


N-648
1,200 TEU CLASS CONTAINER CARRIER

E/R EQUIPMENT LIST(MACH. PART)

M- 2

 **HANJIN HEAVY INDUSTRIES & CONSTRUCTION CO., LTD.**

배 부 처		준 비 도	완 성 도	BIBLIOGRAPHY			PAGE NO.	1/13
기본설계부			ALT NO.	DATE	DESCRIPTION	REMARK		
기본설계연구팀			0	99.08.17	DESIGNED BY MACH. OUTFITTING DESIGN DEPT.			
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선행의장팀								
생산관리1부								
품질관리1부								
공 무 부								
자 재 1 부								
연 구 소								
T O T A L			CLASS : GL		TOTAL (13) SHEETS WITH A COVER			
APP BY	J. d. Park		DATE : 1999. 08. 17			SHIP NO.		
APP BY	K. H. Kim		TITLE 1,200TEU CLASS FULL CONTAINER CARRIER E/R EQUIPMENT LISTS			N - 644~9		
CHK BY	K. W. Park					DWG NO.		
DWN BY	M. R. Choi					M20L - 400		
DEPT	23724(T.3433)					ALT NO. 0		
			HANJIN HEAVY INDUSTRIES CO., LTD					

FINISHED PLAN

HULL No.		N-644/5/6/7/8/9		EQUIPMENT LIST			MACHINERY PART	
PROJECT		1,200 TEU CONT. C					PAGE	/ 13
No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
1	MAIN ENGINE	1	TYPE : 2-STROKE, DIRECT REVERS. MCR : 24,160 PS × 113 RPM NCR : 20,536 PS × 107 RPM (85%OF MCR)	HYUNDAI (HHI)	FLOOR	DRY : 480 (WET:)	WARTSILA-NSD 8RTA62U	82-52-230-7267 82-52-230-7425
	- TURBO CHARGER	2	TYPE : UN-COOLED. BALL & ROLLER BEARING WITH SELF-LUB. CONVENTIONAL TYPE	HHI /HHI	BUILT-ON M/E		ABB/VTR 564	
	- AUX.BLOWER	2	SINGLE SPEED CONTINUOUS DUTY ELEC. MOTOR : 75 KW × 3,600 RPM	/HHI			HAA-414/110N	
	- GOVERNOR	1	TYPE : ELECTRONIC DIGITAL TYPE WITH ACTUATOR	Norcontrol /HHI			DGS-8800e	
	- TURNING GEAR	1	TYPE : PLANETARY REDUCTION GEAR ELEC. MOTOR : 3.0 KW × 1,200 RPM	/HHI				
	- AIR COOLER	2	TYPE : ONE BLOCK ELEMENT	/HHI			LKM-(Y)Q	
2	FIXED PITCH PROPELLER	1	TYPE : KEYLESS, 5-BLADES DIA. : Φ 6500 mm MATERIAL : Ni-Al-Bc	HYUNDAI	STERN	28.9		82-52-230-7245 82-52-230-7692
3	INTERMEDIATE SHAFT	1	DIA. : Φ 495 mm × 10,060 mmL, SF60		FLOOR	16.2		
4	PROPELLER SHAFT	1	DIA. : Φ 600 mm × 8,982 mmL, SF60			19.4		
5	STERN TUBE BUSH	EACH 1	AFT. : Φ 708 mm × 1,300mmL FWD. : Φ 710 mm × 600 mmL	BLOHM & VOSS	STERN	1.0 + 0.5		82-51-740-5701 82-51-740-5704
6	STERN TUBE SEAL	EACH 1	AFT. : Φ 600mm × 247 mmL (3-RING) FWD. : Φ 602mm × 243 mmL			0.4 + 0.33		
7	INTER.SHAFT BEARING	1	DIA. : Φ 500 mm SINGLE OIL DISC TYPE	BLOHM & VOSS	FLOOR	0.51		

