

**Manufacturers Suggested International Retail Price  
NT-MDT SPM accessories of 18 December 2008  
(Cantilevers, Test samples, HOPG, SNOM probes)**

**NEW! High Accuracy ETALON probes - HA\_NC series,**  
each chip has 2 rectangular polysilicon levers with sharp silicon tip (typical 10nm),  
Au reflective coating,  
resonant frequency 120/200 kHz / force constant 3.4 / 5.8N/m with typical dispersion  $\pm 20\%$ .

P/N	ITEM	PRICE, Euro	Price, USD
HA_NC/400	400 separated chips	3120	4524
HA_NC/300	300 separated chips	2790	4045.5
HA_NC/200	200 separated chips	2250	3262.5
HA_NC/100	100 separated chips	1200	1740
HA_NC/50	50 separated chips	750	1087.5
HA_NC/15	15 separated chips	260	377

**NONCONTACT "Golden" silicon cantilevers - NSG01, NSG10, NSG03, NSG30 series,**  
each chip includes 1 rectangular spring,  
typical curvature radius is 6 nm, Au reflective coating \*

P/N	ITEM	PRICE, Euro	Price, USD
NSG01W, NSG10W, NSG03W, NSG30W	Nonseparated wafer, minimum 410 chips	4080	5916
NSG01/400, NSG10/400, NSG03/400, NSG30/400	400 separated chips	4420	6409
NSG01/300, NSG10/300, NSG03/300, NSG30/300	300 separated chips	3570	5176.5
NSG01/200, NSG10/200, NSG03/200, NSG30/200	200 separated chips	2550	3697.5
NSG01/100, NSG10/100, NSG03/100, NSG30/100	100 separated chips	1360	1972
NSG01/50, NSG10/50, NSG03/50, NSG30/50	50 separated chips	850	1232.5
NSG01/15, NSG10/15, NSG03/15, NSG30/15	15 separated chips	300	435

**Force Modulation "Golden" silicon cantilevers - FMG01 series,**  
each chip includes 1 rectangular spring,  
typical curvature radius is 6 nm, Au reflective coating \*  
typical resonant frequency is 60kHz, typical force constant is 3N/m;

P/N	ITEM	PRICE, Euro	Price, USD
FMG01W	Nonseparated wafer, minimum 410 chips	4080	5916
FMG01/400	400 separated chips	4420	6409
FMG01/300	300 separated chips	3570	5176.5
FMG01/200	200 separated chips	2550	3697.5
FMG01/100	100 separated chips	1360	1972
FMG01/50	50 separated chips	850	1232.5
FMG01/15	15 separated chips	300	435

**CONTACT "Golden" silicon cantilevers - CSG10, CSG01 series,**  
each chip includes 1 rectangular spring,  
typical curvature radius is 6 nm, Au reflective coating \*

P/N	ITEM	PRICE, Euro	Price, USD
CSG10W, CSG01W	Nonseparated wafer, minimum 410 chips	4080	5916
CSG10/400, CSG01/400	400 separated chips	4420	6409
CSG10/300, CSG01/300	300 separated chips	3570	5176.5
CSG10/200, CSG01/200	200 separated chips	2550	3697.5
CSG10/100, CSG01/100	100 separated chips	1360	1972
CSG10/50, CSG01/50	50 separated chips	850	1232.5
CSG10/15, CSG01/15	15 separated chips	300	435

\* - for ordering cantilevers without reflective coating, please, add '/bare' after series name as it's in example: **NSG01/bare/15**  
The price is the same as for cantilevers with Au reflective coating.

