

## LCHLJ Shear Beam Load Cell

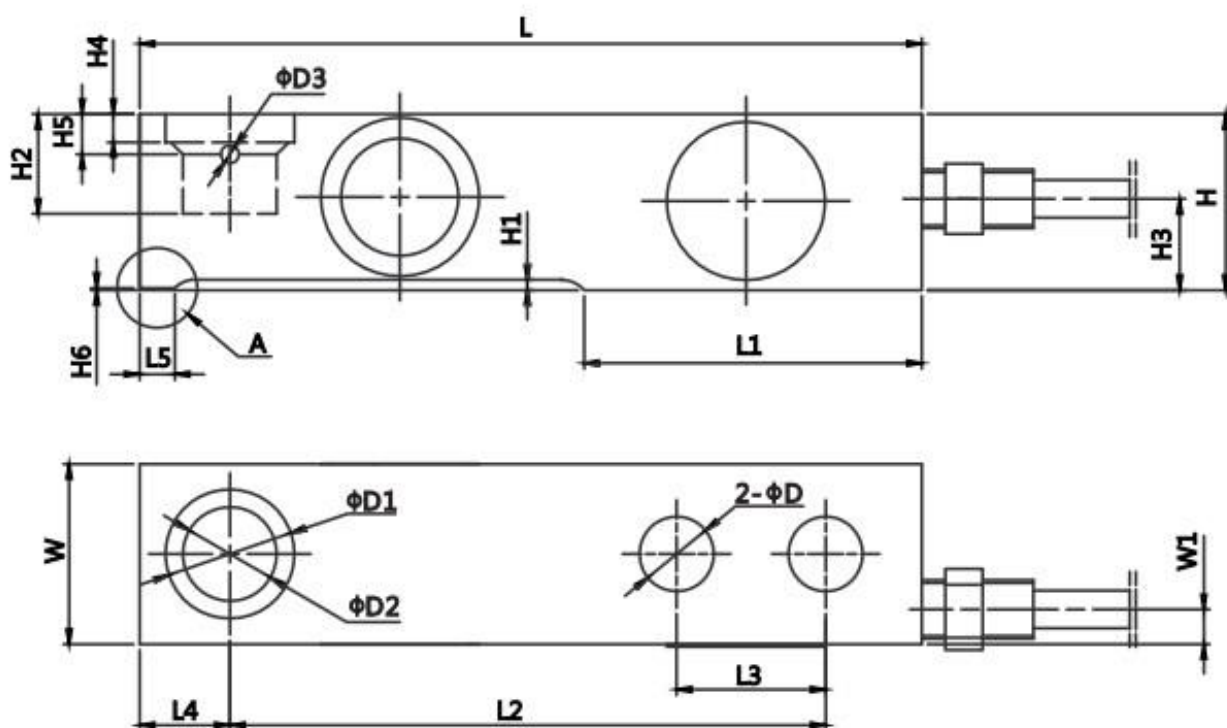
### Characteristics & Usage:

Compact structure, high comprehensive accuracy, good long-term stability, high quality alloy steel surface nickel plating.

The Field of tension and pressure testing instruments such as heavy duty testing machine, hopper scale, hook scale, packing scale, belt scale, plug-in force tester, automation equipment.