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8	GENERATOR ENGINE	3	TYPE : 4-STROKE, TRUNK-PISTON CAP. : 1,520 PS × 900 RPM	HYUNDAI (HHI)	3RD DECK	DRY : 17.2 (WET:)	B&W 7L 23/ 30H	ENG : 82-52-230-7411~18
	- GENERATOR	3	CAP. : AC 450 V×1,050 KW ×60 HZ	TAIYO	BUILT-ON G/E	3.93	FE45CS-8	82-52-230-7210
	- GOVERNOR	3	HYDRAULIC-TYPE	WOODWARD/HHI			UG8D	GEN : 81-3-3293-3067 81-3-3292-7012
	- TURBOCHARGER	3	JET ASSIST	/HHI			MAN/NR20R	
	- LUB. OIL PUMP	3	CAP. : 25 m³/h × 5.0 kg/cm², ENGINE DRIVEN	/HHI				
	- PRE-LUB. OIL PUMP	3	CAP. : 2.6 m³/h × 2.0 kg/cm² ELEC.MOTOR : 0.7 KW × 3,420 RPM	IMO/HHI			ACD 025N6	
	- LUB. OIL FILTER	3	10~15u, DUPLEX, CATRIDGE	/HHI			IVBP	
	- FUEL OIL FILTER	3	50u, DUPLEX, SLIT TYPE	/HHI				
	- G/E H.T.F.W. PUMP	3	CAP. : 45 m³/h × 25m, ENGINE DRIVEN	L'ORANGE /HHI				
9	EM'CY GEN. ENGINE	1	TYPE : TRUNK PISTON, 4-CYCLE FAN COOLED RADIATOR, ELEC./HYD. STARTING CAP. : 140 KW × 1800 RPM	VOLVO- PENTA	EM'CY GEN. ROOM ON A DECK	1.2	TAMD71B-RC	46-31-669771 46-31-538079
	- GENERATOR	1	CAP. : AC450 V×125 KW × 60 HZ	STAMFORD /VOLVO		0.54	UCM274F	
10	COMPOSITE BOILER	1	CAP. : 2200/1800 kg/H × 6.0 kg/cm²	KANGRIM	E/R CASING	23	MC10SJGY	82-551-269-7759
	- OIL BURNER	1	CONTROL : FULL AUTO, MODULATING TYPE : ROTARY CUP TYPE ELEC. MOTOR : 1.1 KW	SAACKE/ KANGRIM	BUILT ON BOILER		SKVJ-15	82-551-269-7798
	- F.D. FAN	1	ELEC. MOTOR : 3.0 KW × 3600 RPM	/KANGRIM				
	- F.O. HEATER	1	CAP. : 90℃ / 120℃, STEAM HEATED	/KANGRIM	3RD DECK	0.1		

