



This is I.T. Co., Ltd.

1878 Moo 1 Soi Bearing 44 Sukhumvit 107 Rd.

T.Samrongnua A.Muang Samutprakarn Thailand 10270

Hot Line: 091-095-8123 Site: [www.thisisit.co.th](http://www.thisisit.co.th) E-mail: [sales@thisisit.co.th](mailto:sales@thisisit.co.th)

# SHU – SHEAR BEAM TYPE AND HIGH ACCURACY LOAD CELL

## Features

- High accuracy tension and compression type.
- An inactive gas being filled in and completely hermetically sealed welded construction.
- Coping with remote sensing requirement (with 6-conductor shielded cable).
- Excellent in deflection proof and fatigue proof features.
- Widely used in fatigue testing machines and industrial machines.
- Accuracy class: 0.03%



## Specifications

|                         |                                       |
|-------------------------|---------------------------------------|
| Safe Overload           | 150%RC                                |
| Rated Output            | 2mV/V±1%                              |
| Nonlinearity            | 0.03% RO                              |
| Hysteresis              | 0.03% RO                              |
| Repeatability           | 0.02% RO                              |
| Excitation Voltage      | 12V (or less)                         |
| Safe Excitation Voltage | 20V                                   |
| Input Resistance        | 350Ω                                  |
| Output Resistance       | 350Ω                                  |
| Compensated Temp.Range  | -10 to 60°C                           |
| Safe Temp.Range         | -30 to 80°C                           |
| Temp.Effect on Zero     | 0.002%RO/°C                           |
| Temp.Effect on Output   | 0.002%/°C                             |
| Connector (on body)     | Φ8mm-4wire shielded cable, length: 5m |



**Micro Sensor Technology**

SHOWA MEASURING INSTRUMENTS INC.

Tokyo Japan



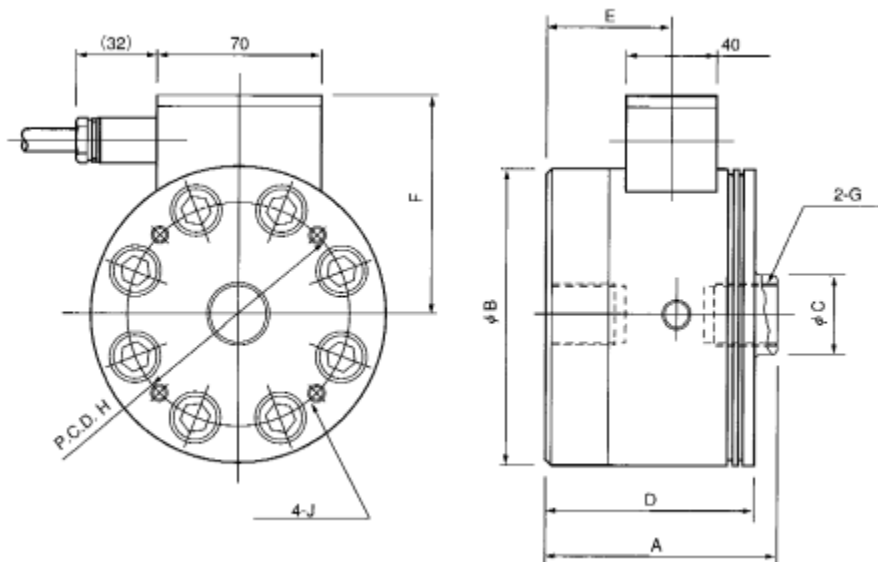
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## Appearance Dimensions



Model and Capacity / Dimension / etc. (unit : mm)

| Model     | Capacity | A   | B   | C   | D   | E   | F   | G            | H   | J       | Natural frequency | Weight |
|-----------|----------|-----|-----|-----|-----|-----|-----|--------------|-----|---------|-------------------|--------|
| SHU-10KN  | 10kN     | 80  | 100 | 22  | 72  | 42  | 78  | M12*1.75 D20 | 80  | M8 D12  | 6.0kHz            | 3.2kg  |
| SHU-20KN  | 20kN     | 80  | 100 | 22  | 72  | 42  | 78  | M16*2 D20    | 80  | M8 D12  | 8.6kHz            | 3.2kg  |
| SHU-50KN  | 50kN     | 95  | 125 | 34  | 85  | 52  | 94  | M24*2 D30    | 95  | M8 D15  | 6.4kHz            | 6.8kg  |
| SHU-100KN | 100kN    | 135 | 160 | 48  | 120 | 75  | 114 | M36*2 D45    | 120 | M8 D15  | 5.9kHz            | 16kg   |
| SHU-200KN | 200kN    | 170 | 200 | 65  | 155 | 100 | 136 | M48*3 D60    | 160 | M8 D15  | 4.9kHz            | 34kg   |
| SHU-500KN | 500kN    | 270 | 310 | 105 | 250 | 165 | 192 | M80*3 D90    | 230 | M16 D30 | 4.0kHz            | 135kg  |
| SHU-1MN   | 1MN      | 330 | 400 | 150 | 310 | 210 | 239 | M110*4 D110  | 300 | M16 D40 | 3.5kHz            | 280kg  |



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