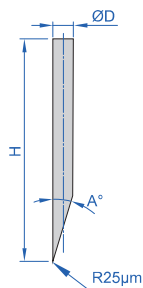
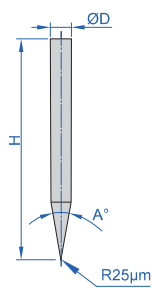


## STYLI AND RODS FOR ROUGHNESS/PROFILE MEASURING MACHINES



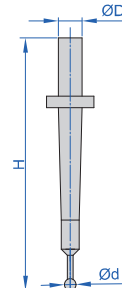
chisel stylus

code: **SPM-T**□-□-□



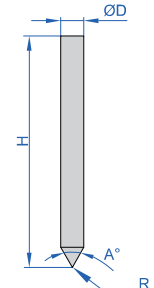
cone stylus (profile)

code: **SPM-Z**□-□-□



ball stylus

code: **SPM-R**□-□-□



cone stylus (roughness)

code: **SPM-S**□-□-□

### SPECIFICATION:

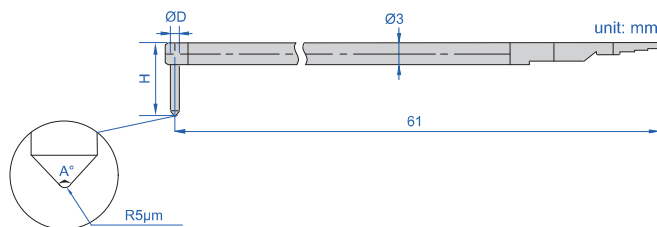
**SPM-T**□-□-□  
height (H) ————— angle (A)  
diameter (D) —————

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

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

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

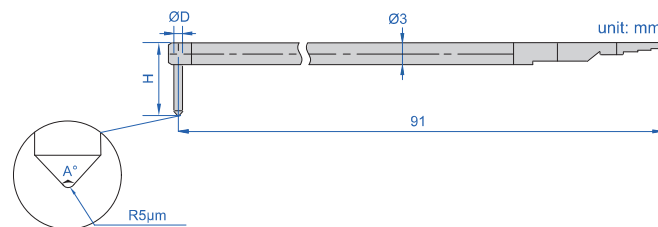
standard roughness quick-release rod, stylus is included



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

Note: replace the full stylus-rod unit during stylus replacement

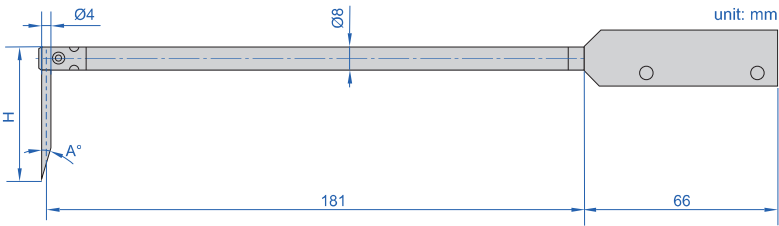
extended quick-release rod for roughness measurement, stylus is included



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

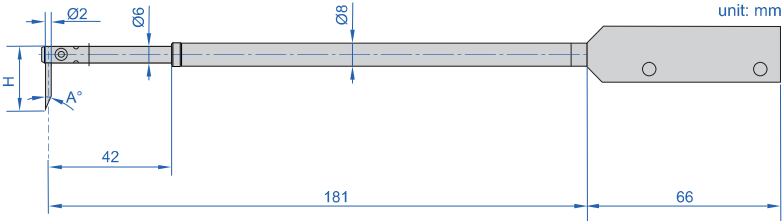
Note: replace the full stylus-rod unit during stylus replacement

