



Pile Dynamics, Inc.
www.pile.com • 1.216.831.6131

Technical Specifications

Cross-Hole Analyzer Specifications (CHAMP-Q™)

MAIN UNIT

Physical

Size:

320 X 250 X 68 mm (12.6 x 9.8 x 2.7 in)

Weight:

5 Kg (11 lbs.)

Temperature range:

0 to 40°C (32 to 104° F) operating; -20 to 65°C (-4 to 149° F) storage

Display:

26.4 cm (10.4 in), sunlight readable, resolution 1024 X 768
Built in capacitive touch screen

Video Outputs:

HDMI

Power:

4-hour continuous data collection with internal 12V battery

Charging Time:

6-hour maximum

Electronic

Microsoft Windows® 10 or higher Operating System

Minimum of 128 GB SSD internal drive

Ethernet port

4 USB ports

12-bit analog to digital (A/D) converter

Sampling rate:

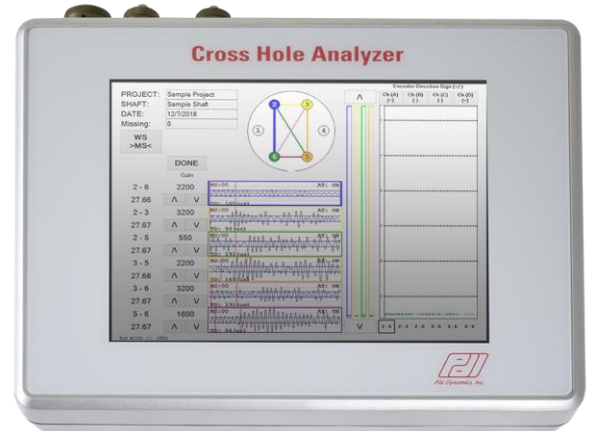
500 kHz, 1 MHz and 2 MHz; user selectable (equivalent measuring accuracy 2µs, 1µs and 0.5µs)

Scan rate:

32 scans/seconds

Record size:

250, 500 and 1000 points; user selectable
User adjustable gain



Other

- Operates in English, SI or Metric Units
- Furnished with CHA-W software
- Full one-year warranty
- Technical manual provided in PDF form on a USB Drive

PROBES

Physical

Size

245 mm length x 25.4 mm diameter (9.5 in length x .1 in diameter)

Element

Ceramic

Housing

- Nickel plated brass
- Independent depth encoder for each probe

Maximum measuring distance (probe separation)

3 m (9.8 ft)

Electronic

Pressure tested to 175 m (575ft)

Receiver

Tuned to 45 KHz nominal

Transmitter frequency (nominal)

45 KHz

Transmitter voltage

800 volts





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Technical Specifications

CABLES

Cable material

Heavy duty polyurethane outer jacket

Cable length

60, 100 or 150 m (196, 328, 492 ft)

Cables spooled over tripod (standard) or
with the pile encoder

