

Pancake Load Cell

Tension and Compression Load Cell

0.5kN – 1000kN



FEATURES

- Universal loading (with base – option)
- Stainless Steel
- Welded shim – option
- Used for mass and force
- Based on the shear web design to minimise mis-aligned loads.
- Full range of mounting accessories

APPLICATIONS

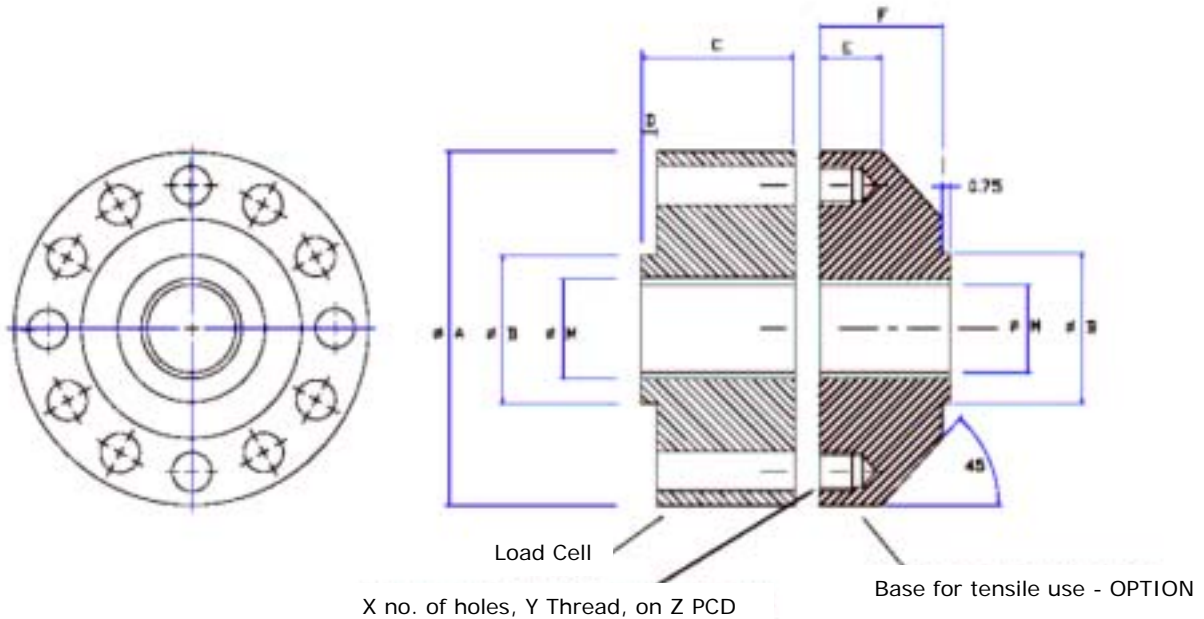
- Test machines.
- Mis-aligned loading applications.
- Environments with height constraints.
- The design lends it to be used in many applications.





Procter & Chester Measurements

PARAMETER		UNITS
Rated Capacities	0.5 – 1000	KN
Rated Output	2.0 nom	MV/V
Linearity & repeatability	0.15	±% of Rated Output
Zero Return after 30 minutes	0.04	±% of Applied Load
Zero Balance	1	±% of Rated Output
Temperature Range: Operating	-10 to 80	°C
Temperature Range: Compensated	amb to 70	
Temperature Effect: On Output	0.1	±% of Applied Load/°C
Temperature Effect: On zero	0.02	±% of Rated Load/°C
Safe Overload	150	% of Rated Capacity
Ultimate Overload	300	% of Rated Capacity
Excitation: Recommended	10	Volts AC or DC
Excitation: Maximum	15	
Input Impedance	780 nom	ohm
Output Impedance	700 nom	ohm
Insulation Impedance	>2000	Mega ohm
Deflection at Rated Capacity	0.4	mm
Weight (approximate) :	NA	kg
Construction	*Stainless Steel	
Environmental Protection	IP65	
Cable	Gland. 5m screened cable	P+ Red, P- Blue, S+ Yellow, S- Green. Screen not connected.



CAP. (kN)											BOLT TORQUE - NM
	65	18	17	2	10	20	M8x1.25	6	M4x0.7	56	4.6
2.5 – 5	106	32	28	3	16	28	M16x1.5	8	M6x1.0	92	16
12.5 – 25	106	32	36	3	16	29	M16x1.5	8	M6x1.0	92	16
50 – 100	154	50	31	3	20	40	M30x2	8	M12x1.75	128	77
125 – 250	194	93	64	6	26	60	M42x3	16	M12x1.75	165	135
500 – 1000	240	125	75	8	45	75	M72x3	16	M16x1.5	206	330

*NOTE: 0.5 – 5kN produced in aluminium material. Base is optional.

All dimensions in mm.

PCM produce custom design load cells, therefore we are able to modify the dimension and materials and build to order. PCM's policy is one of continuous improvement. We therefore reserve the right to incorporate technical modifications without prior notification. PCM are an approved ISO9001 manufacturer, Certificate No: 5527.