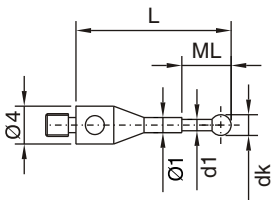
# M3 (Ø 4 mm)

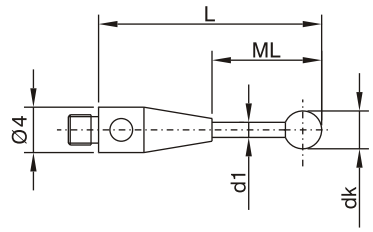
## M3 Thread Styli

### Styli (Type A)




| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 0.2-11-3 NTA | TC | Ruby | 0.4g | 0.2 | 0.15 | 11.0 | 1.5 |
| 0.25-11-3 NTA | TC | Ruby | 0.4g | 0.25 | 0.2 | 11.0 | 2.5 |
| 0.3-11-3 NTA | TC | Ruby | 0.4g | 0.3 | 0.2 | 11.0 | 2.5 |
| 0.4-11-3 NTA | TC | Ruby | 0.4g | 0.4 | 0.3 | 11.0 | 2.5 |
| 0.5-11-3 NTA | TC | Ruby | 0.4g | 0.5 | 0.3 | 11.0 | 2.5 |
| 0.6-11-3 NTA | TC | Ruby | 0.4g | 0.6 | 0.4 | 11.0 | 2.5 |
| 0.6-13-3 NTA | TC | Ruby | 0.4g | 0.6 | 0.4 | 13.0 | 4.5 |
| 0.7-11-3 NTA | TC | Ruby | 0.4g | 0.7 | 0.4 | 11.0 | 2.5 |
| 0.7-13-3 NTA | TC | Ruby | 0.4g | 0.7 | 0.4 | 13.0 | 4.5 |
| 0.8-11-3 NTA | TC | Ruby | 0.4g | 0.8 | 0.6 | 11.0 | 2.5 |
| 0.8-13-3 NTA | TC | Ruby | 0.4g | 0.8 | 0.6 | 13.0 | 4.5 |
| 0.9-11-3 NTA | TC | Ruby | 0.4g | 0.9 | 0.6 | 11.0 | 2.5 |
| 0.9-13-3 NTA | TC | Ruby | 0.4g | 0.9 | 0.6 | 13.0 | 4.5 |
| 1.0-11-3 NTA | TC | Ruby | 0.4g | 1.0 | 0.8 | 11.0 | 2.5 |
| 1.0-13-3 NTA | TC | Ruby | 0.4g | 1.0 | 0.8 | 13.0 | 4.5 |

