

# **AS-BUILT CRANE SPECIFICATION**

PRODUCT RANGE PRODUCT REFERENCE BUILD NR OFFSHORE PLATFORM CRANES DHC 60\_3000 BH P119



#### OFFSHORE PLATFORM CRANES - DHC 60\_3000 BH

The P119 is a KENZ DHC 60\_3000 BH type crane. This is a Boom Hoist (BH) rope luffing offshore crane which employs hydraulic power for its main functions – Hoisting, Slewing and Luffing. It is built on a mainframe with a 3000mm diameter slewing bearing with a maximum design SWL lifting capacity of 60 tonnes. This DHC version is the Diesel Hydraulic powered version of this size in Kenz' standard offshore crane range, specifically designed for use on fixed offshore platform installation. Its design has proven itself over the years with an installed base of approximately 120 cranes. This crane is optimised for reliable day-to day operations on offshore platforms.

The P119 is a Diesel Hydraulic drive version, suitable for operations in ATEX zone 2 environment.

The P119 was originally designed according LRS CLAME 1987, chapter 3, section 3 "offshore cranes". The crane has been removed from its pedestal with valid certification by Lloyd's Register.



## **PERFORMANCE**

Ιi	ftina	capacit	v

Simultaneous operation	Three functions can be operated simultaneously under full load at maximum speed.			
woues of operation	Platform lift Operations Supply boat Operations			
Modes of operation	Platform lift Operations			
Whip hoist	8.0 m 42	m		
Main hoist		m	82° / 15° boomangle, 2-fall	
Working radius	Minimum Maximum			
Luffing time full load	Approx. 90 sec. min to max working radius @ max. SWL			
Range	-10° to 82° (17°-82° with load)			
Luffing	8-fall			
Slewing speed	0-0.75 rpm			
Slewing range	n x 360° - unlimited			
Slewing	3 row ball-bearing with internal g	ear teeth		
Constant tension	0.5-2 tonnes 1-1	fall operations		
			,	
<u>-</u>		60 m/min	0-100 m/min	
		t in 2-fall	7.5t	
Hook speeds	Variable load dependent speed, step-less from zero to maximum  Main Hoist Main Hoist Whip Hoist			
Hook speeds	Variable load dependent speed s	ten-less from zero to may		
	Supply boat up to "Seastate 2-3"	1-fall	7.5t@42m	
Whip hoist	Platform	1-fall - max SWL=7.5t	7.5t@42m	
	Supply boat up to "Seastate 6"	1-fall	12t@21m	
	Supply boat up to "Seastate 4" 1-fall		15t@33m	
	Supply boat up to "Seastate 4" 2-fall		30t@16m	
	Supply boat up to "Seastate 2-3"	1-fall	15t@33m	
	Supply boat up to "Seastate 2-3"	2-fall	30t@18m	
	Platform	1-fall	15t@33m	
	Platform	2-fall	30t@22m	
Main hoist				
	Platform	4-fall - max SWL=60t	60t@13m	



