

Specifications



Scratch testing

	NST ³	MCT ³	RST ³
Maximum load [N]	1	30	200
Load resolution [µN]	0.01	10	100
Load noise floor [rms] [µN]*	0.1	100	1000
Loading rate [N/min]	up to 100	up to 300	up to 300
Depth range [µm]	600	1000	1000
Depth resolution [nm]	0.1	0.05	0.05
Depth noise floor [rms] [nm]*	1.5	1.5	2.5
Data acquisition rate [kHz]	192	192	192
Scratch speed [mm/min]	0.1 to 600	0.1 to 600	0.4 to 600

Options

Heating stage up to 200 °C		✓	✓
Heating stage up to 450 °C		✓	✓
Liquid testing	✓	✓	✓

Indentation testing

	UNHT ³	NHT ³	Hit 300	MCT ³	UNHT ³ Bio	UNHT ³ HTV
Maximum indentation load [mN]	100	500	500	30,000	20	100
Load resolution [µN]	0.003	0.02	0.02	6	0.001	0.006
Load noise floor [rms] [µN]*	<0.05	<0.5	<1	<100	0.1	0.5
Maximum indentation depth [µm]	100	200	200	1000	100	100
Depth resolution [nm]	0.003	0.01	0.01	0.03	0.006	0.006
Depth noise floor [rms] [nm]*	<0.03	<0.15	<0.3	<1.5	0.25	0.15
Data acquisition rate [kHz]	192	192	192	192	192	192

Options

Sinus mode	✓	✓	✓		✓	✓
Liquid testing	✓	✓		✓	✓	
Heating stage up to 200 °C	✓			✓		
Heating stage up to 450 °C				✓		
Heating stage up to 800 °C						✓
Petri dish holder					✓	

Additional options and accessories are available on specific request: Electrical contact resistance (ECR), cooling for low temperatures (-150 °C in vacuum), wafer holder, multiple sample holder, ...

*Noise floor value specified under ideal laboratory conditions and using an anti-vibration table.

✓ available option

Coating thickness testing

Calotest Compact (CATc) Calotest Industrial (CATi) Calotest Combo (CATcombo)	
Shaft speed [rpm]	10 to 3,000
Abrasion time ranges [seconds]	1 to 10,000
Standard ball diameters [mm]	10, 15, 20, 25.4, 30

“

We are confident in the high quality of our instruments. That's why we provide **full warranty for three years.**

”

All new instruments* include repair for 3 years.

You avoid unforeseen costs and can always rely on your instrument.

Alongside the warranty we offer a wide range of additional services and maintenance options.

*Due to the technology they use, some instruments require maintenance according to a maintenance schedule. Complying with the maintenance schedule is a prerequisite for the 3-year warranty.

Service and support directly from the manufacturer

Our comprehensive service provides you with the best individual coverage for your investment so that maximum uptime is ensured.



SAFEGUARDING YOUR INVESTMENT

Regardless of how intensively you use your instrument, we help you keep your device in good shape and safeguard your investment – including a 3-year warranty.



THE SHORTEST RESPONSE TIMES

We know that sometimes it's urgent. That's why we provide a response to your inquiry within 24 hours. We give you straightforward help from real people, not from bots.



CERTIFIED SERVICE ENGINEERS

The seamless and thorough training of our technical experts is the foundation of our excellent service provision. Training and certification are carried out at our own facilities.



OUR SERVICE IS GLOBAL

Our large service network for customers spans 86 locations with a total of 350 certified service engineers. Wherever you are located, there is always an Anton Paar service engineer nearby.