### Styli (Type B)




| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 1.0-10.5-3 NTB | TC | Ruby | 0.7g | 1.0 | 0.7 | 10.5 | 4.5 |
| 1.0-15.5-3 NTB | TC | Ruby | 0.7g | 1.0 | 0.7 | 15.5 | 7.5 |
| 1.0-20.5-3 NTB | TC | Ruby | 0.7g | 1.0 | 0.7 | 20.5 | 12.5 |
| 1.0-30.5-3 NTB | TC | Ruby | 0.7g | 1.0 | 0.7 | 30.5 | 22.5 |
| 1.5-16-3 NTB | TC | Ruby | 0.6g | 1.5 | 0.7 | 16.0 | 8.0 |
| 1.5-21-3 NTB | TC | Ruby | 0.6g | 1.5 | 0.7 | 21.0 | 13.0 |
| 1.5-31-3 NTB | TC | Ruby | 1.0g | 1.5 | 1.0 | 31.0 | 23.0 |
| 2.0-16-3 NTB | TC | Ruby | 0.7g | 2.0 | 1.0 | 16.0 | 8.0 |
| 2.0-21-3 NTB | TC | Ruby | 0.7g | 2.0 | 1.0 | 21.0 | 13.0 |
| 2.0-26-3 NTB | TC | Ruby | 0.8g | 2.0 | 1.0 | 26.0 | 18.0 |
| 2.0-31-3 NTB | TC | Ruby | 0.9g | 2.0 | 1.0 | 31.0 | 23.0 |
| 2.0-36-3 NTB | TC | Ruby | 0.9g | 2.0 | 1.0 | 36.0 | 28.0 |
| 2.0-41-3 NTB | TC | Ruby | 1.0g | 2.0 | 1.0 | 41.0 | 33.0 |
| 2.5-16-3 NTB | TC | Ruby | 0.7g | 2.5 | 1.0 | 16.0 | 8.0 |
| 2.5-21-3 NTB | TC | Ruby | 0.7g | 2.5 | 1.0 | 21.0 | 13.0 |
| 2.5-31-3 NTB | TC | Ruby | 1.3g | 2.5 | 1.5 | 31.0 | 23.0 |
| 2.5-41-3 NTB | TC | Ruby | 1.5g | 2.5 | 1.5 | 41.0 | 33.0 |
| 3.0-21.5-3 NTB | TC | Ruby | 1.2g | 3.0 | 1.5 | 21.5 | 13.5 |
| 3.0-31.5-3 NTB | TC | Ruby | 1.4g | 3.0 | 1.5 | 31.5 | 23.5 |
| 3.0-36.5-3 NTB | TC | Ruby | 1.5g | 3.0 | 1.5 | 36.5 | 28.5 |
| 3.0-41.5-3 NTB | TC | Ruby | 1.6g | 3.0 | 1.5 | 41.5 | 33.5 |
| 3.0-46.5-3 NTB | TC | Ruby | 1.8g | 3.0 | 1.5 | 46.5 | 38.5 |
| 3.0-51.5-3 NTB | TC | Ruby | 1.9g | 3.0 | 1.5 | 51.5 | 43.5 |
| 4.0-22-3 NTB | TC | Ruby | 1.5g | 4.0 | 2.0 | 22.0 | 12.0 |
| 4.0-32-3 NTB | TC | Ruby | 1.9g | 4.0 | 2.0 | 32.0 | 22.0 |
| 4.0-37-3 NTB | TC | Ruby | 2.1g | 4.0 | 2.0 | 37.0 | 27.0 |
| 4.0-42-3 NTB | TC | Ruby | 2.4g | 4.0 | 2.0 | 42.0 | 32.0 |
| 4.0-47-3 NTB | TC | Ruby | 2.6g | 4.0 | 2.0 | 47.0 | 37.0 |
| 4.0-52-3 NTB | TC | Ruby | 2.8g | 4.0 | 2.0 | 52.0 | 42.0 |
| 5.0-22.5-3 NTB | TC | Ruby | 1.6g | 5.0 | 2.0 | 22.5 | 12.5 |
| 5.0-32.5-3 NTB | TC | Ruby | 2.0g | 5.0 | 2.0 | 32.5 | 22.5 |
| 5.0-37.5-3 NTB | TC | Ruby | 2.3g | 5.0 | 2.0 | 37.5 | 27.5 |
| 5.0-42.5-3 NTB | TC | Ruby | 2.5g | 5.0 | 2.0 | 42.5 | 32.5 |
| 5.0-47.5-3 NTB | TC | Ruby | 2.7g | 5.0 | 2.0 | 47.5 | 37.5 |
| 5.0-52.5-3 NTB | TC | Ruby | 2.9g | 5.0 | 2.0 | 52.5 | 42.5 |

TC = Tungsten Carbide

Styli Type B Contd. in Page 23.



