



One Run. Done.

PRODUCT  
CATALOG

20  
22

**Global Downhole Tools**  
17575 Aldine Westfield Rd  
Houston, TX 77073

[www.GlobalDownholeTools.com](http://www.GlobalDownholeTools.com)

### OUR VISION

Tools that are robust, combinable, and able to run in both real time and memory situations are what we provide. We design our tools to work within the proprietary GDTbus protocol so that everything is modular in nature. By doing so it allows our customers to pick and choose what sensors they want to provide for their services. It all works together and simultaneously. There are no “project” tools in our product line, we make sure that our customers maintain the flexibility to add to what they currently own.

Our telemetry is designed to be simple to use and implement in older units in the field as well as new ones. The telemetry is fully compatible with the Warrior Well Logging System and does not require any additional cards or panels to get 50Kbps transmission rate. If our customers need more speed, we can obtain 200Kbps with additional hardware on surface.

When switching from running in real time to memory, you use the same sondes. Easy configuration for individual sonde sample rate(s), tool hibernation timing(s), and merging surface depth data to downhole tool data gives our customers the ability to quickly swap to alternative conveyance methods. Our software has easy export ability to get the data into the hands of analysts quickly.

All connectors are standard “GO” pin, so our customers can use the auxiliary equipment they already own and maintain. We also carry a wide assortment of running gear to fully prepare for difficult logging situations if a key part is missing from a customer’s inventory.



### 24 HOUR SUPPORT

Our support team is available to help when issues arise day or night.

### PARTNER NOT SUPPLIER

We establish relationships that go past the point of sale.

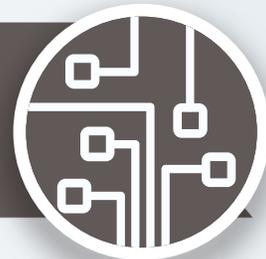


### CONFIDENCE IN EXPERIENCE

Our mechanical, electrical, and petroleum engineers have come from the wireline field.

### TARGETED TECHNOLOGY

R&D focused on our partners needs and requests to impact the market at a local level.





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**GDTa** >

High speed data for logging applications.

Tools Include:

- |     |      |     |
|-----|------|-----|
| MFI | PLT  | XYC |
| RBT | DNST |     |
| EMT | DSGR |     |

Speed

**GDTm** >

High reliability for mechanical and logging.

Tools Include:

- |     |     |     |
|-----|-----|-----|
| PTT | TCT | GCT |
|-----|-----|-----|

Reliability

**GDTf** >

Critical communication for safety and operations.

Tools Include:

- |     |     |     |
|-----|-----|-----|
| MAT | AMR | SPT |
|-----|-----|-----|

Function



# WIRELINE TELEMETRY SYSTEM WTC



## DESCRIPTION

The Wireline Telemetry Cartridge (WTC) is used when real time data acquisition is needed. The telemetry polls sondes connected below it for data and encodes the data for efficient transmission to surface. The WTC also receives commands from surface to control working mode of downhole sondes.

- WTC provides link from surface acquisition system to downhole tools
- Transmits any GDTbus protocol sonde in any configuration
- Sonde data is displayed in real time
- Bi-directional communication
- Default link speed of 50kbps
- Maximum link speed of 200kbps
- Configurable link rate allows flexibility for long exotic lines
- Dual power rail (18/180) allows for greater tool combinability

## WARRIOR COMPATIBILITY

- No cards, panels, or additional hardware needed
- Regularly updated service
- One service covers all GDT tool configuration options
- Tool calibrations available online 24/7
- Tools come with exported Warrior configuration file for quick integration

## SPECIFICATIONS

PROTOCOL	GDTa	
DIAMETER	1 3/8" (35mm)	1 11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	15,000psi (103MPa)	
VOLTAGE	180 VDC	
POWER OUTPUT	85W	
POWER RAILS	18V/1A & 180V/0.4A	
DEFAULT UPLINK RATE	50kbps	
MINIMUM UPLINK RATE	12.5kbps	
MAXIMUM UPLINK RATE	200kbps	
DOWNLINK RATE	300kbps	



# Memory System MLS



## DESCRIPTION

The Memory Logging System (MLS) is used when electric line conveyed realtime logging is not an available option, when using Slickline, or when using Coiled Tubing. A standard memory job consists of the following procedure:

