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Dead weight testers

Bench comparators

Accessories for pressure



Contact Marketing & Sales : Mrs Delphine REGAL Mail : d.regal@aremeca.fr

Our Website : www.aremeca-instrumentation.com Our company AREMECA, whose headquarters is based in Vendôme (France), distributes these products all other the world through with his partners.

We are engaged in manufacturing, controls and testing of our entire pressure range and we put a point in the constant improvement of our products.

Thanks to your loyalty, we have developed new pressure measurement calibration solutions and added new products to the catalog, such as the dead weight tester model BH5-10000B and the pressure bench model CH3-10000B

Anxious to meet your needs: we are currently studying a new range of portable benches and we have started the process of COFRAC accreditation for our laboratory.

Thanks for trusting us !

Ours ranges of Dead Weight testers

These primary standards are intended to control and calibrate measuring instruments such as pressure gauges or sensors, by comparison with the reference set of weights. Our range is very extensive: from vacuum up to 10000 bar (145000 PSI)

DWT High performance Type BH2 or BA2 Accuracy up to 0.01% rd

Used for regular or intensive calibration.



(modèle présenté BH2-150B,

High performance DWT : Robust design, very mobile, easy to use Scalable scale by adding options! Single or double piston versions Stainless steel masses Several units available Adjustment to gravity requested

✓ Hydraulic version (Oil) - Type : BH2 BH2-30B (EM : 0.1 ->30 bar) BH2-60B (EM : 0.2 ->60 bar) BH2-600B (EM : 0.5 ->150 bar) BH2-150B (EM : 0.5 ->150 bar) BH2-300B sp* (EM : 1 ->300 bar) BH2-300B dp* (EM : 1 ->300 bar) BH2-400B sp* (EM : 1 ->400 bar) BH2-400B dp* (EM : 1 ->400 bar) BH2-600B sp* (EM : 2 ->600 bar) BH2-600B dp* (EM : 1 ->600 bar) BH2-700B sp* (EM : 2 ->700 bar) BH2-700B dp* (EM : 1 ->700 bar) BH2-1200B sp* (EM : 2 ->1200 bar) BH2-1200B dp* (EM : 1 ->1200 BH2-1200B SP (EM : 2 ->1200 Bar) BH2-2000B (EM : 40 ->2000 bar) BH2-2500B (EM : 40 ->2500 bar) BH2-3000B (EM : 40 ->3000 bar) BH2-4000B (EM : 40 ->4000 bar) BH2-5000B (EM : 40 ->5000 bar) BH2-6000B (EM : 200 ->6000 bar)

BH2-7000B (EM : 200 ->7000 bar) (SP* = simple piston – DP* = dual piston)

✓ Pneumatic version (Air) – Type : BA2 BA2-1B (EM 15 ->1000 mbar) BA2-1VB (EM -15 ->-900 mbar) BA2-10B (EM 0.15 ->10 bar) BA2-60B (EM 0.5 ->60 bar) BA2-120B (EM 1 ->120 bar) BA2-200B (EM 2.5 ->200 bar)



Option OP0004 More confort for the operateur



Option OP0301 Motorization + Visualization + Sensors + Calculator Traceability o f calibration data Automatic pressure calculation

DWT Automatic Type BH4 or BA4 Accuracy up to 0.005% rd

This product is the indispensable tool for high precision calibration



Automatic DWT integrating a calculator : Dynamic visualization of the piston position Automatic display of the pressure generated by the scale Different units of measure with the same set of weights Operator assistance during calibration Recording of results + transfer to computer Stainless steel masses, tungsten/steel piston Delivered with the transport case OP0002

✓ H ydraulic version (Oil) - Type : BH4 BH4-30B (EM : 0.1 ->30 bar) BH4-60B (EM : 0.2 ->60 bar) BH4-102B (EM : 0.5 ->120 bar) BH4-300B sp* (EM : 1 ->300 bar BH4-600B sp* (EM : 2 ->600 bar BH4-600B sp* (EM : 2 ->600 bar) BH4-1200B sp* (EM : 2 ->1200 bar) BH4-2000B (EM : 40 ->2000 bar) BH4-2500B (EM : 40 ->2500 bar) BH4-3000B (EM : 40 ->3000 bar) BH4-4000B (EM : 40 ->4000 bar) BH4-5000B (EM : 40 ->5000 bar) (SP* = simple piston)

✓ Pneumatic version (Air) – Type : BA4 BA4-60B (EM : 0.5 ->60 bar) BA4-120B (EM : 1 ->120 bar) BA4-200B (EM : 2.5 ->200 bar)

DWT *High pressure* Type BH5 Accuracy up 0.05% rd

DWT 10000 bar unique in the world !



