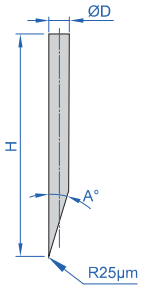
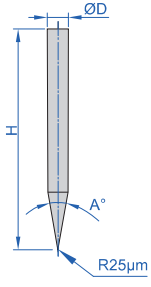
STYLI AND ARMS FOR ROUGHNESS/PROFILE MEASURING MACHINES



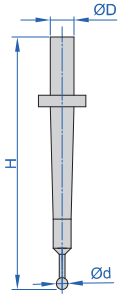
chisel stylus

code: **SPM-T□-□-□**



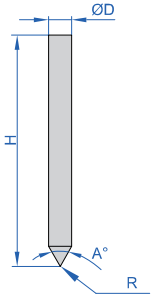
cone stylus (profile)

code: **SPM-Z□-□-□**



ball stylus

code: **SPM-R□-□-□**



cone stylus (roughness)

code: **SPM-S□-□-□-□**

SPECIFICATION:

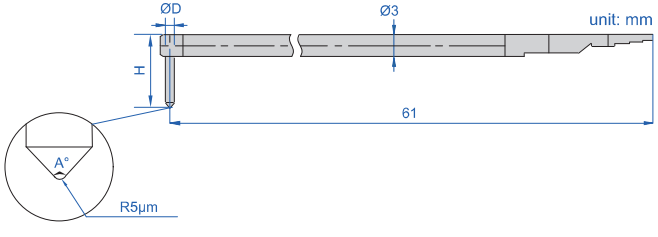
SPM-T□-□-□
height (H)
diameter (D)
angle (A)

SPM-Z□-□-□
height (H)
diameter (D)
angle (A)

SPM-R□-□-□
height (H)
diameter (D)
Ball diameter (d)

SPM-S□-□-□-□
height (H)
diameter (D)
stylus tip radius (R)
angle (A)

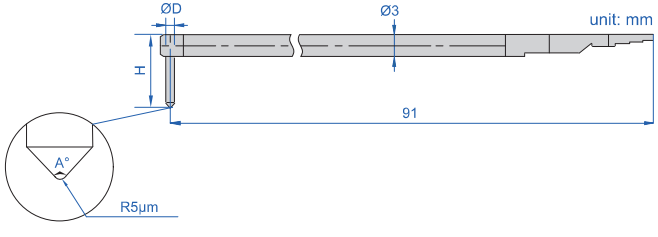
standard roughness arm, stylus is included



Code	H(mm)	ØD(mm)	A(°)	R(μm)
SPM-4000-P	12	1	90	5
SPM-4000-P1	12	1	60	2
SPM-4000-P2	12	1.2	90	5
SPM-4000-P3	0.8	0.3	90	5

Note: replace the full probe arm unit during stylus replacement

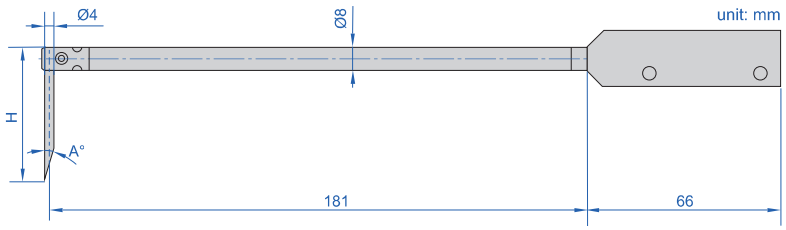
extended roughness arm, stylus is included



Code	H(mm)	ØD(mm)	A(°)	R(μm)
SPM-4000-PL	12	1	90	5
SPM-4000-PL1	12	1	60	2
SPM-4000-PL2	12	1.2	90	5
SPM-4000-PL3	0.8	0.3	90	5

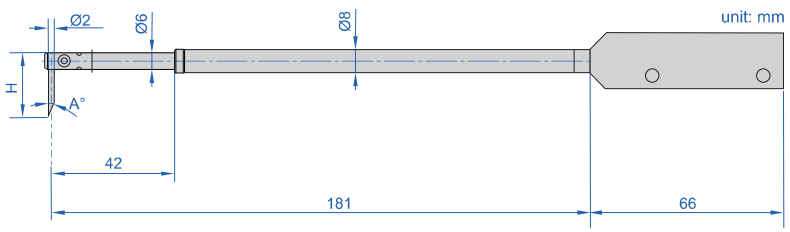
Note: replace the full probe arm unit during stylus replacement

