

## 2. CHAPTER MICROMETERS

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## 0800 External micrometers



0800 501

**DIN  
863-1**

### Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated

### Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

|  | Measuring range | Pitch | Spindle dia. | Thimble dia. | Error limit | Order no. | List price |
|--|-----------------|-------|--------------|--------------|-------------|-----------|------------|
|  | mm              | mm    | mm           | mm           | mm          |           | EUR        |
|  | 0 - 25          | 0.5   | 6.5          | 17           | 0.004       | 0800 501  | 18.90      |
|  | 25 - 50         | 0.5   | 6.5          | 17           | 0.004       | 0800 502  | 22.90      |
|  | 50 - 75         | 0.5   | 6.5          | 17           | 0.005       | 0800 503  | 26.30      |
|  | 75 - 100        | 0.5   | 6.5          | 17           | 0.005       | 0800 504  | 31.10      |

## 0800 Set of external micrometers



### Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

**DIN  
863-1**

|  | Measuring range | Pitch | Spindle dia. | Thimble dia. | Order no. | List price |
|--|-----------------|-------|--------------|--------------|-----------|------------|
|  | mm              | mm    | mm           | mm           |           | EUR        |
|  | 0 - 100         | 0.5   | 6.5          | 17           | 0800 513  | 110.00     |

## 0807 Holder for external micrometers



### Model

- With heavy cast iron base
- Vertically rotating and lockable

### Delivery

- Cardboard box

|  | Measuring range | Order no. | List price |
|--|-----------------|-----------|------------|
|  | mm              |           | EUR        |
|  | 0 - 300         | 0807 101  | 56.00      |

## 0806 External micrometers with friction clutch

**DIN**  
**863-1**



0806 501

### Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- With friction clutch (ratchet)
- Fixed quick drive
- Carbide measuring faces
- Thermally insulated

### Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting gauge

| ✕ | ✕ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 25                | 0.5         | 6.5                | 18                 | 0.004             | 0806 501  | 34.10             |
|   |   | 25 - 50               | 0.5         | 6.5                | 18                 | 0.004             | 0806 502  | 37.30             |
|   |   | 50 - 75               | 0.5         | 6.5                | 18                 | 0.005             | 0806 503  | 40.60             |
|   |   | 75 - 100              | 0.5         | 6.5                | 18                 | 0.005             | 0806 504  | 43.90             |

## 0806 Set of external micrometers with friction clutch

**DIN**  
**863-1**



0806 513

### Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

| ✕ | ✕ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 100               | 0.5         | 6.5                | 18                 | 0.005             | 0806 513  | 160.00            |



## 0806 External micrometers



**DIN  
863-1**



### Model

- DIN 863-1
- Reading 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Coated steel frame

### Delivery

- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

| ✂ | ½ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 25                | 0.5         | 6.5                | 17.5               | 0.004             | 0806 521  | 46.00             |
|   |   | 25 - 50               | 0.5         | 6.5                | 17.5               | 0.004             | 0806 522  | 74.00             |
|   |   | 50 - 75               | 0.5         | 6.5                | 17.5               | 0.005             | 0806 523  | 91.00             |
|   |   | 75 - 100              | 0.5         | 6.5                | 17.5               | 0.005             | 0806 524  | 105.00            |
|   |   | 100 - 125             | 0.5         | 6.5                | 17.5               | 0.006             | 0806 525  | 143.00            |
|   |   | 125 - 150             | 0.5         | 6.5                | 17.5               | 0.006             | 0806 526  | 160.00            |
|   |   | 150 - 175             | 0.5         | 6.5                | 17.5               | 0.007             | 0806 527  | 178.00            |
|   |   | 175 - 200             | 0.5         | 6.5                | 17.5               | 0.007             | 0806 528  | 196.00            |

## 0806 Set of external micrometers



**DIN  
863-1**



### Delivery

- Includes 4 external micrometers
- Incl. setting gauges 25 + 75 mm or 125 + 175 mm
- Wooden case

| ✂ | ½ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-----------|-------------------|
|   |   | 0 - 100               | 0.5         | 6.5                | 17.5               | 0806 540  | 275.00            |
|   |   | 100 - 200             | 0.5         | 6.5                | 17.5               | 0806 542  | 605.00            |