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



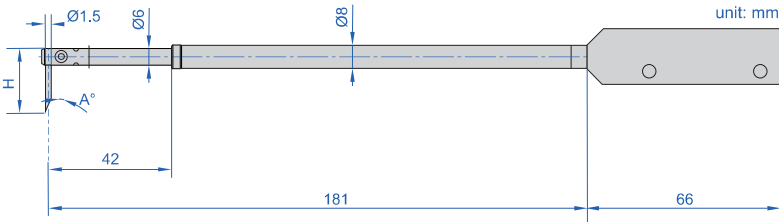
| Stylus code  |              |              |             | H(mm) |
|--------------|--------------|--------------|-------------|-------|
| SPM-T24-4-17 | SPM-T24-4-12 | SPM-Z24-4-26 | SPM-R24-4-2 | 24    |
| SPM-T32-4-17 | SPM-T32-4-12 | SPM-Z32-4-26 | SPM-R32-4-2 | 32    |
| SPM-T48-4-17 | SPM-T48-4-12 | 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 stylus rod, 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 stylus rod, code **SPM-1000-SA1** (stylus not included), with stylus optional

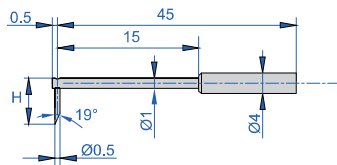


| Stylus code    |                |                | H(mm) |
|----------------|----------------|----------------|-------|
| SPM-T8-1D5-17  | SPM-T8-1D5-12  | SPM-Z8-1D5-26  | 8     |
| SPM-T12-1D5-17 | SPM-T12-1D5-12 | SPM-Z12-1D5-26 | 12    |
| SPM-T18-1D5-17 | SPM-T18-1D5-12 | SPM-Z18-1D5-26 | 18 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



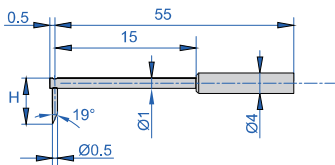
L-stylus rod (stepped rod), included stylus

unit: mm



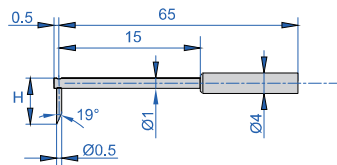
must be used with **SPM-1000-SBP-N**

| 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 |

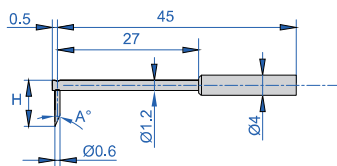


must be used with **SPM-1000-SBP-N2**

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

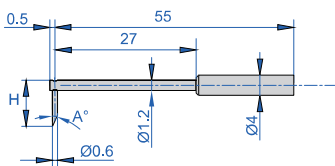
L-stylus rod (stepped rod), included stylus

unit: mm



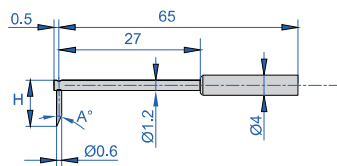
must be used with **SPM-1000-SBP-N**

| 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 |

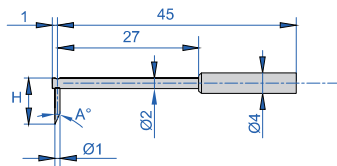


must be used with **SPM-1000-SBP-N2**

| 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) |

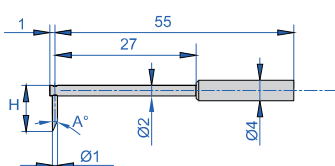
L-stylus rod (stepped rod), included stylus

unit: mm



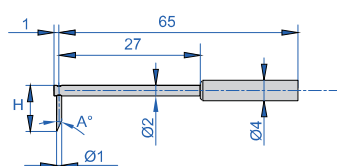
must be used with **SPM-1000-SBP-N**

| 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 |

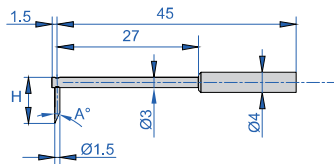


must be used with **SPM-1000-SBP-N2**

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

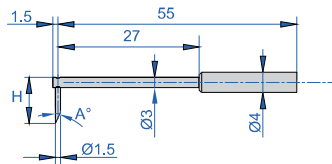
# L-stylus rod (stepped rod), included stylus

unit: mm



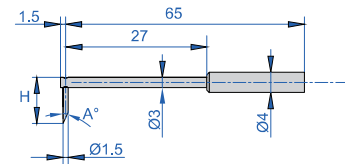
must be used with **SPM-1000-SBP-N**

| Code                    | H(mm) | Stylus type   |
|-------------------------|-------|---------------|
| <b>SPM-T8-1D5-17-45</b> | 8     | chisel stylus |