(modèle présenté BH5-10000B)

Very high pressure DWT : Unique in the world Primary standard Developed by AREMECA 10000 bar with 50kg of masses Portable compact size

✓ H ydraulic version (Oil)) - Type : BH5 BH5-10000B (EM 200 ->10000 bar)

If you want more information on one of our devices: ask for its technical data sheet! Or visit our website www.aremeca-instrumentation.com

> The + AREMECA

- Commercial and technical monitoring available and responsive,
- A wide range of devices and high-quality accessories,
- Possibility of a complete service offer: Installation, Commissioning etc
- Simple price included: your device, his set of weight and piston / cylinder
- But also, benefits without extra ! :
- Your Dead weight designed according to standard gravitation (g = 9.80665 m / s) gravitation (specify when ordering).
- The ability to choose the unit of your standard set of weights (Bar, PSI, Kg / cm²) range BH2 and BA2.





Differential DWT Types BDH3 or BDA3

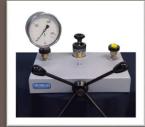
✓ Hydraulic version (Oil) - Type : BDH3
 ✓ Pneumatic version (Air) - Type : BDA3

Our ranges of comparison test pumps

The comparison benches are intended for calibration by comparison with a standard manometer. Simple and quick to implement, their design is ergonomic and robust.

Comparison test pumps

Eco and Standards Types: CEH/CEO/CH1/CA1





New range under study ! Suitable for small budgets For occasional calibrations Simple and Robust

✓ Hydraulic Version (Oil) - Type : CEH or CH1
 CEH-800B (EM 0 ->800 bar)
 CEH-1250B (EM 0 ->1250 bar)
 CH1-125B (EM 0 ->125 bar)
 CH1-1250B (EM 0 ->1250 bar)

✓ Hydraulic Version (Water) - Type : CEO CEO-700B (EM 0 ->700 bar)

✓ Pneumatic Version (Air) - Type : CA1 CA1-200B (EM 0 ->200 bar)

Comparison test pumps *High Performance*

Types : CH2 / CO /CA2



an evolve into pressure balan Reliable and Robust For regular calibrations Many options

✓ Hydraulic Version (Oil) - Type : CH2 CH2-125B (EM 0 ->125 bar) CH2-1250B (EM 0 ->1250 bar) CH2-2000B (EM 0 ->2000 bar) CH2-4000B (EM 0 ->4000 bar CH2-7000B (EM 0 ->7000 bar)

✓ Hydraulic Version (Water) - Type : CO CO-800B (EM 0 ->800 bar) CO-1000B (EM 0 ->1000 bar)

✓ Pneumatic Version (Air) - Type : CA2 CA2-200B (EM 0 ->200 bar)

Upgrade your comparison bench to a DWT :



Buy the PCU + set of weights Your CH2 -> DWT type BH2 Or your CA2 -> DWT type BA2 Consult us !

Comparison test pumps *High Pressure*



Comparison bench unique in the world

This pressure standard is the only calibration device on the market that is capable of generating 10000 bar of pressure.

✓ Hydraulic Version (Oil) - Type : CH3 CH3-10000B (EM 0 ->10000 bar)

Complete your comparison bench with: our fitting cases, our standard pressure gauges, our calibration ramps, our transport cases, etc.



Comparison test pumps *Portable*

Types : CAA

Autonomous and light Integrated in a transport cas

✓ Pneumatic Version (Air) - Type : CAA CAA-20B (EM -0.9 ->20 bar)

ADAPTORS

Standards (<1200 bar), High pressure (from 1200 bar to 10000 bar) or tailor-made They will allow you to connect your instrument to the standard.