- DMC is synced and programmed through the MCP
- MCP is connected to depth control device and records time versus depth
- Tools are lowered into hole and pre-set procedure is executed on the DMC to record time versus sonde samples
- Once back at surface, Depth and DMC data are merged in software to create a log



## CONVEYANCE

- Slickline
- Coil Tubing
- Below Wireline Tools
- Extended reach tractor jobs
- Drill Pipe

## SPECIFICATIONS

PROTOCOL	GDTa	
DIAMETER	1 3/8" (35mm)	1 11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	15,000psi (103MPa)	
VOLTAGE	13.5-20 VDC	
STAND-BY CURRENT	2mA	
SAMPLING RATE	Adjustable : 20ms-24hr	
DOWNLOAD RATE	1MB/sec	
MEMORY CAPACITY	512MB	
TOOL BUS RATE	512kbps	
BATTERY CAPACITY	6.2AH or 26.5AH	



**DMC**  
Downhole Memory

**DBC**  
Downhole Battery

**RTC**  
Real Time Clock

# PRODUCTION LOGGING TOOLS PLT



## DESCRIPTION

Production Logging Tools consist of a combination of different sensors and ancillary tools. The PLT tools can be combined with any tool in the GDTbus Suite using a Wireline Telemetry Cartridge(SRO) or Downhole Memory Cartridge(Memory). All tools can be combined in any order to facilitate well specific requirements.

## STANDARD TOOLS

- Gamma Ray / CCL Tool (GCT)
- Fluid Density Radioactive (FDR)
- Fluid Density Acoustic (FDA)
- Dual Spectral Noise Tool (DNST)
- Capacitance/Temperature/Flow (HTF)
- Folding Flowmeter (FBS)
- Continuous Flowmeter (CFJ)
- Inline Spinner Flowmeter (ILB)
- Quartz Pressure / CCL (QPC)
- Pressure Temperature (PTT)
- Fast Response Temperature (RDT)

## APPLICATIONS

- Evaluate completion efficiency
- Detection of mechanical problems
- Provide guidance for workovers
- Evaluate treatment techniques
- Monitor or profiling of production
- Detect thief zones
- Determine reservoir characteristics
- Define reservoir boundaries
- Detect Leaks

## AUXILIARY TOOLS

- Roller Centralizer Tool (RCT)
- Knuckle Joint Tool (KJT)
- Swivel Sub (PSC)
- Dual Roller Centralizer (DRC)
- Spring Bow Centralizer (SCT)

## SPECIFICATIONS

PROTOCOL	GDTa	
DIAMETER	1-3/8" (35mm)	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	15,000psi (103MPa)	
VOLTAGE / CURRENT	18VDC 35mA	



**STANDARD TOOL SPECIFICATIONS**

GAMMA RAY (GRT)	
SONDE COMPOSITION	Nal
CCL (CCL)	
SONDE CONFIGURATION	6 Oriented Magnet
FLUID DENSITY RADIOACTIVE (FDR)	
SONDE CONFIGURATION	Nal Crystal / AM241 or CS137
PRECISION	±0.01g/cc
ACCURACY	±0.03 g/cc
FLUID DENSITY ACOUSTIC (FDA)	
PRECISION	±0.01g/cc
ACCURACY	±0.03 g/cc
DUAL SPECTRAL NOISE TOOL (DNST)	
SONDE COMPOSITION	Piezoceramic
OPERATING FREQUENCY	100Hz - 12.7KHz
OUTPUT FORMAT	MP3
CAPACITANCE / TEMPERATURE / FLOW (HTF)	
CAPACITANCE RANGE	0 - 45%
CAPACITANCE ACCURACY	±1%
TEMPERATURE PRECISION	±0.018°F (0.01°C)
TEMPERATURE ACCURACY	±3.6°F (2°C)
TEMPERATURE RESPONSE TIME	<0.5s
FLOW RESOLUTION	10 PPR
FLOWMETER (FBS / CFJ / ILB)	
SONDE COMPOSITION	Jeweled or Ball Bearing
QUARTZ PRESSURE COLLAR LOCATOR (QPC)	
SONDE COMPOSITION	QUARTZDYNE
ACCURACY	±3.2 psi
RESOLUTION	±1.6 psi
RESPONSE TIME	< 1s
SONDE CONFIGURATION	6 Oriented Magnet
FAST RESPONSE TEMPERATURE (RDT)	
ACCURACY	±0.09°F (0.5°C)
RESOLUTION	±0.009°F (±0.005°C)
RESPONSE TIME	< 0.08 s

