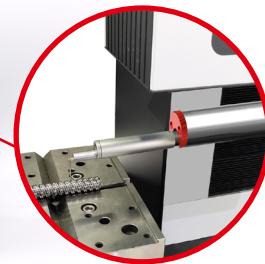




Profilometers SJ57 Series

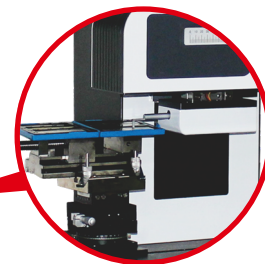
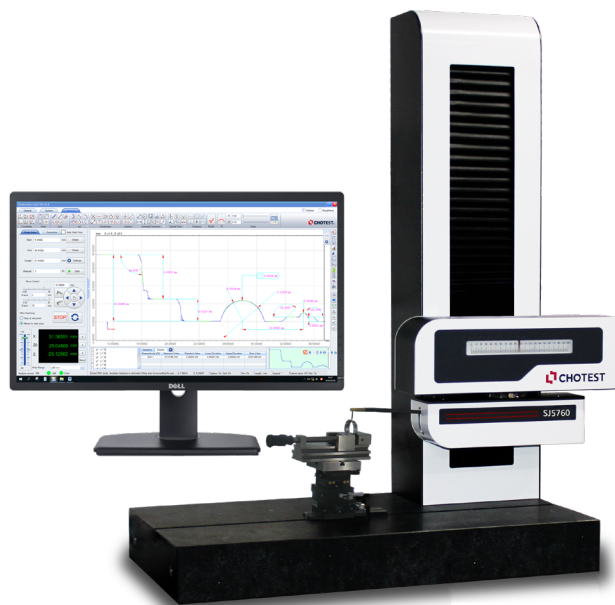


Easy conversion
between profile and roughness function



Long arm is suitable for roughness
measurement in deep hole

SJ5701



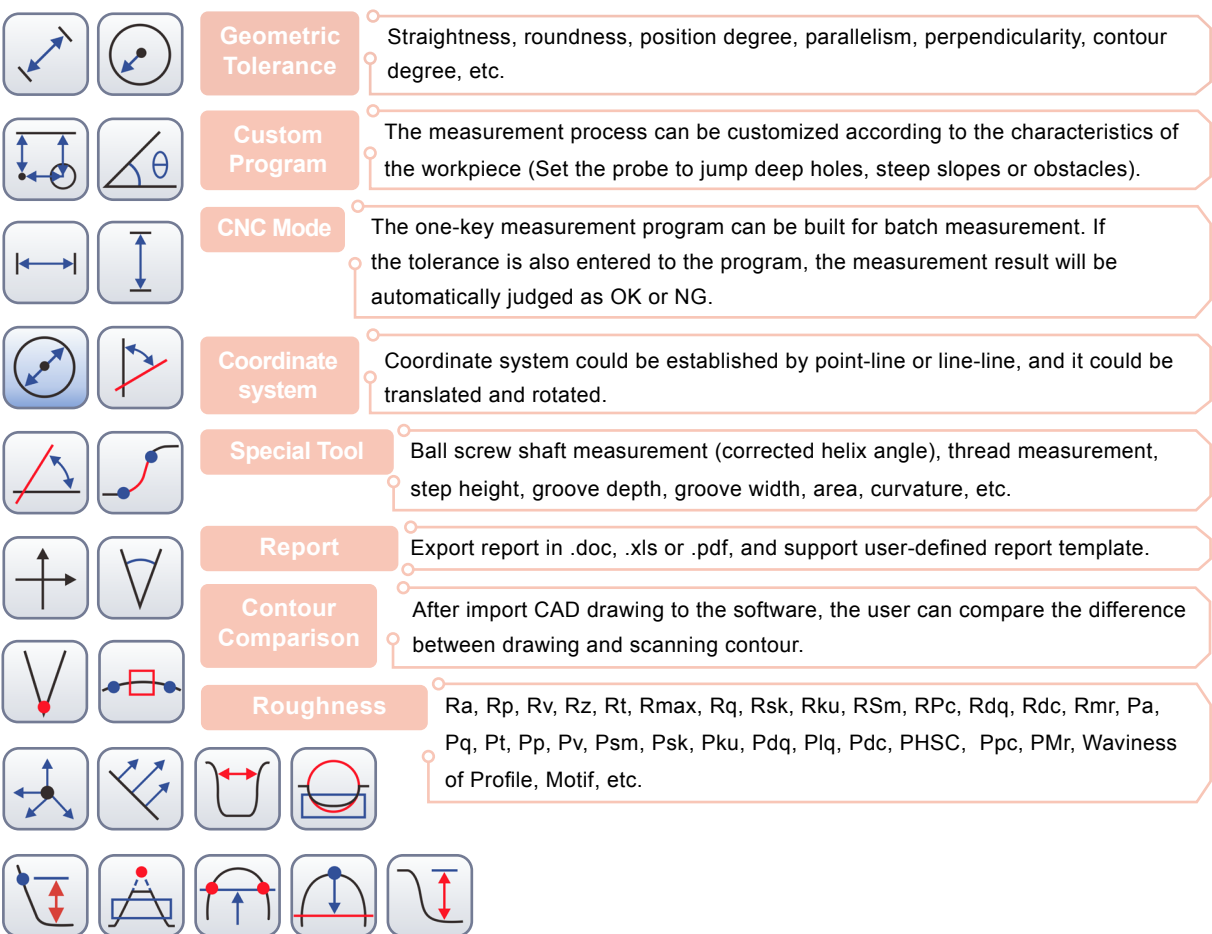
Easy conversion
between profile and roughness function
(Roughness module is optional)