> ADAPTATORS STANDARDS (P < 1200 bar)







ADAPTORS HIGH PRESSURE (P>1200 bar)



➢ ADPATORS TAILOR-MADE



✓ ref **OP0174** : suitcase with 5 metrics adaptors Contains : M10 x 100 ; M12 x 150 ; M16 x 150 ; M18 x 150 ; M20 x 150 ✓ ref **OP0171** : suitcase with 4 Gas cylindrical adaptors Contains : G1/8 ; G1/4 ; G3/8 ; G1/2

Conical adaptors up to 1200 bar

✓ ref **OP0172**: suitcase with 4 adaptors NPT
 Contains : 1/8 NPT ; 1/4 NPT ; 3/8 NPT ; 1/2 NPT
 ✓ ref **OP0173** : suitcase with 4 adaptors BSP-TR
 Contains : 1/8 BSP-TR ; 1/4 BSP-TR ; 3/8 BSP-TR ; 1/2 BSP-TR

✓ ref **OP0037** : suitcase with 17 standards adaptors (*1200 bar max*) :
 Cylindrical adaptors : M10 x 100 ; M12 x 150 ; M16 x 150 ;
 M18 x 150 ; M20 x 150 ; G1/8 ; G1/4 ; G3/8 ; G1/2
 Conical adaptors : 1/8 NPT ; 1/4 NPT ; 3/8 NPT ; 1/2 NPT ; 1/8 BSP-TR ;
 1/4 BSP-TR ; 3/8 BSP-TR ; 1/2 BSP-TR

✓ ref **OP0057** : Suitcase with tools

- 1 set of adaptors : 1/2 and 1/4 gas ; 1/2 and 1/4 NPT
- + 90° elbow union
- +1 flat spanner
- +1 assembly for assembly / disassembly of needles
- +1 hammer

High pressure adaptors HP and HP+

✓ ref **OP0220** : suitcase with 5 adaptors HP in M16x150

(For range CH2 or BH2 : 2000B<P<10000 bar) Pmax= 7000 bar except G1/2 = 2500 bar with M16x150HP M - G1/2F ; M16x150HP M/M ; M16x150HP M -M20x150HP M ; M16x150HP M - 9/16" 18UNF M ; M16x150HP M - 9/16" 18UNF F ; plug M16x150HP

✓ ref 0P0250 : suitcase with 5 adaptors HP+ in M20x150

(For range CH3 or BH5 = 10000 bar) Pmax = 10000 bar for *, other 7000 Bar except G1/2 =2500 Bar

With adaptors : M20x150HP+ M - G1/2F ; M20x150HP+ M/M* ; M20x150HP+ M - M16x150HP M ; M20x150HP+ M - 9/16" 18UNF M ; M20x150HP+ M - 9/16" 18UNF F ; plug M20x150HP+*

✓ Adaptor tailor-made or unit price All standards adaptors are available individually – Ability adaptors specifics request, please contact us.

PRESSURE GAUGES : bourdon tube - digitals Used as a reference with our comparison test pumps

Référence Produit (Models)	DIGITAL	Référence Produit (Models)	WITH BOURDON TUBE
Addite	ADT681 : accuracy 0,05% of I'EM - température -10 to 50°C - Ø110mm x 85mm ADT681b : accuracy 0,025% of I'EM - température -10 to 50°C - Ø110mm	Bourdon Baumer Group	MEX5 : accuracy 1% - température -20 to 70°C - Ø100mm x 50mm
	x 85mm ADT673 : accuracy 0,05% of I'EM (0,1% of I'EM for models >1000B) -	Securdon Baumer Group	MIX7 : accuracy 1% - température -20 to 70°C - Ø150mm x 54mm
Addite	température -10 to 50°C - Ø120mm x 46mm	STRUMENTALE	
	XP2i : accuracy 0,1% of l'EM - température -10 to 50°C - Ø114mm x 36mm - Connexion G1/2		MN17 : accuracy 0,1% - Ø250mm x 63mm- Connexion G1/2
Passion for Sensors	BARFLEX : accuracy 0,1% of I'EM - température -20 to 85°C - 98mm x64mm x35mm - Connexion G1/2	STRUMENTAZION INDUSTRIALE SR	MN17 : accuracy 0,25% - Ø250mm x 63mm - Connexion G1/2
CalRef	CRP101 : accuracy 0,05% of I'EM - température -10 to 70°C - Ø129mm		171A : accuracy 0,25% - Ø150mm - Connexion G1/2
STRUMENTAZIONE INDUSTRIALE SRL	LABDMM : accuracy 0,05% of I'EM - température -10 to 60°C - 85x85mm x 44mm	STRUMENTAZION INDUSTRIALE SR	
STRUMENTAZIONE INDUSTRIALE SRL	IDRO : accuracy 0,2% of I'EM - température -10 to 70°C - Ø80mm	pressure gau	nparison bench with our reference Iges. This list is likely hesitate to contact u s!



