STEERING GEAR SPECIFICATIONS

PLAN RECORD	REVISIONS		APPROVED	CHECKED	
0 METRIC SCREW THREAD	NO.	DESCRIPTION(DATE)			

PARTICULARS OF STEERING GEAR				
NOMINAL TYPE NUMBER			YDFT-475-2	
RULE DIA. OF RUDDER STOCK BY G.L		mm	Φ645.4	
DIA. OF RUDDER STOCK IN WAY OF TILLER BOTTOM		mm	Φ690(TAPER 1/15)	
TORQUE OF THE STEERING GEAR AT MAX. WORKING PRESSURE		kN-m	4.756	
		tf-m	485	
MAX. WORKING PRESSURE		bar	216	
		kg/cm²	220	
SAFETY VALVE ADJUSTING PRESSURE(DESIGN PRESS.)		bar	270	
		kg/cm²	275	
RUDDER TURNING SPEED (BY ONE PUMP)		deg/sec	65/28	
DIA. OF RAM		mm	335	
NORMAL TILLER RADIUS		mm	940	
MAX. WORKING RUDDER ANGLE		deg	35	
LIMIT RUDDER ANGLE		deg	37.5	
MOTOR	OUTPUT x NUMBER	kW	No.1 160×1	No.2 160/30×1
	THEORETICAL NUMBER OF REVOLUTION	rpm	1200	1200/600
	POWER SOURCE	V	AC 440, 3Φ, 60Hz	
	RATING		25% - Cont. 100% - 1 Hr. 200% - 60 sec.	
PUMP	TYPE x NUMBER		6V-FH2B-MK x 2	
	DESIGN TILTING ANGLE	%	87	
	THEORETICAL DELIVERY OIL QUANTITY	ℓ/min	573	
TOTAL OIL QUANTITY		ℓ	abt. 2,700	
TOTAL WEIGHT(EXCEPT REPEAT BACK UNIT)		kgf	abt. 31,250	
MAIN PRESSURE PIPE (OUTDIA. x THICKNESS)		mm	63.5 × 9	
STORAGE TANK CAPACITY		ℓ	abt. 1,800	
SOLENOID VALVE CONTROL SOURCE			⚠ AC ~~110~~ 220V, 1Φ, 60Hz	

5,500 TEU CONTAINER CARRIER	FOR MESSERS : HYUNDAI HEAVY IND. Co., LTD. (SHIP No. : 1381/82 , 1407/08)
APPROVED [redacted] CHECKED [redacted] DRAWN K.J.P	YDFT - 475 - 2 ELECTRO-HYDRAULIC STEERING GEAR PARTICULARS OF STEERING GEAR
LASS SCALE	
G.L SERIAL No. : YS-5435~5438	DRAWING No. YS-ZH13812-F0100-0 / REV. No.

YOOWON INDUSTRIES LTD.

PLAN RECORD	REVISIONS		APPROVED	CHECKED	
) METRIC SCREW THREAD	No.	DESCRIPTION(DATE)			

PARTICULARS OF STEERING GEAR
(IN CASE OF USING EMERGENCY GENERATOR)

RUDDER TURNING SPEED (BY No.2)		deg/sec	15° ~ 15° / 60
RECOMMENDED MAX. WORKING RUDDER ANGLE		deg	15°
No.2 MOTOR	OUTPUT	kW	30
	THEORETICAL NUMBER OF REVOLUTION	rpm	600
	VOLTAGE	V	AC 440
	RATING		100%-CONT. 200%-60sec.
No.2 PUMP	TYPE		6V-FH2B-MK
	DESIGN TILTING ANGLE	%	87
	THEORETICAL DELIVERY OIL QUANTITY	ℓ/min	286.5

* No.2 MOTOR POLE CHANGE

5,500 TEU CONTAINER CARRIER	SHIPBUILDER : HYUNDAI HEAVY IND. Co., LTD. (SHIP No. : 1381/82, 1407/08)
APPROVED [redacted] CHECKED [redacted] DRAWN K.S.P	YDFT - 475 - 2 ELECTRO-HYDRAULIC STEERING GEAR PARTICULARS OF STEERING GEAR (IN CASE OF USING EMERGENCY GENERATOR)
LASS SCALE	
G.L SERIAL No. : YS-5435~5438	DRAWING No. YS-ZH13812~F0200-0 / REV. No.

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