**TIPLESS contact and noncontact "Golden" silicon cantilevers,**  
CSG01, CSG10, NSG01, NSG10, NSG03, NSG30, FMG01 series  
Au reflective coating

P/N	ITEM	PRICE, Euro	Price, USD
-----	------	-------------	------------

CSG01/tipless CSG10/tipless NSG01/tipless NSG10/tipless NSG03/tipless NSG30/tipless FMG01/tipless	Nonseparated wafer, minimum 410 chips	4080	5916
	400 separated chips	4420	6409
	300 separated chips	3570	5176.5
	200 separated chips	2550	3697.5
	100 separated chips	1360	1972
	50 separated chips	850	1232.5
	15 separated chips	300	435

**CONDUCTIVE contact and noncontact "Golden" silicon cantilevers,**  
**CSG01, CSG10, NSG01, NSG10, NSG03, NSG30, FMG01 series**  
with **TiN, Au, Pt** conductive coatings,  
*thickness of conductive coatings is 20-30nm*

P/N	ITEM	PRICE, Euro	Price, USD
CSG01/Pt, TiN, Au CSG10/Pt, TiN, Au NSG01/Pt, TiN, Au NSG10/Pt, TiN, Au NSG03/Pt, TiN, Au NSG30/Pt, TiN, Au FMG01/Pt, TiN, Au	Nonseparated wafer, minimum 410 chips	4560	6612
	400 separated chips	4940	7163
	300 separated chips	3990	5785.5
	200 separated chips	2850	4132.5
	100 separated chips	1520	2204
	50 separated chips	950	1377.5
	15 separated chips	360	522

**MAGNETIC "Golden" silicon cantilevers,**  
cantilevers **NSG01, FMG01 series with Co/Cr magnetic coatings,**  
*thickness of the coating is 30-40 nm*

P/N	ITEM	PRICE, Euro	Price, USD
<b>NSG01/Co/50, FMG01/Co/50</b>	50 separated chips	1370	1986.5
<b>NSG01/Co/15, FMG01/Co/15</b>	15 separated chips	480	696

**SUPER SHARP Diamond-Like Carbon (DLC) tips**  
*typical curvature radius 1-3nm, grown on the cantilevers NSG01, NSG10 series*  
*(by request can be grown on other silicon cantilever series)*

P/N	ITEM	PRICE, Euro	Price, USD
<b>NSG01_DLC/50, NSG10_DLC/50</b>	50 separated chips	2500	3625
<b>NSG01_DLC/10, NSG10_DLC/10</b>	10 separated chips	600	870

**CONTACT and NONCONTACT "Whisker type" silicon cantilevers**  
**NSC05, CSC05 series**  
*(each chip includes 1 rectangular spring, angle at the top less than 10 degrees,*  
*typical curvature radius less than 10 nm, Au reflective coating)*

P/N	ITEM	PRICE, Euro	Price, USD
<b>NSC05/15, CSC05/15</b>	15 separated chips	1000	1450
<b>NSC05/10, CSC05/10</b>	10 separated chips	750	1087.5
<b>NSC05/5, CSC05/5</b>	5 separated chips	400	580

**Probes for Nanoeducator**

P/N	ITEM	PRICE, Euro	Price, USD
<b>WT105Ed</b>	Set of 7 probes and set of samples for NanoEducator	597	865.7

**Substrates**

P/N	ITEM	PRICE, Euro	Price, USD
<b>SU001</b>	Set of 10 substrates of polycrystalline sapphire	239	346
<b>SU002</b>	Substrate of polycrystalline sapphire with holder for large samples up to 40x40mm.	30	43
<b>SU015</b>	Universal sample holder with contact spring for STM and Spreading Resistance modes.	82	119
<b>Mica/15x15</b>	Mica, Squares, 0.15 mm (0.006") thickness, size 15 mm x 15 mm (Pkg of 20)	275	399
<b>Mica/dia.9,5</b>	Mica, Disks, 0.15 mm (0.006") thickness, size 9.5 mm diameter (Pkg of 20)	320	464
<b>MD001</b>	10 steel sample holders (dia.10mm, thickness 0,5mm)	35	51

**STM accessories**

P/N	ITEM	PRICE, Euro	Price, USD
<b>WTSTM1</b>	Toolkit for STM (scissors, tweezers, 10 cm of Pt-Ir wire)	143	207.35
<b>SHP01Ed</b>	Special probe etching device	746	1081.7
<b>STM/Pt_10</b>	Pt-Ir 80/20 wire, dia. 0,5mm, 10cm	60	87
<b>STM/W_50</b>	Tungsten wire, dia. 0,15mm, 50cm	10	14.5
<b>SU015</b>	Universal sample holder with contact spring for STM and Spreading Resistance modes.	82	118.9