OP0194 : fine adjustment valve for comparison bench. It allows you to refine your measurements !



✓ Control blocs for pressure gauges
 OP0195 for 2 pressure gauge
 OP0302 for 3 pressure gauge
 OP0303 for 4 pressure gauge



✓ Ramps for pressure gauges

OP0304 Ramp for 2 pressure gauge **OP0305** Ramp for 3 pressure gauge

Positioned on the G1/2 adaptors of your comparison bench or your DWT

ACCESSORIES for Pressure gauges Essential tools for doing adjustment operations on pressure gauges with bourdon tube







✓ ADJUSTMENT TOOLS FOR PRESSURE GAUGE

OP0228 Suitcase with 3 needles up and pear

Used to remove the needles of manometers during repairs or adjustments, as well as to fix the needles on the axis of the devices. This case is composed of three needle removers with different diameters (\emptyset 0.8 + \emptyset 1.0 + \emptyset 1.2) You simply have to insert it below the needle of the manometer to be able to remove it. The equipment also includes a pressure gauge needle driver, consisting of a stainless steel cylinder (180x10 mm. \emptyset) attached to a silicone tube and a rubber bulb. A steel ball is located inside the cylinder and hits the needle when the rubber bulb is pressed. Everything is supplied in a carrying case.

✓ Accessories individually:

OP0222 Pear for pressure gauge
OP0223 Ø0.8 or pressure gauge Ø40 to 63
OP0224 Ø1.0 for pressure gauge Ø100 to 160
OP0225 Ø1.2 for pressure gauge duplex

✓ Economical version :

OP0125 Kit eco for pressure gauge

Eco suitcase with one Needle up (you can choose **OP0223** Ø0.8 or **OP0224** Ø1.0) + hammer to engage the needle of the pressure gauge



✓ GAUGE HOUSING REMOVAL PLIERS

Different models depending on the size of your pressure gauge **OP0226** for pressure gauge Ø100 **OP0227** for pressure gauge Ø150 **OP0255** for pressure gauge Ø63



✓ STABILIZATION FOOT for PRESSURE GAUGES

This accessory connects very quickly to a hand pump. Its wide foot provides stability and comfort of use. You keep your hands free and secure your manometer. Small in size, it is easy to transport.

There are two models : **OP0180** without hose provided for Pressure up to 1200 Bar **OP0182** with 1/8 conical gas outlet hose for pressures up to 600 bar.

CLEANING ACCESSORIES

They facilitate purge operations during preventive maintenance, allow you to clean or isolate pressure gauges before connection to your standard. This will protect your standard against contamination or corrosive fluids.



✓ **0P0062** Cleaning bench for pressure gauge

✓ Description

This bench as been designed to prepare the instruments to be calibrated (cleaning, filling) before connection. The use of this bench will reduce significantly the risk of contamination of comparison test pumps and dead weigh testers.

This preparation bench is not suitable for any vacuum instruments.



✓ **OP0025** drain kit for oil tank

✓ Description

The drain kit is useful to draw deposits and contaminated oils in your tank. This hand pump can quickly and easily clean your device



✓ **OP0023** Separator liquid/liquid

✓ Description

- The separator have several advantages :
- avoids cleaning the pressure gauge which must be checked isolating it from the calibrator avoids the contamination of your calibrator
- prevents the fluids contained in the manometer and the calibration bench from mixing ;
- a pressure gauge with water or corrosive fluid can be calibrated with oil calibrator without damaging it

Technical data :

- use up to 800 bar
- volume 120ml
- the membranes resist most corrosive fluids
- OP236-319 material Butyl
- OP236-320 material Viton

POMPES de gavage Elles peuvent être raccordées à nos bancs pour obtenir un volume d'huile de gavage plus important.



✓ **0P0158** Reservoir pump (volume 327 cm³) until 700 bar

✓ Description

The reservoir pump OP0158 is an essential accessory to increase the volume of oil useful for calibration of your device. Design ultra light weight and compact, with a reservoir filled nylon fiberglass and aluminum, this reservoir pump offers maximum resistance to corrosion and can contain a large oil capacity : 327 cm³. Maximum pressure 700 bar. It should be use with the comparison test pump.