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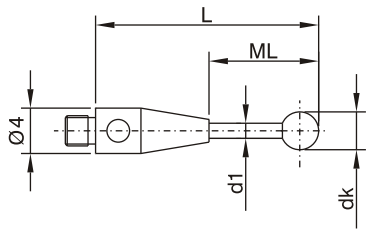
# M3 (Ø 4 mm)

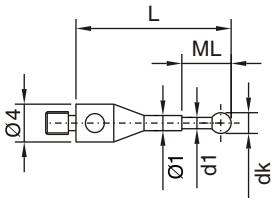
## M3 Thread Styli

### Styli (Type B)



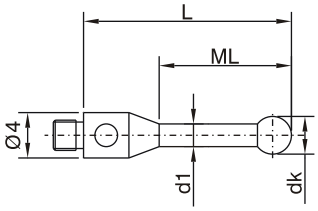

| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 6.0-23-3 NTB | TC | Ruby | 1.8g | 6.0 | 2.0 | 23.0 | 13.0 |
| 6.0-33-3 NTB | TC | Ruby | 2.2g | 6.0 | 2.0 | 33.0 | 23.0 |
| 6.0-38-3 NTB | TC | Ruby | 2.4g | 6.0 | 2.0 | 38.0 | 28.0 |
| 6.0-43-3 NTB | TC | Ruby | 2.7g | 6.0 | 2.0 | 43.0 | 33.0 |
| 6.0-48-3 NTB | TC | Ruby | 2.9g | 6.0 | 2.0 | 48.0 | 38.0 |
| 6.0-53-3 NTB | TC | Ruby | 3.1g | 6.0 | 2.0 | 53.0 | 43.0 |

### Styli (Type BS)



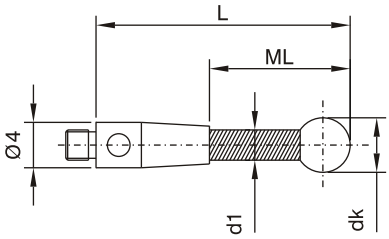

| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 0.5-21-3 NTBS | TC | Ruby | 1.0g | 0.5 | 0.3 | 21.0 | 2.5 |

### Styli (Type C)




| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 1.0-21.5-3 NTC | Steel | Ruby | 1.0g | 1.0 | 0.7 | 21.5 | 5.0 |
| 2.0-11-3 NTC | Steel | Ruby | 0.6g | 2.0 | 1.2 | 11.0 | 5.0 |
| 2.0-16-3 NTC | Steel | Ruby | 0.6g | 2.0 | 1.2 | 16.0 | 10.0 |
| 2.0-22-3 NTC | Steel | Ruby | 1.0g | 2.0 | 1.4 | 22.0 | 8.0 |
| 2.5-21-3 NTC | Steel | Ruby | 0.6g | 2.5 | 1.5 | 21.0 | 15.0 |
| 3.0-11.5-3 NTC | Steel | Ruby | 0.7g | 3.0 | 2.0 | 11.5 | 5.5 |
| 3.0-21.5-3 NTC | Steel | Ruby | 0.8g | 3.0 | 2.0 | 21.5 | 15.5 |
| 3.0-22.5-3 NTC | Steel | Ruby | 0.8g | 3.0 | 2.0 | 22.5 | 16.5 |
| 4.0-12-3 NTC | Steel | Ruby | 0.8g | 4.0 | 2.4 | 12.0 | 6.0 |
| 4.0-22-3 NTC | Steel | Ruby | 1.1g | 4.0 | 2.4 | 22.0 | 16.0 |
| 4.0-23-3 NTC | Steel | Ruby | 1.1g | 4.0 | 2.4 | 23.0 | 17.0 |
| 4.0-33-3 NTC | Steel | Ruby | 1.4g | 4.0 | 2.4 | 33.0 | 27.0 |
| 5.0-23.5-3 NTC | Steel | Ruby | 1.5g | 5.0 | 3.0 | 23.5 | 17.5 |
| 5.0-33.5-3 NTC | Steel | Ruby | 2.5g | 5.0 | 3.0 | 33.5 | 29.5 |
| 6.0-13-3 NTC | Steel | Ruby | 1.2g | 6.0 | 2.8 | 13.0 | 7.0 |
| 6.0-28-3 NTC | Steel | Ruby | 2.0g | 6.0 | 3.0 | 28.0 | 22.0 |