# PRESSURE TEMPERATURE TOOL PTT



## DESCRIPTION

The Pressure Temperature Tool (PTT) is a cost effective way to add pressure and temperature data to casing collar logs. Typically a standard CCL tool is combined below the tool. The PTT then supplements the correlation data with pressure and temperature data in real time. The tool has the ability to fire through it on both positive and negative polarities to enable mechanical services to be completed on the same run in the hole.

## APPLICATIONS

- Bottom Hole Temperature
- Bottom Hole Pressure
- Perf/Frac Analysis

## SPECIFICATIONS

PROTOCOL	GDTm
DIAMETER	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (103MPa)
LENGTH	41.9" (1065mm)
TEMPERATURE ACCURACY	±2°F (1.1°C)
PRESSURE ACCURACY	±10psi
DATA RATE	5.7kbps
COMPATIBILITY	Analog CCL



# DUAL SPECTRAL NOISE TOOL DNST

## DESCRIPTION

The Dual Spectral Noise Tool (DNST) is used to detect the incoming noises in the wellbore generated at different spectral frequencies from different sources. By analyzing the frequency spectrum, the nature of fluids may be determined and leaks can be located. Dual receivers allow the tool to reduce the effect of road noise while logging and also provide redundancy for stop checks.

Noise logging is applicable to oil/gas/water wells. It increases the success rate of locating leaks and channeling in tubulars. When combined with temperature and flowrate measurements, extensive quantitative interpretation can be performed.

Real time monitoring combined with the ability to save the audio to digital file provides ability to meet greater compliance regulations.

## APPLICATIONS

- Location of production interval and productivity evaluation
- Fluid identification and flow rate evaluation
- Inspection of the channeling behind casing, leaks, backflows, sand production, and effect of packers

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (103MPa)
LENGTH	33.29" (846mm)
MATERIALS	H <sub>2</sub> S Tolerant
LOGGING SPEED	15 ft/min (300m/hr)
WEIGHT	30lb (13.7kg)
OPERATING FREQUENCY	100Hz - 12.7KHz
FREQUENCY RESOLUTION	100Hz
AUDIO OUTPUT FORMAT	MP3 (Optional)



# DIGITAL SPECTRUM GAMMA RAY DSGR



## DESCRIPTION

The DSGR tool measures the amount of energy emitted from gamma rays in a well from natural and non-natural sources. Analysis of the energy spectrum can draw conclusions about where the radioactive content is present. The most common application is the identification of certain markers, such as scandium (Sc), antimony (Sb), and iridium (Ir). These markers are used for stimulation fluid and tracer operations by determining radioisotope placement and travel. Deeper analysis of the data can isolate these elements from the formation to aid in fracture geometry characterization.

## APPLICATIONS

- Stratigraphic Correlation
- Marker Bed Identification
- Radioactive Tracer Location
- Fracture and High Permeability Identification
- Deposition Environment Identification

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (103MPa)
LENGTH	30.1" (764.5 mm)
SPECTRUM CHANNELS	256/512 (Selectable)



# CEMENT BOND LOGGING TOOL RBT



## DESCRIPTION

The RBT is equipped with one transmitter and two receivers constructed out of piezoelectric crystals. The near receiver, located 3Ft from the transmitter, is constructed of an 8-sector radial sensor. The primary amplitude is constructed from radial signals at the near receiver while the Variable Density Log is constructed from the far receiver. The RBT can be deployed in deviated holes and combines easily with any of the GDT logging tools. The tool is comprised of H2S resistant materials throughout. All RBT tools have a built-in orientation sensor that allow for relative bearing and deviation data.