TDG01/Au	Diffraction grating for submicron calibration SPM in the X or Y direction, Au reflective coating, period 278nm	300	435
----------	--	-----	-----

**Calibration gratings and Test samples**

P/N	ITEM	PRICE, Euro	Price, USD
DNA01	Linear DNA molecules (3000 b. p.) deposited onto freshly cleaved mica. Molecule density – 0,5-7 molec./um <sup>2</sup>	150	217.5
TDG01	Diffraction grating for submicron calibration SPM in the X or Y direction, period 278nm	200	290
SNG01	Test grating for Scanning Near field Optical Microscope	200	290
TGZ1	Linear silicon gratings for Z calibration (height: TGZ1 - 19±1 nm)	100	145
TGZ2	Linear silicon gratings for Z calibration (height: TGZ2 - 104±1,5 nm)	100	145
TGZ3	Linear silicon gratings for Z calibration (height: TGZ3 - 540±2 nm)	100	145
TGG1	Silicon triangular grating	200	290
TGT1	Silicon tip grating	300	435
TGX1	Silicon square grating with negative angles	200	290
TGS1	Set of 3 linear silicon gratings for Z calibration (3 different heights: TGZ1 - 19±1 nm, TGZ2 - 104±1,5nm, TGZ3 - 540±2 nm);	200	290
TGS2	Microscope grating set (TGG1, TGX1, TGT1, TGS1)	500	725
TGQ1	Silicon square grating for simultaneous calibration in X,Y and Z direction	300	435
TGSFull	Microscope grating set (TGG1, TGX1, TGT1, TGS1, TGQ1, TDG01)	850	1232.5
STEPP	Silicon calibration sample with naturally step height 3,14nm.	100	145

**(HOPG) Highly Oriented Pyrolytic Graphite / Size each 10x10 mm<sup>2</sup>**

Pieces with other sizes are available:

for ZYA and ZYB quality till 12x12mm<sup>2</sup>, for ZYH quality till 50x50mm<sup>2</sup>.

P/N	ITEM	PRICE, Euro	Price, USD
<b>Mosaic Spread: 0.4 +/- 0.1 degree (ZYA Quality)</b>			
GRAS/1,5	Nominal thickness 1,5	137.5	199.38
GRAS/1,2	Nominal thickness 1,2±0,2	106.25	154.06
<b>Mosaic Spread: 0.8 +/- 0.2 degree (ZYB Quality)</b>			
GRBS/2,0	Nominal thickness 2,0	62.5	90.63
GRBS/1,7	Nominal thickness 1,7±0,2	52.5	76.13
GRBS/1,2	Nominal thickness 1,2±0,2	37.5	54.38
<b>Mosaic Spread: 3.5 +/- 1.5 degree (ZYH Quality)</b>			
GRHS/2,0	Nominal thickness 2,0	37.5	54.38
GRHS/1,7	Nominal thickness 1,7±0,2	30	43.50
GRHS/1,2	Nominal thickness 1,2±0,2	22.5	32.63

**SNOM probes**

P/N	ITEM	PRICE, Euro	Price, USD
MF001	SNOM probes (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	900	1305
MF002	SNOM probes (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	900	1305
MF003	SNOM probes (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 600-680 nm).	900	1305
MF004	SNOM probes (10 probes, aperture: less than 100nm, fiber diameter 120um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 780-1050 nm).	900	1305
MF005	SNOM probes (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	900	1305
MF012	SNOM probes with glued quartz tuning-forks for Solver line systems with measuring heads SNC100, SNC080, SNLG100, SNLG080 (10 probes, aperture: less than 100nm, fiber diameter 90 um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	1000	1450
MF013	SNOM probes with glued quartz tuning-forks for Solver line systems with measuring heads SNC100, SNC080, SNLG100, SNLG080 (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 600-680 nm).	1000	1450
MF014	SNOM probes with glued quartz tuning-forks for Solver line systems with measuring heads SNC100, SNC080, SNLG100, SNLG080 (10 probes, aperture: less than 100nm, fiber diameter 120um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 780-1050 nm).	1000	1450

