	WORKING TEMPERATURE	+ 15°C / + 65°C

Hersteller / MANUFACTURER
Kunde / CUSTOMER

Schwerpunkt / CENTRE OF GRAVITY

Flanschabmessungen nach DIN 2501, Bl. 1, PN 10
FLANGE DIMENSIONS PER AS DIN 2501, PG. 1, PN 10

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Zust	Änderung	Datum	Name
		Bearb. 17.03.00	Brinke
		Gepr. 17.03.00	F.Fischer
		Norm	

Thyssenkrupp Industrielectrik GmbH

Maßstab

TURBULO COMPACT
Entöler / SEPARATOR
Typ TC 10

SES.0-495-0305-000.0

Blatt 2 / 7 Bl.

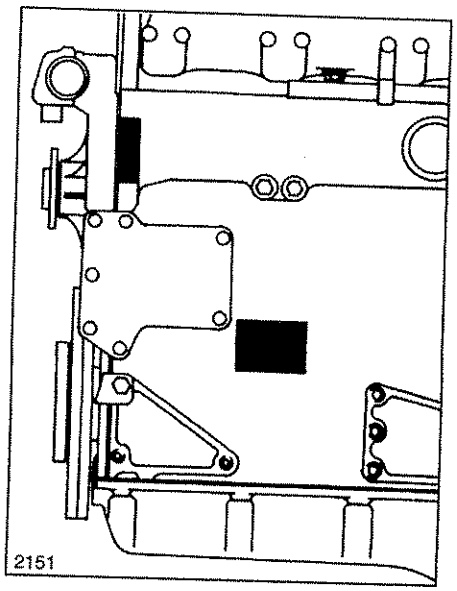
EMERG. AIR COMPRESSOR (TOPPING-UP AIR COMPR)

2. Technical data

Compressor type		WP 200
Number of cylinders		2
Number of stages		2
Cylinder-ø Ist Stage		195 mm
Cylinder-ø IInd Stage		88 mm
Piston stroke		93 mm
Working pressure, maximum		30 bar
Revolutions, maximum rpm		1800 rpm
Sense of rotation, looking towards the flywheel		clockwise
Oil volume		
between the marks on the dip stick		11.5 litres
Oil		3.0 litres
		as recommended
Oil pressure, minimum		1 bar
Oil pressure, maximum		5 bar
Oil pressure monitor "ON"		2 bar
Oil pressure monitor "OFF"		1 bar
Pre-setting of the safety valves	Ist stage	8 bar
	IInd stage:	5% above maximum pressure
Maximum cooling water inlet pressure		
without cooling water pump attached		5 bar
cooling water pump attached		2.5 bar
Burst pressure of bursting plate (cooling water system), minimum		6 bar

EMERG. GENERATOR

Nameplates



Model

.....

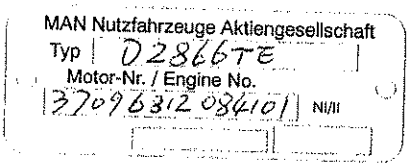
delivered on

.....

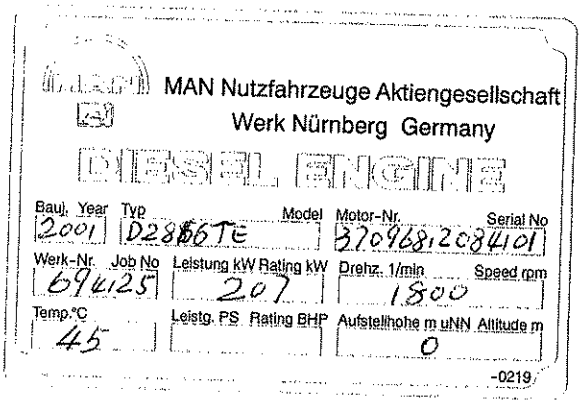
installed on

.....

In all your correspondence please always quote engine model, serial number and job number (Order number).



Enter 14-digit serial number (is used in the spare parts catalog to distinguish between spare parts).



Enter 14-digit engine serial number.

Enter 6-digit job number (Order number).

AUX. BOILER

Oil Fired Boiler

Customer	:	Hyundai Heavy Industries.Co. Ltd.
Hull No.	:	1381/2,1407/8
Classification	:	GL+SBG
Work Order No.	:	MA2000HD032/3
		MA2000HD050/1

Specification

* Aux. Boiler	: Type -	MA10SVGY	x	1 set / ship
	: Capa -	5,500 Kg/Hr x 7 Kg/Cm^{2}g		
* Oil Burner	: Type -	SKV-50	x	1 set / ship

KANGRIM INDUSTRIES CO.,LTD.

40,WOUNGNAM-DONG,CHANGWON CITY,KOREA
TEL : 055) 269 ~ 7700(REP) / 7759(DIR)
FAX : 055) 269 ~ 7795~9(PRODUCTION DIVISION)
E-MAIL: tech1@kangrim-ind.co.kr

Technical data

General specification

Rule and regulation	ANNEX V - APP. II, MEPC 76(40) & ANNEX VI – REG. 16 OF MARPOL 73/78	IMO Approved Ty
Power source		
-Main circuit	AC 440V / 60Hz, 3ø	
-Control circuit	AC 220V / 60Hz, 1ø by transformer	
Unit	The metric system	
Language of name plates		
-Application	English	
-Instruction	English	
-Caution	English	
Painting color		
-Incinerator body	Silver < Heat resisting >	
-Electrical panel and box	Munsell No. 5 G 9/2 △1	
-El. motor	Munsell No. 5 G 9/2 △1	

Incinerator / furnace

Model No.	KIN-99SDA	
Capacity	99.7 x 10^4 kcal/hr	
-Waste oil only	116 kg/hr / based on IMO rule	C.V=8600 kcal/kg
-Solid waste with waste oil	62 kg/hr / based on IMO rule	C.V=2400 kcal/kg
Composition	Double shells of steel plate with castable refractory lining	
Combustion air system	Forced drafting by fan	
Cooling system	Air cooling between shells	
Operation system	Semi-automatic control and automatic shut-off for safety	

Solid waste charging door / fixed on side of incinerator

Method	Put-in to flat bed through drum charger unit (double door)	
Hole dimension	450W x 400H	

Waste oil burner unit / fixed on front of incinerator

Model No.	OSR-5A	1 set
Burning method	Rotary cup system	
Capacity	116 kg/hr	
Primary air fan	4 Nm^3/min x 300 mmAq	
El. motor / M1	1.5 Kw x 4P, IP44	Insulation class F
	AC 440V / 60 Hz, 3ø	
Flame detector & relay	CdS cell / FE-61R	

Ignition burner unit / flame pilot

Model No.	IB-15A	1 set
Nozzle tip	3 gal/hr(US), 60°	
Ignition transformer	2 x 5000V / 200 VA	
Electrode	No. 52	

2ndary burner unit / fixed on top of incinerator

Model No.	GPM22-INS	1 set
Capacity	20 x 10^4 kcal/hr	4 gal/hr(US), 60°
Forced draft fan	5.5 Nm^3/min x 30 mmAq	
El. motor / M2	0.25 kW x 2P, IP44	Totally enclosed
	AC 440V / 60Hz, 3ø	
Ignition transformer	2 x 6500V / 460 VA	Intermittent