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

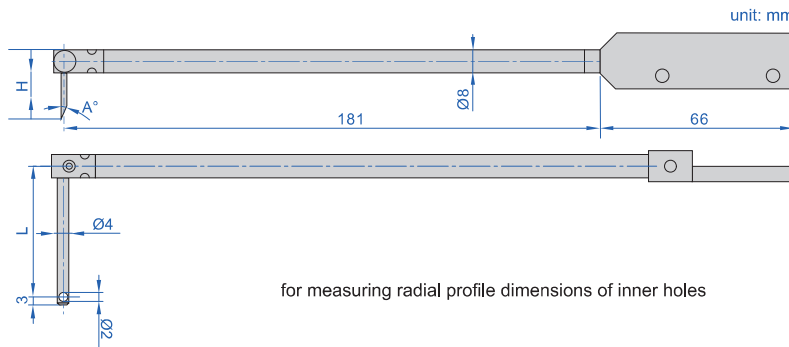
| Code                    | H(mm) | Stylus type   |
|-------------------------|-------|---------------|
| <b>SPM-T8-1D5-12-55</b> | 8     | chisel stylus |



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

| Code                    | H(mm) | Stylus type           |
|-------------------------|-------|-----------------------|
| <b>SPM-Z8-1D5-26-65</b> | 8     | cone stylus (profile) |

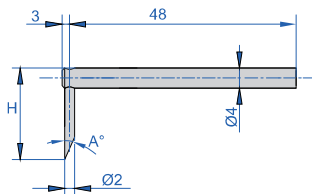
transverse probe (arm + L- stylus rod), arm code **SPM-1000-LP-N** (L- stylus rod not included), optional L-rod



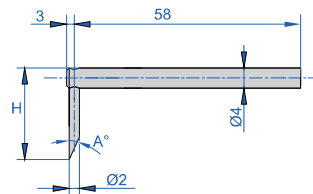
for measuring radial profile dimensions of inner holes

# L-stylus rod (straight rod), included stylus

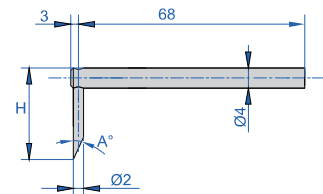
unit: mm



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



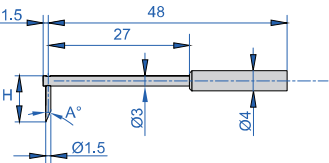
| Code                   | H(mm) | Stylus type           |
|------------------------|-------|-----------------------|
| <b>SPM-T24-2-17-58</b> | 24    | chisel stylus         |
| <b>SPM-T24-2-12-58</b> | 24    | chisel stylus         |
| <b>SPM-Z24-2-26-58</b> | 24    | cone stylus (profile) |



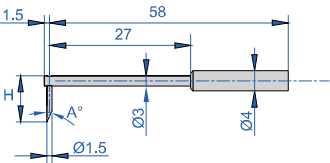
| Code                   | H(mm) | Stylus type           |
|------------------------|-------|-----------------------|
| <b>SPM-T30-2-17-68</b> | 30    | chisel stylus         |
| <b>SPM-T30-2-12-68</b> | 30    | chisel stylus         |
| <b>SPM-Z30-2-26-68</b> | 30    | cone stylus (profile) |
| <b>SPM-T50-2-17-68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