SJ5760

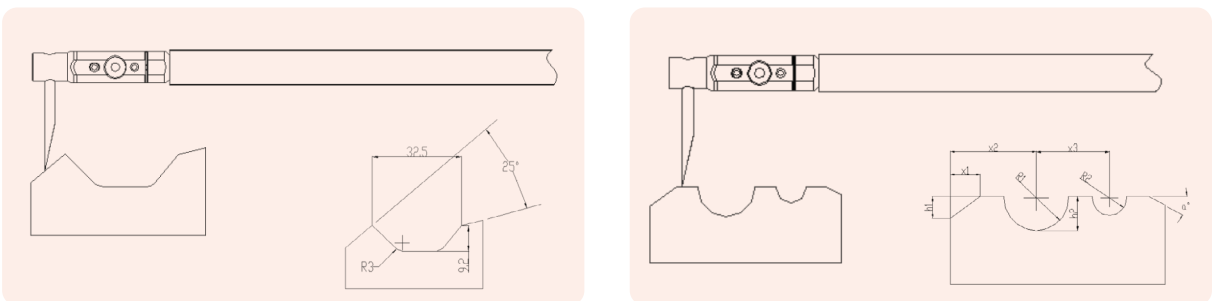


[Software]

[Functions]



[Example]





[Software Interface]

Scanning Settings:

Set measuring conditions, Inspection info and scanning positions.

Tool bar:

