

ISE Manipulators

Magnum Series Multi Function, Field Serviceable Subsea Manipulators

Strong and rugged
Integrated telemetry
Anodized aluminum construction
Operating depth of 6,000 msw (Option to depth of 11,000 msw)
Integrated tool clamp
Proven reliability
Large operating envelope
Multiple gripper options



| | 5 STD | 5 Mini | 6 Mini | 7 |
|-------------------------------------|---------------------------------------|-----------------------|------------------------|---------------------------------------|
| Functions | 5 | 5 | 6 | 7 |
| Reach | 46 inches | 28 inches | 38 inches | 60 inches |
| Weight | 57 Kg (125 lbs) | 13 Kg (29 lbs) | 63 Kg (139 lbs) | 71 Kg (157 lbs) |
| Maximum Lift | 454 Kg (1000 lbs) | 68 Kg (150 lbs) | 454 Kg (1000 lbs) | 454 Kg (1000 lbs) |
| Lift at Full Extension | 295 Kg (650 lbs) | 23 Kg (51 lbs) | 317 Kg (700 lbs) | 295 Kg (650 lbs) |
| Wrist Torque | 108 Nm (80 ft-lbs) | 14 Nm (10 ft-lbs) | 108 Nm (80 ft-lbs) | 108 Nm (80 ft-lbs) |
| Grip Force | 160 Kg (350 lbs) | 35 Kg (78 lbs) | 160 Kg (350 lbs) | 205 Kg (450 lbs) |
| Input Pressure | 6900 kPa (1000 psi) | 3447 kPa (500 psi) | 6900 kPa (1000 psi) | 6900 kPa (1000 psi) |
| Input Flow (Recommended) | 19 LPM (5 gpm) | 19 LPM (5 gpm) | 19 LPM (5 gpm) | 19 LPM (5 gpm) |
| Control | Rate or Spacially Correspondent | Rate | Rate | Rate or Spacially Correspondent |

ISE has been designing and building subsea manipulators for over 35 years. Our current generation of Magnum manipulators offer extremely high lift capacity, even at full extension. Components and assembly have been refined to allow for rapid field serviceability, while maintaining a high degree of reliability.

Magnum Arms. Toughest in the business.



International Submarine Engineering Ltd.

All things underwater

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