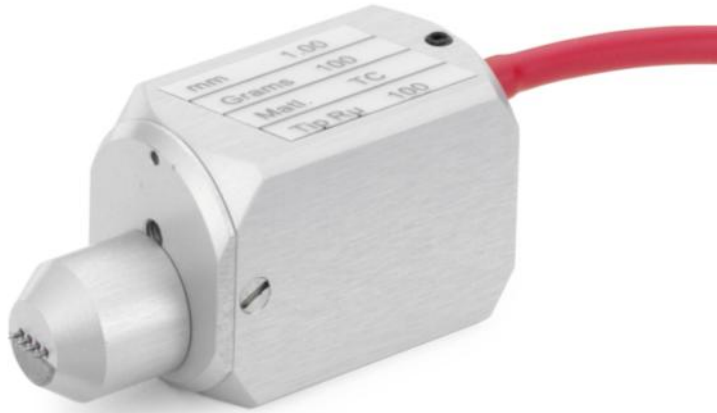


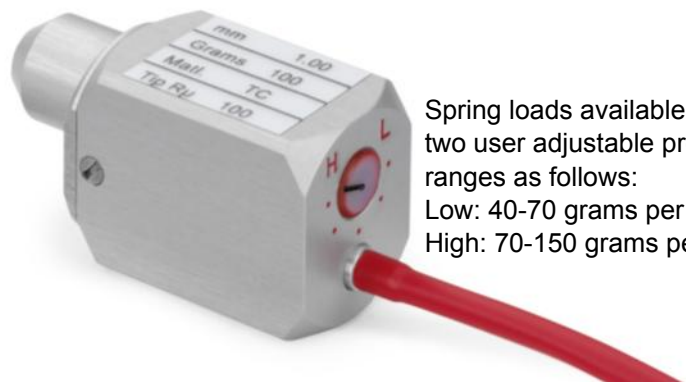
JANDEL Engineering Limited

Compact Four-Point-Probe Head



JANDEL ENGINEERING LTD. manufactures the Compact probe to be compatible with Veeco machines and any machine that uses a square bodied Alessi probe. It is 0.75" x 0.625" x 1.475" high (19mm x 16mm x 37.5mm high) and weighs 18g.

All Jandel probes are built to a high level of mechanical accuracy. Specifications for radii, spacing, and planarity are verified by video inspection system and optical interferometer. Loads are verified by electronic force gauge. Each needle is fitted with both an upper and lower jeweled needle guide. Additional information about probe quality can be found online here:



Spring loads available in one of two user adjustable pressure ranges as follows:
 Low: 40-70 grams per tip, or
 High: 70-150 grams per tip.

[Probe Head Application Notes](#)

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 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 in grams	Available in two adjustable ranges, Low 40-70, or High 70-150
LEADS	4-way cable Teflon insulated (screened on cylindrical)
ELECTRICAL LEAKAGE	10 ¹³ ohms resistance between needles at 100 volts
OPERATING TEMPERATURE RANGE	77K to 120C, also available in a version capable of withstanding usage in a 180C oven or on a 200C hotplate.