

Industrial Range

MODEL

BGH300

SINGLE RANGE TESTER



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

Hydraulic
Dead-Weight
Testers.

Primary standards
for Pressure
Calibration

- ▶ Class 'A' Accuracy to 0.008%
- ▶ Supplied with integral pressure generation



Budenberg

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Hydraulic Dead-Weight Testers.

Primary standards for Pressure Calibration

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

RANGES:

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

The **BGH** series base can be used with any of the **BGH** series pistons to give ranges 1-120bar with a **BGH120**, 2-300bar with a **BGH300**, 1-700bar with a **BGH700** and 1-1200bar with a **BGH1200**.

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 **BGH** 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 **BGH300** 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 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 0.008% to be achieved.

WEIGHTS SUPPLIED

bar or kg/cm ²		kPa		lb/in ²	
Range		Range		Range	
2 to 300		200 to 30,000		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

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. 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.
2 x cartons containing weights:
32 x 32 x 31cm. 0.04m³, Nett 25kg, Gross 30kg, ea

SPARES, REPAIR AND RE-CERTIFICATION

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

Portable calibrators (Budenberg & non- 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.

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