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	- F.O. SUPPLY PUMP	2	CAP. : 0.49 m³/h × 4 kg/cm² MOTOR : 0.45 KW × 1680 RPM	/KANGRIM	3RD DECK	0.067	ZASV350	82-0551-269-7759 82-0551-269-7798
	- D.O. IGNITION PUMP	1	CAP. : 0.035~0.047 m³/h × 7~14 kg/cm² MOTOR : 0.22 KW × 3300 RPM	/KANGRIM		0.008	PZHDS30	
11	BOILER FEED W. PUMP	2	TYPE : HORIZ. CENT. CAP. : 4.0 m³/h × 110 m MOTOR : 5.5 KW × 3600 RPM (*)	SHIN SHIN *HYUNDAI/SHIN SHIN	2ND DECK		MB32/4S	82-51-727-5300 82-51-727-5305
12	DRAIN COOLER		SHELL & TUBE, 1,055,000 kcal/h	DONGHWA		DRY : 0.61 (WET : 0.78)		
13	CASCADE TANK	1	1.5 m³	HHIC	2ND DECK		SELF-STANDING	
14	MAIN L.O. PUMP	2	TYPE : CENT., TANK MOUNTING CAP. : 214 m³/h × 55 M MOTOR : 75 KW × 1,800 RPM (*)	SHIN SHIN *HYUNDAI/SHIN SHIN	FLOOR		SDF-3V200	82-51-727-5300 82-51-727-5305
15	M/E CROSSHEAD L.O. PUMP	2	TYPE : SCREW CAP. : 37 m³/h × 8.5 kg/cm² MOTOR : 21.3 KW × 3520 RPM (*)	IMO *BH / IMO	3RD DECK	0.156 (*0.095)	ACG060N6IVBP WU-DA160LR-D-2	46-8-19-01-60 46-8-645-15-09
16	L.O. TRANS. PUMP	1	TYPE : SCREW CAP. : 5.0 m³/h × 3.0 kg/cm² MOTOR : 2.5 KW × 3410 RPM (*)		FLOOR	0.034 (*0.015)	ACE032N3NVBP WU-DA90LM-D-2	
17	L.O. PURIFIER FEED PUMP	2	TYPE : SCREW CAP. : 2.4 m³/h × 3.0 kg/cm² MOTOR : 1.3 KW × 1685 RPM (*)			0.032 (*0.013)	ACE032N3NVBP WU-DA90SE-D-4	
18	M/E CYL. OIL TRANS. PUMP	1	TYPE : SCREW CAP. : 1.0 m³/h × 2.0 kg/cm² MOTOR : 0.63 KW × 1685 RPM (*)			3RD DECK	0.024 (*0.01)	

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19	MAIN L.O. COOLER	1	TYPE : PLATE F.W. COOLED CAP. : 1,630,000 kcal/h	SWEP	3RD DECK	DRY : 2.215 (WET : 2.818)	GX-91	46-8-442-4970 46-8-442-4980
20	L.O. PURIFIER HEATER	2	TYPE : TUBULA, STEAM HEATED CAP. : 2,400 L/H (50 °C / 90 °C)	DONG HWA	3RD DECK	DRY : 0.175 (WET : 0.21)		82-51-264-2800 82-51-264-2801
21	L.O. PURIFIER	2	TYPE : TOTAL DISCH. CAP.: 2,400 L/H, SAE#30 MOTOR : 6.4 KW *3600 RPM	WESTFALIA	3RD DECK	0.33	OSC15-02-067	49-2522-77-2502 49-2522-77-2394
22	M/E L.O. AUTO. FILTER WITH MANUAL BY-PASS FILTER	1	TYPE : AUTO. BACK WASHING CAP. : 207 m³/h × ABS. 40μ	BOLL & KIRCH	3RD DECK	DRY : 0.55 (WET : 0.75)	6.61.07GR20	49-2273-5620 49-2273-562185
23	MAIN L.O. SUMP. TANK	1	CAPACITY : 42.5 m³	HHIC	D/B		HULL STRUCT.	
24	MAIN L.O. STOR. TANK	1	CAPACITY : 34.6 m³					
25	MAIN L.O. SETT. TANK	1	CAPACITY : 27.7 m³		3RD DECK			
26	CYL. OIL STOR. TANK	1	CAPACITY : 31.5 m³					
27	CYL. OIL MEAS. TANK	1	CAPACITY : 0.7 m³		UPP.DECK		SELF. STAND	
28	G/E L.O. STOR. TANK	1	CAPACITY : 7.1 m³		3RD DECK		HULL STRUCT.	
29	S/T L.O. GRAVITY TANK	1	CAPACITY : 0.2 m³		2ND DECK		SELF. STAND	
30	S/T L.O. SUMP. TANK	1	CAPACITY : 0.5 m³		FLOOR			
31	FWD S/T SEAL OIL TANK	1	CAPACITY : 4 L	BLOHM & VOSS	FLOOR		SELF. STAND	82-51-740-5701
32	AFT S/T SEAL OIL TANK	1	CAPACITY : 20 L					82-51-740-5704
33	M/E RESIDUE OIL TANK	1	CAPACITY : 1.0 m³	HHIC	FLOOR			
34	L.O. DRAIN TANK	1	CAPACITY : 1.0 m³					
35	H.F.O. TRANS. PUMP	1	TYPE : SCREW CAP. : 15 m³/h × 3.0 kg/cm² MOTOR : 6.3 KW × 1740 RPM (*)	IMO *BH/IMO		0.105 (*0.045)	ACG060K6IVBO WU-DA132SJ-D-4	46-8-19-01-60 46-8-645-15-09

