

JANDEL Engineering Ltd Cartridge with Lead Four Point Probe Head

JANDEL ENGINEERING LTD. manufactures the **Cartridge with Lead** probe to be compatible with systems manufactured by ASM, PIE, Veeco AP150 (when fell adaptor is used), A&M Fell, Veeco FPP5000 (upside down-when fell adaptor is used), Parc-Amber, Probex, and for various engineering applications. It has a 1" diameter body, is 1.9" high (25.4mm x 48.5mm high) and weighs 50g. If you need a probe for a Veeco systems that is not using a Fell adaptor, then see the Jandel square bodied "Compact probe".



Jandel four point probe heads are built with upper and lower jewel bearings and are built to a high level of mechanical accuracy. Final testing involves the use of calibrated measurement instruments (electronic force gauge, video inspection system, interferometer) to verify tip radii, tip spacing, spring load, and tip planarity.

PROBE SPACING	25-50 mils by 5 mil increments: 1.00 mm 1/2(pi) cm (1.591 mm or about 62.6 mils)
TOLERANCE	+/-0.01 mm
ARRANGEMENT	Linear or Square array
NEEDLES	Solid Tungsten carbide Ø 0.40 mm (Ø 0.30 mm for close-spacing) 45 degree included angle, phosphor-bronze connecting ligament
OTHER MATERIALS	50% osmium alloy tips available
RADII	12.5 µm min. to 500 µm max. polished with 2 µm diamond
RETRACTION TO INSULATING PAD	0.5 mm
PLANARITY	+/- 0.025 mm or better
LOADS	Low: 10-200 grams per tip
LEADS	4-way cable Teflon insulated (screened on cylindrical)
ELECTRICAL LEAKAGE	10 ¹³ ohms resistance between needles at 100 volts