### Styli (Type K) Ceramic




| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 3.0-51.5-3 NTKE | Ceramic | Ruby | 1.2g | 3.0 | 2.0 | 51.5 | 41.5 |
| 4.0-32-3 NTKE | Ceramic | Ruby | 1.7g | 4.0 | 2.0 | 32.0 | 22.0 |
| 4.0-42-3 NTKE | Ceramic | Ruby | 1.8g | 4.0 | 2.0 | 42.0 | 32.0 |
| 4.0-52-3 NTKE | Ceramic | Ruby | 1.9g | 4.0 | 2.0 | 52.0 | 42.0 |
| 5.0-42.5-3 NTKE | Ceramic | Ruby | 2.2g | 5.0 | 3.0 | 42.5 | 32.5 |
| 5.0-52.5-3 NTKE | Ceramic | Ruby | 2.5g | 5.0 | 3.0 | 52.5 | 42.5 |
| 5.0-62.5-3 NTKE | Ceramic | Ruby | 2.7g | 5.0 | 3.0 | 62.5 | 52.5 |
| 6.0-43-3 NTKE | Ceramic | Ruby | 2.5g | 6.0 | 3.0 | 43.0 | 33.0 |
| 6.0-53-3 NTKE | Ceramic | Ruby | 2.7g | 6.0 | 3.0 | 53.0 | 43.0 |
| 6.0-63-3 NTKE | Ceramic | Ruby | 3.0g | 6.0 | 3.0 | 63.0 | 53.0 |

TC = Tungsten Carbide

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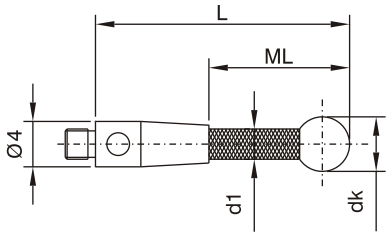
# M3 (Ø 4 mm)

M3 Thread Styli

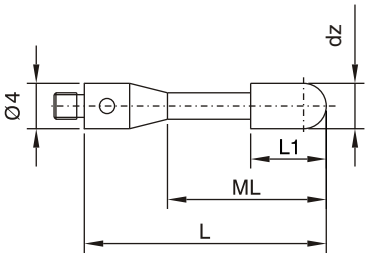
## Styli (Type CA) Carbon Fiber




| Order No. | Shaft | Ball | wt | dk mm | d1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 4.0-32-3 NTCA | CF | Ruby | 1.1g | 4.0 | 3.0 | 32.0 | 22.0 |
| 4.0-42-3 NTCA | CF | Ruby | 1.2g | 4.0 | 3.0 | 42.0 | 32.0 |
| 4.0-52-3 NTCA | CF | Ruby | 1.2g | 4.0 | 3.0 | 52.0 | 42.0 |
| 5.0-42.5-3 NTCA | CF | Ruby | 1.4g | 5.0 | 3.0 | 42.5 | 32.5 |
| 5.0-52.5-3 NTCA | CF | Ruby | 1.5g | 5.0 | 3.0 | 52.5 | 42.5 |
| 5.0-62.5-3 NTCA | CF | Ruby | 1.6g | 5.0 | 3.0 | 62.5 | 52.5 |
| 6.0-43-3 NTCA | CF | Ruby | 1.6g | 6.0 | 3.0 | 43.0 | 33.0 |
| 6.0-53-3 NTCA | CF | Ruby | 1.7g | 6.0 | 3.0 | 53.0 | 43.0 |
| 6.0-63-3 NTCA | CF | Ruby | 1.8g | 6.0 | 3.0 | 63.0 | 53.0 |
| 6.0-78-3 NTCA | CF | Ruby | 2.5g | 6.0 | 4.0 | 78.0 | 67.0 |
| 6.0-103-3 NTCA | CF | Ruby | 2.9g | 6.0 | 4.0 | 103.0 | 92.0 |

