



MANIPULATOR COMPARISON

						
Model	TITAN 4	ATLAS 7R	RIGMASTER	CONAN 7P	ORION 7P/7R**	ORION 4R
Category	Heavy Work	Heavy Work	Heavy Work	Heavy Work	Medium Work	Medium Work
Power Source	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Rate/Position Control	Position	Rate	Rate	Position	Position or Rate	Rate
Number of Functions	7	7	5	7	7	4
Materials	Primarily Titanium	Anodized Aluminum & Stainless Steel	Anodized Aluminum, Stainless Steel & Titanium	Anodized Aluminum & Stainless Steel	Anodized Aluminum & Stainless Steel	Anodized Aluminum & Stainless Steel
Maximum Reach	1,922 mm/75.7 in.	1,664 mm/65.5 in.	1,067 mm/42.0 in. (retracted); 1,372 mm/54.0 in. (extended)	1,806 mm/71.1 in.	1,532 mm/60.3 in. (7P/R) 1,850 mm/72.8 in. (7PE/RE)	682 mm/26.9 in.
Input Device	Replica Master Arm	Rate Hand Controller	Rate Hand Controller	Replica Master Arm	Replica Master Arm or Rate Hand Controller	Rate Hand Controller
Depth Rating, Standard	4,000 msw/13,124 fsw	6,500 msw/21,000 fsw	6,500 msw/21,000 fsw	3,000 msw/9,800 fsw	6,500 msw/21,000 fsw	6,500 msw/21,000 fsw
Depth Rating, Optional	7,000 msw/23,000 fsw	N/A	N/A	N/A	N/A	N/A
Lift at Full Reach	122 kg/270 lb	250 kg/550lb	270 kg/595 lb (retracted); 181 kg/400 lb (extended)	159 kg/350 lb	68 kg/150 lb	136 kg/300 lb
Weight in Air	100 kg/221 lb	73 kg/160 lb	64 kg/142 lb	107 kg/235 lb	54 kg/120 lb	30 kg/67 lb
Weight in Seawater	78 kg/174 lb	50 kg/109 lb	48 kg/105 lb	73 kg/161 lb	38 kg/83 lb	21kg/46 lb

**Specifications shown are for the standard-reach ORION 7P.