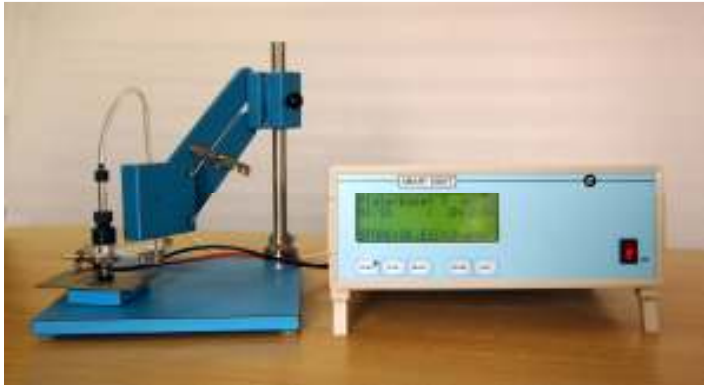


# Model SMART SIDET Smart Destructive Tester



Smart Sidet is a smart, versatile and sophisticated instrument for measurement of coatings of metals as well as alloys applied on substrate by electroplating or other methods. It fulfills a long standing need on the Indian market for a smart, reliable and accurate coating thickness measuring instrument.

Smart Sidet has facility to store and transfer the results to PC via USB. It also provides various built-in plate / base combinations.

Smart Sidet works on Coulometric principle. Smart Sidet is a microcontroller based system hence it is more flexible in design. Menu driven software enables user to select the desired plate / base combination. Once this is selected through Menu, Smart Sidet carries out thickness measurement without manual intervention. It has high accuracy & repeatability. It can measure thickness on thick and flat surfaces as well as plating on wire.

Smart Sidet can be supplied either 3.5 mm dia or 2.5 mm dia or 1.5 mm dia gaskets. User can decide about the gasket diameter depending upon the available flat surface on the plated sample and inform us about his choice of gasket at the time of ordering.



METALLIC COATING	BASE METAL / MATERIAL
CADMIUM	Aluminium, Brass, Copper, Nickel, Steel
CHROMIUM	Aluminium, Brass, Copper, Nickel, Steel, Stainless steel
COPPER	Aluminium, Iron, Nickel, Non-metals, Steel
LEAD	Aluminium, Brass, Copper, Steel
NICKEL	Aluminium, Brass, Chromium, Copper, Steel
SILVER / THIN SILVER	Copper, Brass, Nickel, Tin
TIN	Aluminium, Brass, Copper, Nickel
ZINC	Aluminium, Brass, Copper, Nickel, Steel

## Specifications (SMART SIDET)



❖ <b>Measurement Range</b>	0 to 99.99 microns
❖ <b>Accuracy</b>	<b>For 2.5mm Dia Gasket :</b> +/- 0.75 microns for plating up to 15 microns and +/- 7.5% for 15 microns and higher plating  <b>For 3.5mm Dia Gasket :</b> +/- 0.5 microns for plating up to 15 microns and +/- 5% for 15 microns and higher plating
❖ <b>Readability</b>	0.1 micron or 0.01 microns (for thin coatings)
❖ <b>Gasket Diameter</b>	3.5mm or 2.5 mm or 1.5mm (to be specified while ordering)
❖ <b>Area of Deplating</b>	Approx. 5mm <sup>2</sup> Circular with 2.5 mm Diameter gasket
❖ <b>Electrolyte Required</b>	Approx. 2cc
❖ <b>Power</b>	240V AC, 50Hz, Single Phase, 12VA
❖ <b>Main frame</b>	29 L * 25.8 W * 12 H cm
❖ <b>Weight</b>	SMART SIDET = 2.95Kg Stand Assembly with wooden block = 2.15 Kg
❖ <b>Electrolyte</b>	Formula for different plate/ base combination provided in manual.

*Due to continuous R&D, specifications are likely to change without notice*

**Manufactured by :**

**Para Electronics Manufacturing Division  
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