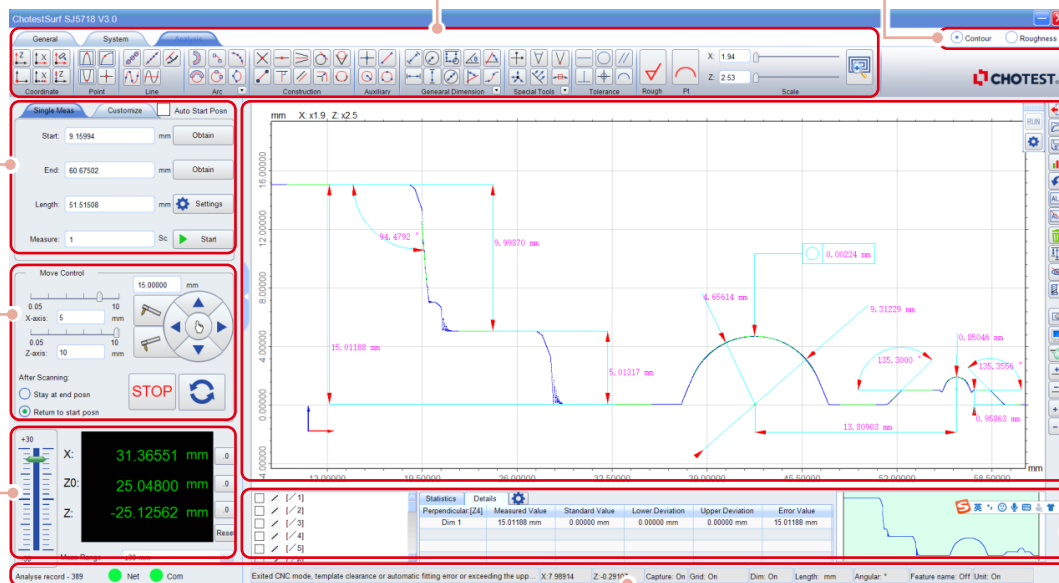
Extraction tools and Annotation tools.

Switch meas. function:

Switch between profile measurement and roughness measurement.

Scanning graph window:

Display the scanning graph and perform the analysis operation.



Motion control:

Control probe to move ▲, ▼, ►, ◀, and stop, reset.

Coordinate display:

Display the coordinates of current probe position.

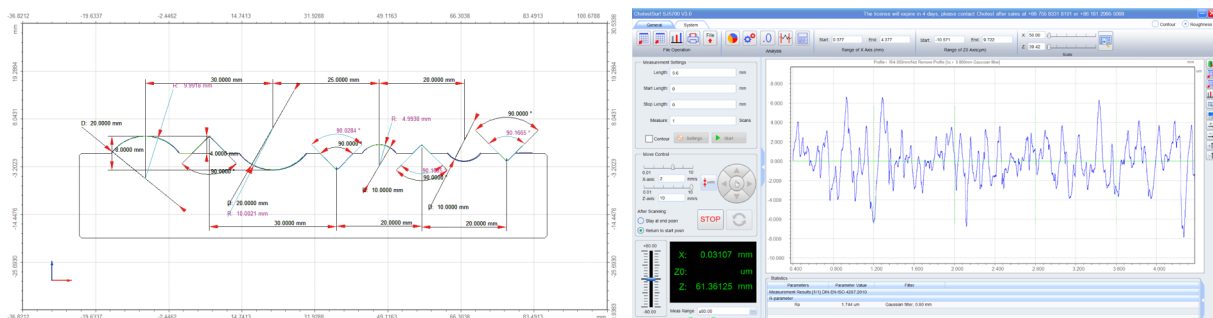
Status Bar:

Network, serial port, unit, operation tips, login time, user name, etc.

Analysis data:

List features, measured data and tolerance.

[Measurement Interface]



Profile measurement

Roughness measurement

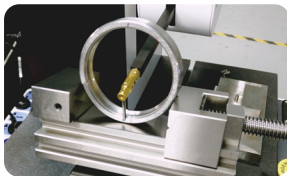




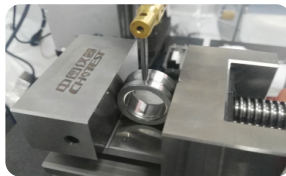
[Roughness Parameters]

Parameter classification	Parameters
Roughness	Ra, Rq, Rz, Rmax, Rpc, Rz-JIS, Rt, Rp, Rv, R3z, Rsm, Rs, Rsk, Rku, Rdq, Rlq, Rdc, RHSC, Rmr, Rz-L, Rp-L, R3z-L, Rdc-L, RMr-L, Pdc-L, PMr-L
Key roughness	Rk, Rpk, Rvk, Rpkx, Rvkx, Mr1, Mr2, A1, A2, Vo
Profile	Pa, Pq, Pt, Pp, Pv, Psm, Psk, Pku, Pdq, Plq, Pdc, PHSC, Ppc, PMr
Waviness of Profile	Wa, Wq, Wt, Wp, Wv, WSm, Wsk, Wku, Wdg, Wdc, WMr
Motif	R, Ar, W, Aw, Rx, Wx, Wte, Nr, Ncrx, Nw, Cpm, CR, CF, CL
ISO 5436	Pt, D