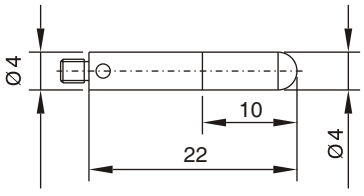
CF = Carbon Fiber

## Cylinder styli (Type A)




| Order No. | Shaft | Cylinder | wt | dz mm | L1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|
| 2.0-16-3 NZRA | Steel | Ruby | 0.7g | 2.0 | 5.0 | 16.0 | 8.0 |
| 3.0-22-3 NZRA | Steel | Ruby | 0.9g | 3.0 | 10.0 | 22.0 | 14.0 |

## Cylinder styli (Type B)




| Order No. | Shaft | Cylinder | wt |
|---|---|---|---|
| 4.0-22-3 NZRB | Steel | Ruby | 1.6g |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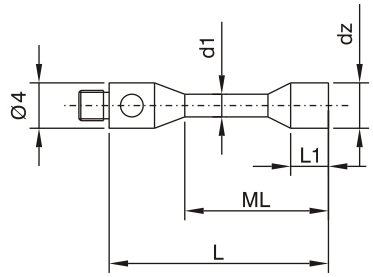
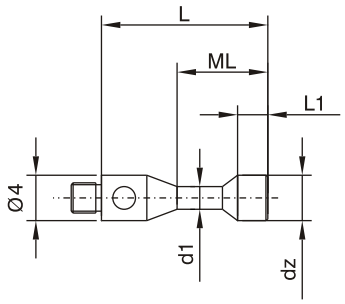
# *M3 (Ø 4 mm)*

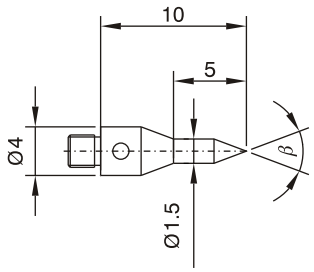
| M3 Thread Styli | Order No. | Shaft/ Cylinder | wt | dz mm | d1 mm | L1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|---|
| **Cylinder styli (Type H)** | 1.5-14-3 NZTH | TC | 0.9g | 1.5 | 1.0 | 2.5 | 14.0 | 6.0 |
| | 3.0-16-3 NZTH | TC | 1.1g | 3.0 | 1.5 | 3.5 | 16.0 | 8.0 |




| Cylinder styli (Type S) | Order No. | Shaft/ Cylinder | wt | dz mm | d1 mm | L1 mm | L mm | ML mm |
|---|---|---|---|---|---|---|---|---|
| | 1.5-13-3 NZTS | Steel | 0.7g | 1.5 | 1.0 | 1.5 | 13.0 | 4.0 |
| | 2.0-13-3 NZTS | Steel | 0.8g | 2.0 | 1.5 | 2.0 | 13.0 | 4.0 |
| | 2.5-15-3 NZTS | Steel | 0.9g | 2.5 | 1.7 | 2.5 | 15.0 | 5.5 |
| | 3.0-15-3 NZTS | Steel | 1.0g | 3.0 | 2.0 | 4.0 | 15.0 | 5.5 |




| Pointed styli | Order No. | Shaft | wt | $\beta$ |
|---|---|---|---|---|
| | 30-13-3 NTS | TC | 0.7g | 30° |




TC = Tungsten Carbide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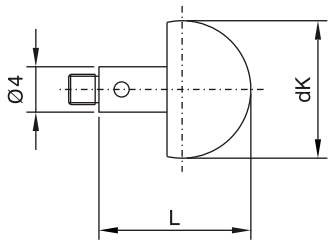
# M3 (Ø 4 mm)