## 0810 External micrometers



**DIN**  
**863-1**



0810 504

### Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Spheroid ductile iron frame, lacquered
- Ratchet stop
- Carbide measuring faces
- Thermally insulated

### Delivery

- Wooden case

| ✂ | ✂ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 25                | 1           | 8                  | 30                 | 0.004             | 0810 501  | 276.00            |
|   |   | 25 - 50               | 1           | 8                  | 30                 | 0.004             | 0810 502  | 292.00            |
|   |   | 50 - 75               | 1           | 8                  | 30                 | 0.005             | 0810 503  | 307.00            |
|   |   | 75 - 100              | 1           | 8                  | 30                 | 0.005             | 0810 504  | 325.00            |

## 0815 External micrometers with deep frame



**DIN**  
**863-1**



0815 530

### Model

- DIN 863-1
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Steel bracket lacquered
- Ratchet stop
- Carbide measuring faces

### Delivery

- Wooden case

| ✂ | ✂ | Measuring range<br>mm | Frame depth<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 25                | 100               | 1           | 8                  | 24                 | 0.004             | 0815 510  | 291.00            |
|   |   | 0 - 25                | 150               | 1           | 6.5                | 24                 | 0.004             | 0815 514  | 307.00            |
|   |   | 0 - 25                | 250               | 1           | 6.5                | 24                 | 0.004             | 0815 518  | 383.00            |
|   |   | 0 - 50                | 50                | 1           | 8                  | 24                 | 0.004             | 0815 530  | 330.00            |
|   |   | 0 - 50                | 100               | 1           | 8                  | 24                 | 0.004             | 0815 534  | 487.00            |
|   |   | 50 - 100              | 100               | 1           | 8                  | 24                 | 0.005             | 0815 540  | 538.00            |



## 0816 External micrometers large spindle distance 50 mm



**DIN  
863-1**



### Model

- DIN 863-1
- Direct reading 0.01 mm, without addition because of thread pitch 1 mm
- Reading parts are satin chrome finished
- Locking ring
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- With 50 mm spindle movement and a wide measuring range
- Spheroid ductile iron frame, lacquered or coated light alloy frame

### Delivery

- Wooden case

| ✂ | ⚙ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 50                | 1           | 8                  | 24                 | 0.004             | 0816 501  | 348.00            |
|   |   | 50 - 100              | 1           | 8                  | 24                 | 0.005             | 0816 502  | 393.00            |
|   |   | 100 - 150             | 1           | 8                  | 24                 | 0.006             | 0816 503  | 453.00            |
|   |   | 150 - 200             | 1           | 8                  | 24                 | 0.007             | 0816 504  | 517.00            |
|   |   | 200 - 250             | 1           | 8                  | 24                 | 0.008             | 0816 505  | 589.00            |
|   |   | 250 - 300             | 1           | 8                  | 24                 | 0.009             | 0816 506  | 664.00            |
|   |   | 300 - 350             | 1           | 10                 | 24                 | 0.01              | 0816 507  | 938.00            |
|   |   | 350 - 400             | 1           | 10                 | 24                 | 0.011             | 0816 508  | 991.00            |
|   |   | 400 - 450             | 1           | 10                 | 24                 | 0.012             | 0816 509  | 1053.00           |
|   |   | 450 - 500             | 1           | 10                 | 24                 | 0.013             | 0816 510  | 1130.00           |
|   |   | 500 - 550             | 1           | 10                 | 24                 | 0.015             | 0816 511  | 1219.00           |
|   |   | 550 - 600             | 1           | 10                 | 24                 | 0.017             | 0816 512  | 1304.00           |

## 0817 External micrometers with wide range of applications 100 mm



**DIN**  
**863-3**



### Model

- DIN 863-3
- Direct reading 0.01 mm, without addition because of thread pitch 1 mm
- Reading parts are satin chrome finished
- Spindle adjustment 50 mm
- Reversible anvil (screwed) for measuring range extension
- Locking ring