standard arm, code **SPM-1000-SP** (stylus not included), with stylus optional



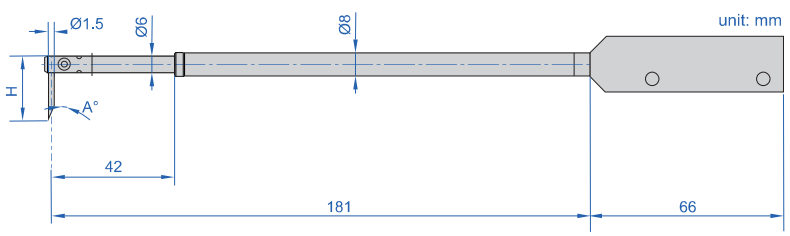
Stylus code				H(mm)
SPM-T24-4-17	SPM-T24-4-12	SPM-Z24-4-26	SPM-R24-4-2	24
SPM-T32-4-17	SPM-T32-4-12	SPM-Z32-4-26	SPM-R32-4-2	32
SPM-T48-4-17	SPM-T48-4-12	SPM-Z48-4-26	SPM-R48-4-2	48
SPM-T68-4-17	SPM-T68-4-12	SPM-Z68-4-26	SPM-R68-4-2	68

standard stepped arm, code **SPM-1000-SA** (stylus not included), with stylus optional



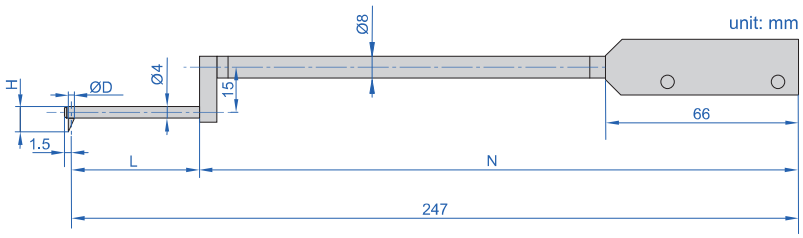
Stylus code			H(mm)
SPM-T18-2-17	SPM-T18-2-12	SPM-Z18-2-26	18
SPM-T24-2-17	SPM-T24-2-12	SPM-Z24-2-26	24
SPM-T30-2-17	SPM-T30-2-12	SPM-Z30-2-26	30
SPM-T50-2-17	SPM-T50-2-12	SPM-Z50-2-26	50
SPM-T60-2-17	SPM-T60-2-12	SPM-Z60-2-26	60
SPM-R22-2-2	/	/	22
SPM-R32-2-2	/	/	32

standard stepped arm, code **SPM-1000-SA1** (stylus not included), with stylus optional



Stylus code			H(mm)
SPM-T8-1D5-17	SPM-T8-1D5-12	SPM-Z8-1D5-26	8
SPM-T12-1D5-17	SPM-T12-1D5-12	SPM-Z12-1D5-26	12
SPM-T18-1D5-17	SPM-T18-1D5-12	SPM-Z18-1D5-26	18
SPM-T30-1D5-17	SPM-T30-1D5-12	SPM-Z30-1D5-26	30

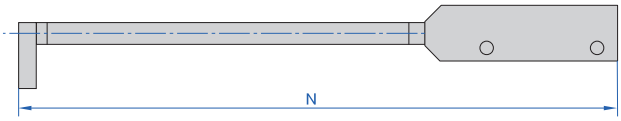
probe for small holes (N-arm + L-stylus rod), optional N-arm and L-stylus rod



N-arm code	N-arm(mm)	L-stylus rod(mm)
SPM-1000-SBP-N	202	45
SPM-1000-SBP-N1	192	55
SPM-1000-SBP-N2	182	65

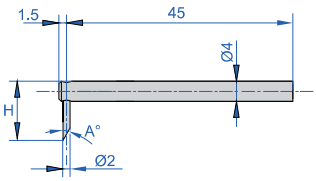
Note: The total length of the N-arm and the L-stylus rod must be 247 mm

N-arm



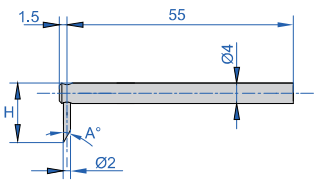
L-stylus rod (straight rod), included stylus

unit: mm



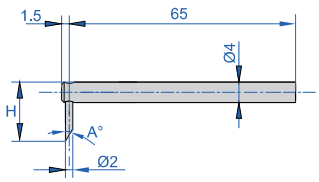
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-T8-2-17-45	8	chisel stylus
SPM-T8-2-12-45	8	chisel stylus
SPM-Z8-2-26-45	8	cone stylus (profile)



