



DITCH WITCH® 8500 ELECTRONIC GUIDANCE

Narrow corridors and high interference. These are the enemies of successful HDD installations. Enter the Ditch Witch 8500 electronic guidance system. With its unparalleled beacon location capability, depth readings to within fractions of an inch, and incredibly intuitive user interface, the 8500 arms you with the vital information you need to conquer even the toughest of bores.



KEY FEATURES

Icon- and menu-driven screens are intuitive and easy to navigate. On-screen graphics are straightforward, reducing training time.

Provides offset locating information, so you can track around buildings and other obstacles, or along the side of a road while drilling under it.

Gives true depth readings even on inclines to 20°, so you can track up the sides of ditches and over uneven terrain.

USB connection and SD card in the remote display make data sharing easy.

8500 1007-1

DETAILS

Industry-exclusive “drill-thru” mode allows you to place the tracker at a given point and drill to it and beyond it on a calculated path while viewing current and predicted depth.

Provides 60 roll positions on the clock face for unprecedented accuracy and straighter bores.

A second, ultra-low 1.75-kHz frequency sees through high-noise interference like rebar and overhead lines and can be switched downhole and on the fly.

Molded, soft-touch hand grip on the well-balanced 8500TK keeps operators comfortable.

With seven radio channels to choose from, the chance of cross-talk with nearby drills and electronic devices is greatly reduced.

Accepts rechargeable or standard C-cell alkaline batteries and has longer battery life than anything in its class.

 **Ditch Witch**
GROUNDBREAKING™

SPECIFICATIONS

8500TK TRACKER DIMENSIONS

HEIGHT
LENGTH
WIDTH
OPERATING WEIGHT

8500

U.S.	METRIC
6.4 IN	163 MM
13.2 IN	335 MM
35.5 IN	902 MM
8.3 LB	3.8 KG

8500TK OPERATION

OPERATING TEMPERATURE RANGE
OPERATING MODES
RADIO CHANNELS
RADIO RANGE
RADIO FREQUENCY (U.S.)
RADIO FREQUENCY (INTERNATIONAL)

-4°F TO 122°F	-20°C TO 50°C
1.75 KHZ BEACON & 11.2 KHZ BEACON	
7	7
2000 FT	609.6 M
900 MHZ	900 MHZ
2.4 GHZ	2.4 GHZ

8500TK BATTERIES

TYPE
BATTERY LIFE (CONTINUOUS USE @ 70°F/21°C)
BATTERY SAVER

6 C-CELL ALKALINE
APPROXIMATELY 10 HOURS
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.

8500D DISPLAY (MODULE ONLY)

OPERATING WEIGHT
POWER INPUT
INTERFACE CONNECTORS
DATA STORAGE
RADIO CHANNELS
RADIO RANGE
RADIO FREQUENCY (US)
RADIO FREQUENCY (INTERNATIONAL)

2.5 LB	1.1 KG
6.5V DC - 16V DC @ APPROXIMATELY 150 MA	
USB-B	USB-B
SD CARD	SD CARD
7	7
2000 FT	609.6 M
900 MHZ	900 MHZ
2.4 GHZ	2.4 GHZ

8500D DISPLAY (MODULE WITH CASE)

OPERATING WEIGHT
BATTERY TYPE
BATTERY LIFE
INTERFACE
ANTENNA

6.5 LB	3.0 KG
6 C-CELL ALKALINE	
APPROXIMATELY 20 HOURS	
USB-B	USB-B
TNC FEMALE	TNC FEMALE

850 SERIES BEACONS

LENGTH
DIAMETER
WEIGHT
OPERATING FREQUENCY
ROLL
BATTERY TYPE

17.6 IN	447 MM
1.5 IN	38 MM
2.2 LB	998 G
1.75 KHZ, 11.2 KHZ	1.75 KHZ, 11.2 KHZ
60 POSITIONS (EVERY 6 DEGREES)	
CC ALKALINE POWER STICK (QTY. 1)	
C-CELL ALKALINE BATTERIES (QTY. 2)	
CC LITHIUM BATTERY (QTY. 1)	

BATTERY LIFE (ALKALINE)

850B/850BG
850BH/850BGH
850BD/850BGD
850BDH/850BGHD
DEPTH RANGE
850B/850BG
850BH/850BGH
850BD/850BGD (11.2 KHZ)
850BD/850BGD (1.75 KHZ)
850BHD/850BGHD (11.2 KHZ)
850BHD/850BGHD (1.75 KHZ)

20 HOURS	20 HOURS
10 HOURS	10 HOURS
20 HOURS	20 HOURS
10 HOURS	10 HOURS

MAXIMUM TEMPERATURE
MAXIMUM FLUID PRESSURE

60 FT	15.2 M
60 FT	18.3 M
50 FT	15.2 M
30 FT	9.1 M
60 FT	18.3 M
40 FT	12.2 M
176°F	80°C
60 PSI	4 BAR

PITCH
850 SERIES
850 GRADE SERIES

1% INCREMENTS UP TO 100%
0.1% INCREMENTS UP TO 100%

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. *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 THAT ARE LESS THAN SPECIFIED.