Hibbard Inshore

Pipe and Tunnel Inspection Methods for all Conditions

Types of Remotely Operated Vehicles (ROV)

Key Features

	Long Range Navajo	SAAB ROV/AUV Hybrid	Streaming Vehicle	Long Range Crawler
	Free swimming vehicle Swims through pipe	**Free swimming vehicle** Swims through pipe	**Steamer vehicle** Floats through pipe	**Crawler vehicle** Drives through pipe
	Navigate complex structures including vertical shafts	**Navigate complex structures including vertical shafts**	**Navigates through partially filled pipe sections**	**Drives through mixed dry and flooded pipe sections**
	Medium Flow	**High Flow**	**High Flow**	**Dry**
	Services • Color and low light monochrome camera • Cross section sonar / map sediment buildup • Forward looking navigation / feature detection sonar • 3D mapping / alignment • Detect features in zero visibility water • Metal thickness assessment	**Services** • Color and low light monochrome camera • Cross section sonar / map sediment buildup • Forward looking navigation / feature detection sonar • 3D mapping / alignment • Detect features in zero visibility water	**Services** • Color and low light monochrome camera • Cross section sonar / map sediment buildup • 360 degree dual video camera pan and tilt • Ground penetrating radar	**Services** • Color and low light monochrome camera • Laser cross sections • 3D Laser Scans
	Deployment • Range up to 5,000 meters • Depth to 305 meters • Size—1194 mm X 610 mm X 420 mm • Multibeam sonar option would add 305 mm to height • 55 or 110 kgf thrust	**Deployment** • Ranges exceeding 20 kilometers (tethered) • Ranges up to 12 hrs (untethered) • Size—698.5 mm X 3657.6 mm X 419.1 mm • Multibeam sonar option	**Deployment** • Range up to 2,100meters • Size—3083 mm X 1418 mm	**Deployment** • Range up to 4,000meters • Size—1388 mm X 945 mm X 1000 mm • 333 mm vertical wall
	Notes: • Not restricted by slope of pipe • Four function manipulator and tool attachments available	**Notes:** • Not restricted by slope in pipe • Navigate branches in tunnel • Run untethered for more complex structures	**Notes:**	**Notes:**
	Reporting: • Video DVD and Notes • Data Acquisition System	**Reporting:** • Video DVD and Notes • Data Acquisition System	**Reporting:** • Video DVD and Notes • Data Acquisition System	**Reporting:** • Video DVD and Notes • Data Acquisition System