

X-Y Force Type Load Cells

X-Y Series

Ideal for tire uniformity measurement, etc.

Simultaneous measurement in the X and Y directions with one unit

Structure designed for excellent toughness and durability

Minimal mutual interference with simultaneous loading on the X and Y axes



Models & Capacities

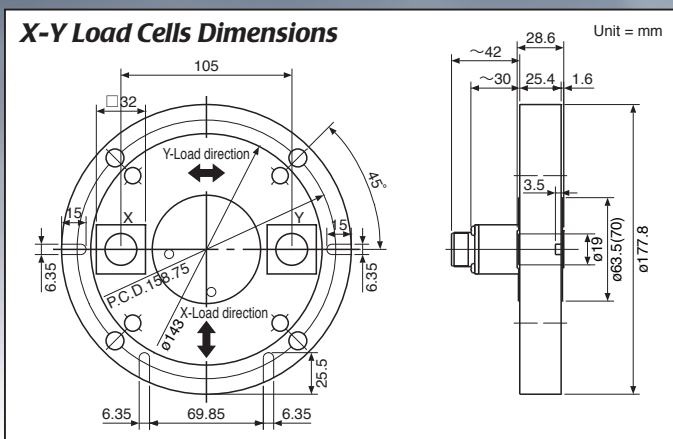
Model No.	Capacity
XY-500L/250L	X-500 kg (5 kN)
	Y-250 kg (2.5 kN)
XY-750L/250L	X-750 kg (7.5 kN)
	Y-250 kg (2.5 kN)
XY-1000L/500L	X-1000 kg (10 kN)
	Y-500 kg (5 kN)

Note: XY-500L/500L to be specially designed and re-quoted

Specifications

Rated capacity (R.C.)	X-500 kg Y-250 kg (X:5 kN, Y:2.5 kN) X-750 kg Y-250 kg (X:7.5 kN, Y:2.5 kN) X-1000 kg Y-500 kg (X:10 kN, Y:5 kN)
Rated output (R.O.)	2 mV/V $\pm 1\%$ (for X, Y)
Non linearity	0.1% R.O.
Hysteresis	0.05% R.O.
Repeatability	0.05% R.O.
Recommended excitation voltage	5 V to 10 V AC/DC
Max. excitation voltage	20 V AC/DC
Zero balance	$\pm 1\%$ R.O.
Input terminals bridge resistance	$350 \Omega \pm 3.5 \Omega$
Output terminals bridge resistance	$350 \Omega \pm 3.5 \Omega$
Insulation resistance	2000 M Ω (B/E DC 50 V)
Cable diameter/length	$\phi 7$, 4-core shielded cable, 10 m, connector end
Zero point temperature effect	0.05% R.O./10 °C
Temperature effect on output	0.05% Load./10 °C
Temperature compensated range	-10 °C to +70 °C
Temperature usable range	-10 °C to +70 °C
Safe overload	150% R.L.
Limited overload	200% R.L.
Dustproof/Waterproof	IP54
Natural frequency	More than 1 kHz
Crosstalk	2.5 N or less (5 kN / 2.5 kN) 5.0 N or less (7.5 kN / 5 kN, 10 kN, / 2.5 kN, 5 kN / 5 kN)

X-Y Load Cells Dimensions



Wiring Information

