

# BGH300

## Industrial Range SINGLE RANGE TESTER



- ▶ Ranges from 1 to 300 bar
- ▶ Standard Accuracy to 0.015%
- ▶ Class 'A' Accuracy to 0.008%
- ▶ Supplied with integral pressure generation

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 BGH700 and 1-1200 bar with BGH1200.

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 BGH 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 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



### Hydraulic Dead-Weight Testers.

### Primary standards for Pressure Calibration

### 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 <sup>2</sup> Range	kPa Range	lb/in <sup>2</sup> Range
2 to 300	200 to 30,000	30 to 4000
Piston 2	Piston 200	Piston 20
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
<b>Optional fine increment weights</b>		
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	1 wt 0.5

### 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.

### 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. 0.110m<sup>3</sup>, Nett 20kg, Gross 22kg.  
 2 x cartons containing weights:  
 32 x 32 x 31cm. 0.04m<sup>3</sup>, Nett 25kg, Gross 30kg. ea



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