

Industrial Range

MODEL

BGH300

SINGLE RANGE TESTER



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



Budenberg

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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 **BGH** series base can be used with any of the **BGH** series pistons to give ranges 1-120

bar with a **BGH120**, 2-300 bar with a **BGH300**, 1-700 bar with a **BGH700** and 1-1200 bar 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 0.006% to be achieved.

WEIGHTS SUPPLIED

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

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

Budenberg Gauge Co. Ltd.
4 Gilchrist Road,
Ilam,
Manchester M44 5AY.

Tel: +44 161 777 7300.
Fax: +44 161 777 7301.
Email: sales@budenberg.co.uk

Budenberg Gauge Pvt. Ltd.
299-300, 11nd Main Road,
Nehru Nagar,
Old Mahabalipuram Road (OMR),
Midview City
Chennai - 600 096,
Tamil Nadu , India

Tel : +91 44 24541074
Tel/Fax: +91 44 24541075
Email :sales@budenberg-gauge.in

Budenberg Gauge Pte. Ltd
18 Sin Ming Lane
#07-12
Midview City
Singapore 573960

Tel : +65 3158 5419
Email:sales@budenberg-gauge.asia

Budenberg Middle East
and Africa FZC
PO Box 18980
Dubai
United Arab Emirates

Tel: +971 4 2554740
Email: sales@budenbergmea.com