



Industrial Range

MODEL

580L



Hydraulic  
Dead-Weight  
Testers.

Primary standards  
for Pressure  
Calibration

- ▶ Ranges from 1 to 120 bar
- ▶ Standard Accuracy to 0.015%

- ▶ Class 'A' Accuracy to 0.008%
- ▶ Supplied with Software



DH·Budenberg

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## MODEL 580L

### Hydraulic Dead-Weight Testers.

### Primary standards for Pressure Calibration

Standard Accuracy to 0.015%  
Class A with UKAS  
Calibration Certificate 0.008%

#### RANGES:

120 bar 1600 lb/in<sup>2</sup>  
12000 kPa 120 kg/cm<sup>2</sup>

The 580 series base can be used with any of the 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 weight sets in alternative pressures are readily available and customers with more than one 580 series tester can interchange weight sets between testers of the same range.

The base features a dual area screwpress which allows low pressure priming and high pressure control. The 580L is a robust design, proven over many years usage. The unit has a 1/16in<sup>2</sup> fully hardened and stabilised tool steel piston.

This unit gives extremely good sensitivity for high accuracy calibration, yet is tough enough for regular use in a workshop environment.



## 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 12 to 120 bar, 0.03% from 1 to 12 bar. Higher accuracy Class A testers are available (supplied with UKAS Calibration certificates for area and mass) allowing an accuracy of 0.008% to be achieved.

## WEIGHTS SUPPLIED

bar or kg/cm <sup>2</sup> Range 1-120	kPa Range 100-12000	lb/in <sup>2</sup> Range 10-1600
Piston 1 2 wts 1 1 wt 18 4 wts 20 1 wt 10 2 wts 4 1 wt 2 1 wt 0.5	Piston 100 2 wts 100 1 wt 1800 4 wts 2000 1 wt 1000 2 wts 400 1 wt 200 1 wt 50	Piston 10 2 wts 10 1 wt 180 6 wts 200 1 wt 100 2 wts 40 1 wt 20 1 wt 5
Optional fine increment weights 1 wt 0.4 1 wt 0.2 1 wt 0.1 2 wts 0.04 1 wt 0.02	1 wt 40 1wt 20 1wt 10 2 wts 4 1wt 2	1 wt 4 1 wt 2 1 wt 1 2 wts 0.4 1 wt 0.2

## 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:  
51 x 49 x 30cm. 0.075m<sup>3</sup>, Nett 20kg, Gross 22kg.  
1 carton containing weights:  
32 x 32 x 38cm. 0.04m<sup>3</sup>, 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.



DH-Budenberg

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