The analog waveform is completely digitized downhole and converted back to analog at surface for interpretation. By digitizing downhole the tool is able to:

- By-pass analog calibration pulse issues on H2S line transmission
- Store and revert to a calibrated configuration upon power up. Internal memory settings for sensor pickups circumvent the need for free pipe calibration

## APPLICATIONS

- Provide quantitative analysis of cement bond in eight 45 degrees segments for identification of channels in cement
- Identification of intervals of uniform bonding and detection of cement quality in casing sizes from 4 1/2 to 10 3/4 in
- Quantitative analysis of cement bond to casing
- Qualitative analysis of cement bond to formation

## SPECIFICATIONS

PROTOCOL	GDTa	
DIAMETER	1-11/16" (43mm)	2-7/8" (73mm)
MAX. TEMPERATURE	350°F (175°C)	
MAX. PRESSURE	15,000psi (103MPa)	
LENGTH	114.05" (2897mm)	93.2" (2367.5mm)
TRANSMITTER / RECEIVER TYPE	Piezoelectric	
RECEIVERS	6 (60 Deg)	8 (45 Deg)
VOLTAGE	18 VDC	
CURRENT	82mA	50mA
CASING RANGE	1 3/4" - 7" (45 - 177.8mm)	4 1/2" - 10 3/4" (114 - 273 mm)
LOGGING SPEED	35ft/min (11m/min)	



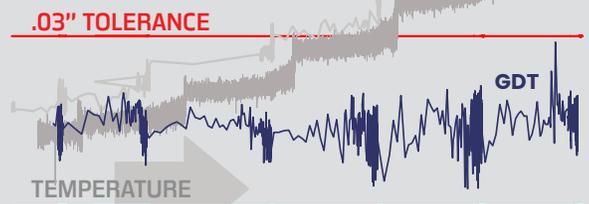
MFI 24/40/60  
MULTIPLE  
FINGER  
INSPECTION



ONE RUN DONE.

HIGH SPEED  
**160**  
SAMPLES/FT

PERFORMANCE



\*Calculated from 24 finger tool(s) average inner diameter reading through 350°F temperature drift @ 45" soak periods @ 50°F steps.

DESIGN

Global Downhole Tools leverages their ability to vertically integrate the tool manufacturing process to build tools for the oil and gas market. By controlling the sensor, mechanical, and electrical design, GDT can raise the standard for data acquisition in the cased-hole wireline market. For the MFI, the **larger sensor design** combined with **integrated drift correction** allows for better tool accuracy and precision while under temperature in a well.

BENEFITS

Global Downhole Tools uses an advanced bus architecture to enable any combination of tools to be run simultaneously in **real time** (SRO) or in **memory** configuration. The **easy change** caliper fingers are independent from the positional sensors to remove the requirement of temperature drift calibration files. **Well conditions** are **corrected downhole** without operator intervention. The result is an accurate, precise, high speed log with almost **no configuration needed**.

GET IN TOUCH

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# Multi-Finger Imaging Tool MFI



## DESCRIPTION

The Multi-Finger Imaging Tool has been designed to provide the most accurate Pipe ID caliper measurements in the industry. The high quality output data allows for 3-D imaging and calculation of corrosion, penetration, or scale deposition.

The MFI tool can be combined with any other tool in the GDTbus suite using a Wireline Telemetry Cartridge(SRO) or Downhole Memory Cartridge(Memory).

All MFI tools have a built-in orientation sensor that allow for relative bearing and deviation data correction. Temperature correction is hardware based so no software drift files are needed. The mechanical design allows for easy finger replacement in the field.

## APPLICATIONS

- Tubular damage analysis
- Perforation mapping
- Quantification of scale build up and corrosion
- Accurate location mapping of holes and anomalies
- Large casing (up to 21”) inspection with extension kit

## SPECIFICATIONS

PROTOCOL	GDTa		
DIAMETER	1-11/16” (43mm)	2-7/8” (73mm)	4” (102mm)
MAX. TEMPERATURE	350°F (175°C)		
MAX. PRESSURE	15,000psi (103MPa)		
LENGTH	57.48” (1460mm)	58.2” (1479mm)	60.51” (1537mm)
FINGERS	24	40	60
VOLTAGE	18VDC		
CURRENT	25mA	30mA	30mA
MOTOR CURRENT	<300mA		
PIPE RANGE	1-3/4” to 7”	3” to 8.25”	4-1/2” to 9-5/8”
ACCURACY	±0.03”	±0.03”	±0.03”
VERTICAL RESOLUTION	0.082”	0.110”	0.167”
RADIAL RESOLUTION	0.003”	0.005”	0.005”
FINGER FORCE	0.75lbs-1.25lbs (.34kg-.57kg)		
INCLINOMETER	±4.5°		