## M3 Thread Styli

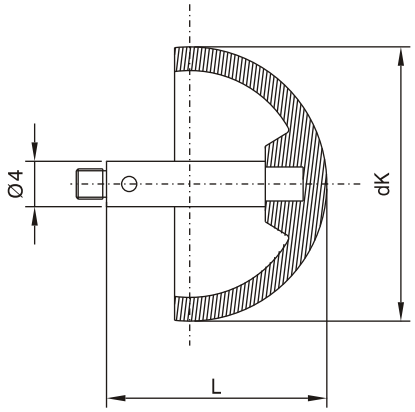
### Ceramic ball styli

| Order No. | Shaft | Ball | wt | dk mm | L mm |
|---|---|---|---|---|---|
| 8.0-10-3 NKK | Steel | Ceramic | 1.4g | 8.0 | 10.0 |
| 10.0-11-3 NKK | Steel | Ceramic | 2.0g | 10.0 | 11.0 |



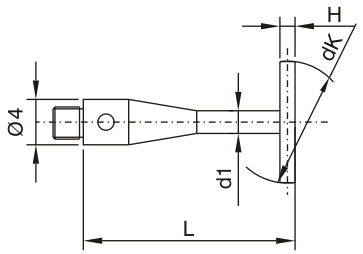

### Hollow Ceramic ball styli (Type E)

| Order No. | Shaft | Ball | wt | dk mm | L mm |
|---|---|---|---|---|---|
| 18.0-16-3 NHKE | Steel | Ceramic | 4.9g | 18.0 | 16.0 |
| 24.0-19-3 NHKE | Steel | Ceramic | 9.2g | 24.0 | 19.0 |
| 30.0-22-3 NHKE | Steel | Ceramic | 13.4g | 30.0 | 22.0 |



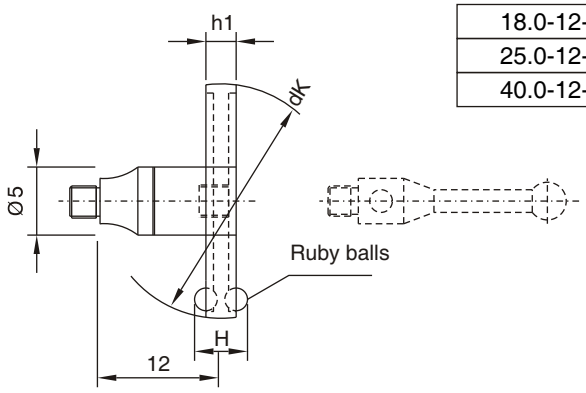

### Ball disc styli

| Order No. | Shaft | Disc | wt | dk mm | d1 mm | L mm | H mm |
|---|---|---|---|---|---|---|---|
| 5.0-20-3 NKSK | TC | Ceramic | 0.9g | 5.0 | 1.5 | 20.0 | 0.5 |
| 10.0-25-3 NKSK | TC | Ceramic | 1.8g | 10.0 | 2.0 | 25.0 | 0.8 |
| 14.0-25-3 NKSK | TC | Ceramic | 3.3g | 14.0 | 2.0 | 25.0 | 1.0 |




### Ball disc styli rotary

| Order No. | Shaft | Disc | wt | dk mm | H mm | h1 mm |
|---|---|---|---|---|---|---|
| 18.0-12-3 NKSD | Steel | Steel | 3.1g | 18.0 | 4.0 | 2.5 |
| 25.0-12-3 NKSD | Steel | Steel | 4.2g | 25.0 | 4.0 | 2.5 |
| 40.0-12-3 NKSD | Steel | Steel | 11.3g | 40.0 | 6.0 | 4.0 |




**M3 thread stylus** may be used. A built-in rotating adaptor allows stylus positioning.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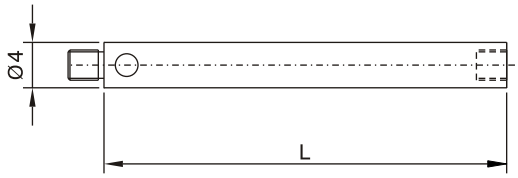
# M3 (Ø 4 mm)