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-T10-2-17-55	10	chisel stylus
SPM-T10-2-12-55	10	chisel stylus
SPM-Z10-2-26-55	10	cone stylus (profile)

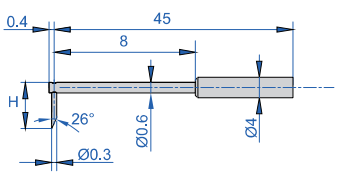


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-T12-2-17-65	12	chisel stylus
SPM-T12-2-12-65	12	chisel stylus
SPM-Z12-2-26-65	12	cone stylus (profile)

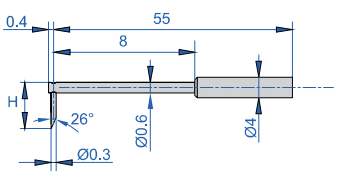
L-stylus rod (stepped rod), included stylus

unit: mm



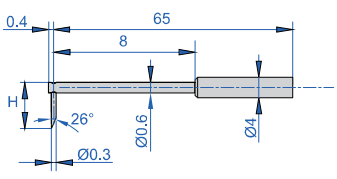
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-Z1D5-D3-26-45	1.5	cone stylus (profile)



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-Z1D5-D3-26-55	1.5	cone stylus (profile)

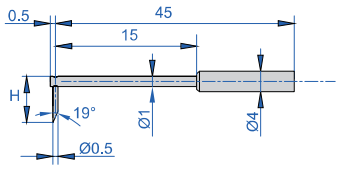


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-Z1D5-D3-26-65	1.5	cone stylus (profile)

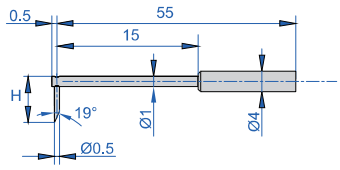
L-stylus rod (stepped rod), included stylus

unit: mm



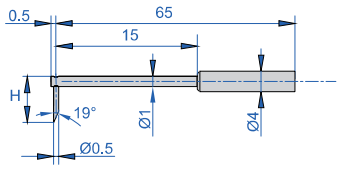
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-T3-D5-19-45	3	chisel stylus



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-T3-D5-19-55	3	chisel stylus

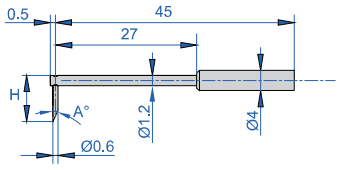


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-T3-D5-19-65	3	chisel stylus

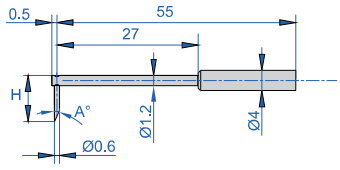
L-stylus rod (stepped rod), included stylus

unit: mm



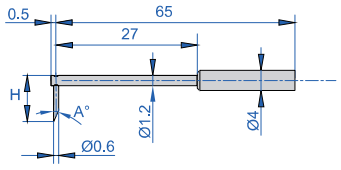
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-T2-D6-19-45	2	chisel stylus



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-T5-D6-19-55	5	chisel stylus
SPM-T5-D6-17-55	5	chisel stylus

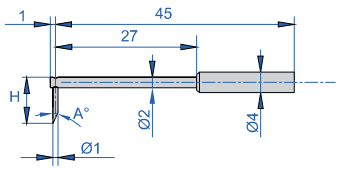


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-T8-D6-19-65	8	chisel stylus
SPM-T8-D6-17-65	8	chisel stylus
SPM-Z8-D6-26-65	8	cone stylus (profile)

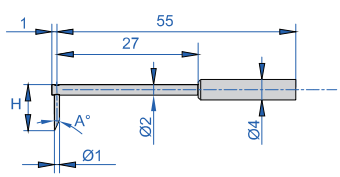
L-stylus rod (stepped rod), included stylus

unit: mm



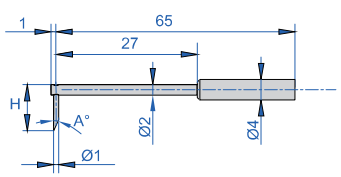
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-Z4-1-26-45	4	cone stylus (profile)



