



✓ Applications

Range of Dead weight tester is designed to test, adjust and calibrate measuring instruments, mechanical or electronic pressure by comparison (pressure gauges, pressure transmitters or sensors or switches)

They consist of a pressure generator, a piston/cylinder unit, a set of weigh identified. The capstan is used to generate a pressure pushing the fluid through the piston. This pressure is balanced by the piston/cylinder assembly which allows to compare the instrument to be calibrated to the pressure values generated by the standard. These scales are intended for the calibration gauge.

The Dead weight are robust and easy to use and have a high long-term stability.

✓ Technical specifications

- Calibration :	It is necessary to recalculate the pressure generated by the dead weight according to the different variables. Our dead weight are calibrated in the following terms of use : Temperature 20°C - Pressure atmos. 1013.25 hPa - Humidity 50% - acceleration 9.80665 m/s ²)
- Fluid :	Mineral or synthetic oil depending on model, colorless, compatible with medical or food uses – tank volume 125 cm ³
- Check/adjust the seat :	leveling bubble and adjustable feet
- Connection for the instrument to be tested :	Raccord tournant G1/2 en équipement standard
- Rotating weigh :	Training masses : manual rotation
- Carter :	Light alloy aluminium AG3 + high-resistance paint
- Ratchet :	removable for transport
- Piston/cylinder :	Single or twin piston tungsten carbide and/or treated steel
- Weight :	stainless steel - Weight of the set of weights from 50 kg depending on model – Shape masses ergonomic, easy loading of the masses on the bell - Marking corresponding with the measuring unit (bar, mbar, KPa, PSI etc..)

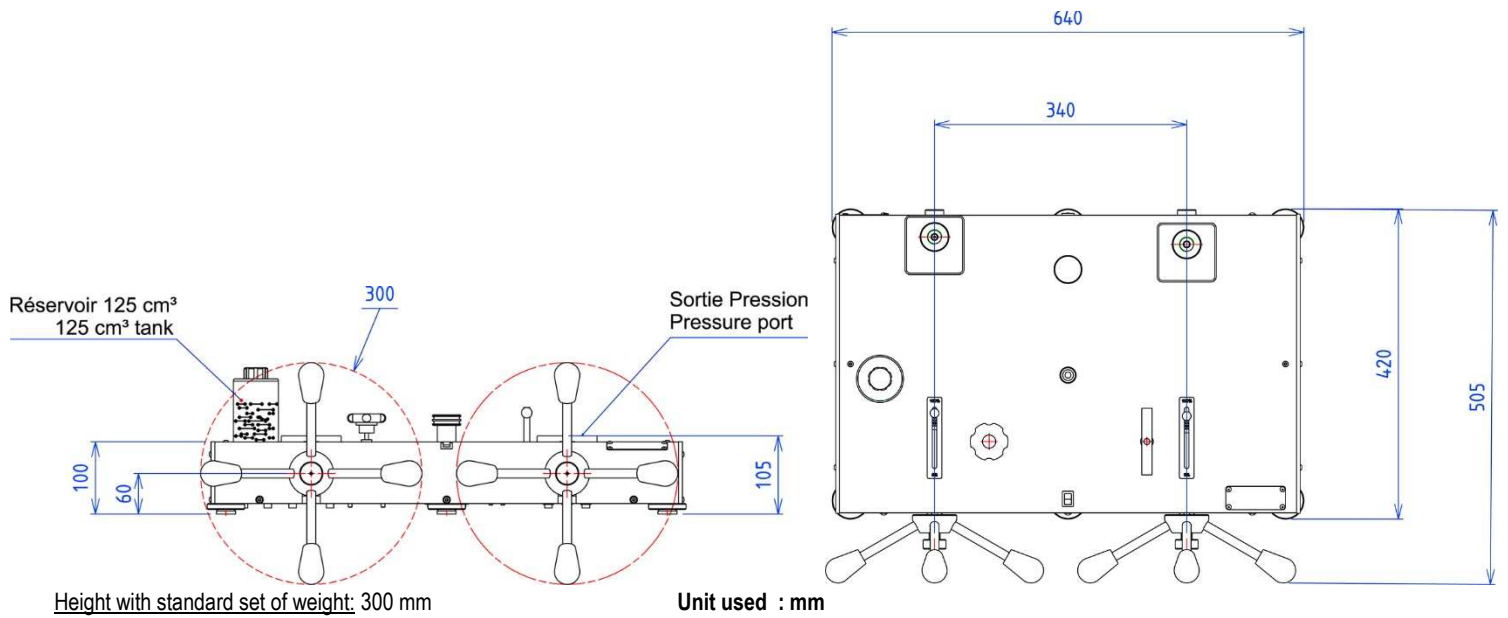
✓ Spécificités du modèle

- Model :	BH2-10000B - dead weight single piston
- Measuring range :	200 to 10000 bar
- Uncertainty of the pressure measured by the DWT :	$5 \cdot 10^{-4} \times P$ (with P in bar)
- Accuracy :	0.01%
- Weight dead weight without masses ::	35 kg
- Fluid :	Oil Sebacate - fluid density : 915 kg/m ³
- Typical cross-section of the piston :	0.5026 mm ²
- Material piston/cylinder :	tungsten carbide
- Number of piston :	1

✓ Divers

- **Manuel** : a detailed operating instructions supplied with the device + Certificate + 0.5 liter Oil
- **Maintenance** : Our technical department is at your disposition for the revision, calibration or service your unit – Calibration device recommended every 2 years.