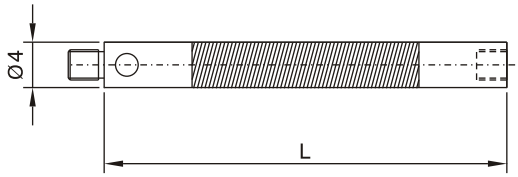
## M3 Thread Styli

### Extensions, Steel



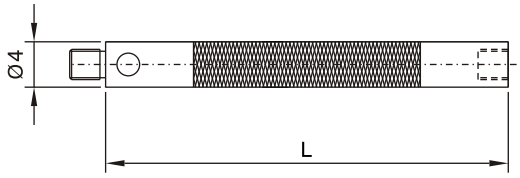

| Order No. | Material | wt | L mm |
|---|---|---|---|
| 10-3 NV | Steel | 0.7g | 10.0 |
| 20-3 NV | Steel | 1.3g | 20.0 |
| 30-3 NV | Steel | 1.8g | 30.0 |
| 35-3 NV | Steel | 2.2g | 35.0 |
| 40-3 NV | Steel | 2.4g | 40.0 |
| 50-3 NV | Steel | 2.9g | 50.0 |

### Extensions, Light-weight Ceramic




| Order No. | Material | wt | L mm |
|---|---|---|---|
| 40-3 NVK | Ceramic | 3.4g | 40.0 |
| 50-3 NVK | Ceramic | 3.6g | 50.0 |
| 60-3 NVK | Ceramic | 4.1g | 60.0 |
| 70-3 NVK | Ceramic | 4.4g | 70.0 |
| 80-3 NVK | Ceramic | 4.6g | 80.0 |
| 90-3 NVK | Ceramic | 5.6g | 90.0 |
| 100-3 NVK | Ceramic | 7.1g | 100.0 |

### Extensions, Light-weight Carbon Fiber

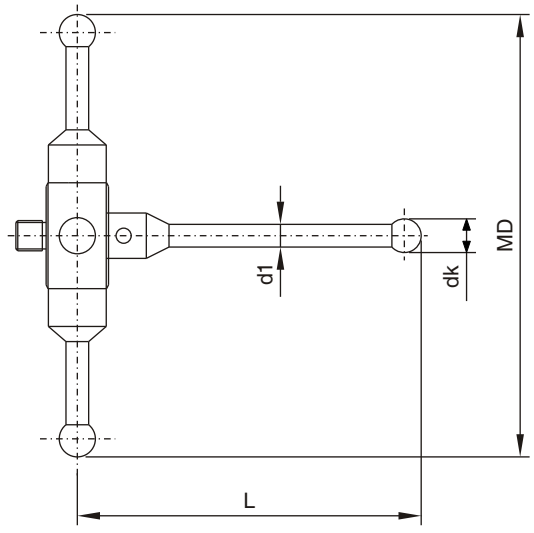



| Order No. | Material | wt | L mm |
|---|---|---|---|
| 40-3 NVCA | CF | 1.4g | 40.0 |
| 50-3 NVCA | CF | 1.7g | 50.0 |
| 60-3 NVCA | CF | 1.8g | 60.0 |
| 70-3 NVCA | CF | 2.1g | 70.0 |
| 75-3 NVCA | CF | 2.1g | 75.0 |
| 80-3 NVCA | CF | 2.2g | 80.0 |
| 90-3 NVCA | CF | 2.3g | 90.0 |
| 100-3 NVCA | CF | 2.5g | 100.0 |

CF = Carbon Fiber

### Star Styli Rotary (Type E)

| Order No. | Shaft | Ball | wt | dk mm | d1 mm | MD mm | L mm |
|---|---|---|---|---|---|---|---|
| 2.0-32-3 NSTE | Steel | Ruby | 7.8g | 2.0 | 1.4 | 32.0 | 21.0 |
| 2.0-52-3 NSTE | Steel | Ruby | 8.4g | 2.0 | 1.4 | 52.0 | 31.0 |