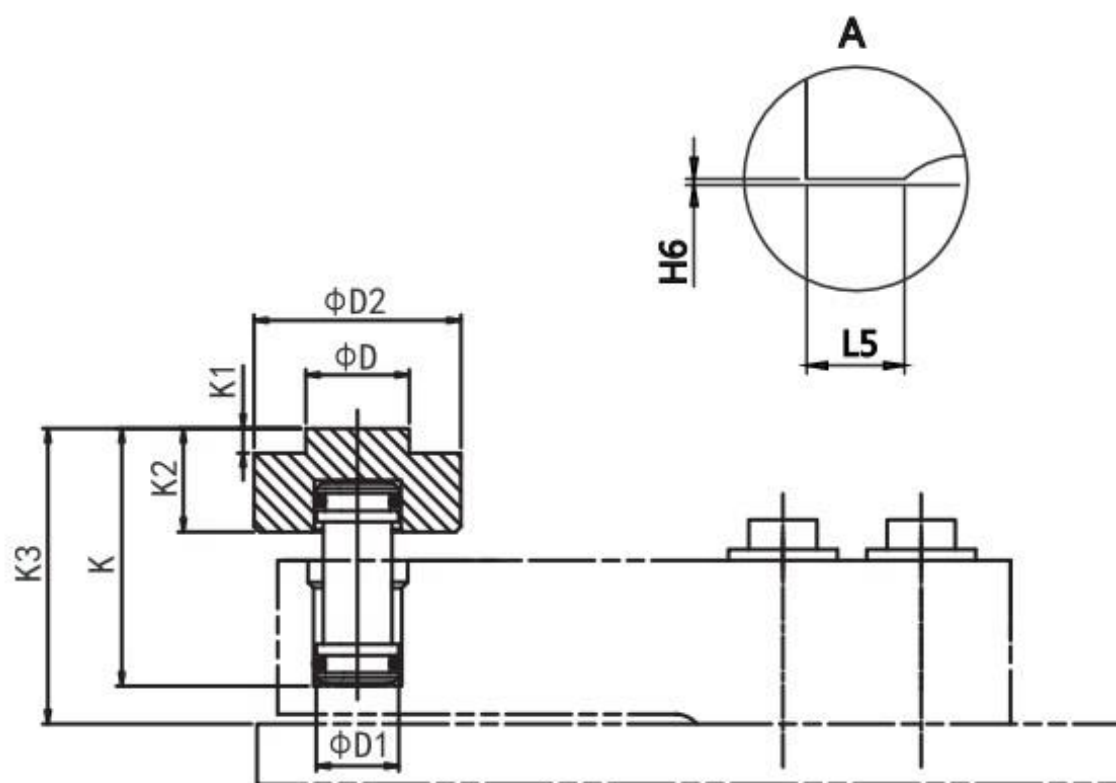
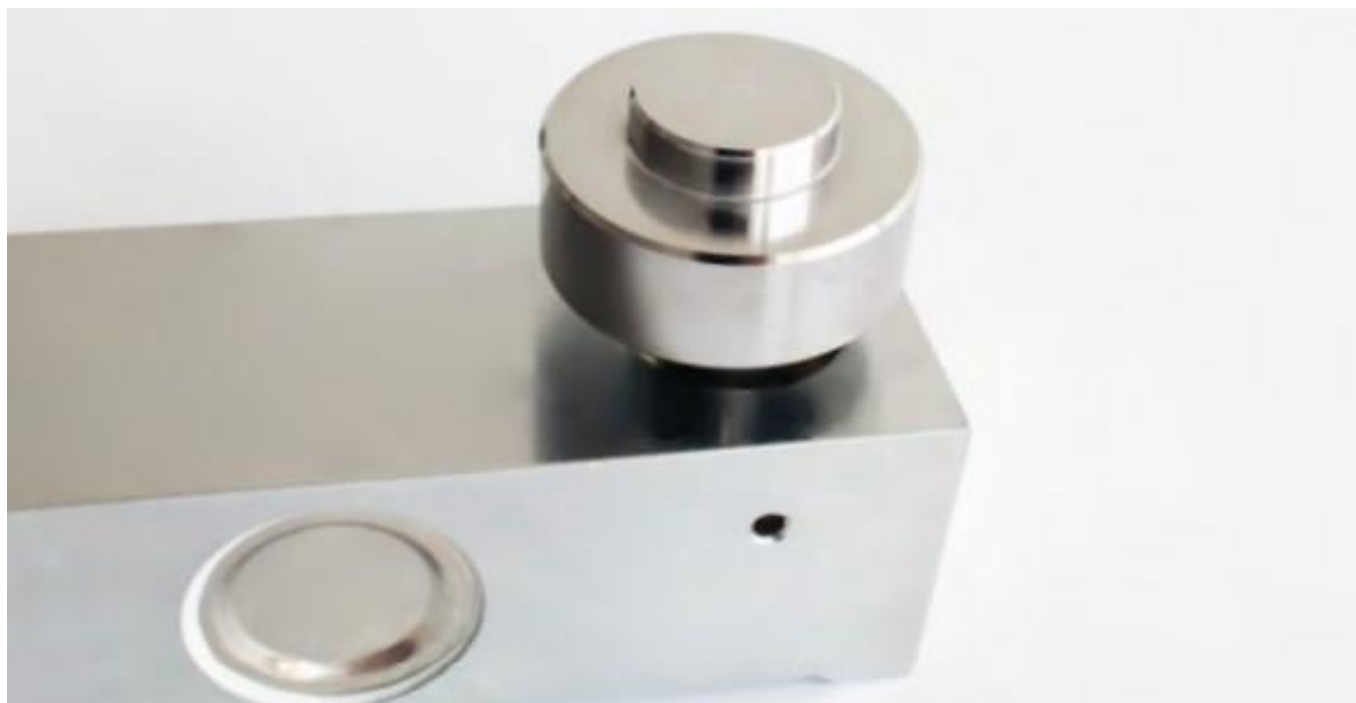
**Dimensions (mm) :**



