

MARINE LOADING ARM DATASHEET

1.1 CONTACT INFORMATION

Contact details			
Company			
Location			
Contact person		e-mail	

1.2 PROJECT PLANNING

Project details			
Project	<input type="checkbox"/> Replacement	<input type="checkbox"/> Facility expansion	<input type="checkbox"/> New terminal / plant
Project phase	<input type="checkbox"/> Budget	<input type="checkbox"/> FEED Study	<input type="checkbox"/> Tender
Planned date of site delivery			

1.3 ENVIRONMENTAL DETAILS

Environmental influences			
Location	City		Country
Terminal / plant name			
Temperature	Min		Max
Seismic load			Peak ground acceleration (g)
Max wind speed stored position			M/s
Max wind speed maneuvering			M/s
Hazardous Area Classification			ATEX / NEC

1.4 GENERAL REQUIREMENT

JLA Product	Product / Medium	Flowrate m ³ /h	Diameter (inch)	Operation	
Marine Loading Arm 1				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 2				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 3				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine loading Arm 4				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 5				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 6				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 7				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 8				<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic

1.5 DESIGN DETAILS

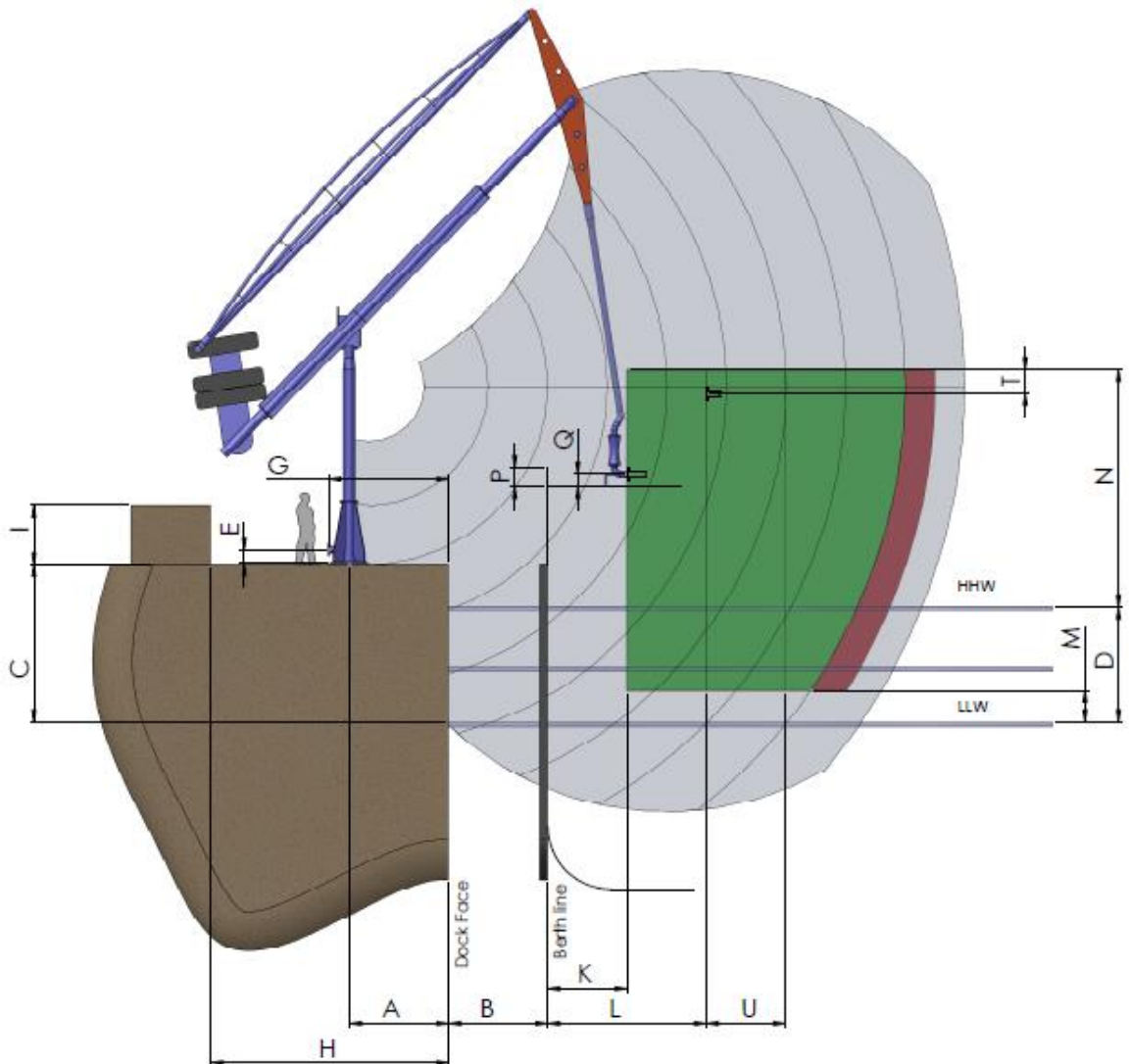
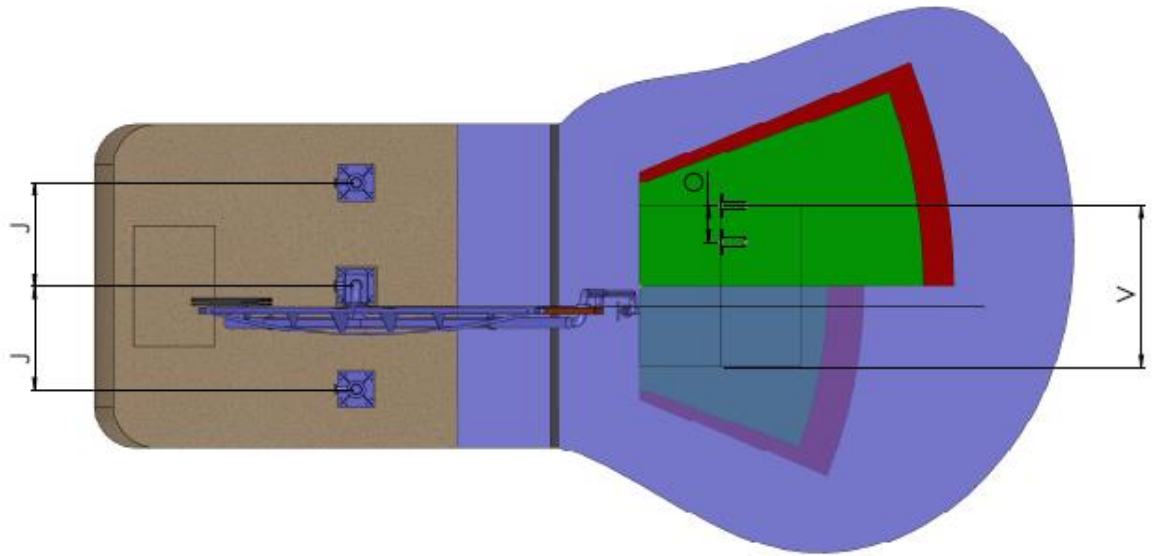
JLA Product	Design pressure (bar)	Design temperature (min/max °C)	Operation	
Marine Loading Arm 1			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 2			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 3			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine loading Arm 4			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 5			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 6			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 7			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic
Marine Loading Arm 8			<input type="checkbox"/> Manual	<input type="checkbox"/> Hydraulic