# XY Caliper XYC

## DESCRIPTION

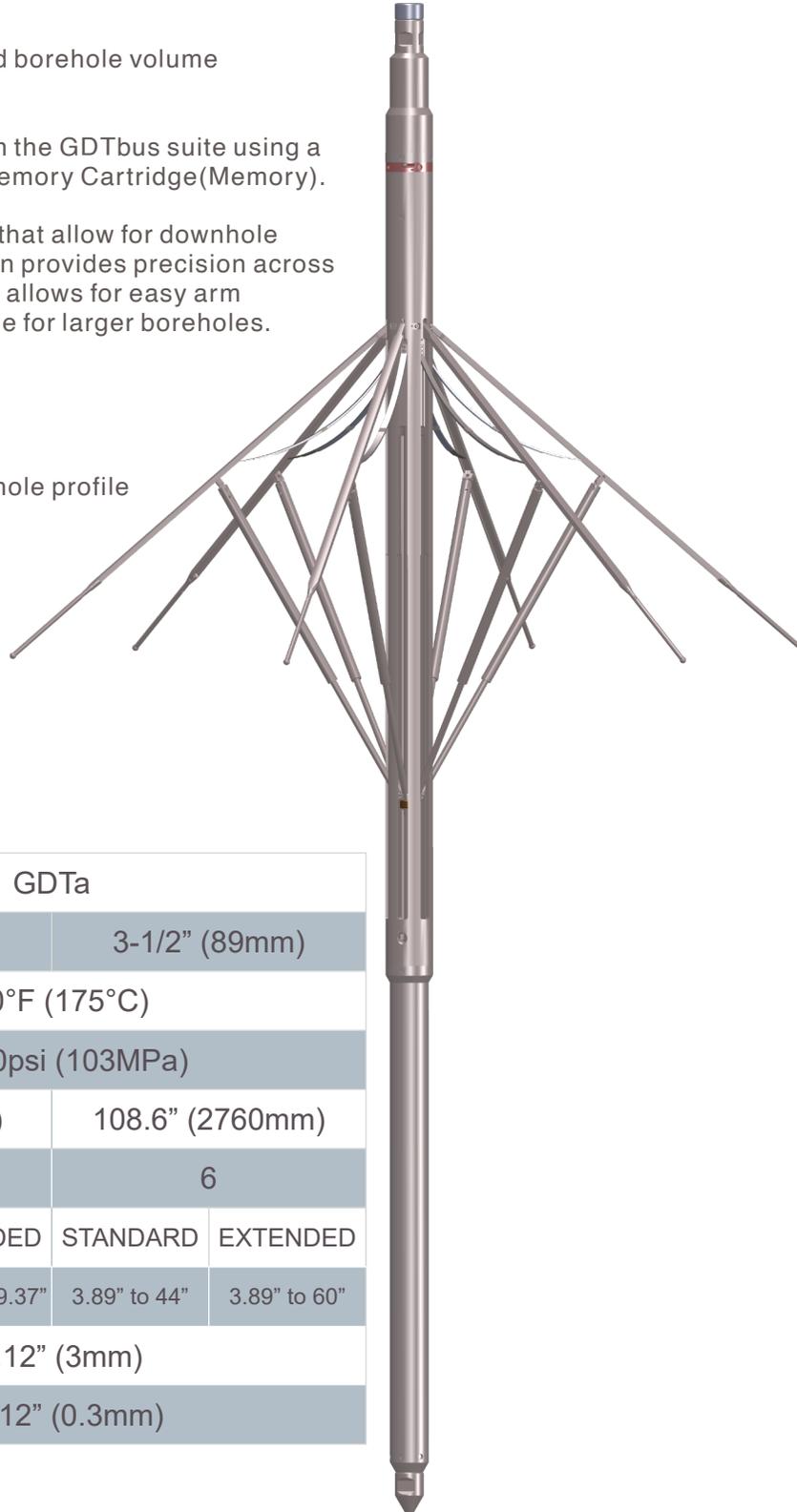
The XY Caliper tool provides borehole diameter and borehole volume calculations.