Practical and ergonomic, it requires a little effort of pumping under the lever providing less fatigue for the user.

Other models available on request - Consult us !

Hand PUMP

Easy to transport, our range extends up to 700 bar.



✓ Hand pumps pneumatics and hydraulics

PM-60B -> -0.95 à 60 bar

✓ Description

The hand pump PM is a simple tool that allows fast and robust verification of your pressure gauge etc..

Other models available on request - Consult us !

Ergonomic and very pratical to protect your device





✓ Cover for dead weight testers or comparison test pump OP0192 (without motorization) or OP0193 (with motorization)

✓ Description

COVERS

Ideal to realize test points in a stable environment and protect your device. This cover also allows to assure the safety of your operator.

TRANSPORT ACCESSORIES

Our carring suitcases have been designed to ship our products in complete safety : comparison test pumps, dead weight testers, sets of weights, etc.

> CASE FOR THE TRANSPORT OF WEIGHTS



> CASE FOR CALIBRATION BENCH

OP0101: Metal Box for set of weights - Model ECO

✓ Description

This box metal allows shipping easily your set of weights. Dimensions reduce, sober design, this arrangement is completely adapted to tidy up and protect your weights

-> 7 weights / metal box

OPxxxx (variable reference depending on device) Suitcase for shipping set of weights and ergonomic workstation

✓ Description

These suitcases of modern and strong finishes were designed to optimize your user-friendliness.

Indeed, they serve on one hand to transport in complete safety your weighty, which is orderly vertically, isolating every weight so avoiding any friction or stripe during the shipping.

But the real key point is at the level of the bottom of the suitcase, because he allows the user to place set of weight at adequate height and to fit out very quickly his workstation. This ergonomics : facilitate the access and the grip of the masses, limits their handling, allows a visual control of the masses



OP0029: Suitcase for the transport of comparison test pump type CEH ou CEO

✓ **Description** Ideal to transport your device in complete safety

OP0002: Suitcase for transport dead weight tester or comparison test pump (except models BH5 and CH3)

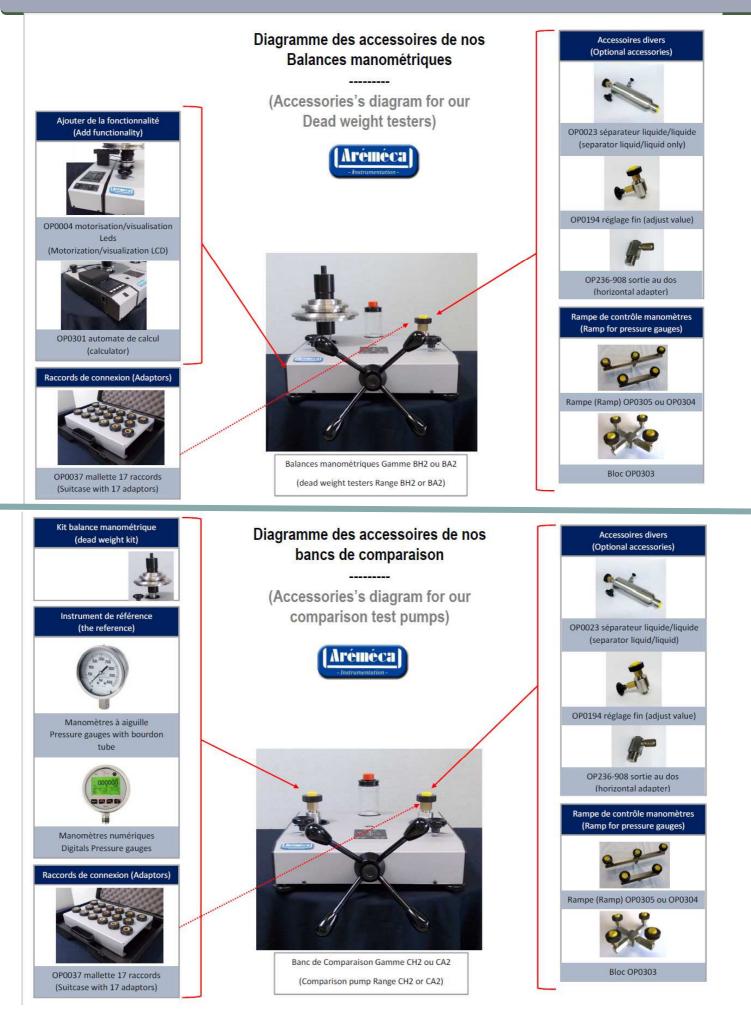
✓ Description

Ideal to transport your dead weight or comparison test pump in complete safety.





