TTS Marine ASA
 Technical Specification No.: 12537-2B

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 GP 115-5-12
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TECHNICAL SPECIFICATION AND SCOPE OF SUPPLY

GENERAL INFORMATION

CRANE TYPE : GP 115-5-12

DRIVE SYSTEM : ELECTRO HYDRAULIC

APPLICATION : Service Crane

DESIGN REQUIREMENTS

DESIGN RULES :

FLAG STATE

TEMP. RANGE : AMBIENT TEMP. -9,9°C TO + 45°C

DESIGN TEMP. -9,9°C

DUTY FACTOR : 1,05 DYNAMIC FACTOR : 1,15

HAZARDOUS AREA : NOT APPLICABLE

DESIGN STANDARDS : Norwegian Maritime Directorate: Rules for

Passenger- and Cargo-vessels, etc.

Federation Europeenne de la Manutention

(FEM) "Rules for the design of Hoisting

Appliances"

CUSTOMER REQUIREMENTS: NONE

CERTIFICATES

PEDESTAL : ABS

COMPLETE CRANE : -MAKER'S CERTIFICATE, ILO FORMAT, ON THE

FOLLOWING COMPONENTS:

- WIRE ROPE, SHACKLE, AND HOOK (LOAD

BLOCK)

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MAIN DATA:

MAX LIFTING CAPACITY	:	5	Т
MAX OUTREACH,	:	12	M
MIN OUTREACH		~2,5	M
	•	30	M
HOOK TRAVEL, MAX		30	IVI
HOOK SPEED	:		
Fully loaded hook / Light load	;	0-20 / 0-20	M/MIN
SLEWING SECTOR.	•	360	DEGR
SLEWING SPEED		1,2	RPM
LUFFING TIME (Main jib only) Average up/down	:	65	SEC
HEEL/TRIM	:	5/2	DEGR
PEDESTAL HEIGHT	:	1,3	М
PEDESTAL DIAMETER	:	1339	MM
WEIGHT OF CRANE	:	~8	TON
ELECTRIC DATA:			
SHIP POWER SUPPLY	MAIN 440V-60Hz		440V-60Hz
	AUX		3X220V/60Hz
			~30 kW
POWER COMSUMPTION	Туре		MARINE TYPE
MOTOR DATA	Duty class		S6-40% ID
	Rating		37,4 kW
	Enclosure		IP 55, Eexde IIB T4
	Insulation class		F

NOTE: Steel Weights and operation speeds may vary within \pm 10%

Type starter

DOL

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1. CRANE CONTROL

1.1 The crane is provided with an open control platform on the side of the crane house.

The control station consists of 3joysticks levers (hoist-slewing-luffing main iib).

All motions have step less speed control from 0 to max.

Two motions may be operated at the same time with full capacity, but with reduced speed.

Start/stop of pump motor is done from push button box on the crane pedestal.

2. SAFETY SYSTEMS

2.1 Load Limiting system

The main hydraulic circuit is protected by relief valves.

2.2 Hook stop

The hook movement will be automatically stopped in top position by hydraulic operated limit switch.

2.3 Luffing stop

The luffing cylinder is designed for safe buffering in the extreme positions.

2.4 Fail Safe Brakes

Both winch gear and slewing gears are provided with fail-safe disc brakes. The brakes are spring operated and pressure released.

2.5 Load holding valves

Winch motor, hydraulic cylinder and slewing motor are all provided with load holding valves which will freeze the movement in case of hose rupture or other failure causing pressure drop.

2.6 Emergency stop

An emergency stop is located close to the operator.

2.7 Control levers

Control levers of "spring-centred" type.

2.8 Safety railing

A safety railing is located around the operator platform.