



Industrial Range

MODEL

580M



Hydraulic
Dead-Weight
Testers.

Primary standards
for Pressure
Calibration

- ▶ Ranges from 2 to 300 bar
- ▶ Standard Accuracy to 0.015%

- ▶ Class 'A' Accuracy to 0.006%
- ▶ Supplied with Software



DH·Budenberg
The Pressure Reference

Industrial Range

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Primary standards for Pressure Calibration

Standard Accuracy to 0.015%
Class A with UKAS

Calibration Certificate 0.006%

RANGES:

Bar 300
kPa 30000
lb/in² 4000
kg/cm² 300

The 580 base can be used with any 580 series pistons, to give ranges 1-120 bar with a 580L, 2-300 bar with a 580M, 1-700 bar with a 580DX and 1-1200 bar with a 580HX.

All units are top loading for ease of use and weight sets are fully interchangeable.

This means that the weight sets in alternative pressures are readily available and customers with more than one 580 series tester can interchange weight sets between a tester of the same range.

The base features a dual area screwpress which allows low pressure priming and high pressure control. The 580M is a proven design using a 1/40in² fully hardened and stabilised tool steel piston/cylinder unit.

The design incorporates an auxiliary piston unit which minimises the possibility of damage to the measuring system. This makes the unit sensitive enough to for accurate calibration and robust enough for heavy industrial use.



ACCURACY

All certificates issued for DH-Budenberg Dead-weight Testers are fully traceable to national standards via equipment with UKAS calibration certificates. A standard accuracy of 0.015% is achieved from 10% of range using software supplied to compensate for the effects of gravity, temperature and the actual area of piston unit. Standard accuracy without any corrections for actual area is 0.02% from 30 to 300 bar, 0.03% from 2 to 30 bar. Higher accuracy Class A testers are available (supplied with UKAS Calibration certificates for area and mass) allowing an accuracy of 0.006% to be achieved.

WEIGHTS SUPPLIED

bar or kg/cm ² Range 2 to 300		kPa Range 200 to 30,000		lb/in ² Range 30 to 4000	
Piston	2	Piston	200	Piston	30
1 wt	3	1 wt	300	1 wt	20
1 wt	45	1 wt	4500	1 wt	450
4 wts	50	4 wts	5000	6 wts	500
1 wt	25	1 wt	2500	1 wt	250
2 wts	10	2 wts	1000	2 wts	100
1 wt	5	1 wt	500	1 wt	50
1 wt	2.5	1 wt	250	1 wt	25
Optional fine increment weights					
2 wts	1	2 wts	100	2 wts	10
1 wt	0.5	1 wt	50	1 wt	5
1 wt	0.25	1 wt	25	1 wt	2.5
2 wts	0.1	2 wts	10	2 wts	1
1 wt	0.05	1 wt	5	1 wt	0.5

SOFTWARE

For maximum ease of use, computer software is supplied with all units. There are two software packages, one for standard accuracy, one for Class A. The software allows the users to correct for the effects of environmental factors such as gravity and temperature and to determine the precise pressure generated by the Dead-weight testers.

ACCESSORIES

There are many accessories which can be supplied for use with the Dead-weight testers. These include liquid / liquid seals, two gauge stands and many others. DH-Budenberg have extensive experience in the use of Dead-weight testers and can supply accessories for many applications. A separate data sheet of accessories is available.

PACKING DETAILS

1 carton containing base, tool roll and piston unit:
59 x 49 x 38cm. 0.110m³, Nett 20kg, Gross 22kg.
1 carton containing weights:
32 x 32 x 38cm. 0.04m³, Nett 52.5kg, Gross 56kg.

SPARES, REPAIR AND RE-CERTIFICATION

Comprehensive service and calibration capability of both DH-Budenberg and non DH-Budenberg test equipment: Dead-weight Testers (working service or full overhaul).

Portable calibrators (DH-Budenberg & non- DH-Budenberg).

Comparators.

All accuracy ranges can be supplied with UKAS Calibration Certificates.

Certification traceable to national standards.

Rapid turn-around times and hire items available as a temporary replacement for strategically important plant.

For further information on Accessories, Repairs & Recertification contact DH-Budenberg and ask for a Data sheet.



Calibration Dynamics Ltd

7 Regents Court
South Way
Walworth Industrial Estate
Andover
Hampshire SP10 5NX

TELEPHONE

+44 (0) 1264 339030

FAX

+44 (0) 1264 339040

WEBSITE

<http://www.calibrationdynamics.com>

EMAIL

sales@calibrationdynamics.com