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-T8-1-17-55	8	chisel stylus

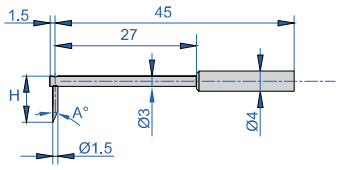


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-T8-1-12-65	8	chisel stylus

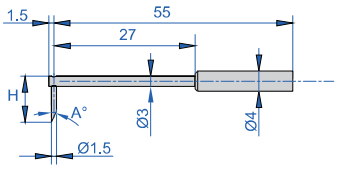
L-stylus rod (stepped rod), included stylus

unit: mm



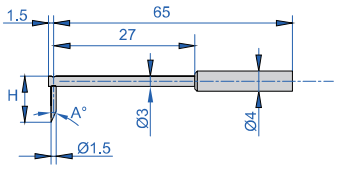
must be used with **SPM-1000-SBP-N**

Code	H(mm)	Stylus type
SPM-T8-1D5-17-45	8	chisel stylus



must be used with **SPM-1000-SBP-N1**

Code	H(mm)	Stylus type
SPM-T8-1D5-12-55	8	chisel stylus

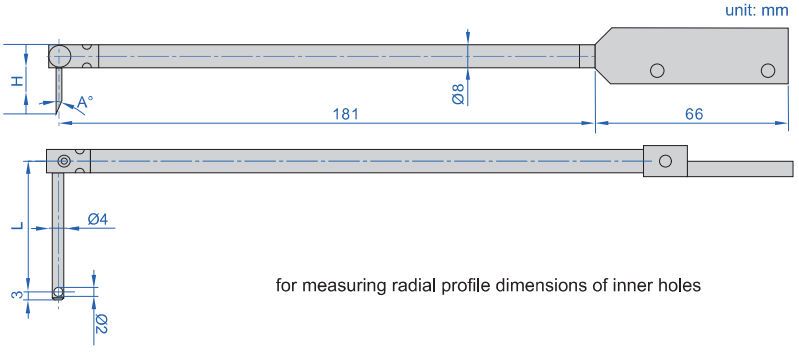


must be used with **SPM-1000-SBP-N2**

Code	H(mm)	Stylus type
SPM-Z8-1D5-26-65	8	cone stylus (profile)

transverse probe (arm + L- stylus rod), arm code **SPM-1000-LP-N** (L- stylus rod not included), optional L-rod

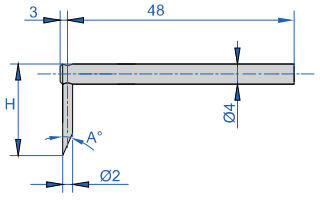
unit: mm



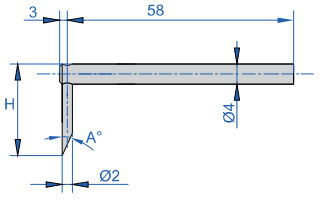
for measuring radial profile dimensions of inner holes

L-stylus rod (straight rod), included stylus

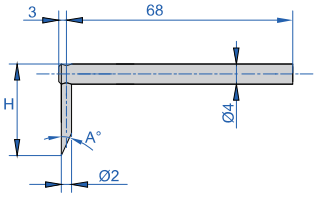
unit: mm



Code	H(mm)	Stylus type
SPM-T18-2-17-48	18	chisel stylus
SPM-T18-2-12-48	18	chisel stylus
SPM-Z18-2-26-48	18	cone stylus (profile)



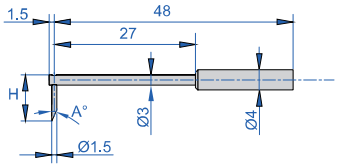
Code	H(mm)	Stylus type
SPM-T24-2-17-58	24	chisel stylus
SPM-T24-2-12-58	24	chisel stylus
SPM-Z24-2-26-58	24	cone stylus (profile)



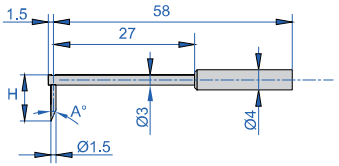
Code	H(mm)	Stylus type
SPM-T30-2-17-68	30	chisel stylus
SPM-T30-2-12-68	30	chisel stylus
SPM-Z30-2-26-68	30	cone stylus (profile)
SPM-T50-2-17-68	50	chisel stylus
SPM-T50-2-12-68	50	chisel stylus
SPM-Z50-2-26-68	50	cone stylus (profile)

L-stylus rod (stepped rod), included stylus

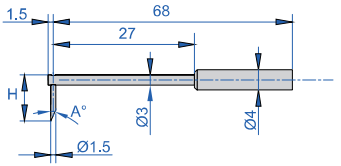
unit: mm



Code	H(mm)	Stylus type
SPM-T8-1D5-17-48	8	chisel stylus
SPM-T8-1D5-12-48	8	chisel stylus
SPM-Z8-1D5-26-48	8	cone stylus (profile)



