

The Difference Is In The Image™



KLEIN MARINE SYSTEMS, INC.

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Integration and Training

As subject matter experts in sonar system and maritime radar design and deployment, Klein's factory trained and certified Field Engineers offer on-site project management, install turnkey systems, and provide system integration for large projects globally. Klein has proven experience with successful Military /Government projects worldwide and has been involved in many successful commercial Maritime Security client programs. Klein handles both emergency and warranty repairs for our systems world-wide. Klein offers a host of hands-on Operator, Maintenance and Classroom training options for the operators and users of Klein equipment that are tailored to our customers requirements.



Company History & Overview

Martin Klein considered to be the "Father of Side Scan Sonar" started Klein Marine Systems (Klein) back in 1968. His vision was to produce high performance sonar systems and 1st class customer service for the demanding markets that he served. Today, Klein Marine Systems, a wholly owned subsidiary of Mitcham Industries, Inc., is the world's leading supplier of side scan sonar equipment and waterside security and surveillance systems. Klein Marine Systems enjoys a worldwide reputation of excellence founded on high-quality products and customer service. Nearly 50 years later, Klein shares in the same vision as Marty did back in 1968.



People and Capabilities

Although Klein is considered a small business by US government standards, we are consistently challenging ourselves by setting big expectations! Our dedicated employees, most with long-term employment at Klein serve an array of broad capabilities supporting the business.



Our engineering team's expertise is derived from years of hands-on experience developing electrical, mechanical, and acoustic designs required for high performance sonar systems. Our technical capabilities cover a broad spectrum including system engineering, software development and electrical, mechanical and acoustic engineering.

Klein's manufacturing and test capabilities include electronic assembly, transducer assembly, machining and electronic and acoustic testing. Our operations group is capable of undertaking a wide variety of production processes and assembly tasks. Our test department supports a broad level of testing to exacting standards using dedicated test platforms and fixtures, combined with well-documented test requirement specifications and procedures.



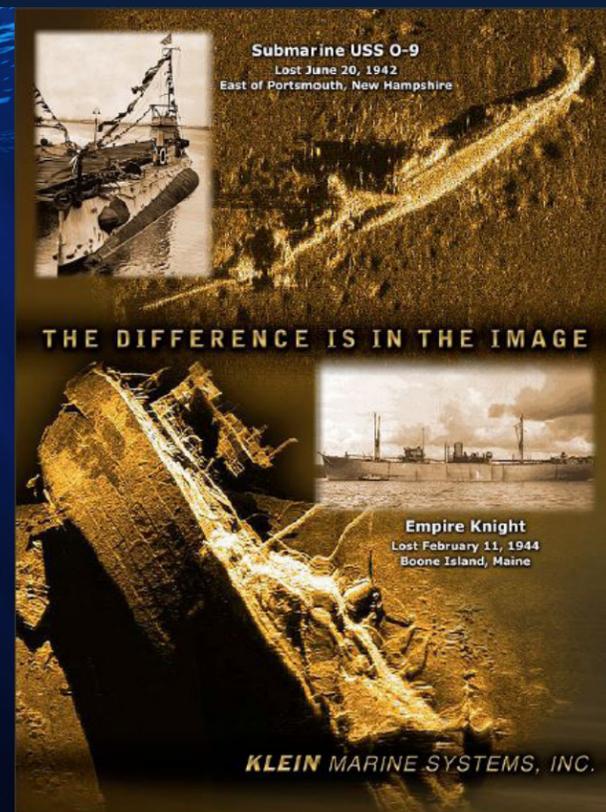
Our facility, located in the beautiful state of New Hampshire, contains 55,000 square feet of space supporting our engineering and manufacturing environment. Klein's business assets include clean room environments, pressure vessels, urethane dispensing systems and a significant amount of test and measurement equipment. The facility also contains two sonar test tanks, the largest of which contains approximately 16,000 cubic feet of water. These test tanks support production testing and transducer development activities.