A built-in rotating adaptor allows stylus positioning.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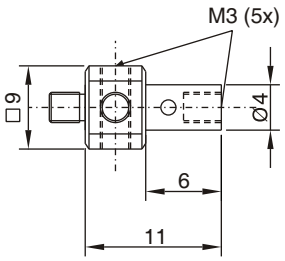
# M3 (Ø 4 mm)

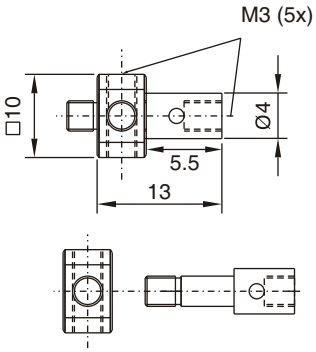
| M3 Thread Styli | Order No. | Material | wt |
|---|---|---|---|
| **Adaptor for styli (Type A) 5- way** | 9.0-11-3 NTHA | Steel | 2.6g |

For use with **M3 thread styli.**



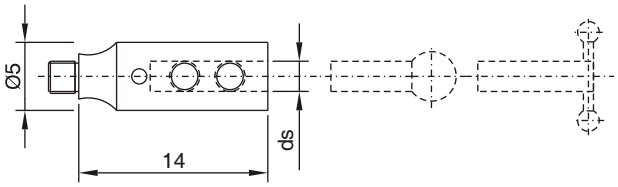

| Adaptor for styli rotary (Type F) 5-Way | Order No. | Material | wt |
|---|---|---|---|
| | 10.0-13-3 NTHF | Steel | 3.3g |

For use with **M3 thread styli**. A built in rotating adaptor allows stylus positioning.



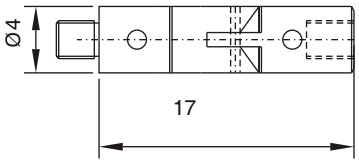

| Adaptor for styli (Type Z) | Order No. | Material | wt | ds mm |
|---|---|---|---|---|
| | 1.0-3 NHZ | Steel | 1.7g | 1.0 |
| | 1.5-3 NHZ | Steel | 1.7g | 1.5 |
| | 2.0-3 NHZ | Steel | 1.6g | 2.0 |

For use with **Styli (Type F)**, **(Type N)** (Page 7), **T-Styli (Type H)** (Page 6).



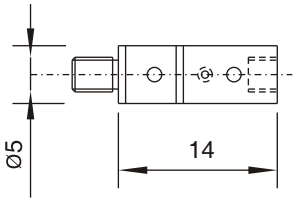

| Knuckle joint rotary (Type B) | Order No. | Material | wt |
|---|---|---|---|
| | 4.0-17-3 NGBD | Steel | 1.5g |

A built-in rotating adaptor allows stylus positioning.




| Rotating adaptor | Order No. | Material | wt |
|---|---|---|---|
| | 5.0-14-3 NDS | Steel | 1.8g |

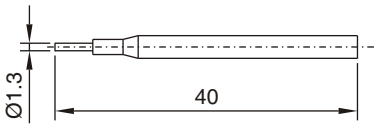
Rotating adaptor allows stylus positioning.



# *M3 TOOLS*

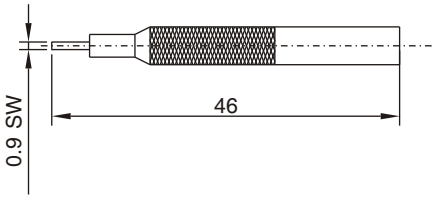
| Tools for components with M3 thread styli | Order No. | Description |
|---|---|---|
| | 1.3 NWST | Ø1.3 mm for M3 thread components |

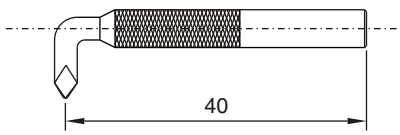
## Pin key




## Hexagon key

| Order No. | Description |
|---|---|
| 0.9 NWSE | SW 0.9 mm |




## Cross-point key

| Order No. | Description |
|---|---|
| 2.5 NWKR | 2.5 mm |