

JET-PILOT

INDUSTRY 4.0 - READY

Jet-Grouting Measurement System



JET-PILOT measurement system is a read-out and sensor device for the drilling and injection parameters used in **Jet-Grouting technology (mono-, bi- and triple-fluid)**.

The system allows to measure and store the following parameters:

DRILLING PHASE	RISING-JETTING PHASE
<ul style="list-style-type: none"> • Drilling depth • Advance speed • Hydraulic pressure rotation torque • Rotation Speed • Water Pressure • Air Pressure • Thrust Infeed Pressure • Water flow and volume • Air flow and volume • Mast inclination 	<ul style="list-style-type: none"> • Drilling depth • Rising speed • Hydraulic pressure rotation torque • Rotation Speed • Mix Pressure • Mix flow and volume • Water Pressure • Air Pressure • Water flow and volume • Air flow and volume • Stop time • Consumption

Using the step-by-step motion, the **JET PILOT** can control the automatic rising during the upwelling and jetting phase. In this automatic rising phase, the system can manage up to 4 different layer that can be programmed with different stop time and step size automatically. **JET PILOT** is also able to perform complex drilling operation that need more than one single jetting phase. It can manage up to 4 pre-cutting and rising phases before the jetting.



JET PILOT can also manage all the usual operation needed during the job, like hole flushing or changing of the rod.

Data can be simply downloaded to PC using a standard USB stick. You can show graphics of the data and print it using a simple software called **VISUAL-SGD** installed into a standard PC. With this software we can also decide what we want to insert in the print report and what we don't want to show depending on the customer needs.

VISUAL-SGD is also usable to check data acquired in order to perform a quality check of the job for each drilling performed.

JET-PILOT is already equipped with the capability to be connected to a 3G, or wireless or ethernet network so that it could be remotely monitored giving the chance to load programmed drills into the system, download data collected or run maintenance tests and procedure. The system is even able to be connected to a local control room that control and receive in real time all the data collected by the logger and can monitor more than one system at the same time.

The **GPS option** let you perform an automatic positioning of the machine on the drilling point.

The **Orbital Jet option** let you control the speed of rotation of the rod during the jetting phase so that you can obtain directional jetting.



Technical characteristics

- ✓ 10" touchscreen display
- ✓ USB slot used to download data stored
- ✓ Mechanical protection: IP65 (DIN40050)
- ✓ Power: 24 V DC (18-36V), 8 W
- ✓ Working temperature range: -25°C +70°C
- ✓ Connector oriented design