At-sea testing of our systems is accomplished out of Portsmouth, NH using several University of New Hampshire (UNH) support vessels. Klein is a founding member of the UNH Center for Coastal and Ocean Mapping/ Joint Hydrographic Center and has enjoyed a mutually beneficial long-term relationship with the university.



Customer Service

Klein was arguably one of the first in the industry to provide a no-cost 24/7 customer service program originally referred to as Niteline. This service was created to provide technical and sales support after normal business hours. Today Klein, maintains it's commitment to "around the clock, around the world" service with well qualified technical and sales staff. We are currently servicing valued customers in 80 countries, and building upon international relationships to best meet the service needs of our customers. We fully appreciate the total cost of conducting a survey, and although our products are among the most reliable in the industry, there are times when service, technical support or spare parts are required on a priority basis. Our support staff can be reached at +1 603-893-6131 for emergency service or by email at techsupport@kleinmarinesystems.com during normal business hours.



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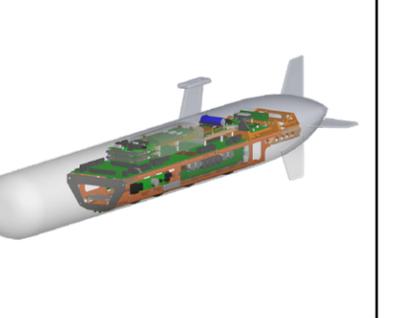
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MAKING THE OCEANS TRANSPARENT

Klein Products:

						
Model	System 3900 System 4900	System 3000 System 4000	System 5000 V2 System 5000 V2 Bathymetry	System 5900	HydroChart 3500 HydroChart 5000	UUV-3500
Description	High-Resolution Dual-Frequency Single Beam Side Scan	Long Range Dual-Frequency Single Beam Side Scan	High Speed Multi-Beam Side Scan Sonar with optional Bathymetry	Advanced Mine Hunting Multi-Beam Side Scan Sonar with optional Bathymetry and Gap Filler	Hydrographic Survey System	Vehicle Payload Sensor with configurations supporting Dual Frequency Single Beam Side Scan, Multi- Beam Side Scan Sonar and Bathymetry
Frequency	455/900 kHz 400/900 kHz	100/500 kHz 100/400 kHz	455 kHz	600 kHz	400/900 kHz 455 kHz	400/900 kHz 100/400 kHz 75/400 kHz
Depth Rating	200m/300m	1500m/2000m	500m	750m	N/A	600m/3000m/6000m
Configuration	Towed	Towed	Towed	Towed	Pole Mount/Hull Mount	AUV/USV/ROV/Tow Sled & Specialty Vehicles
Application	<ul style="list-style-type: none"> • Search and Recovery • Shallow Water Survey • Geological Surveys & Mapping 	<ul style="list-style-type: none"> • Seabed Target Identification • Geological Surveys & Mapping • Pipeline & Cable Survey 	<ul style="list-style-type: none"> • Mine Counter Measures (MCM) • High Speed Route Surveys • Pipeline & Cable Survey • Port and Harbor Security 	<ul style="list-style-type: none"> • Mine Counter Measures (MCM) • High Speed Route Surveys • Rapid Environmental (Bathymetry) Assessment Surveys • Port and Harbor Security 	<ul style="list-style-type: none"> • Shallow Water Hydrographic and Geophysical Surveys • Benthic Habitat Mapping • Construction & Dredging Operations 	<ul style="list-style-type: none"> • Hydrographic and Geophysical Surveys • Pipeline and Cable Survey • Environmental Assessments • Autonomous Mine Countermeasures

Klein also offers a complete line of Cable Configurations, Depressors and Tow Accessories. Most systems can be configured with most Acoustic Positioning Systems and Magnetometers.

Projects

In addition to our standard products, Klein has developed many custom designs to meet the most critical customers' needs. Our engineers have years of experience turning customer requirements into system solutions. We welcome customer inquiries where unique project challenges require innovative solutions. When the need is for a sonar sensor versus a sonar system, we take pride in working closely with system integrators to anticipate their needs, be extremely responsive and following through with our commitments.

