

# WATER LEVELS PACKERS



## WATER LEVELS

APAGEO proposes water level with acoustic signal and led, flat or round cable.

Length	30 m	50 m	100 m	150 m	200 m
<b>Round cable</b>	M4 04003001	M4 04005001	M4 04010001	M4 04015001	M4 04020001
<b>Flat cable</b>	M4 04003002	M4 04005002	M4 04010002	M4 04015002	M4 04020002



## BOREHOLES AND WELLS CAMERA

APAGEO proposes boreholes and wells camera with a maximum length of 500 meters. The complete system consist of: reel and camera head, display unit with integrated LCD, USB2 grabber board and microphone, battery charger. Pictures, movies and comments can be saved to any external laptop. The equipment is easy to use, reliable, a compact and light weight instrument for field operations.

## PACKERS

Low pressure packer, single or double, for injection with piston pump <sup>1</sup> or permeability test (Lugeon test <sup>2</sup>). Diameters 42 to 72 mm. Max. inflation pressure = 40 bar. Diameter 85 to 170 mm also available, please contact us.

<sup>1</sup> see p.25 <sup>2</sup> see p.41

Ø (mm)	Ø Max (mm)	NPT	Single packer sleeve length		Double packer sleeve length	
			0,5 m	1,0 m	0,5 m	1,0 m
42	80	1/2"	B1 9105314	B1 9105315	B1 9105318	B1 9105319
54	130	1"	B1 9105308	B1 9105309	B1 9105300	B1 9105301
72	160	1 1/4"	B1 9105310	B1 9105311	B1 9105304	B1 9105305

## HIGH PRESSURE SINGLE PACKER

Diameters 30 and 42 mm. Max. inflation pressure = 100 bar

Ø (mm)	Ø Max (mm)	NPT	Sleeve length	
			0,3 m	0,4 m
30	55	3/8 G	B2 0000200	-
42	85	3/4 G	-	B2 0000001

## ACCESSORIES FOR PACKER

Reference

### Hand pump for water inflation

- Capacity 60 bar
- With manometer + tank

B1 9400001



### Pilot valve nitrogen inflation

- To be used with the Pressuremeter regulator [see p.67](#)

A1 1902215



# CHAIN WRENCHES



## RIDGID CHAIN WRENCHES

Type	Reference	Length (mm)	Pipe capacity (mm)	Weight (kg)	Chain	Jaw
12"	M1 0101202	300	100	0,8	M1 0101201	M1 0201202
14"	M1 0101402	320	125	1,2	M1 0101401	M1 0201402
18"	M1 0101802	435	125	2,7	M1 0101801	M1 0201802
24"	M1 0102401	580	125	3,7	M1 0101801	M1 0202402
36"	M1 0103602	700	185	7,1	M1 0103601	M1 0203602

## RIDGID CHAIN WRENCHES - DOUBLE JAW

Type	Reference	Chain length (mm)	Pipe capacity (mm)	Weight (kg)
3229	M1 0003229	445	14 / 89	5,0
3231	M1 0003231	570	27 / 114	8,0
3233	M1 0003233	815	34 / 168	11,0
3235	M1 0003235	1030	48 / 219	15,0
3237	M1 0003237	1410	60 / 324	25,0

## VIRAX CHAIN WRENCHES

Type	Reference	Chain length (mm)	Pipe capacity (mm)	Weight (kg)	Spare parts Chain
1" - 10610	M1 0100102	275	10 / 34	1,2	M1 0100101
3" - 10611	M1 0100302	470	10 / 90	4,1	M1 0100301
6" - 10613	M1 0100602	690	13 / 165	7,6	M1 0100601

# STRAIGHT PIPE WRENCHES



## STRAIGHT PIPE WRENCHES

Type	Length (mm)	Pipe capacity (mm)	Ridgid iron handle		Ridgid aluminium handle	
			Ref	Weight (kg)	Ref	Weight (kg)
6"	150	27	M1 0100603	0,2		
8"	200	34	M1 0100801	0,3		
10"	250	48	M1 0101001	0,8	M1 0101002	0,4
12"	330	60	M1 0101203	1,2	M1 0101204	0,7
14"	350	60	M1 0101403	1,6	M1 0101404	1,1
18"	450	76	M1 0101803	2,6	M1 0101804	1,7
24"	600	89	M1 0102402	4,4	M1 0102403	2,7
36"	900	141	M1 0103603	8,7	M1 0103604	5,0
48"	1200	168	M1 0104801	15,6	M1 0104802	8,4
60"	1500	219	M1 0106001	23,3		

