



# 8500

## HDD GUIDANCE SYSTEM

The **Subsite® 8500**—which consists of an 8500T tracker, TD/TDR Display, and 850-series beacons—is an advanced, highly accurate electronic guidance system that is surprisingly simple to use. Its intuitive interface has easy-to-understand graphics—no cryptic symbols that require additional training time. As it guides you through the tracking process, instructing you how to calibrate the beacon, you'll soon realize that the 8500 guidance system is like nothing else on the market. The 8500 even offers two locating methods, so you can use your preferred method and verify results with the second.

The 8500's walkover location incorporates three ways to pinpoint a beacon:

- 1) Single-point**—use to find general location of beacon;
- 2) Peak**—use to position tracker over beacon if beacon depth is greater than 30 ft (9 m); or
- 3) Advanced**—use to position tracker over beacon if beacon depth is less than 30 ft (9 m).

## KEY FEATURES

- Icon- and menu-driven screens are intuitive and easy to navigate; straightforward onscreen graphics reduce training time.
- Provides true depth readings on inclines of up to 20 percent, so you can track up the sides of ditches and over uneven terrain.
- Offset locating and depth-reading ability—an exclusive feature—helps determine depth and horizontal offset alongside the beacon.
- With 60 roll positions on the clockface, you have access to more detailed information, resulting in a more accurate bore.
- Ultra-low, 1.75-kHz frequency can “see through” signals from nearby objects, such as rebar and overhead power lines.
- Drill-Thru location can improve operational speed and make real-time corrections to avoid obstacles.
- Soft-touch hand grips and balanced weight help make the 8500 easy to use over the course of a long day



# 8500 GUIDANCE SYSTEM SPECIFICATIONS

## 8500T TRACKER

|                             |   |
|-----------------------------|---|
| Height                      | 6.4 in (163 mm)   |
| Length                      | 13.2 in (335 mm)  |
| Width                       | 35.5 in (902 mm)  |
| Operating weight            | 8.3 lb (3.8 kg)   |
| Operating temperature range | -4° F to 122° F (-20° C to 50° C)   |
| Operating modes             | 1.75 kHz Beacon and<br>11.2 kHz Beacon  |
| Radio channels              | 7 to 14   |
| Radio range                 | Up to 2000 ft   |
| Radio frequency             | 900 MHz   |
| Battery type                | 6 C-cell alkaline or rechargeable C-cells   |
| Battery life                | Approximately 8 hours (continuous use @ 70° F/21° C)  |
| Battery saver               | Unit powers down after 5 minutes if no key is pressed and no beacon communication is detected. This feature can be disabled in a menu item. |

## TD & UNIVERSAL DISPLAY

| TD <sub>R</sub> REMOTE VERSION |                                |
|--------------------------------|--------------------------------|
| Length, max                    | 6 in (152.4 mm)                |
| Width, max                     | 6 in (152.4 mm)                |
| Depth, max                     | 6 in (152.4 mm)                |
| TD IN-DASH VERSION             |                                |
| Length, max                    | 7 in (177.8 mm)                |
| Width, max                     | 7 in (177.8 mm)                |
| Depth, max                     | 6.5 in (165.1 mm)              |
| Operating temperature          | -4-140°F (-20-60°C)            |
| Storage temperature            | -22-158°F (-30-70°C)           |
| IP Rating                      | IP66                           |
| Telemetry range w/TKd & TKq    | 2,000 ft (610 m)               |
| Telemetry range w/TK           | 1,000 ft (304.8 m)             |
| No batteries                   | Powered off the rig power only |

## 850-SERIES BEACONS

|                     |  |
|---------------------|--|
| Length              | 17.6 in (447 mm)   |
| Diameter            | 1.5 in (38 mm)   |
| Weight              | 2.2 lb (998 g)   |
| Operating frequency | 1.75 kHz and 11.2 kHz  |
| Roll                | 60 positions (every 6 degrees)   |
| Battery type        | 1 CC alkaline power stick<br>2 C-cell alkaline batteries<br>1 CC lithium battery |



\* Units are calibrated to these tolerances under ideal test field conditions. Actual operating field conditions may have signal distortions or may contain noise sources which result in depth estimates and ranges that are less than specified.

Specifications are general and subject to change without notice. If exact measurements are required, equipment should be weighed and measured. Due to selected options, delivered equipment may not necessarily match that shown.