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36	D.O. TRANS. PUMP	1	TYPE : SCREW CAP. : 10 m³/h × 3.0 kg/cm² MOTOR : 6.3 KW × 3480 RPM (*)	IMO *BH / IMO	FLOOR	0.083 (*0.045)	ACG045K6IVBO WU-DA132SE-D-2	46-8-19-01-60 46-8-645-15-09
37	M/E & G/E F.O. SUPPLY PUMP	2	TYPE : SCREW CAP. : 5.5 m³/h × 5.0 kg/cm² MOTOR : 2.5 KW × 3410 RPM (*)	IMO *BH / IMO	IN F.O. SUPPLY UNIT ON 3RD DECK	0.032 (*0.015)	ACE032N3NQBP WU-DA90LM-D-2	
38	M/E & G/E F.O. CIRC. PUMP	2	TYPE : SCREW CAP. : 14.0 m³/h × 7.5 kg/cm² MOTOR : 6.3 KW × 3480 RPM (*)			0.08 (*0.045)	ACG045N6NTBP WU-DA132SE-D-2	
39	PORT & G/E EM'CY F.O. PUMP	1	TYPE : SCREW CAP. : 1.3 m³/h × 6.0 kg/cm² MOTOR : 0.63 KW × 1685 RPM (*)			0.026 (*0.01)	ACE032L3NVBP WU-DA80ME-D-4	
40	M/E & G/E F.O. HEATER	50%×2	TYPE : TUBULAR, STEAM HEATED CAP. : 7,000 L/H (110 °C / 135 °C)			DONGHWA	3RD DECK	
41	H.F.O. PURIF.HEATER	2	TYPE : TUBULAR, STEAM HEATED CAP. : 3,600 L/H (60 °C / 98 °C)		DRY : 0.325 (WET : 0.41)			
42	H.F.O. PURIFIER	2	TYPE : SELF. CLEAN'G ,TOTAL DISCH, MOUNTING FEED OIL PUMP CAP. : 3,600 L/H 380 CST/50 °C MOTOR: 13 KW × 1,800 RPM	WESTFALIA	3RD DECK	1.06	OSC30-0136-066	49-2522-77-2539 49-2522-77-2394
43	M/E & G/E F.O. AUTO. FILTER WITH BY-PASS FILTER	1	TYPE : AUTO BACK WASHING CAP. : 5.5 m³/h × ABS.50μ	BOLL & KIRCH	IN F.O.SUPPLY UNIT ON 3RD DECK	DRY : 0.155 (WET : 0.175)	6.60.1GR05	82-51-205-8541 82-51-205-8540