L-stylus rod (stepped rod), included stylus

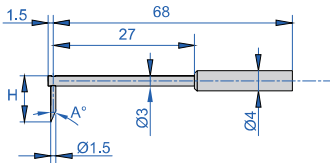
unit: mm



| 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) |



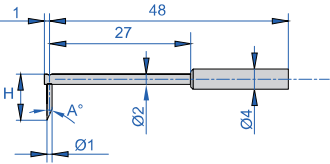
| Code              | H(mm) | Stylus type           |
|-------------------|-------|-----------------------|
| SPM-T12-1D5-17-58 | 12    | chisel stylus         |
| SPM-T12-1D5-12-58 | 12    | chisel stylus         |
| SPM-Z12-1D5-26-58 | 12    | cone stylus (profile) |



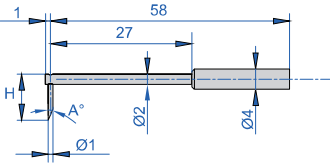
| Code              | H(mm) | Stylus type           |
|-------------------|-------|-----------------------|
| SPM-T18-1D5-17-68 | 18    | chisel stylus         |
| SPM-T18-1D5-12-68 | 18    | chisel stylus         |
| SPM-Z18-1D5-26-68 | 18    | cone stylus (profile) |
| SPM-T30-1D5-17-68 | 30    | chisel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

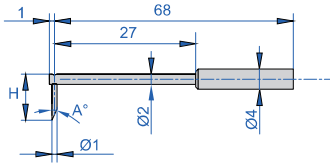
unit: mm



| 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) |

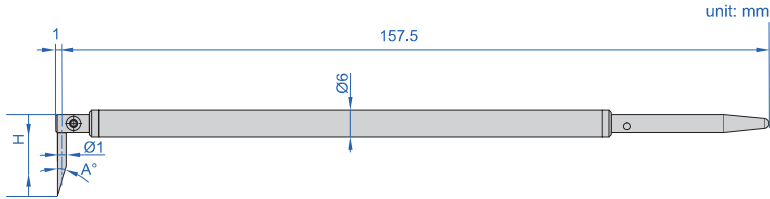


| Code            | H(mm) | Stylus type           |
|-----------------|-------|-----------------------|
| SPM-T16-1-17-58 | 16    | chisel stylus         |
| SPM-T16-1-12-58 | 16    | chisel stylus         |
| SPM-Z16-1-26-58 | 16    | cone stylus (profile) |



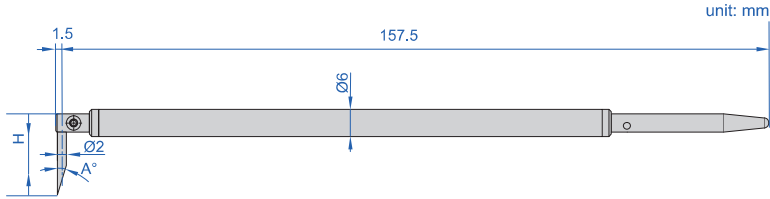
| Code            | H(mm) | Stylus type           |
|-----------------|-------|-----------------------|
| SPM-T18-1-17-68 | 18    | chisel stylus         |
| SPM-T18-1-12-68 | 18    | chisel stylus         |
| SPM-Z18-1-26-68 | 18    | cone stylus (profile) |

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



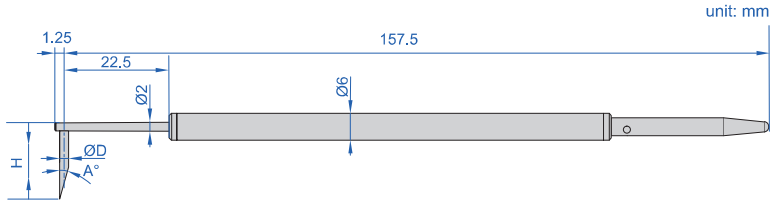
| Stylus code     |                 |              | H(mm) |
|-----------------|-----------------|--------------|-------|
| SPM-T12-1-17    | SPM-T12-1-12    | SPM-Z12-1-26 | 12    |
| SPM-T15-1-17    | SPM-T15-1-12    | SPM-Z15-1-26 | 15    |
| SPM-T18-1-17    | SPM-T18-1-12    | SPM-Z18-1-26 | 18 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

standard quick-release rod, 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    |

quick-release small bore rod, 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 stylus-rod unit during stylus replacement