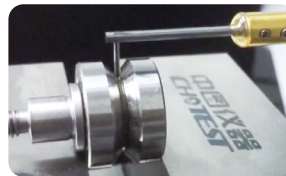
[Application]



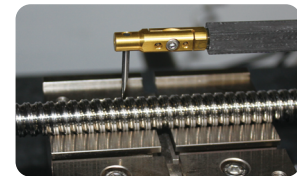
Bearing measurement



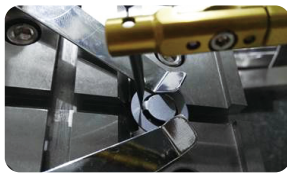
Bearing measurement



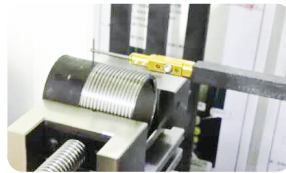
Auto parts measurement



Screw rod measurement



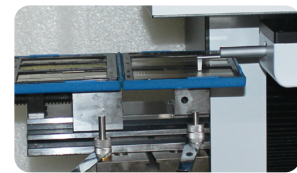
Stamping part measurement



Thread workpiece measurement



Machining part measurement



Roughness specimen measurement



Railway parts measurement



Engine cylinder measurement



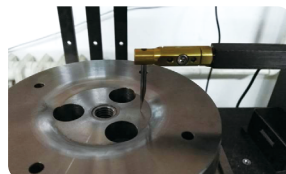
Custom bearing measurement



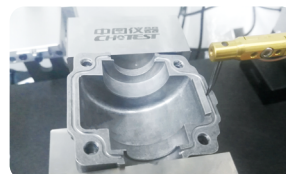
Die casting measurement



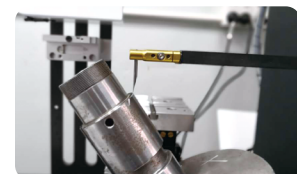
NPT thread measurement



Auto wheel measurement



Die casting measurement



Gearbox part measurement





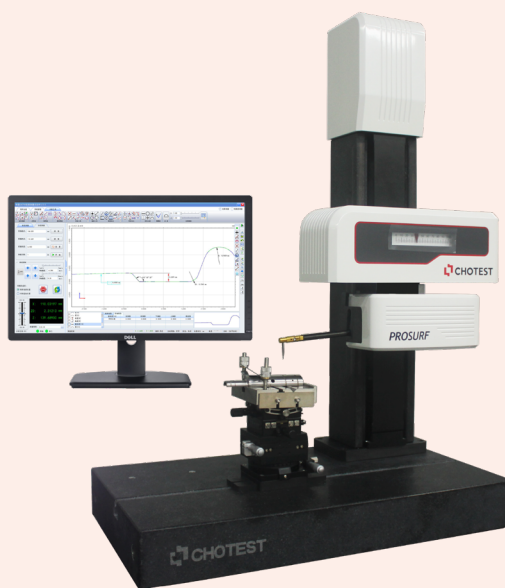
[Technical Parameters]

