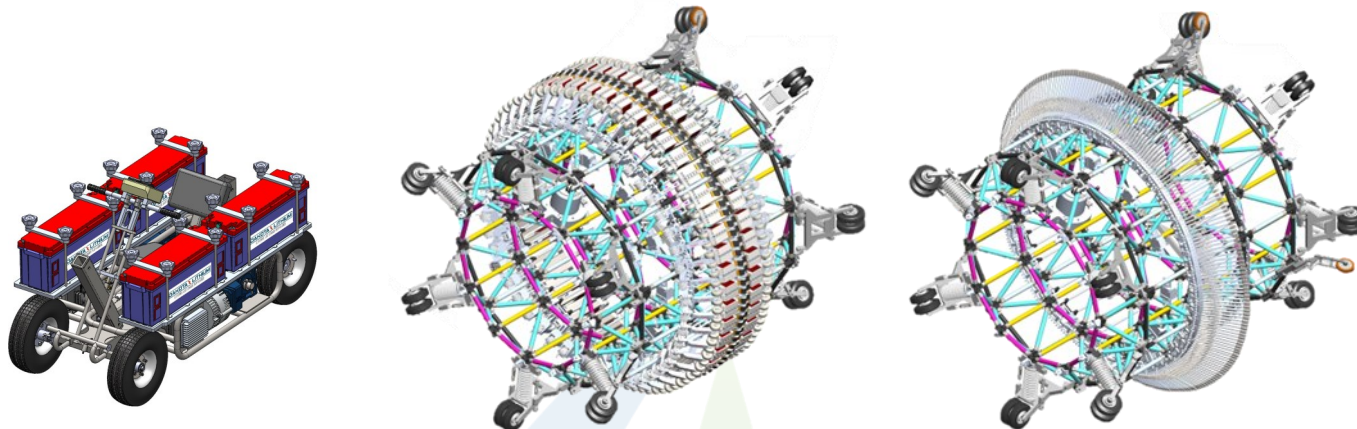


MFL-A HD, GEO, IMU Water Tool

Tool Specification



Data Acquisition Specifications

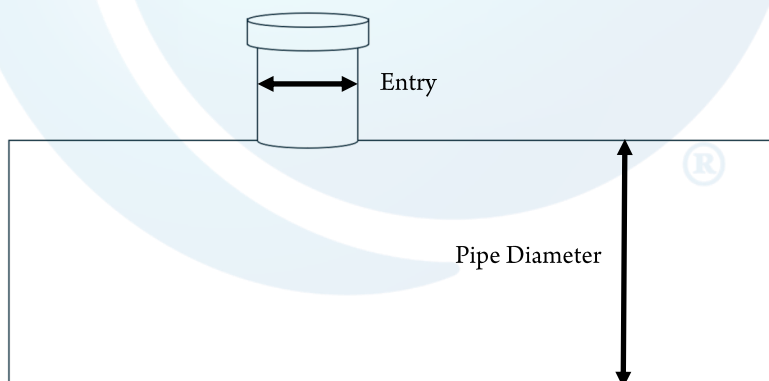
MFL Sensor Spacing	0.25" (6.35 mm)
MFL Channels	512 - 1152
Geometry Arm Spacing	1" (25.4 mm)
Geometry Channels	160 - 520
Odometer Channels	3

Operating Specifications

Maximum Tool Speed	2 mph (0.9 m/s)
Tool Battery Life	30 hours
Electric Tow Vehicle Battery Life	2 hours
Temperature Range	14° - 140° F (-10° - 60° C)

Pipeline Geometry Requirements

Pipe Diameter Range	48"-144" (1.21 m - 3.66 m)
Maximum Internal Lining Thickness (Mortar, Coal Tar, Epoxy)	.75" (25.4 mm)
Maximum Pipe Wall Thickness	0.5" (12.7 mm)
Minimum Entry Size	Ø16" (406 mm), 14" x 16" (356mm x 406 mm)
Bend Navigation	5D sweeping, Miter Bend



- The information contained herein is for illustration purposes only. Nothing in this document should be construed as a guarantee or warranty. Cypress reserves the right to modify any information, specifications or the Inspection Tool contained herein as it sees fit to best meet the customer's needs.
- The qualification of an in-line inspection tool is derived by activities in accordance to API 1163 "Inline Inspection Systems Qualification"
- The Inspection Tool will be prepared according to information obtained from the customer prior to its utilization and is based on our current knowledge and experience. All technical information in this document do not constitute a guarantee or warranty in the legal sense. We can assume no liability for incorrect information.
- Other factors in the pipeline environment can result in additional variances in defect detection and characterization. These factors include pipeline debris, scale, ferrous deposits, paraffins, gross deviations from nominal pipe bore, manufacturing methods and extreme speed variations. Maximum wall thicknesses vary with tool speed.



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Tool Specification

Tool Configurations			
Pipe Diameter Range (in.)	Frame Sections	MFL Channels	Geometry Channels
45.5 - 57.3	8	512	160
50.1 - 62	9	576	180
55.6 - 66.8	10	640	200
59.2 - 71.5	11	704	220
63.9 - 76.3	12	768	240
68.3 - 81.1	13	832	260
72.9 - 85.8	14	896	280
78.3 - 90.5	15	960	300
83.1 - 95.3	16	1024	320
87.8 - 100	17	1088	340
92.6 - 104.8	18	1152	360