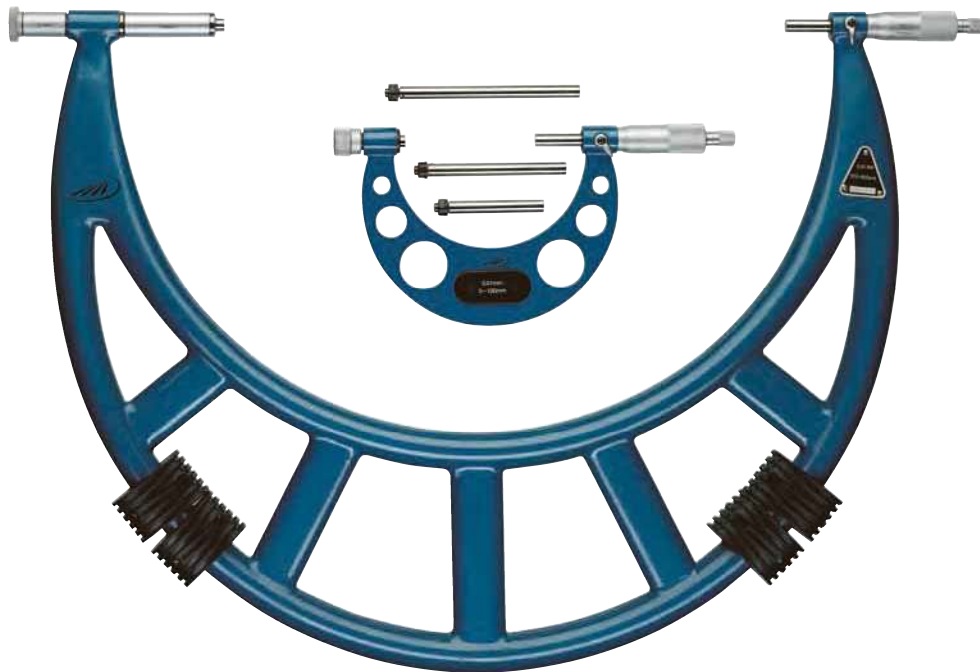
### Delivery

- Wooden case

| ⌕ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
|   | 200 - 300             | 1           | 10                 | 24                 | 0.006             | 0817 512  | 1120.00           |
|   | 300 - 400             | 1           | 10                 | 24                 | 0.007             | 0817 514  | 1165.00           |
|   | 400 - 500             | 1           | 10                 | 24                 | 0.008             | 0817 516  | 1304.00           |
|   | 500 - 600             | 1           | 10                 | 24                 | 0.009             | 0817 518  | 1480.00           |
|   | 600 - 700             | 1           | 10                 | 24                 | 0.009             | 0817 520  | 1655.00           |
| ▪ | 700 - 800             | 1           | 10                 | 24                 | 0.009             | 0817 522  | 1836.00           |
| ▪ | 800 - 900             | 1           | 10                 | 24                 | 0.01              | 0817 524  | 2021.00           |
| ▪ | 900 - 1000            | 1           | 10                 | 24                 | 0.01              | 0817 526  | 2236.00           |



## 0819 External micrometers with interchangeable inserts



### Model

- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Coated malleable cast iron frame\* or coated light alloy frame with interchangeable anvil

