

# ROUGHNESS TESTERS



NEW

## SURFACE ROUGHNESS TESTERS

### SR160, SR300 AND SR400

The SR160 is the latest to join a line of unique equipment to compliment the SR300 and SR400. Starrett surface roughness testing equipment is simple, accurate and of high quality. These units are tough, shock tested, and capable of withstanding the demands of a shop environment. Our surface roughness testers meet the increasing requirements across industries like safety, aerospace, automotive, precision bearings, and general manufacturing.



SR300/SR400

CASE AMPS, HARDNESS AND SURFACE TESTERS

#### Surface Roughness Testers

Cat. No.	EDP	Description
SR160	72584	SR160 display with 5mm traverse unit, pick-up, diamond stylus, calibration standards, manual, carrying case, and international power adaptors.
SR300	21000	SR300 display with 17.5mm traverse unit, TalyProfile Lite software, pick-up, diamond stylus, calibration standard, manual and carrying case.
SR400	21001	SR400 display with 25mm traverse unit, TalyProfile Lite software, pick-up, diamond stylus, calibration standard, manual and carrying case.

#### Accessories - SR160

Cat. No.	EDP	Description
SR-112-3188	72667	Magnetic base
SR-112-4545	20220	USB charger
SR-112-5085	72666	Hard transport case
SR-112-2937	20968	Extra reference standard

#### Accessories - SR300 and SR400

Cat. No.	EDP	Description
SR-112-1534	20962	Reference standard
SR-112-2693	20964	Column and stand
SR-112-4545	20220	USB charger
SR-112-1517	20963	Support stand
SR-112-4570	20998	USB thermal printer
SR-112-4571	20999	Thermal paper
SR-112-1645	73033	Pair of 115mm (5.85") vee blocks
SR-112-2694	73036	Precision vise
SR-112-2695	73037	Ball joint vise

#### Software

Cat. No.	EDP	Description
SR-112-3680	20952	TalyProfile Gold - 2D analysis
SR-112-3681	20953	TalyProfile Silver - 2D analysis

#### Parameters

Cat. No.	EDP	Description
SR-112-4607	73038	AN-10 ISO 13565 automotive parameters for S116
SR-112-4608	73039	AN-11 statistics module for S116
SR-112-4609	73040	AN-12 ISO primary parameter set for S116

#### Pick-Ups

Cat. No.	EDP	Description
SR-112-1510	20961	7.875" (200mm) extension rod with lead
SR-112-1502	20956	Standard pick-up with 200µin (5µm) stylus
SR-112-1503	20957	Standard pick-up with 400µin (10µm) stylus
SR-115-P28495	21004	Small bore pick-up
SR-112-1505	20959	Right angle pick-up
SR-112-1506	20960	Recess pick-up
SR-112-1524UB	73028	Pick-up with chisel edge stylus
SR-112-1525	73029	Pick-up lift mechanism
SR-112-1531UB	73030	Pick-up with slide skid
SR-112-1599UB	73032	Pick-up with shoe
SR-112-2672UB	73034	Recess pick-up (2µm, 80µin, tip radius)
SR-112-2673UB	73035	Small bore pick-up (2µm, 80µin, tip radius); SR-112-4701 is preferred
SR-112-4707	73041	O-Ring pick-up
SR-112-4708	73042	25mm recess pick-up
SR-112-4709	73043	15mm recess pick-up
SR-12-4710	73044	O-Ring pick-up narrow
SR-112-4712	73046	O-Ring pick-up; deep 25mm
SR-112-4713	73047	O-Ring pick-up; deep 25mm with 2µm tip
SR-112-4714	73048	Flat skid pick-up
SR-112-4715	73049	Standard 112/1502 pick-up with 2.5µm tip
SR-112-4716	73050	Side skid pick-up 112/1531 with 2µm tip

All accessories listed above are available for order. Please contact your local Starrett representative for additional or special requirements.