<b>MF012_NTF</b>	SNOM probes with glued quartz tuning-fork for NTEGRA line systems with measuring head SNLG100NTF (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	1170	1697
<b>MF013_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems NTEGRA line systems with measuring head SNLG100NTF (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 600-680 nm).	1170	1697
<b>MF014_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG100NTF (10 probes, aperture: less than 100nm, fiber diameter 120um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 780-1050 nm).	1170	1697
<b>MF112_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101 (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	1170	1697
<b>MF113_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101 (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 600-680 nm).	1170	1697
<b>MF114_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101 (10 probes, aperture: less than 100nm, fiber diameter 120um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 780-1050 nm).	1170	1697
<b>MF112L_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101 with liquid cells MP5LCNTF and MP4LCNTF (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 480-550 nm).	1170	1697
<b>MF113L_NTF</b>	SNOM probes with glued quartz tuning-forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101 with liquid cells MP5LCNTF and MP4LCNTF (10 probes, aperture: less than 100nm, fiber diameter 90um, probe length 2m, probe tip coated by Al - 7-8mm, transmitted wavelength 600-680 nm).	1170	1697

**Tuning forks for SNOM probes**

P/N	ITEM	PRICE, Euro	
<b>TF001/10</b>	Set of 10 tuning forks for Solver line systems with measuring heads SNC100, SNC080, SNLG100, SNLG080 .	125	181
<b>TF001_NTF/10</b>	Set of 10 tuning forks for NTEGRA line systems with measuring head SNLG100NTF.	250	363
<b>TF101_NTF/10</b>	Set of 10 tuning forks for NTEGRA line systems with measuring head SNLG101NTF and Solver line systems with measuring head SNLG101.	250	363

**Cantilever sets**

P/N	ITEM	PRICE, Euro	Price, USD
<b>BIOSET-200</b>	AFM probe sets: 50 chips - for contact AFM; 100 chips - for noncontact modes; 50 chips - contact AFM for liquid	3500	5075
<b>MSSET/200</b>	AFM probe sets: 50 chips - for contact AFM; 100 chips - for noncontact modes; 20 chips - for spreading resistance; 25 chips - for SKM/SCM; 5 chips - for MFM	3075	4459
<b>POLYSET/160</b>	AFM AFM probe sets: 50 chips - for contact AFM; 100 chips - for noncontact modes; 5 chips - for SRI/SKM/SCM; 5 chips - for MFM	2475	3589
<b>POLYSET/155</b>	AFM probe sets: 50 chips - for contact AFM; 100 chips - for noncontact modes; 5 chips - for MFM	2400	3480
<b>SEMISSET/200</b>	AFM probe sets: 50 chips - for contact AFM; 100 chips - for noncontact modes; 20 chips - for spreading resistance; 20 chips - for SKM/SCM; 5 chips - for MFM; 5 chips NSC05 "Whisker type" for deep trenches measurements	3400	4930
<b>BIOSET - 50</b>	AFM probe sets: 10 chips - for contact AFM; 30 chips - noncontact modes; 10 chips - for contact AFM for liquid	1100	1595

<b>MSSET/50</b>	AFM probe sets: 10 chips - for contact AFM; 25 chips - for noncontact modes; 5 chips - for spreading resistance; 5 chips - for SKM/SCM; 5 chips - for MFM	1050	1523
<b>POLYSET/50</b>	AFM probe sets: 10 chips - for contact AFM; 30 chips - for noncontact modes; 5 chips - for SRI/SKM/SCM; 5 chips - for MFM	1050	1523
<b>POLYSET/45</b>	AFM probe sets: 10 chips - for contact AFM; 30 chips - for noncontact modes; 5 chips - for MFM	950	1378
<b>SEMISET/47</b>	AFM probe sets: 10 chips - for contact AFM; 20 chips - for noncontact modes; 5 chips - for spreading resistance; 5 chips - for SKM/SCM; 5 chips - for MFM; 2 chips NSC05 "Whisker type" for deep trenches measurements	1210	1755