

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

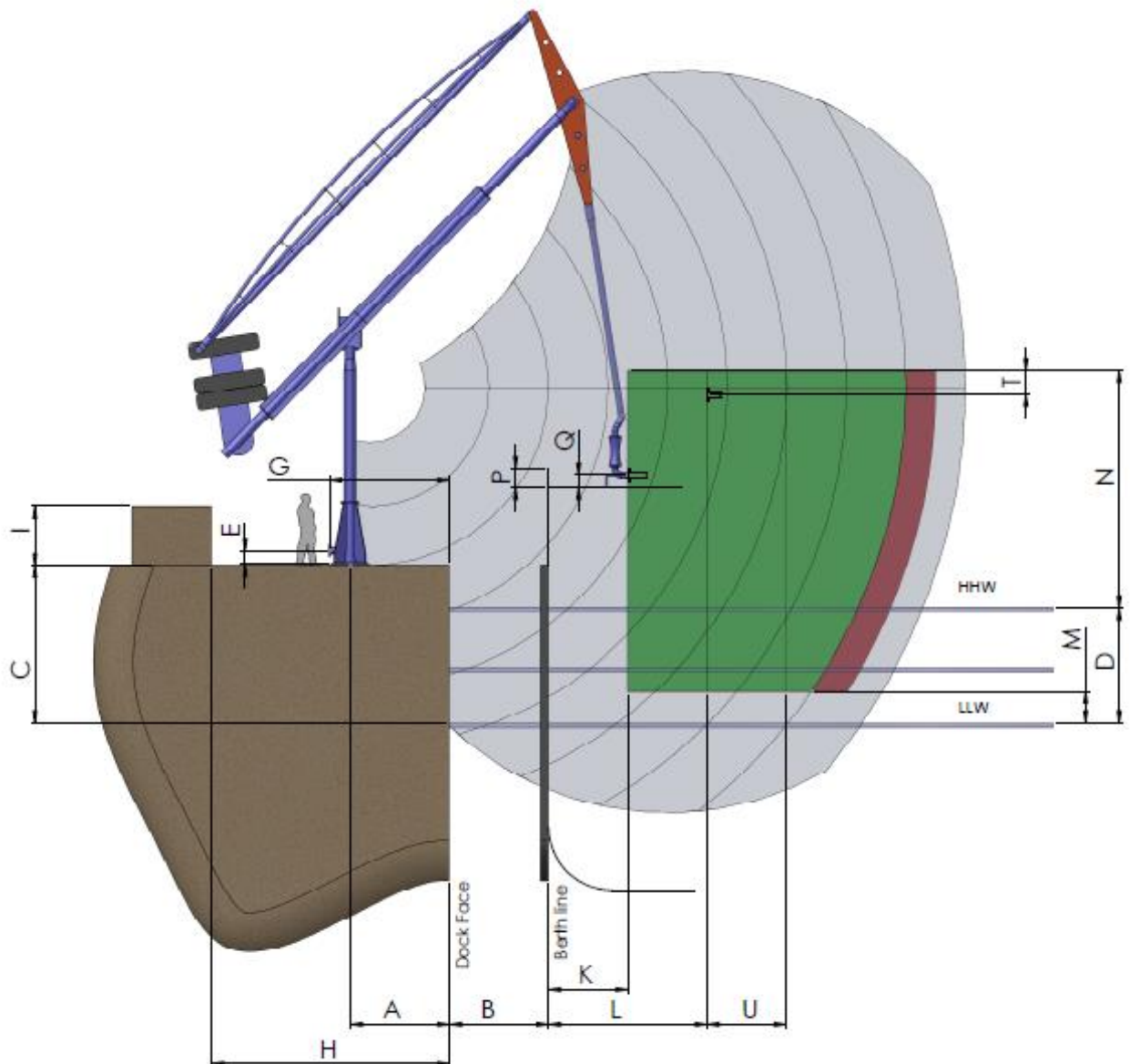
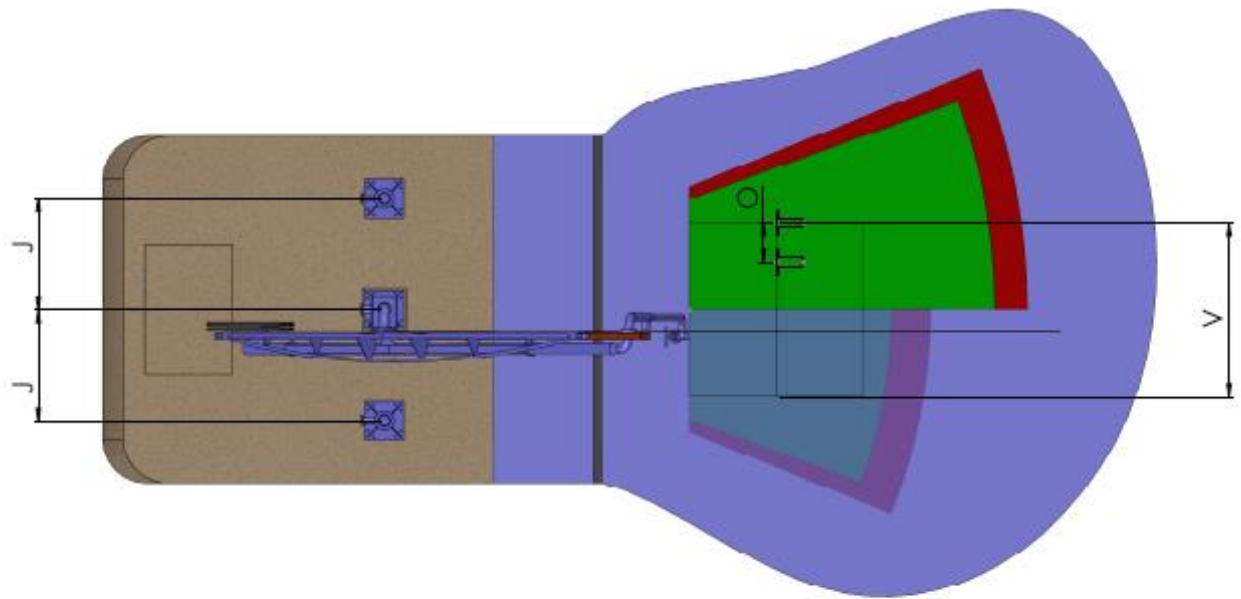
1.6 ACCESSORIES

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	

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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 <input type="checkbox"/> yes <input type="checkbox"/> no
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