## STRAIGHT PIPE WRENCHES - SPARE PARTS

	Hook jaw	Handle	Nut	Spring
6"	M1 0200603	M1 0200601	M1 0300601	M1 0300602
8"	M1 0200802	M1 0200801	M1 0300801	M1 0300802
10"	M1 0201002	M1 0201001	M1 0301001	M1 0301002
12"	M1 0201203	M1 0201201	M1 0301201	M1 0301202
14"	M1 0201403	M1 0201401	M1 0301401	M1 0301402
18"	M1 0201803	M1 0201801	M1 0301801	M1 0301802
24"	M1 0202403	M1 0202401	M1 0302401	M1 0302402
36"	M1 0203603	M1 0203601	M1 0303601	M1 0303602
48"	M1 0204802	M1 0204801	M1 0304801	M1 0304802
60"	M1 0206002	M1 0206001	M1 0306001	M1 0306002

# DRILLING MUD, POLYMERS, GREASE AND ACCESSORIES

## BENTONITE - DRILLING MUDS

Description	Standard conditioning*	Reference
Natural bentonite	Bag of 25 kg (powder)	M2 0901530
Bentonite high end E32	Bag of 25 kg (powder)	M2 0901529
Bentonite cement/mortar	Bag of 25 kg (powder)	M2 0901617
Bentonite Pellet 8 mm	Bag of 20 kg (pellet)	M2 0901605
Expangel bentonite	Bucket of 25 kg (tablets)	M2 0901607
Mud mixer	-	CO 0911301



\*Other conditioning possible : "Big Bag" 1T, bulk, etc... : please consult us.

## POLYMERS - VISCOSANTS - FOAM

Description	Standard conditioning*	Reference
Polymer Poly (L)	Barrel of 25 L (liquid)	M2 0901627
Polymer Poly (P)	Bag of 25 kg (powder)	M2 0901619
Polymer P 1kg	Packet of 1 kg (powder)	M2 0901501
Polymer Poly (B)	Barrel of 25 L (liquid)	M2 0901628
Polymer Poly NAT (bio)	Bag of 25 kg (powder)	M2 0901629
Polymer Poly CMC	Barrel of 25 kg (liquid or powder)	M2 0901504
Polymer Poly Stop	Barrel of 25 kg (liquid or powder)	M2 0901631
Foam DP	Barrel 20 L (liquid)	M2 0901510
Lubricant DP	Barrel of 25 kg	M2 0901520
DTH Hammer Oil	Barrel of 20 or 25 L	H3 09000800



Mixer mud

## GREASE

Descripton	Conditionning	Reference
Copper grease	Pot of 5 kg	M2 0901611
Graphite grease	Pot of 1 kg	M2 0901612
Graphite grease	Pot of 5 kg	M2 0901613
Bio grease	Pot of 5 kg	M2 0901620

## VARIOUS PRODUCTS

Description	Reference
Box for coring sampler	M8 0100003
Piezometer bonnet Ø 76 Lg 750 mm	M4 04050010
Hydrant	MK 04050010
Locker for piezometer	A4 9901921
Stabilization plate (400 x 400 x 30 mm) for rigs	U0 7700107
Foot clamp small model (until 63 mm)	M3 0100001
Foot clamp big model (until 90 mm)	M3 0100000



# RENTING

APAGEO RENTS FOR ALL DURATIONS,  
ON THE FRENCH TERRITORY

CONSULT US !