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44	M/E F.O. INDICATING FILTER	1	TYPE : MANUAL BACK WASHING DUPLEX CAP. : 14 m³/h × ABS.50μ	BOLL & KIRCH	IN F.O.SUPPLY UNIT ON	DRY : 0.26 (WET : 0.344)	2.68.2.4 GR270,500	82-51-205-8541 82-51-205-8540
45	F.O. VISCO. CONTROLLER	1	TYPE : PNEUMATIC	DAEHO	3RD DECK	0.03	V15	82-51-264-0440
46	M/E & G/E F.O. FLOWMETER	1	SLIDING VANE TYPE, MAX. 5500 L/H			0.02	ARD40IN/2225J	82-51-264-3060
47	G/E F.O. FLOWMETER	2	SLIDING VANE TYPE, MAX. 4000 L/H			0.007	ARD25IN/2225J	
48	H.F.O. SETT. TANK	1	CAPACITY : 37.1 m³	HHIC	3RD DECK		HULL STRUCT.	
49	H.F.O. SERV. TANK	1	CAPACITY : 42.1 m³					
50	D.O. SETT. TANK	1	CAPACITY : 23.7 m³					
51	D.O. SERV. TANK	1	CAPACITY : 43.2 m³					
52	F.O.OVERFLOW & DRAIN TANK	1	CAPACITY : 12.1 m³		D/B			
53	EM'CY G/E D.O. TANK	1	CAPACITY : 1.0 m³		EM'D/G RM	SELF.STAND		
54	D.O. D/B TANK(P&S)	1	PORT : 39.6 m³, ST'BD : 51.3 m³		D/B	HULL STRUCT.		
55	MAIN COOL. S.W. PUMP	2	TYPE : VERT.CENT.(NO.1:SELF PRIM'G) CAP. : 780 m³/h × 20 M.W.C MOTOR : 75 KW × 1,800 RPM (*)	SHIN SHIN *HYUNDAI SHIN SHIN	FLOOR	1.08 (*0.55)	DB300VID1/2	
56	AUX. COOL. S.W. PUMP	1	TYPE : VERT. CENT. CAP. : 130 m³/h × 25 M.W.C. MOTOR : 19 KW × 1800 RPM (*)			0.571 (*0.175)	B200VID1	
							D7501S1CMM	
							D7106S2CMM1	
57	F.W. GEN. EJEC. PUMP	1	TYPE : VERT. CENT. CAP. : 44 m³/h × 40 m MOTOR : 15 KW × 1,800 RPM (*)			0.418 (*0.14)	C80VID1	
							D7106S2CMM1	
58	M/E HIGH TEMP. FRESH WATER PUMP	2	TYPE : VERT. CENT. CAP. : 194 m³/h × 30 m MOTOR : 30 KW × 1,800 RPM (*)		3RD DECK	0.551 (*0.19)	B200VID1	
						D7106S2CMH		

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No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
59	LOW TEMP. FRESH WATER PUMP	2	TYPE : VERT. CENT. CAP. : 700 m³/h × 25 m MOTOR : 70 KW × 1,800 RPM (*)	SHIN SHIN *HYUNDAI SHIN SHIN	3RD DECK	0.953 (*0.55)	DB250VID1 D7501S1CMH	
60	M/E & G/E JACKET WATER PREHEATER PUMP	1	TYPE : HORIZ. CENT. CAP. : 11 m³/h × 20 m MOTOR : 2.2 KW × 1,800 RPM (*)	SHIN SHIN *HYUNDAI SHIN SHIN	3RD DECK	0.1 (*0.032)	EHC50B HK00297R0	
61	CENTRAL F.W. COOLER	50%×2	TYPE : PLATE, S.W. COOLED CAP. : 6,775,000 kcal/h	SWEP	3RD DECK	WET : 3.41 (DRY : 2.63)	GX-100	46-8-442-4970 46-8-442-4980
62	M/E HIGH TEMP. FRESH WATER COOLER	1	TYPE : PLATE, F.W. COOLED CAP. : 2,840,580 kcal/h			WET : 1.1 (DRY:1.01)	GC-51P	
63	M/E & G/E JACKET WATER PREHEATER	1	TYPE : STEAM HEATED CAP. : 11 m³/h (40 °C / 60 °C)	DONGHWA		WET : 0.21 (DRY : 0.23)		82-51-264-2801 82-51-264-2800
64	M/E HIGH TEMPERATURE F.W. EXPANSION TANK	1	CAPACITY : 1.5 m³	HHIC	POOP. DECK		SELF STAND	
65	LOW TEMPERATURE F.W.. EXPANSION TANK	1	CAPACITY : 1.5 m³		UPP. DECK			
66	HOT WATER CIRC. PUMP	1	TYPE : HORIZ. CENT. CAP. : 1.0 m³/h × 10 m MOTOR : 0.75 KW × 1800 RPM (*)	SHIN SHIN *HYUNDAI /SHIN SHIN	2ND DECK	0.07 (*0.014)	EHC40A HK00048R0	82-51-727-5300 82-51-727-5305
67	SEWAGE TREARMENT PLANT	1	TYPE : BIO-AEROB, IMO APPROVED CAP. : 25 PERSONS/DAY	JONG-HAP (COMA)	2ND DECK	DRY : 1.2 (WET : 2.5)	AEROB-12	82-523-383-2300 82-523-383-2303
	- DISCHARGE PUMP	1	TYPE : NON-CLOG. CENT. CAP. : 3 m³/h × 15 m MOTOR : 1.5 KW × 3450 RPM		BUILT ON S.T.P.	-0.055	AS16-2CB	