SR160

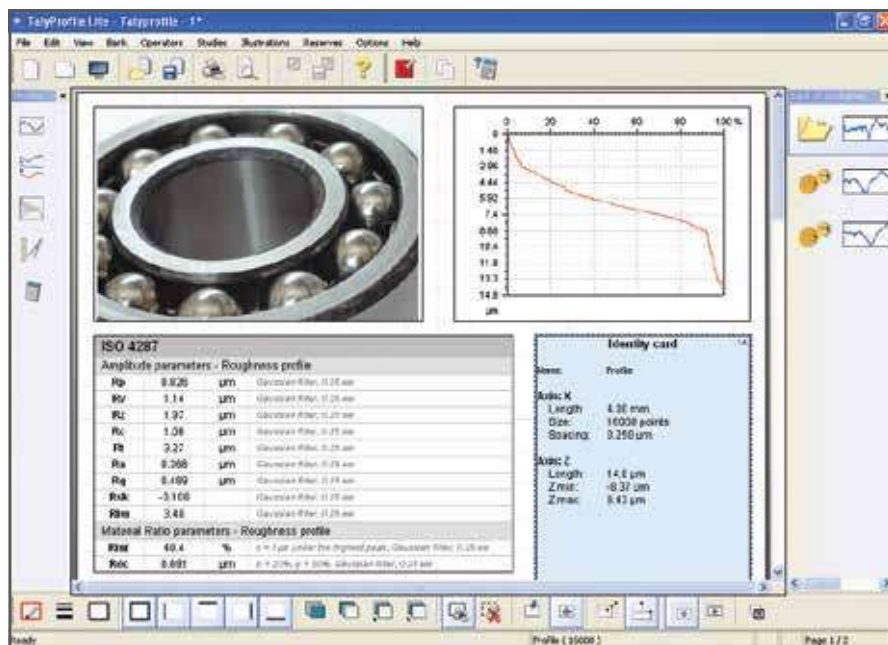


# ROUGHNESS TESTERS

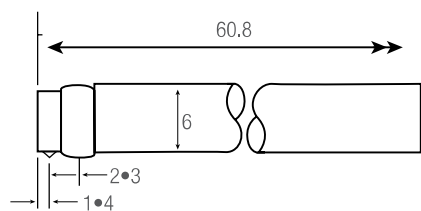
## TALYPROFILE

### ADVANCED SURFACE FINISH ANALYSIS

TalyProfile is a dedicated PC based software package designed for use with the SR300 and SR400 instruments. Three versions are available. TalyProfile "Lite" has all functions typically used for a shopfloor inspection. TalyProfile "Silver" has enhanced features for R&W parameters, a statistics module and full report printing. TalyProfile "Gold" has complete laboratory analysis functions.

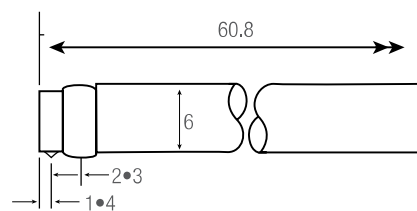


TalyProfile	Lite	Silver	Gold
Surtronic S-series acquisition	x	x	x
Desktop publishing templates	x	x	x
Multi-language support	x	x	x
EN, FR, DE, ES, IT, PL, CN, KR	x	x	x
Leveling	x	x	x
Symmetries	x	x	x
Zoom	x	x	x
ISO 4287	x	x	x
Material Ratio Curve	x	x	x
Area of a hole/peak	x	x	x
Profile parameters and curves	x	x	x
Roughness and waviness curves	x	x	x
Distance measurement	x	x	x
Multiple file format reports		x	x
Report printing		x	x
Form Talysurf data import		x	x
Tolerance limits (pass/fail)		x	x
Data file explorer		x	x
ISO 13565 Automotive		x	x
Interactive Mr curve		x	x
Step height measurement		x	x
Form removal			x
Filtering by FFT			x
Thresholding			x
Frequency spectrum			x
Power spectrum density			x
Retouch profile point			x
Rk parameters			x
Rk parameters curves			x
ISO 12085 R&W motifs			x



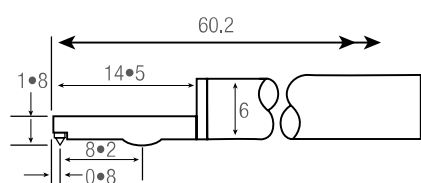
#### Standard Pick-Up

for general surface roughness measurement  
Code SR-112-1502 (5µm tip radius)  
Code SR-112-1503 (10µm tip radius)



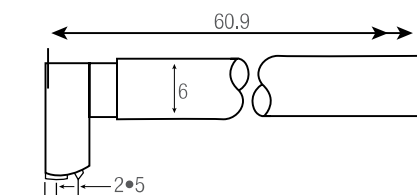
#### Right Angle Pick-Up

for measurement at right angles to the direction of traverse  
Code SR-112-1505



#### Small Bore Pick-Up

for general use in small bores, grooves and on narrow surfaces  
Code SR-155-P28495



#### Recess Pick-Up

for measuring into deep recess  
Code SR-112-1506 recess 5.7mm (0.23")

### TALYPROFILE PARAMETERS

Roughness parameters obtained by filtering:  
Ra, Rq, Rt, Rp, Ry, Rku, Rsk, RSm, Rz, RΔq, RTp, RHTp, Rlo, RPC, RzJIS, R3z

Parameters on the raw profile (unfiltered): Pa, Pq, Pt, Pp, Pv, Pku, Psk, PSm, Pz, PΔq, PTp, PHTp, PLo, PPc

Parameters obtained by double filtering (DIN 4776): Rk, Rpk, Rvk, MR1, MR2, A1, A2, Rpk,

Parameters obtained by the motifs method ("R&W"): R, AR, Pt, Rx, SR, SAR, Nr, Kr, W, AW, Wte, Wx, SW, SAW, Nw, Kw, Rke, Rpkc, Rvke, Trc, HTrc

\* Only with gold or silver versions