The XYC tool can be combined with any other tool in the GDTbus suite using a Wireline Telemetry Cartridge(SRO) or Downhole Memory Cartridge(Memory).

All XYC tools have an external temperature sensor that allow for downhole temperature measurements. Temperature correction provides precision across extended logging intervals . The mechanical design allows for easy arm replacement in the field and extensions are available for larger boreholes.

## APPLICATIONS

- Establishment of diameter changes along borehole profile
- Borehole volume calculation
- Identification of hard and soft formations
- Location of cracks, fissures or casing defects



## SPECIFICATIONS

PROTOCOL		GDTa			
DIAMETER	2-1/8" (54mm)	3-1/2" (89mm)			
MAX. TEMPERATURE	350°F (175°C)				
MAX. PRESSURE	15,000psi (103MPa)				
LENGTH	74.6" (1895mm)	108.6" (2760mm)			
ARMS	4	6			
CONFIGURATION	STANDARD	EXTENDED	STANDARD	EXTENDED	
PIPE RANGE	2.36" to 30"	2.36" to 39.37"	3.89" to 44"	3.89" to 60"	
ACCURACY	±0.12" (3mm)				
RADIAL RESOLUTION	±0.012" (0.3mm)				

# ElectroMagnetic Thickness Tool EMT-R



## DESCRIPTION

The Electromagnetic Thickness Tool - Radial (EMT-R) is designed to detect the damage of tubulars by calculating the remaining wall thickness and corrosion extent. Twelve bowspring arms contain sensors that measure residual thickness based on the remote field eddy current principle. Directional readings allow more precise tubular yield pressure calculations.

Processed data can be combined with caliper in order to generate detailed interpretation of wellbore condition along with 3D image.

## APPLICATIONS

- Measure the remaining wall thickness of casing
- Determination of the type(s) of damage: pits, penetrations, cracks in transverse or longitudinal plane
- Sectorized sensors allow localized identification of damage
- Inner and Outer wall damage identification
- Casing collar identification

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	1-1/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (103MPa)
LENGTH	85.86" (2181mm)
MATERIALS	H <sub>2</sub> S Tolerant
LOGGING SPEED	20 ft/min (6m/min)
MEASUREMENT RANGE	2"-7"



# ElectroMagnetic Thickness Tool EMT-S



## DESCRIPTION

The Electromagnetic Thickness Tool - Scanning(EMT-S) is designed to detect the damage of tubulars by calculating the remaining wall thickness and corrosion extent. By measuring the energy decay amplitude of an induced electromagnetic field, it can accurately indicate the column structure and location of other objects in concentric pipe. High resolution and fast sampling enable EMT-S to scan tubular geometry to provide positional location of non-conformities.

## APPLICATIONS

- Measure the remaining wall thickness of concentric casing in one run
- Determination of the type(s) of damage: pits, penetrations, cracks in transverse or longitudinal plane
- Determination of inner casing penetration
- Locating inner and outer collars in concentric casing
- Wellbore temperature logging

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (100MPa)
LENGTH	78.74" (2000mm)
MATERIALS	H <sub>2</sub> S Tolerant
LOGGING SPEED	20 ft/min (350m/hr)
WEIGHT	20lb (9kg)
MEASUREMENT RANGE	2 1/2" -12 3/4" (63-324mm)
MEASUREMENT ACCURACY	0.02" (0.5mm) Single Pipe 0.06" (1.5mm) Double Pipe
MIN. AXIAL DETECTABLE LENGTH	1.5" (40mm) Single Pipe 2" (50mm) Double Pipe
MIN. TRANVERSAL DETECTABLE LENGTH	1/6 of the perimeter
THICKNESS RANGE (MAX.)	.5" (12mm) Single Pipe 1" (25mm) Double Pipe



# ElectroMagnetic Thickness Tool EMT-A



## DESCRIPTION

The Electromagnetic Thickness Tool Average (EMT-A) detects variations in pipe metal thickness by examining the flux changes between transmitter and receiver coils. Three pickup coils allow the tool to have 120° radial coverage view of casing. The phase shift of the received signal is directly affected by metal thickness which can be used in detecting casing damage. Three pickup coils allow the tool to have 120° radial coverage view of casing. When run with the Multifinger Imaging Tool (MFI), a determination can be made as to whether the metal loss detected is from the ID or OD of the casing.