| Capacity(T) | D    | D1   | D2   | D3  | H    | H1  | H2   | H3   | H4  | H5   |
|-------------|------|------|------|-----|------|-----|------|------|-----|------|
| 0.25/0.5/1  | 12.7 | 22   | 15.9 | 3.1 | 30   | 1.9 | 17   | 15.9 | 4.7 | 7.7  |
| 2           | 12.7 | 22   | 15.9 | 3.1 | 36.6 | 2.8 | 23   | 19.6 | 9.5 | 11.7 |
| 3           | 15   | 22   | 15.9 | -   | 36.6 | 1.2 | 23   | 19.6 | 9.5 | 11.7 |
| 5           | 19   | 34.9 | 22.2 | 3.1 | 43   | 2   | 29.4 | 22.5 | 11  | 11.7 |

| Capacity   | H6   | L     | L1   | L2    | L3   | L4   | L5  | W    | W1  |
|------------|------|-------|------|-------|------|------|-----|------|-----|
| 0.25/0.5/1 | 0.38 | 133.4 | 57.6 | 101.6 | 25.4 | 15.4 | 6.4 | 30.7 | 5.2 |

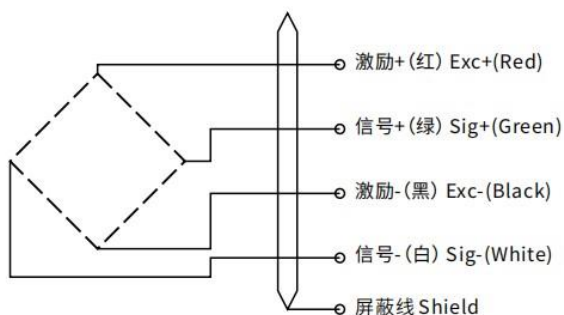
|   |      |       |      |       |      |      |     |      |   |
|---|------|-------|------|-------|------|------|-----|------|---|
| 2 | 0.82 | 136.7 | 57.9 | 101.6 | 25.4 | 18.4 | 6.4 | 36.8 | 6 |
| 3 | -    | 139.7 | 57.9 | 104.6 | 25.4 | 18.4 | -   | 39   | 6 |
| 5 | -    | 171.5 | 73.8 | 133.3 | 38.1 | 21.5 | -   | 42.9 | 6 |



| Capacity(T) | K | K1 | K2 | K3 | D | D1 | D2 |
|-------------|---|----|----|----|---|----|----|
|-------------|---|----|----|----|---|----|----|

|        |       |     |      |       |      |      |      |
|--------|-------|-----|------|-------|------|------|------|
| 0.25-3 | 47.8  | 4.2 | 19.0 | 61    | 19.0 | 15.2 | 38.0 |
| 5      | 114.4 | 6.0 | 20.5 | 128.0 | 34.7 | 21.5 | 44.5 |

## Sensor wiring diagram



## Force diagram



## Technical parameters

|                               |                 |                             |                                     |
|-------------------------------|-----------------|-----------------------------|-------------------------------------|
| 量程 Capacity                   | 0-5T            | 材质 Material                 | 合金钢 Alloy Steel/不锈钢 Stainless Steel |
| 输出灵敏度 Rated Output            | 2.0±0.05mV/V    | 阻抗 Impedance                | 350 Ω                               |
| 零点输出 Zero Balance             | ±1% F.S.        | 绝缘电阻 Insulation             | ≥5000M Ω /100VDC                    |
| 非线性 Non-linearity             | 0.03% F.S.      | 使用电压 Recommended Excitation | 5-15V                               |
| 滞后 Hysteresis                 | 0.03% F.S.      | 工作温度范围 Operating Temp range | -20~80℃                             |
| 重复性 Repeatability             | 0.02% F.S.      | 安全超载 Safe Load Limit        | 150%                                |
| 蠕变 (30 分钟) Creep (30 Min)     | 0.03% F.S.      | 极限超载 Ultimate Load Limit    | 200%                                |
| 温度灵敏度漂移 Temp Effect on Output | 0.03% F.S. /10℃ | 电缆线规格 Cable Specifications  | Φ5*3m                               |
| 零点温度漂移 Temp Effect on Zero    | 0.05% F.S. /10℃ | 线缆极限拉力 Cable ultimate pull  | 10kg                                |
| 响应频率 Response frequency       | 10kHz           | TEDS Optional 可选            |                                     |