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	- AIR BLOWER	1	TYPE : ROTARY VANE CAP. : 20 m³/h × 360 mbar MOTOR : 0.9 KW × 3440 RPM	/JONG-HAP	BUILT ON S.T.P.	(0.019)	SV2.130/2	82-523-383-2300 82-523-383-2303
	- DOSAGE PUMP	1	TYPE : DIAPHRAM CAP. : 1.92 l/h × 10 bar MOTOR : 0.011 KW × 145 RPM			(0.002)	M205-16	
68	FRESH WATER HYDR. UNIT	1	TYPE : VERTICAL, 1000 L TYPE : VERT. CENT. CAP. : 5 m³/h × 45 MWC MOTOR : 3.7 KW × 3600 RPM (*)	SHIN SHIN *HYUNDAI /SHIN SHIN	3RD DECK		EHU-1.0-2R	82-51-727-5300 82-51-727-5305
	- TANK	1				()		
	- PUMP	2				(0.1)	EHU40A	
69	FRESH WATER GENERATOR	1	TYPE : LOW PRESSURE EVAPORATING CAP. : 20 TON/DAY	DONGHWA- SONDEX	3RD DECK	0.6	SFD 13-20	82-51-260-2861 82-51-264-0868
	- DISTILLATE W. PUMP	1	TYPE : CENT. CAP. : 0.9 m³/h × 14 m MOTOR : 0.66 KW × 3420 RPM		BUILT ON F.W. GEN.			
70	FRESH WATER STERILIZER	1	TYPE : ULTRA-VIOLET RAY CAPACITY : 1.0 m³/h	SAMKUN	2ND DECK	0.038	JS-1000	82-523-374-9411 82-523-374-9410
71	CALOROFIER	1	TYPE : TUBULAR, STEAM HEATED CAP. : F.W. FLOW-1 m³/h (10 °C/60 °C)	DONG HWA		DRY : 0.19 (WET : 0.21)		82-51-264-2800 82-51-264-2801
72	FIRE & G.S. PUMP	1	TYPE : VERT.CENTR., SELF-PRIMING CAP. : 90/140 m³/h × 70/30 m MOTOR : 50 KW × 1800 RPM (*)	SHIN SHIN *HYUNDAI /SHIN SHIN	FLOOR	1.001 (*0.37)	2C150 VIB2 D7511S1BMM	82-51-727-5300 82-51-727-5305

