



VTEMTM max

VERSATILE TIME-DOMAIN
ELECTROMAGNETIC SYSTEM

Geotech's exclusive and industry-leading VTEMTM (Versatile Time-Domain Electromagnetic) system has surveyed more than two million line-kilometres with confirmed results in many different deposits and host geologies for various industries. We operate more than 30 VTEMTM systems globally.



FEATURES & BENEFITS

Geotech's VTEM™ *max* system is a VTEM™ (Versatile Time-Domain Electromagnetic) helicopter borne system developed by Geotech Ltd with a 35 m diameter transmitter loop. The VTEM™ *max* can generate up to 866,000 NIA peak dipole moment. The EM receiver provides both dB/dt and B-field measurements for Z, X and optional Y axis. The revised data acquisition system (full waveform) provides a wider range of time gate windows (18 microseconds to 10 milliseconds) making Geotech's VTEM™ *max* system even more versatile for a variety of applications.

TRANSMITTER

Transmitter-receiver geometry	In-loop, vertical dipole
Transmitter coil	Dodecagon shape - vertical axis, 960 m ²
Base frequency	Standard 25 Hz or 30 Hz depending on powerline frequency
Pulse shape	Polygonal
Pulse width	5.5 - 7.3 ms in length
Peak dipole moment	Up to 866,000 NIA (700,000 typ.)
Peak Current	Up to 230 Amperes (170 typical)

RECEIVER

Coils	Standard Z, X, optional Y
Sample rate	192 kHz over entire waveform
Bandwidth	Up to 50 kHz
Spheric noise rejection	Digital
Industrial noise rejection	50 Hz or 60 Hz

MECHANICAL

EM transmitter/receiver ground clearance	30 m
Operating temperature	-45°C to 45°C
Power requirements	From helicopter, auxiliary power not required
Shipping	Standard packaging (longest piece - 2.5 m)
Installation/assembly time	Typically two days

