

RIGMATIC DEPTH TRACKING SYSTEM



Our Services :

 403-689-5551
 rigmatic.com
 Calgary, Alberta

Software Design 
Systems Integration 
PLC, HMI, SCADA 
Control Panel Design 

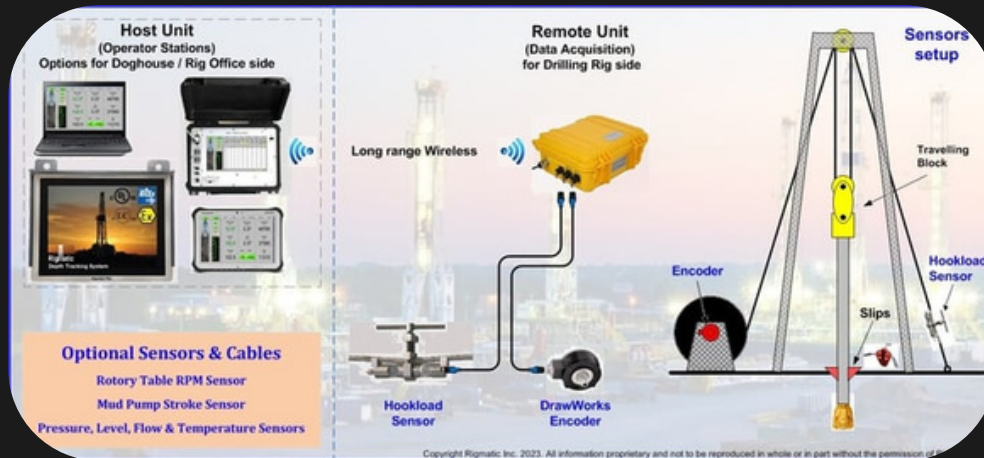
Features:

Block Height	Data Logging
Bit Depth	User Friendly Calibration
Hole Depth	Smart One-Touch Re-Calibration
Rate of Penetration	Real-Time Trends
Hookload Weight	3D ROP Graph Preview
Weight on Bit	Sensor Disconnect Alarm
Trippin IN/OUT Velocity	Rotary Table RPM (Optional)
Slips IN/OUT AUTO/MAN Detection	Mud Pump SPM & Flowrate (Optional)
WITS Output via RS232	Spare Configurable 4-20 mA Inputs (Optional)

Overview

Rigmatic Depth Tracking System (DTS) is a stand-alone solution that offers outstanding real-time and historical information. With features like block travels up and down, slips in and out auto detection, and an animated smart rotating drill bit while drilling.

RIGMATIC



Intuitive Touch-Screen User Interface:



The software is built, developed, and improved with continuous feedback from drilling engineers and operators, thus its usability is highly valued by all users, because **Quality, Accuracy, and Reliability** is our passion!

RIGMATIC

How It Works:

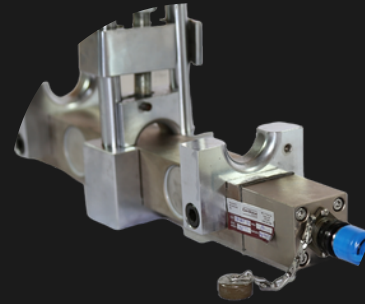
The Rigmatic Depth Tracking System collects sensor signals, manipulates, displays, trends, and logs all critical drilling data on a touchscreen host device or a laptop with WITS outputs. Our system is self-contained and does not require any additional hardware or software to operate. Users can add several PCs, and each PC is wirelessly connected to the Remote unit via a dedicated network.

Host Unit (Office Side)	Remote Unit (Drilling Rig Side)
	
<p>Option 1: The Host unit includes a laptop/tablet that runs a pre-installed GUI for monitoring, trending, logging, calibrating block heights, and WITS output to a third-party PC. This approach can be beneficial for block calibration right on the rig floor, up to 10 feet away from the rotary table.</p> <p>Option 2: The host unit includes a built-in touchscreen PC with full functionality, as well as two onboard RS232 serial ports for sending WITS data to third-party PCs.</p>	<p>The Remote Unit is equipped with a Xilinx FPGA and a 667 MHz dual-core real-time embedded controller that runs pre-installed software that gathers data from sensors via intrinsically safe barriers, analyzes it, and wirelessly delivers it to the Host unit(s).</p> <p>The Remote Unit is developed and engineered to work 24 hours a day, seven days a week, and will not lose calibrations if the Rig loses power.</p> <p>Ruggedized, IP67, -40°C to 70°C, 100-240V, 50/60 Hz</p>

Drawworks Encoder



Hookload Sensor



Optional Sensors & Cables

- Rotary Table RPM Sensor
- Mud Pump Stroke Sensors
- Pressure, Level, Flow & Temperature Sensors

All of our hardware is precisely built to withstand the most harsh environments. All sensor power is fundamentally secure, ensuring optimum safety at every job.

For more information,, please visit us at: rigmatic.com

For any questions, please contact us at: info@rigmatic.com

RIGMATIC