✓ **Dimensions of device**



✓ **Standard weight sets and intermediate**

Standard set			
	Pressure (bar)	Total weight	Typical value (g)
Unit : BAR (Ref. MBxxxx)	1000	8	5125
	800	1	4100
	400	1	2050
	200	2	1025
	100	2	512
	50	1	256
Pressure Weight bell + adaptation weight	200		1025
TOTAL	10050	15	± 51 kg

Intermediate set			
	Pressure (bar)	Total weight	Typical value (g)
BAR (Ref. MBxxxx)	40	1	200
	20	1	100
	10	1	50
	4	2	20
	2	1	10
	1	1	5
TOTAL	81	7	420g

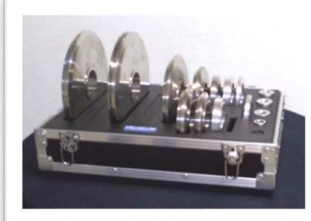
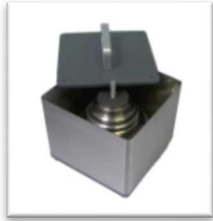
Standard set			
	Pressure (bar)	Total weight	Typical value (g)
Unit : PSI (Ref. MBxxxx)			
Pressure Weight bell			
TOTAL	101000	9	±35 kg

Intermediate set			
	Pressure (bar)	Total weight	Typical value (g)
PSI (Ref. MBxxxx)			
TOTAL	1010	8	g

Standard set			
	Pressure (bar)	Total weight	Typical value (g)
Unit : kPa (Ref. MBxxxx)			
Pressure Weight bell			
TOTAL	705000	12	± 36 kg

Intermediate set			
	Pressure (bar)	Total weight	Typical value (g)
kPa (Ref. MBxxxx)			
TOTAL	8100	7	420g

✓ **Options for weight set**



transport metal boxes

(OP0101) : 260 x 260 x 310 mm - weight empty : 6 kg

Suitcase for post planning and transportation

(OP0095) box 3 : 280 x 250 x 280 mm - weight empty : 5 kg

(OP0099) large : 500 x 350 x 280 mm - weight empty : 11 kg

Useful for BH2-10000B : *Consult us !*

✓ **Options**

- Intermediate weight set or Standard weight set additional for different units
- Adjust the dead weight with a different acceleration of 9.80665 m/s² on request
- Calibration of the instrument : Points statement AREMECA or certificate of calibration DAkkS or COFRAC
- Tin oil : 1 liter, 2 liters or 5 liters of oil
- Motorization kit / visualization

✓ **Transport and packaging**

- **Packaging** : woodpack is provided for the shipping

Designation/Reference	Dimension / carton or shipping crate	Weight empty / total weight (packaging + materiel)
Dead weight without weight	470 x 470 x 240 mm	Carton empty 1.5 kg Total weight ±37 kg
Standard weight set	300 x 300 x 170 mm	Carton d'emballage à vide 1.5 kg Poids total de ± 52 kg
Wood packaging SB0002	790 x 480 x 340 mm	A vide 20 kg Poids total de ± 109 kg (balance + jeu de masses + emballages)



SB0002

- **Note** : shipping is extra.

✓ **Other models available in the range BH2**

(Datasheet is available on request)

Models single piston

Models	Accuracy	Measuring range		
		Bar ou kg/cm ²	PSI	kPa
BH2-7000B	10 ⁻⁴	200 to 7000	2000 to 100000	20000 to 700000
BH2-6000B	10 ⁻⁴	200 to 6000	2000 to 80000	20000 to 600000
BH2-5000B	10 ⁻⁴	40 to 5000	600 to 72000	4000 to 500000
BH2-4000B	10 ⁻⁴	40 to 4000	600 to 60000	4000 to 400000
BH2-3000B	10 ⁻⁴	40 to 3000	600 to 44000	4000 to 300000
BH2-2500B	10 ⁻⁴	40 to 2500	600 to 36200	4000 to 250000
BH2-2000B	10 ⁻⁴	40 to 2000	600 to 30000	4000 to 200000
BH2-1200B sp	10 ⁻⁴	2 to 1200	30 to 16000	200 to 120000
BH2-600B sp	10 ⁻⁴	2 to 600	30 to 10000	200 to 60000
BH2-300B sp	10 ⁻⁴	1 to 300	15 to 4000	100 to 30000
BH2-150B	10 ⁻⁴	0.5 to 150	10 to 2000	50 to 15000
BH2-60B	10 ⁻⁴	0.2 to 60	3 to 800	20 to 6000
BH2-30B	10 ⁻⁴	0.1 to 30	2 to 400	10 to 3000

Dual piston models : these dead weight tester integrating two pistons can get two ranges from a single set of weight

Models	Accuracy	Measuring range		
		Bar ou kg/cm ²	Models	Accuracy
BH2-1200B dp	10 ⁻⁴	1 to 60 + 20 to 1200	BH2-1200B dp	10 ⁻⁴
BH2-600B dp	10 ⁻⁴	1 to 60 + 10 to 600	BH2-600B dp	10 ⁻⁴
BH2-300B dp	10 ⁻⁴	1 to 60 + 5 to 300	BH2-300B dp	10 ⁻⁴

✓ **Accessories** (Ask for our specific documentation)

- Accessory case (ref.OP0057)
- Setting gauge kit (ref.OP0125)
- Separator all fluids up to 800 bar (ref.OP0023)
- Kit drain tank (ref.OP0025)
- Bench cleaning (ref.OP0062)
- **Carrying case (ref.OPxxxx)**