1.6 ACCESSORIES

JLA Product	QCDC	ERS	Vacuum breaker	Tracing and insulation	Vapour return line
MLA 1 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 2 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 3 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 4 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 5 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 6 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 7 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no
MLA 8 Operation	<input type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> Manual <input type="checkbox"/> Hydraulic	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no	<input type="checkbox"/> yes <input type="checkbox"/> no

1.8 DIMENSIONS

Jetty Dimensions			
A	Centerline of Base Riser to dock face		
B	Dock face to compressed fender		
C	Dock level to lowest low water	Min	
D	Difference between lowest low water and highest high water	Max	
	The minimum ship size	DWT	
	The maximum ship size	DWT	
Vessel Data			
K	Min. Distance from ship railing to ship connection flange	mm	
L	Max. Distance from ship railing to ship connection flange	mm	
M	Minimum difference between Lowest low water and ship flange	mm	
N	Maximum difference between Highest high water and Ship Flange	mm	
O	Minimum spacing between ship flanges	mm	
	Maximum spacing between ship flanges	mm	
P	Rail height	mm	
	Is the rail removable?	mm	
Q	Height of center of ship flange to deck	mm	
Ship Movements			
T	Heave	mm	
U	Sway	mm	
V	Surge	mm	
Additional jetty dimensions			
E	Centerline of inlet flange to dock level	mm	
G	Dock face to flange face	mm	
H	Any dock conditions that limit the arm design	mm	
I	Any dock conditions that limit the arm design	mm	
J	Spacing between different base risers	mm	



1.9 CONTROL SYSTEM

Berth information	
Berth customer reference	
No. of New Marine Loading Arms	
No. of existing Marine Loading Arms	

Item	Configuration	Hazardous area classification	Included
1	Hydraulic control manifold	One (1) on each loading arm	<input type="checkbox"/> yes <input type="checkbox"/> no
2	Hydraulic Power Unit	Outside on jetty	<input type="checkbox"/> yes <input type="checkbox"/> no
3	Operation Control Panel at jetty nearby MLA	<input type="checkbox"/> Outdoor on jetty <input type="checkbox"/> Indoor in Berth control room	<input type="checkbox"/> yes <input type="checkbox"/> no
4	Satellite control panel	<input type="checkbox"/> outdoor on berth	<input type="checkbox"/> yes <input type="checkbox"/> no
5	PLC control cabinet	<input type="checkbox"/> Integrated in operation control panel <input type="checkbox"/> Standalone PLC cabinet in control room	<input type="checkbox"/> yes <input type="checkbox"/> no
6	Radio remote control		<input type="checkbox"/> yes <input type="checkbox"/> no
7	Pendant remote control	<input type="checkbox"/> On berth <input type="checkbox"/> At TSA (shipside)	<input type="checkbox"/> yes <input type="checkbox"/> no