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No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
73	FIRE & BILGE PUMP	1	TYPE : VERT.CENTR., SELF-PRIMING CAP. : 90/140 m³/h × 70/30 m MOTOR : 50 KW × 1800 RPM (*)	SHIN SHIN *HYUNDAI /SHIN SHIN	FLOOR	1.001 (*0.37)	2C150 VIB2 D7511S1BMM	82-51-727-5300 82-51-727-5305
74	E/R BILGE TRANS. PUMP	1	TYPE : HORIZONTAL, MONO CAP. : 5.0 m³/h × 3 kg/cm² MOTOR : 1.7 KW × 1660/749 RPM (*)	IMO *NORD/IMO		0.068 (*0.015)	AEB 1E50 SK01F AL 90L-4	46-8-19-01-60 46-8-645-15-09
75	SLUDGE PUMP	1	TYPE : MEMBRANE, COMP.AIR DRIVEN CAP. : 20 m³/h × 4 kg/cm² MOTOR : 3.7 KW × 1,800 RPM (*)	WILDEN /KEUM KANG		FLOOR	0.115	M15
76	OILY WATER SEPARATOR	1	CAP. : 5 m³/h, IMO APPROVED TYPE	BLOHM+VOSS	FLOOR	1.43	TCS 5HD	49-4-31-39-4082
	- BILGE ALARM	1	15 PPM		BUILT ON		OMD-11	49-4-31-39-4024
	- O.W. SEPARATOR PUMP	1	TYPE : M.D. MONO, BUILT ON SEPAR. CAP. : 5.0 m³/h × 2 kg/cm² MOTOR : 1.75 KW		SEPARATOR	(0.05)	BV5A	
77	BILGE TANK	1	CAPACITY : 27.8 m³	HHIC	D/B		HULL STRUCT.	
78	OILY BILGE TANK	1	CAPACITY : 24.3 m³					
79	SLUDGE TANK	1	CAPACITY : 9.5 m³		3RD DECK UNDER			
80	W.O. INCINERATOR	1	TYPE : IMO APPROVED CAP. : 320,000 kcal/h	HYUNDAI	2ND DECK	3.2	MAXI 50 SL-1	82-32-561-3611-4 82-32-561-3615
	- SLUDGE BURNER	1	TYPE : AIR ATOMIZING TYPE					
	- PRIMARY BURNER	1	TYPE : VVS2000 CAP. : 7 L/H MOTOR : 0.09 KW × 3600 RPM		BUILT ON INCINERATOR	(0.0012)	VVS2000	82-32-561-3611-4 82-32-561-3615

HULL No.		N-644/5/6/7/8/9		EQUIPMENT LIST			MACHINERY PART	
PROJECT		1,200 TEU CONT. C					PAGE	/ 13
No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
	- PRIMARY BLOWER	1	TYPE : HIGH PRESS. CENT. FAN CAP. : 4300 Nm³/h × 575 mmAq MOTOR : 11 KW × 3600 RPM	HYUNDAI	BUILT ON INCINERATOR		HTF-#3	
	- MILL PUMP	1	TYPE : PU-5 CAP. : 26 Nm³/h × 0.4 BAR MOTOR : 4.5 KW × 3600 RPM		2ND DECK	0.04	PU-5	
81	MAIN AIR COMPRESSOR	2	TYPE : F.W. COOLED CAP. : 94 Nm³/h × 30 kg/cm² MOTOR : 22 KW × 1175 RPM (*)	SPERRE *SIEMENS /SPERRE	2ND DECK	0.6	HV1/156	47-70-15-6011 47-70-15-6461
82	TOPPING UP AIR COMPRESSOR	1	TYPE : AIR COOLED CAP. : 88 Nm³/h × 30 kg/cm² MOTOR : 22 KW × 1175 RPM (*)			0.54	HL2/140	
83	EM'CY AIR COMPRESSOR	1	TYPE : MOTOR DRIVEN, AIR COOLED CAP. : 20 Nm³/h × 30 kg/cm² MOTOR : 6.3 KW × 1150 RPM (*)		3RD DECK	0.2	HL277	
84	MAIN AIR RESERVOIR	2	TYPE : CYLINDRICAL, VERTICAL CAP. : 4.0 m³ × 30 kg/cm²	DONGHWA	2ND DECK	6.4		82-525-26-8015 82-525-26-8014
85	AUX. AIR RESERVOIR	1	TYPE : CYLINDRICAL, VERTICAL CAP. : 0.3 m³ × 30 kg/cm²		3RD DECK	0.65		
86	CONTROL AIR DRYER	1	TYPE : REFRIGERATED, AIR COOLED CAP. : 60 Nm³/h × 8 kg/cm²	KYUNG NAM	2ND DECK	0.1	KAD-051	82-02-922-7833 82-02-922-7832
87	QUICK CLOSING UNIT	1	TYPE : CYLINDRICAL, VERTICAL CAP. : ABT 150L × 8 kg/cm²	POONGJIN	UPP. DECK	0.1		82-51-973-8510 82-51-973-8514