// ACCESSORIES AND LABORATORY EQUIPMENT

## HEAVY DYNAMIC PENETROMETERS

- APAFOR® 50
- APAFOR® 100
- Data acquisition
- APADYN® on GeoBOX®

## DRILLING RIGS

- APAFOR® 120
- APAFOR® 220 DMT
- APAFOR® 230
- APAFOR® 350
- APAFOR® 430
- APAFOR® 570
- ROTOSTAF®



## PUMPS AND MIXERS

## DRILLING DATA LOGGER

- EXPLOFOR® 4
- on GeoBOX®



## WORKSHOP PRESSUREMETER

- GeoPAC®, HyperPAC® and GeoBOX®
- Pressuremeter Ménard
- Pressuremeter Ménard THP
- 140 bars with geoBOX®
- GeoSPAD®2 on GeoBOX®
- Mini-Pressuremeter

## WORKSHOP PHICOMETER COMPLETE



## LUGEOTEST® FOR PERMEABILITY TEST

with GeoBOX® or manual

## LIGHT DYNAMIC PENETROMETER



## STATIC PENETROMETER 100 KN

with CPTu equipment

# LABORATORY

APAGEO offers a complete range of equipment for soil and civil engineering laboratories (construction, roads, etc.), as well as non-destructive testing equipment for materials and piles, and vibration measurements. Do not hesitate to contact us.

## GRANULAR

- Shaker for test tubes
- Laboratory grinder
- Absorption cone
- Sample dividers
- Sand equivalent
- Slotted grids
- Los Angeles machine
- Accelerated polishing machine
- Deval Machine
- Micro Deval Machine
- Hydrostatic weighing
- Concentrated solution
- Sieves
- Sieving machines
- Impact test
- Blue value



## SOILS

- Proctor
- Automatic compactor
- Clegg compactor
- Simple compression
- Sand densitometer
- Membrane densitometer
- Sampler
- CBR test
- Proctor test
- Triaxial test
- Atterberg
- Shearing machine
- Shear mixer
- Hand augers
- Oedometer
- Cone penetrometer
- Hand penetrometer
- Permeameter
- CBR press
- Shear vane testers
- Sedimentometry



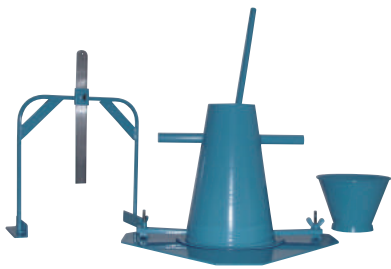
## CEMENTS AND MORTARS

- Mortar aerometer
- Schock equipment
- Vicat apparatus
- Autoclave
- Thermostatic baths
- Mud balance
- Mortar box
- Calorimeter
- Elutriometer
- Chatelier equipment
- Filter press
- Mixer
- Prismatic moulds
- Blaine permeability
- Compression-flexion press
- Automatic Prismometer
- Marsh Viscosimeter



## CONCRET APPARATUS

- Concret aerometer
- Vibrating needles
- Adhesion tester
- Joisel equipment
- VÉBé equipment
- Surfacing equipment
- Thermostatic tank for storage of specimens
- Electric or thermal core drills
- Abrams cone
- Flow cone
- Concrete cores
- Ultrasonic detector
- Bending machine
- Mixers
- Maniabilimeter
- Steel and plastic moulds
- Pachometer
- Permeameter
- Plasticimeter
- Compression press
- Laboratory saw
- Sclerometer
- Slump test table
- Vibration table



## BITUMOUS

- Ball and ring equipment
- Automatic extraction equipment
- Kumagawa equipment
- Sand height equipment
- Electric or thermal core drills
- Centrifuges
- Bitumen distillation
- Ductilometer
- Plate loading test
- Duriez test
- Hubbard-Field test
- Marshall test
- Four asphalte (RTFO)
- Mixer
- Needle penetrometer
- Benkelman beam
- Universal penetrometer compression-traction
- M.O.T.
- Water content
- Engler viscosimeter
- Redwood/BRTA viscosimeter



## GENERAL EQUIPMENT

- Shakers
- Meteorological equipment
- Vats and containers
- Thermostatic baths
- Electronic balances
- Mechanical balances
- Mechanical or digital comparators
- Distillers
- Microwaves
- Weights set
- Mixers
- Metrology
- Pesons
- Ph-meter
- Humidity testers
- Thermo-hygrometers
- Thermometers
- Glass, plastic and porcelain laboratory