Model No.	SJ5701	SJ5760
Profile Measurement		
X Axis	Range: 0~200mm, Resolution: 0.01μm Indication error: ±(0.6+1.5L/100)μm Moving speed: 0~10mm/s Straightness: 0.4μm/100mm	Range: 0~200mm, Resolution: 0.01μm Indication error: ±(0.6+1.5L/100)μm Moving speed: 0~10mm/s Straightness: 0.5μm/100mm
Z1 Axis	Range: ±25mm Indication error: ±(0.6+ 4H /100)μm Resolution: 0.01μm	
Z Axis	Range: 0~450mm, Moving speed: 0~10mm/s	
Scanning Force	10~150mN	
Max Slope	Uphill 77°, downhill 88°	
Scanning Speed	0.05-5mm/s	
Power Supply	AC100~240V, 50/60Hz, 350W	
Size and Weight	Marble base: 800x450x100mm Overall: 850x450x1000mm Weight: 150kg	
Operating Environment	No strong magnetic field, no vibration, no corrosive gas Operating temperature: 20 ± 2°C, Relative humidity: 10-70%RH	
Roughness Measurement		
Range	X axis: 0~200mm Z0: ±400μm	X axis: 0~200mm Z0: ±80μm, ±40μm, ±20μm
Straightness Error	≤0.15μm/20mm, ≤0.4μm/100mm	≤0.3μm/20mm, ≤0.5μm/100mm
Indication Error	±(0.005+0.025A)μm, A(Ra)μm	±(0.01+0.05A)μm, A(Ra)μm
Resolution	Z0: 0.001μm(±400μm) Measurement residual: ≤0.005μm	Z0: 0.004μm(±80μm), Z0: 0.002μm(±40μm), Z0: 0.001μm(±20μm) Measurement residual: ≤0.01μm
Scanning Speed	0.05mm/s~0.5mm/s adjustable	
Probe	Long-arm probe(Height<7mm) 1pc, Pin radius 2μm, Static measuring force 1~2mN	Standard probe(Height<8mm) 1pc, Pin radius 2μm, Static measuring force 0.75mN
Column	Range: (0-450)mm	
Filter	2RC filtering, Gaussian filtering and Zero phase filtering Filter band can be selected or set at will Support to select filter type and sampling length automatically according to the standard	



Small Profilometer SJ5718

○ Compact, Accurate, Economic ○

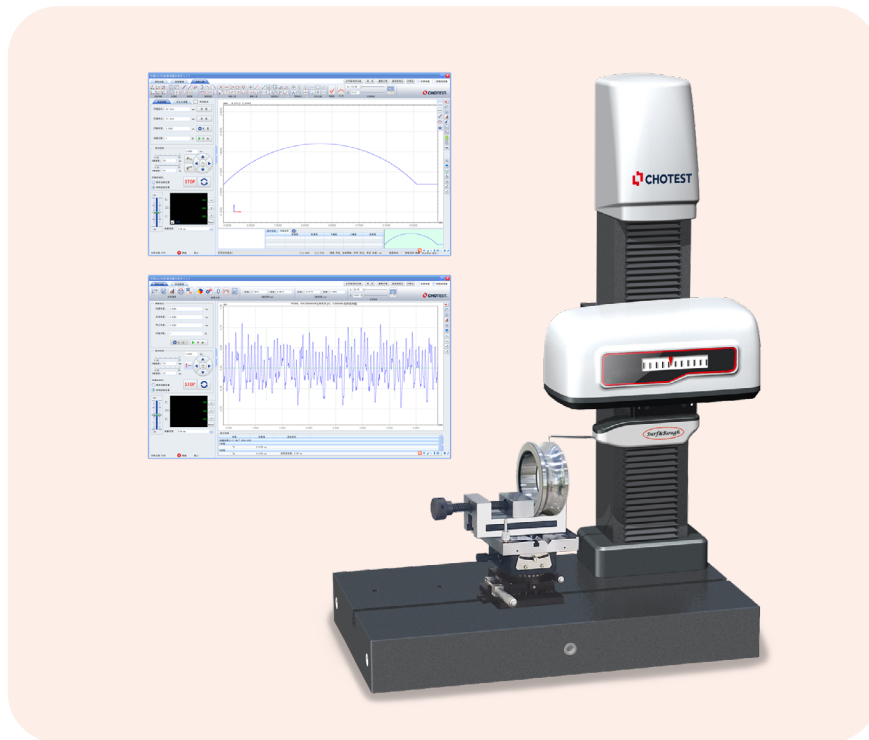


[Technical Parameters]