DIAGRAM OF YOUR APPLIANCE ACCESSORIES



OUR SERVICES

SERVICE AFTER SALES all marks



Our technical department has a know-how of more than 30 years. We put our expertise at your service to support your device in a reactive time.

Send your equipment to : AREMECA - Zi Sud Rue Marc Seguin - 41100 VENDOME Accompanied by your contact information and a description of the problem.



Our technicians are at your disposal to carry out the preventive maintenance of your device, but also to intervene on the repair or on the resolution of technical problems that you may encounter.

Upon receipt of your device, a complete expertise and tests will be carried out in order to establish a detailed estimate. Upon receipt of your agreement, the repair will be scheduled. In case of impossibility of repair, or too high costs, we will recommend a replacement device.

- Preventive maintenance includes : complete cleaning, replacement of seals, pressure tests.
- Repair includes : cleaning, replacement of broken parts, replacement of seals, pressure tests

We ensure the traceability of our interventions throughout the life of the device.

For AREMECA products, data relating to assembly, manufacturing and after-sales service are kept under its serial number. For other brands, we keep the data under their identification number.

Our sales department is at your disposal to plan an intervention.

CALIBRATION : Transmitter, Pressure gauge, Dead weight testers

Our reference Oil DWT

* Etalon / standard : **H0001** -> BH2-1200B Uncertainly of the pressure measured (in bar) : $\pm 5.2x10-3 + (9.5x10-5xP)$ with P in bar * Etalon / standard : **H0002** -> BH3-60B Uncertainly of the pressure measured (in bar) : $\pm 5.5x10-4 + (7.3x10-5xP)$ with P in bar * Etalon / standard : **1235** -> BH3-5000B Uncertainly of the pressure measured (in bar) : $\pm 1.4x10-2 + (1.2x10-4xP)$ with P in bar

Our reference Air DWT

* Etalon / standard : A0004 -> BA3-10B Uncertainly of the pressure measured (in bar) :: \pm 9x10-5 + (8x10-5xP) with P in bar * Etalon / standard : A0007 -> BA4-200B Uncertainly of the pressure measured (in bar) :: \pm 2.3x10-4 + (6.5x10-5xP) with P in bar

A service control point or calibration COFRAC or DaKKs / DKD may also be performed on dead weight testers



- CALIBRATION LABORATORY in an AIR-CONDITIONED ROOM -

Our measurement laboratory offers you a calibration service of up to 5000 bar traceable to national standards (COFRAC connected).

> Upon receipt of your equipment, we will carry out an initial expertise :

Allocation of an intervention number (Traceability / Working condition / Feasibility of connections / etc..

>Laboratory storage :

Warming up your instrument before calibration

>Calibration of the instrument :

Realization of measurement points (10 or 20 points on the main measurement range) Results analysis Edition of the Point statement, and notification of any observations

>Shipping :

Your instrument will be returned in its original packaging accompanied by its certificate.

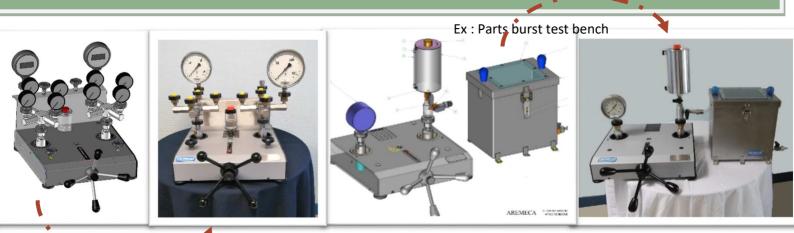


DESIGN / DEVELOPMENT of your workstation

Our design office works regularly with all types of industries: AUTOMOTIVE, AERONAUTICS, PETROCHEMICALS, RAILWAYS, PHARMACEUTICALS, COSMETICS, FOOD, ENERGY etc...

We can design and build your workstation to meet your needs. Our team will work according to your specifications.

Don't hesitate to submit your problem to us, we will find a solution together! Many customers have trusted us, here are some examples :



Ex : Control station

Expert in pressure metrology, we can custom manufacture your control station

Submit your problem to us, and our teams: Design and Technical Office will study your specifications in order to offer you a solution. We can model a pre-project, send you the first technical elements, etc.

