

## Selected Bulk Equipment Projects

Project	Client	Year	Type	Services Provided										
				Design	Engineering Assistance	Condition Survey	Seismic Study	Inspection Program	Life Assessment	Repair Program	Vibration	Fatigue or Operations	Ship Collision	
Bauxite Unloader Study Brazil	McKay Int'l. Engineers Benicia, California	2011	Paceco Torque DM-11 unloader			✓			✓	✓				
Bauxite Unloader Design Review Brazil	McKay Int'l. Engineers Benicia, California	2010	IMPESA bauxite unloader	✓	✓	✓		✓					✓	
Confidential		2009	Two grab unloaders and one stacker reclaimer			✓		✓		✓			✓	
Unloader Seismic Study Sacramento, California	MacGregor	2009	MacGregor bulk AB unloader				✓							
Bauxite Unloader Study	Hoist & Crane Service Group Charlotte, North Carolina	2008- 2009	Wellmann unloader				✓		✓					
Confidential		2006- 2007	800 t cement unloader			✓	✓							
Loader Design Review Darwin Port Authority	Robert Reid & Associates Australia	2006- 2007	Techint loader	✓										
Unloader Design Review Esperance Port Authority	Robert Reid & Associates Australia	2006- 2007	ZPMC hybrid grab unloader	✓										

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Log Boom Cranes (Break Bulk) Various Locations	Price Systems, Inc. Malvern, Arkansas	2003	Alliant log handling crane	✓										
Fire Damaged Coal Loader Port of Los Angeles	Bickerton Iron Works Torrance, California	2001- 2003	Krupp coal loader		✓	✓					✓			✓
Fatigue Investigation Antone Hydraulic Dredge	The Dutra Group San Rafael, California	1999	Liebherr 998 hydraulic excavator			✓		✓				✓	✓	
Coal Loader Crane Assembly and Transport	Bickerton Iron Works Torrance, California	1997	Krupp coal loader	✓										
Loader Preliminary Design Port of Long Beach	Paceco Corporation	1976	Paceco loader	✓										
Unloader Design Review Dalmine	Paceco Corporation	1975	Paceco unloader	✓										
Unloader Design Review Alcoa	Paceco Corporation	1970	Paceco unloader	✓										