Model No.	SJ5718
X Axis	Range: 0~100mm, Resolution: 0.1 μ m Indication error: $\pm(0.6+2L/100)\mu$ m, L is horizontal measured length in mm Moving speed: 0~10mm/s Straightness: 0.5 μ m/100mm
Z1 Axis	Range: ± 30 mm Indication error: $\pm(0.6+ 5H /100)\mu$ m, H is horizontal measured height in mm Resolution: 0.1 μ m
Z Axis	Range: 0~300mm, Moving speed: 0~10mm/s
Scanning Force	30mN
Max Slope	Uphill 77°, downhill 88°
Scanning Speed	(0.05-5)mm/s
Power Supply	AC100~240V, 50/60Hz, 350W
Size and Weight	Marble base: 600x350x100mm Overall: 600x350x850mm Weight: 95kg
Operating Environment	No strong magnetic field, no vibration, no corrosive gas Operating temperature: 20 \pm 2°C Relative humidity: 10-70%RH

Profilometer SJ5730

- Once Scanning for both Profile and Roughness ○



[Roughness Parameters]

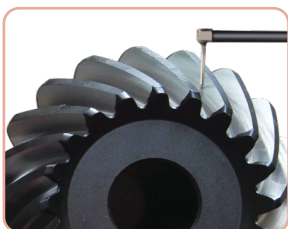
Parameter classification	Parameters
Contour Evaluation	P(Original profile), R(Surface roughness profile), W(Waviness)
Evaluation Parameters	Ra, Rp, Rv, Rz, Rt, Rmax, Rq, Rsk, Rku, RSm, RPc, Rdq, Rdc, Rmr, Motif, RCore, P, W
Filter Type	2RC filtering, Gaussian filtering and Zero phase filtering
Cut-off Wavelength λ_c	0.008, 0.025, 0.08, 0.25, 0.8, 2.5, 8mm selectable
λ_s	0.25, 0.8, 2.5, 8, 25um selectable
Shape Error	Aspheric shape error measurement, straight line shape error measurement, cambered shape error measurement
Standard/Norm	DIN EN ISO 4287:2010, ASME B46.1-2002, JIS B 0601:2013, GB/T 3505-2009, ISO 4287:1997, ISO 13565-2:1996, ISO 1302:2002



[Typical Application]



Pt, Ra of bearing raceway



Ra of gear tooth surface



Ra of blade surface



Ra&Profile of screw rod

[Technical Parameters]

Model No.	SJ5730
X Axis	Range: 0~100mm, Resolution: 1nm Straightness: 0.2 μ m/50mm, 0.3 μ m/100mm Moving speed: 0~10mm/s
Z1 Axis	Range: \pm 7mm(Standard measuring arm L85mm) Range: \pm 8mm(Optional measuring arm L95mm) Range: \pm 10mm(Optional measuring arm L110mm) Resolution: 0.1nm
Z Axis	Range: 0~300mm, Moving speed: 0~10mm/s
Profile Measurement Accuracy	Angle: \leq 1' Z1: $\leq \pm(0.5+ 6H /100)\mu$ m, H is horizontal measured height in mm Standard arc Pt accuracy: $\leq \pm 0.3\mu$ m Standard sphere: $\leq \pm(1+R/20)\mu$ m
Roughness Measurement Accuracy	Roughness measuring range: Ra0.05 μ m~Ra12.5 μ m Ra: $\leq \pm(4nm+2.0\%A)$ (A is nominal Ra value) Repeatability: 1 $\delta \leq$ 1nm (0.1-0.2 μ m square wave roughness specimen, standard stage block) Measurement residual: $\leq 0.003\mu$ m
Scanning Force	3~4mN
Max Slope	Uphill 77°, downhill 88°
Scanning Speed	0.05~5mm/s
Power Supply	AC100~240V, 50/60Hz, 350W
Size and Weight	Marble base: (600x350x100)mm Overall: (600x350x850)mm Weight: 95kg
Operating Environment	No strong magnetic field, no vibration, no corrosive gas Operating temperature: 20 \pm 2°C Relative humidity: 10-70%RH