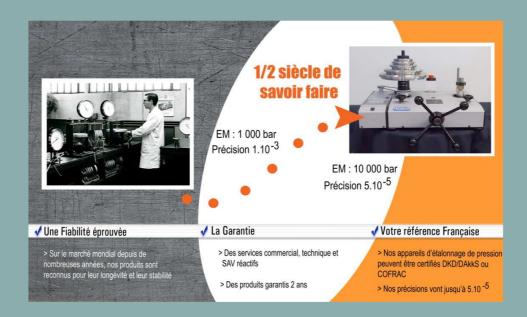
As a manufacturer, we can modify one of our products so that it best meets what you are looking for or develop a new solution that can even integrate our product catalog.

We have already designed accessories for our customers: pressure gauge cleaning bench, pressure gauge ramp, etc. But also complete control stations with workbench and transport case.

We remain at your disposal, don't hesitate !







Our primary objective is to provide excellent service, which is why we select our partners carefully.

Our requirements :

Proximity : to be able to meet with you on your site and better serve you, our specialists are near you !

Technical knowledge : to understand your needs, take into account your technical requirements, offer the best solution partners are real specialist pressure instruments.

Quality / Service : We our utmost to ensure that our products are recognized for their quality and reliability. Listening to our customers, standards, the instrumentation market, we regularly up actions of research and development to optimize our products but also offer you new products offering new possibilities.

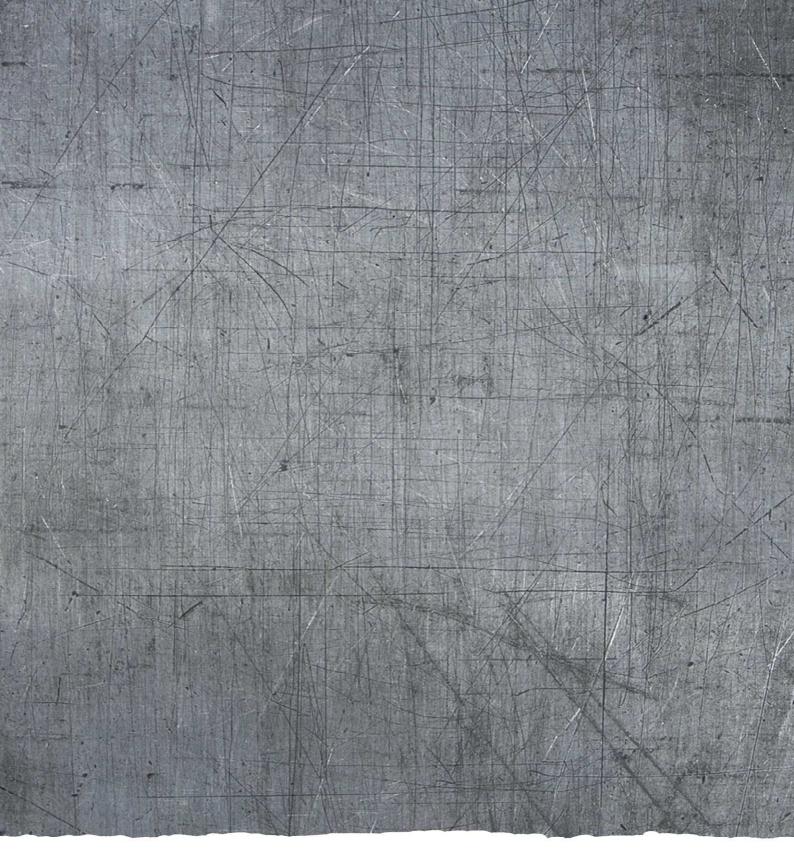
This is why it is important that our partners also offer you the best service. They can assist you in defining the specifications, in the selection of products in the installation / implementation, training of your technicians etc .. They also send us your comments, suggestions about our products and allow us to consider your expectations on the development of our range.

Reactivity : the relationship we have with our partners is a trust and lasting relationship. We support on technical issues, they offer many marketing and sales support, because we want them to be responsive and accurate in their technical solutions.

If you want to become a partner, contact us !

NOTE

NOTE



Marketing & Sales Manager to international : Delphine REGAL Mail : d.regal@aremeca.fr

> **Technical Manager** : Frédéric MOUTARDIER Mail : f.moutardier@aremeca.fr