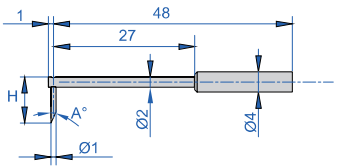
Code	H(mm)	Stylus type
SPM-T12-1D5-17-58	12	chisel stylus
SPM-T12-1D5-12-58	12	chisel stylus
SPM-Z12-1D5-26-58	12	cone stylus (profile)



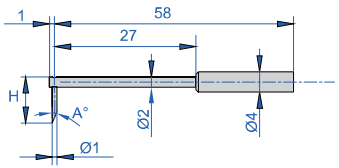
Code	H(mm)	Stylus type
SPM-T18-1D5-17-68	18	chisel stylus
SPM-T18-1D5-12-68	18	chisel stylus
SPM-Z18-1D5-26-68	18	cone stylus (profile)
SPM-T30-1D5-17-68	30	chisel stylus
SPM-T30-1D5-12-68	30	chisel stylus
SPM-Z30-1D5-26-68	30	cone stylus (profile)

L-stylus rod (stepped rod), included stylus

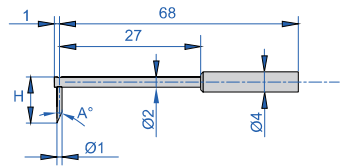
unit: mm



Code	H(mm)	Stylus type
SPM-T8-1-17-48	8	chisel stylus
SPM-T8-1-12-48	8	chisel stylus
SPM-Z8-1-26-48	8	cone stylus (profile)

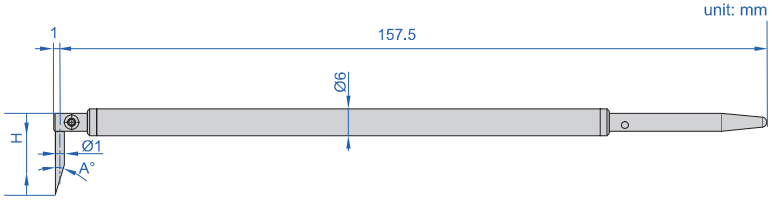


Code	H(mm)	Stylus type
SPM-T16-1-17-58	16	chisel stylus
SPM-T16-1-12-58	16	chisel stylus
SPM-Z16-1-26-58	16	cone stylus (profile)



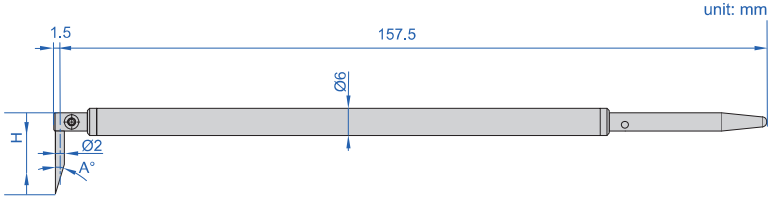
Code	H(mm)	Stylus type
SPM-T18-1-17-68	18	chisel stylus
SPM-T18-1-12-68	18	chisel stylus
SPM-Z18-1-26-68	18	cone stylus (profile)

standard quick-release arm, code **SPM-5000-P1** (stylus not included), with stylus optional



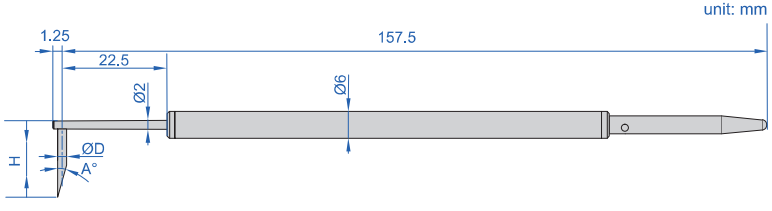
Stylus code			H(mm)
SPM-T12-1-17	SPM-T12-1-12	SPM-Z12-1-26	12
SPM-T15-1-17	SPM-T15-1-12	SPM-Z15-1-26	15
SPM-T18-1-17	SPM-T18-1-12	SPM-Z18-1-26	18
SPM-S12-1-90-R5	SPM-S12-1-60-R2	/	12

standard quick-release arm, code **SPM-5000-P2** (stylus not included), with stylus optional



Stylus code			H(mm)
SPM-T18-2-17	SPM-T18-2-12	SPM-Z18-2-26	18

small bore quick-release arm, stylus included



Code	H(mm)	ØD(mm)	A(°)	Stylus type
SPM-5000-PS1	5	1	17	chisel stylus
SPM-5000-PS2	5	1	12	chisel stylus
SPM-5000-PS3	5	1	26	cone stylus (profile)

Note: replace the full probe arm unit during stylus replacement