

Existing MBARI crane				
Static Load Test Results	17,325.00 lbf	16.4 foot radius		
SWL during ROV deployment	17,758.13 lbf	16 foot radius		
	<i>ABS</i>	<i>Glosten AOMD SS5</i>	<i>Glosten AOMD SS4</i>	<i>Measured >SS5</i>
Dynamic load factor (units = g)	1.75 g	1.52 g	1.32 g	1.20 g
Max allowable load on crane	10,147.50 lbf	11,682.98 lbf	13,453.13 lbf	14,798.44 lbf
Docking head static weight	3,100.00 lbf	3,100.00 lbf	3,100.00 lbf	3,100.00 lbf
Constant tension winch static weight	500.00 lbf	500.00 lbf	500.00 lbf	500.00 lbf
Max total ROV static weight in air*	6,547.50 lbf	8,082.98 lbf	9,853.13 lbf	11,198.44 lbf

New Effer 65000 crane				
SWL during ROV deployment	28110.00 lbf	16 foot radius		
	<i>ABS</i>	<i>Glosten AOMD SS5</i>	<i>Glosten AOMD SS4</i>	<i>Measured >SS5</i>
Dynamic load factor (units = g)	1.75 g	1.52 g	1.32 g	1.20 g
Max allowable load on crane	16,062.86 lbf	18,493.42 lbf	21,295.45 lbf	23,425.00 lbf
Docking head static weight	3,100.00 lbf	3,100.00 lbf	3,100.00 lbf	3,100.00 lbf
Constant tension winch static weight	500.00 lbf	500.00 lbf	500.00 lbf	500.00 lbf
Maxtotal ROV static weight in air*	12,462.86 lbf	14,893.42 lbf	17,695.45 lbf	19,825.00 lbf

Current weight estimate of Tiburon II	
Core Vehicle	10,000.00
Tool Sled	1,100.00
Total	11,100.00

* Includes ROV + Toolsled + all attached equipment + entrained water

Sea State 5 (winds = 24 knots)

