



# PocketLIM / MiniLIM 5G - CFA

## MONITORING AND DATA ACQUISITION

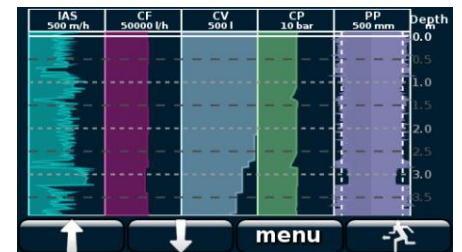
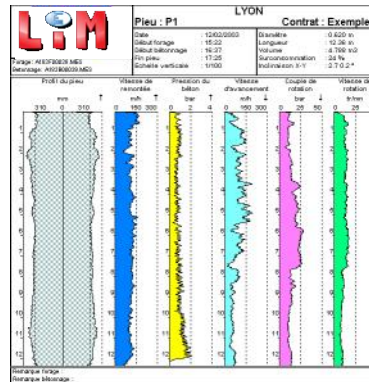
### C.F.A PILING PROCESS



Site		Drilling	
ESSAI		PIEU15	
Operator	Start Depth	Start date	
CAGNE	0.00 m	Wed, 27 Jun 2012 17:50:00	
	Stop Depth	Stop Date	
	4.68 m	Wed, 27 Jun 2012 17:52:03	
Drill rig	Tilt	Filename	
OPTIMA	(0.1°, -1.4°)	55029120627155000A	



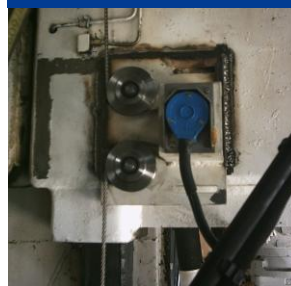
**VIACAN AND TARACAN  
UNITS ON THE RIG**



**ROTATION SPEED  
MEASUREMENT**



**DEPTH/SPEED  
MEASUREMENT  
SENSOR**



**MAST INCLINACION  
MEASUREMENT BOX**



**CONCRETE  
PRESSURE  
SENSOR**





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### C.F.A PILING PROCESS

The **PocketLIM & MiniLIM 5G** are 5th generation LIM data recorders.

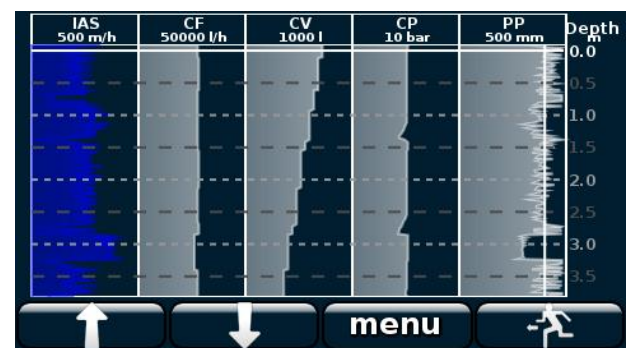
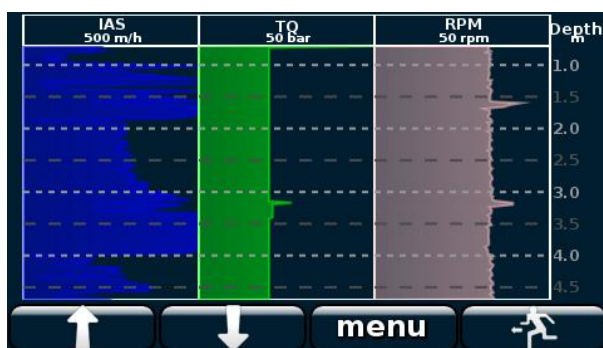
The **CFA application** of the **PocketLIM & MiniLIM 5G** perform the control of the C.F.A piling method with data acquisition.

• The functionalities are as follows:

- Prior to drilling, accurate positioning of the piling rig's mast, thanks to the displaying function of the X,Y angles;
- Penetration of the auger: recording while drilling and vs depth of the Drilling Speed (IAS), Torque Pressure (TQ) and Rotation Speed (RPM) parameters;
- Extraction of the auger: recording while concreting and vs depth of the Lifting Speed (IAS-L), Torque Pressure (TQ), and Concrete Pressure (CP) parameters;
- While in the concreting stage, the instantaneous consumption and the concrete volume are extrapolated either from the concrete pressure or counting of pump strokes;
- Display of concrete consumption allows the operator to optimize the extraction rate of the auger in respect with theoretical pile profile;
- Graphic representation of the instantaneous concrete volume enables the output of the Image of a Pile Section.

• The main key benefits are:

- Proven CANBUS technology, one cable connects the sensors to the data logger;
- Storage capacity from 1 to 2 Gb equivalent to several millions stored meters;
- Colour touch screen (4.3", 5", 7") user interface;
- Integrated GPRS 3G/4G and Wifi (PocketLIM only) enabling the automatic data file transmission over the internet;
- Easy embedded software update either via internet (3G/4G or Wifi) or an USB flash device;
- Automatic synchronization of data files to transmit via Internet or to copy onto an USB;
- Compact and lightweight.



<https://lim.eu/en/>