HULL No.		N-644/5/6/7/8/9		EQUIPMENT LIST			MACHINERY PART	
PROJECT		1,200 TEU CONT. C					PAGE	/ 13
No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
88	E/R SUPPLY FAN	2	TYPE : AXIAL FLOW, REV-1SET / NON REV.-1 SET CAP. : 1,800 m³/min. × 45 mmAq MOTOR : 36 KW × 1,160 RPM	HI-PRES	FAN ROOM ON UPP.DECK		AQ-1400/578	82-525-346-3500 82-525-346-3501
89	PURIFIER SPACE EXH. FAN	1	TYPE : AXIAL FLOW CAP. : 90 m³/min. × 45 mmAq MOTOR : 1.5 KW × 1,720 RPM		2ND DECK		AQ-560/380	
90	E/R WORKSHOP EXH. FAN	1	TYPE : AXIAL FLOW CAP. : 15 m³/min. × 10 mmAq MOTOR : 0.42 KW × 1,656 RPM					
91	ENGINE ROOM CRANE	1	TYPE : ELEC. MOTOR DRIVEN FESTOON CAP. : 4.5 TON × SPAN- m	DONGNAM	POOP DECK	3.0		82-551-295-3261 82-551-295-3260
	- HOISTING		MOTOR : 3.0 KW × 1,200 RPM					
	- TRAVELLING		MOTOR : 0.75 KW × 1,800 RPM					
	- TRAVERSING		MOTOR : 0.75 KW × 1,800 RPM					
92	LATHE	1	TYPE : HIGH SPEED PRECISION CENTER DISTANCE : 1000mm SWING OVER BED : 300mm MOTOR : 3.5 KW × 1,800 RPM	HWACHUN	WORKSHOP ON 2ND DECK	1.2	HL380 X 1000	82-2-523-7766 82-2-523-2867
93	DRILLING MACHINE	1	TYPE : UP-RIGHT DRILLING COMBINATION CAP. : MAX. 23 mm DIA. MOTOR : 0.75 KW × 1,710 RPM	UEICHUN		0.125	KDR-450	
94	GRINDING MACHINE	1	TYPE : DOUBLE WHEEL CAP. : WHEEL DIA. : 200 mm MOTOR : 0.75 KW × 1,750 RPM			0.24		

HULL No.		N-644/5/6/7/8/9		EQUIPMENT LIST			MACHINERY PART	
PROJECT		1,200 TEU CONT. C					PAGE	/ 13
No.	EQUIPMENT	Q'TY	SPECIFICATION	MAKER /SUPPLIER	POSITION	WEIGHT(t)	MODEL No.	TEL/FAX
95.	GAS WELDING EQUIPMENT	1	TYPE : CENTRAL INSTALLATION. NO. OF CYL. : 2 OX + 1 AC	UNITOR	WORKSHOP ON 2ND DECK	0.2		82-51-728-4900 82-51-728-8848
96.	ELEC. WELDING EQUIPMENT	1	TYPE : TRANSFORMAR WELDING CURRENT : 300 A	CHOHEUNG		0.1	CH-1001	82-51-244-1920 82-51-248-3565
97	STEERING GEAR	1	TYPE : ELEC.-HYD 2 RAM -4CYL. CAP. : 90 TON.m	TONG MYUNG	S/G ROOM	7.2	FE21-090- T050	82-551-269-5124 82-551-269-5134
	- HYDRO.OIL PUMP	2	TYPE : AXIAL PISTON CAP. : 86.2 L/min. MAIN MOTOR : 25 KW × 1,800 RPM	/TONG MYUNG *LG /TONG MYUNG			LV-060-410R10 KMI-400NI	
	- CHAIN DRIVEN GREASE PUMP	1	CAP. : 0.45 CC/ST × 60 kg/cm²	HANIL		S/G ROOM	0.05	
98.	- S/G HYD. OIL STORAGE TANK	1	CAPACITY : 0.5.m³	HHIC	S/G ROOM		SELF. STAND	