

TECHNICAL DATA GANTRY GRAB SHIP UNLOADER 05 & 06



Manufacture : DINSON
 Year of Manufacture : 2013
 Operation Start : 2013
 Control System : ABB

No	Description	Specification	Remark
1	Type of machine	Gantry type Grab Ship Unloader for Iron Ore & Coal	
2	Control system	ABB PLC : AC800M Variable Speed Drive : ACS800	
3	Lifting Capacity: - Rated load under the trolley - Rated load in the grab - Weight of grab	45 ton 27.2 ton 17.8 ton	
4	Rated Capacity	1500 TPH	
5	Open/Closing Speed: - Hoisting (grab hoist and grab close) with loaded grab - Lowering (grab hoist grab close)with empty grab - Closing	100 m/min 150 m/min 100	
6	Trolley Speed:	180 m/min	
7	Gantry Speed	30 m/min	
8	Operating outreach from waterside rail	43 m	
9	Operating backreach from waterside rail	16 m	
10	Rail gage (center to center distance)	20 m	

11	Lift height above rail to underside of grab	26 m	
12	Lift height below rail to underside of grab	18 m	
13	Total lifting height	44 m	
14	Vehicular clearance under portal	9.27 m	
15	Overall width between buffers (uncompressed)	24.9 m	
16	Gantry Travel: a. Number of wheels: - Seaside - Landside b. Storm anchor device (manual) c. Wheel brake (electro-hydraulic) d. Buffer	8/corner – 4 driven/corner 8/corner – 4 driven/corner 2 sets 2 sets/corner 1 set/corner	
17	Grab: a. Type b. Capacity c. Handling material 1 (coal) d. Handling material 2 (iron ore)	4-rope grab 45 ton Material density: 0.64 ~ 0.9 t/m ³ Material density: 2.1 ~ 2.4 t/m ³	
18	Power Supply Method: a. Gantry travel b. Cabin traverse	Cable reel system, traverse distance: 300 m Cable festoon system, traverse distance: 42 m	
19	Main Motors: a. Main Hoist b. Main Closing c. Trolley	Capacity : 500 kW Type : M3BP400LKC6 Speed : 1000/1500 rpm Voltage : 400 VAC Duty : S1 Qty : 1 unit Capacity : 500 kW Type : M3BP400LKC6 Speed : 1000/1500 rpm Voltage : 400 VAC Duty : S1 Qty : 1 unit Capacity : 315 kW Type : M3BP355MLB6 Speed : 1000 rpm Voltage : 400 VAC Duty : S1 Qty : 1 unit	ABB ABB ABB

	d. Gantry travel	Capacity : 7.5 kW Type : DV132M4 Speed : 1450 rpm Voltage : 400 VAC Duty : S2 Qty : 16 unit	SEW
20	Brake: a. Main hoist / close brake	Type : SB28-800x30-Ed201/6 Braking moment : 8800 Nm Qty: 4 Unit	BUBENZER
	b. Main trolley brake	Type : SB28-630x30-Ed201/6 Braking moment : 6600 Nm Qty: 1 Unit	BUBENZER
	c. Gantry drive brake	Type : inside the motor Braking moment : 100 Nm Qty: 16 Unit	SEW
	d. Wheel brake	Type : YLZ40-180CP Braking moment : 73 kN Qty: 8 Unit	Huawu