



EEL

Klein 4000

Description

An advanced, single beam side scan sonar for shallow water and long-range, deep-water operations. It is designed for use in tough offshore environments, with imaging and range technologies that ensure good motion-tolerant performance in heavy sea.

This sonar system is suitable for a wide range of applications, such as cable and pipeline, hydrographic, and archaeological surveys, wreck hunting and salvage operations, and wide area search and recovery.



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Key data

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| Make | Klein Marine Systems |
| Model | 4000 |
| Technology | Single beam |
| Frequency | 100kHz/400kHz (dual simultaneous) |
| Pulse type | FM CHIRP and Selectable CW |
| Horizontal beam width | 1° at 100kHz, 3° at 400kHz |
| Vertical beam width | 50° |
| Across track resolution | 9.6cm at 100kHz, 2.4cm at 400kHz |
| Maximum range (per side) | 600m at 100kHz, 200m at 400kHz |
| Vertical beam centre | Tilted down 25° from horizontal |
| Towfish construction | Electro-polished 316 stainless steel |
| Body length | 1.42m |
| Outer diameter | 8.9cm |
| Weight | 32kg in air, 16.8kg in water |
| Maximum depth rating | 2000m |
| Sensors | Heading, roll and pitch, depth (0–2000m), and water temperature (0–35°C) |