## **DESIGN CRITERIA**

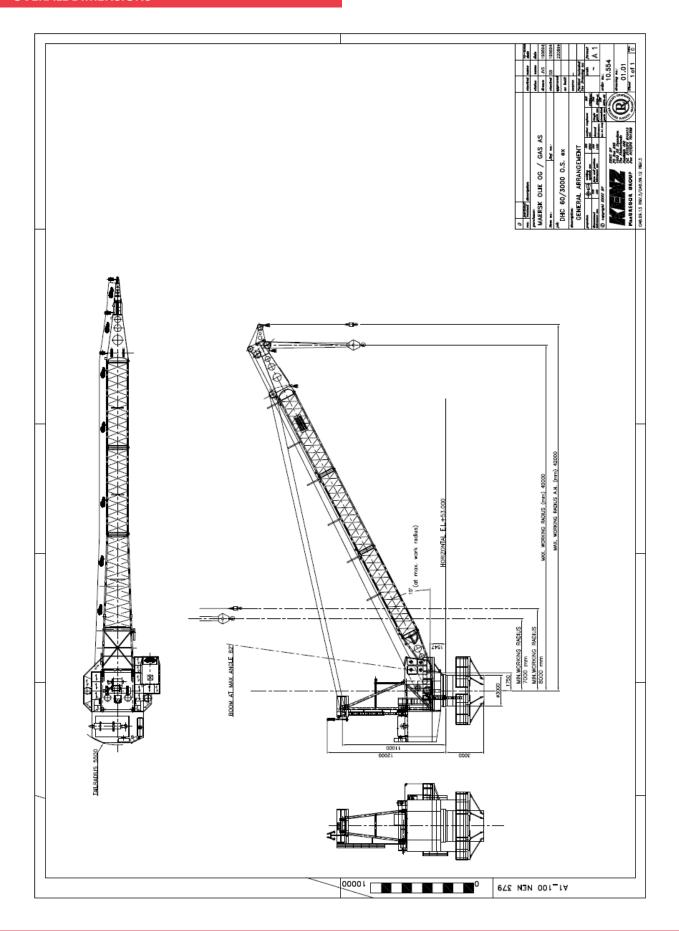
Design	Certification by	/ Lloyd's Registe	r		
Year of build	1995				
Main design code	LRS CLAME 1987, Chapter 3, Section 3 : Offshore Cranes"				
General Design guidelines	* Applicable Da	anish Rules and	Regulations.		
	* DIN 15018 te	il I+II			
other	Maersk O&G E	ngineering spec	ifications		
Ambient working Temperature	-10° C up to +2	2° C (structural	design temperature -10	° C)	
Design wind speeds	30 m/s		Operational (platform l	fts)	
	20 m/s Operational (Supply boat lifts)		at lifts)		
	63 m/s		Stored (in boom rest)		
Compa Duty Coala Classification	A				
Crane Duty-Cycle Classification	According FEM	1.001			
Class of Utilization	U4				
State of loading	ı Q2				
Group classification for Crane	A4				
Classification of Mechanisms	Main hoist	Slewing	Luffing	Splitterbox	
Spectrum class	T5	T5	T5	T5	
Duration of use	L2	L3	L3	L3	
Group classification for Mechanism	M5	M6	M6	M6	
Hazardous Area Classification	Zone 2, IIB, T3				

## **INTERFACE DATA**

Crane control	Operator Cabin RHS; Electronic (PLC) operated systems		
Operational Weight	80 t (e	excluding pedestal)	
Dynamic overturning moment	(@ underside slewbearing level)		
	Unfactored load	Factored Load (Duty=1.2 / Load=1.51)	
Max. Dyn. Overturning moment	6785 kN.m	13802 kN.m	
Max. Dyn. Axial Force	1017 kN	1403 kN	
Max. Dyn. Radial Force	26 kN	97 kN	
Max. Dyn. Slewing Moment	0 kN.m	512 kN.m	
Main driver	Mercedes OM 444 LA		
Auxiliary Power	Floodlights & Heating	400VAC / 50Hz, 3-ph + N	
UPS	AWL & Small power consumers	230VAC / 50Hz ,1-ph + N	
Power and signals	Power and signals via slipring		



## **OVERALL DIMENSIONS**

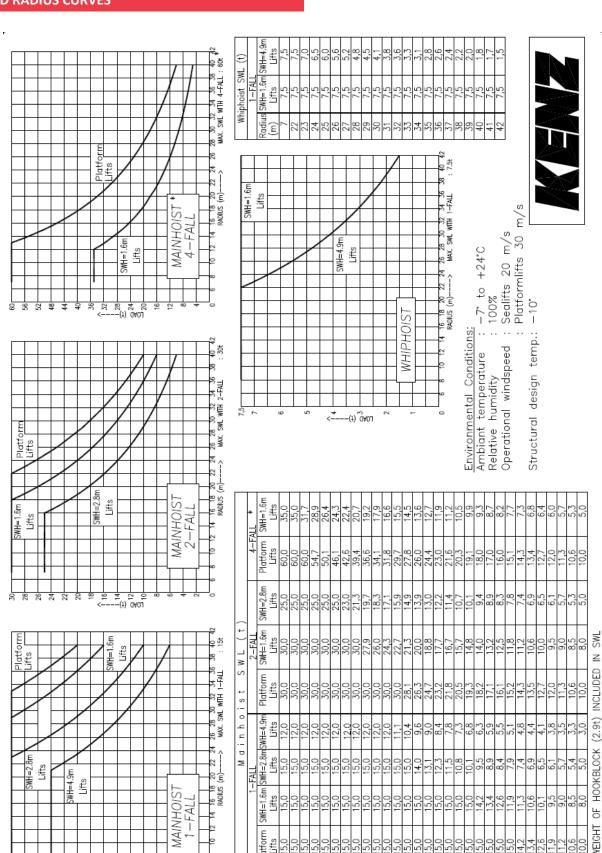




ᆼ

DEADWEIGHT

#### **LOAD RADIUS CURVES**



BH\_DHC\_60\_3000\_OS © Copyright Kenz-Figee Group B.V. 5

-(1) GAOJ