## APPLICATIONS

- Casing Thickness
- Casing Damage
- Borehole Temperature

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	2 7/8" (73mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (100MPa)
LENGTH	34.65" (880mm)
MATERIALS	H <sub>2</sub> S Tolerant
MAX. OD CASING	9-5/8" (244mm)
ACCURACY	±20% Wall Thickness





**TOOL SPECIFICATIONS**

ADDRESSABLE MOTORIZED RELEASE (AMR)		
DIAMETER	1 11/16" (43mm)	2 7/8" (73mm)
RELEASE TIME	2.5 minutes	1 minute
RECONNECT TIME	2.5 minutes	1 minute
FISHING LOAD POST-RELEASE	20,000 lb (9,000kg)	55,000 lb (24,950 kg)
FISHING LOAD PRE-RELEASE	8,000 lb (3,600kg)	15,000 lb (6,800kg)
CONNECTION	1 3/16" UN 12 TPI	1 5/8" 6RND ACME
FISHING NECK	1"	1 3/8"
TENSION CCL TOOL (TCT)		
DIAMETER	2 7/8" (73mm)	
TENSION RANGE	±10,000 lbf	
TENSION ACCURACY	±1%	
TENSION RESOLUTION	25 lbf	
TOP CONNECTION	1 3/16" UN 12 TPI	
BOTTOM CONNECTION	1 5/8" 6RND ACME	
OVERSHOT CONNECTION	2" 6 ACME	
SAFETY PROTECT TOOL (SPT)		
DIAMETER	2 7/8" (73mm)	
MAX PRESSURE	20,000psi (138MPa)	
TOP CONNECTION	1 5/8" 6RND ACME	
BOTTOM CONNECTION	1 5/8" 6RND ACME	
INFLATABLE PUMPDOWN TOOL (IPT)		
DIAMETER	1 11/16" (43mm)	
DIAPHRAGM SIZE	1.8"	2 1/8"
ACTIVATED OD	2 1/8"	2 5/8"
SHOCK SUB (SST)		
DIAMETER	2 7/8" (73mm)	
CONNECTION	1 5/8" 6RND ACME	
SHOCK RATING	100G	
FISHING STRENGTH	15,000lb (6,800kg)	

# MOTORIZED MECHANICAL ANCHOR MAT



## DESCRIPTION

The motorized Mechanical Anchor Tool (MAT) forcefully sets anchors in a well to lock its depth. When set, any tool in the connected string will remain stationary to perform operations downhole. Commonly used for tubular cutting operations, the MAT centralizes and stabilizes for mechanical operations. High preload tension is possible through force distribution on both sides of the easy change jaws.

## APPLICATIONS

- Freepoint Anchor
- Pipecut Anchor

## SPECIFICATIONS

PROTOCOL	GDTf			
DIAMETER	1-11/16" (43mm)			
MAX. TEMPERATURE	350°F (175°C)			
MAX. PRESSURE	15,000psi (103MPa)			
LENGTH	41.9" (1065mm)			
ANCHOR POWER	9000lbs (4000kg)			
FLUID COMPATIBILITY	H <sub>2</sub> S Tolerant			
ANCHOR SIZE	2.00" - 2.36"	2.36" - 2.56"	2.56" - 2.76"	2.76" - 3.07"
OPEN/CLOSE VOLTAGE	60VDC			



# ELECTRONIC TRACER TOOL ETT



## DESCRIPTION

The Electronic Tracer Tool (ETT) is used for fluid velocity and direction analysis. The tool uses an internal chamber to store radioactive fluid downhole for dispersion. When given the command, the tool injects the radioactive material into wellbore. Gamma Ray detectors are then used to determine the speed and direction that material takes when exiting the tool. The tool is able to eject multiple times and at different timings based on user commands.

## APPLICATIONS

- Channel detection
- Leak detection
- Flow profile

## SPECIFICATIONS

PROTOCOL	GDTa
DIAMETER	1-11/16" (43mm)
MAX. TEMPERATURE	350°F (175°C)
MAX. PRESSURE	15,000psi (103MPa)
CHARGE CAPACITY	100ml
INJECTION TIME	1s - 255s



GDT

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