### Delivery

- Wooden case
- Includes setting standards

| ✕ | ½ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-----------|-------------------|
|   |   | 0 - 100               | 0.5         | 8                  | 20                 | 0819 501  | 184.00            |
|   |   | 0 - 150               | 0.5         | 8                  | 20                 | 0819 502  | 205.00            |
|   |   | 100 - 200             | 0.5         | 8                  | 20                 | 0819 503  | 227.00            |
|   |   | 150 - 300             | 0.5         | 8                  | 20                 | 0819 505  | 259.00            |
|   |   | 200 - 300             | 0.5         | 8                  | 20                 | 0819 510  | 249.00            |
|   |   | 300 - 400             | 0.5         | 8                  | 24                 | 0819 511  | 314.00            |
|   |   | 400 - 500             | 0.5         | 8                  | 24                 | 0819 512  | 357.00            |
|   |   | 500 - 600             | 0.5         | 8                  | 24                 | 0819 513  | 412.00            |
|   |   | 600 - 700             | 0.5         | 8                  | 24                 | 0819 514  | 508.00            |
| ▪ |   | 700 - 800             | 0.5         | 8                  | 24                 | 0819 515  | 585.00            |
| ▪ |   | 800 - 900             | 0.5         | 8                  | 24                 | 0819 516  | 671.00            |
| ▪ |   | 900 - 1000            | 0.5         | 8                  | 24                 | 0819 517  | 758.00            |
| ▪ |   | 1000 - 1200           | 1           | 8                  | 30                 | 0819 519  | 1408.00           |
| ▪ |   | 1200 - 1400           | 1           | 8                  | 30                 | 0819 521  | 1516.00           |
| ▪ |   | 1400 - 1600           | 1           | 8                  | 30                 | 0819 523  | 1786.00           |
| ▪ |   | 1600 - 1800           | 1           | 8                  | 30                 | 0819 525  | 2052.00           |
| ▪ |   | 1800 - 2000           | 1           | 8                  | 30                 | 0819 527  | 2360.00           |

## 0912 Digital micrometers IP54



### Model

- Protection class IP54
- Reading: 0.001 mm / .00005 inch
- Locking lever
- Ratchet stop
- Carbide measuring faces
- Thermally insulated
- Factory standard

### Functions

- ON / OFF
- mm / inch switching
- Set to zero at any point

### Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

|  | Measuring range |       | Pitch | Spindle dia. | Error limit | Order no. | List price |
|--|-----------------|-------|-------|--------------|-------------|-----------|------------|
|  | mm              | inch  | mm    | mm           | mm          |           | EUR        |
|  | 0 - 25          | 0 - 1 | 0.5   | 6.5          | 0.006       | 0912 501  | 81.00      |
|  | 25 - 50         | 1 - 2 | 0.5   | 6.5          | 0.006       | 0912 502  | 92.00      |
|  | 50 - 75         | 2 - 3 | 0.5   | 6.5          | 0.007       | 0912 503  | 105.00     |
|  | 75 - 100        | 3 - 4 | 0.5   | 6.5          | 0.007       | 0912 504  | 120.00     |
|  | 100 - 125       | 4 - 5 | 0.5   | 6.5          | 0.008       | 0912 505  | 132.00     |
|  | 125 - 150       | 5 - 6 | 0.5   | 6.5          | 0.008       | 0912 506  | 145.00     |
|  | 150 - 175       | 6 - 7 | 0.5   | 6.5          | 0.009       | 0912 507  | 156.00     |
|  | 175 - 200       | 7 - 8 | 0.5   | 6.5          | 0.009       | 0912 508  | 168.00     |

| Accessories            | Order no. | List price |
|------------------------|-----------|------------|
|                        |           | EUR        |
| Battery 1.5V, type 357 | 0220 204  | 3.30       |

## 0912 Set of digital micrometers



### Delivery

- Includes 4 micrometers
- Incl. setting gauges 25/50/75 mm
- Wooden case

|  | Measuring range | Pitch | Spindle dia. | Order no. | List price |
|--|-----------------|-------|--------------|-----------|------------|
|  | mm              | mm    | mm           |           | EUR        |
|  | 0 - 100         | 0.5   | 6.5          | 0912 521  | 435.00     |



## 1866 Digital micrometers IP65



1866 410



1866 510



### Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

### Functions



- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- Hold

### ▪ Additionally 1866 5xx:

- ORIGIN (Preset value)
- Variable data output USB + Digimatic
- TOL (tolerance value input)

### Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

|  |  | Measuring range |       | Pitch | Spindle dia. | Error limit | Order no. | List price |
|---|---|-----------------|-------|-------|--------------|-------------|-----------|------------|
|   |   | mm              | inch  | mm    | mm           | mm          |           | EUR        |
| Without data output   |   |                 |       |       |              |             |           |            |
|   |   | 0 - 25          | 0 - 1 | 0.5   | 6.5          | 0.002       | 1866 410  | 207.00     |
|   |   | 25 - 50         | 1 - 2 | 0.5   | 6.5          | 0.002       | 1866 413  | 270.00     |
|   |   | 50 - 75         | 2 - 3 | 0.5   | 6.5          | 0.003       | 1866 417  | 343.00     |
|   |   | 75 - 100        | 3 - 4 | 0.5   | 6.5          | 0.003       | 1866 420  | 391.00     |
| With DataVariable bidirectional   |   |                 |       |       |              |             |           |            |
|   |   | 0 - 25          | 0 - 1 | 0.5   | 6.5          | 0.002       | 1866 510  | 249.00     |
|   |   | 25 - 50         | 1 - 2 | 0.5   | 6.5          | 0.002       | 1866 513  | 299.00     |
|   |   | 50 - 75         | 2 - 3 | 0.5   | 6.5          | 0.003       | 1866 517  | 389.00     |
|   |   | 75 - 100        | 3 - 4 | 0.5   | 6.5          | 0.003       | 1866 520  | 435.00     |



1998725

1998802

### Accessories

Battery, 3V-Lithium, CR 2032

Data cable bidirectional DataVariable to USB

Data cable bidirectional DataVariable to Digimatic

### Order no.

0220 704

1998 801

1998 802

### List price

EUR

3.90

98.00

85.00

## 1866i Digital micrometers IP65 with integrated wireless



1866 41060



**integrated  
iw wireless**  
Wireless Data Transmission

2

### Model



- Reading: 0.001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

### Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- Hold
- ORIGIN (Preset value)
- TOL (tolerance value input)
- Integrated Wireless

### Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

|  |  | Measuring range |       | Pitch | Spindle dia. | Error limit | Order no.  | List price |
|---|---|-----------------|-------|-------|--------------|-------------|------------|------------|
|   |   | mm              | inch  | mm    | mm           | mm          |            | EUR        |
|   |   | 0 - 25          | 0 - 1 | 0.5   | 6.5          | 0.002       | 1866 41060 | 259.00     |
|   |   | 25 - 50         | 1 - 2 | 0.5   | 6.5          | 0.002       | 1866 41360 | 319.00     |
|   |   | 50 - 75         | 2 - 3 | 0.5   | 6.5          | 0.003       | 1866 41760 | 389.00     |
|   |   | 75 - 100        | 3 - 4 | 0.5   | 6.5          | 0.003       | 1866 42060 | 435.00     |

### Accessories

|  | Order no. | List price |
|--|-----------|------------|
| Battery, 3V-Lithium, CR 2032                 | 0220 704  | 3.90       |
| i-Stick USB-receiver for Integrated Wireless | 1998 780  | 95.00      |



More information on our i-series and Integrated Wireless on page 252

Integrated Wireless is intended to be sold within the European Economic Area only





## 1866i Digital micrometers IP65 linear 5 mm pitch



### Specification

- Reading: 0,001 mm / .00005 inch
- Protection class IP65
- LCD display: 10 mm
- **Rapid drive**
- Sliding spindle
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard



### Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the ORIGIN)
- ORIGIN (Preset value)
- Hold
- TOL (tolerance value input)

- Variable data output (1866) USB + Digimatic
- Integrated Wireless (1866i)

### Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

|  |  | Measuring range |       | Pitch | Spindle dia. | Error limit | Order no.  | List price |
|---|---|-----------------|-------|-------|--------------|-------------|------------|------------|
|   |   | mm              | inch  | mm    | mm           | mm          |            | EUR        |
| With DataVariable bidirectional   |   |                 |       |       |              |             |            |            |
|   |   | 0 - 25          | 0 - 1 | 5     | 6.5          | 0.002       | 1866 610   | 339.00     |
|   |   | 25 - 50         | 1 - 2 | 5     | 6.5          | 0.002       | 1866 613   | 389.00     |
|   |   | 50 - 75         | 2 - 3 | 5     | 6.5          | 0.003       | 1866 617   | 489.00     |
|   |   | 75 - 100        | 3 - 4 | 5     | 6.5          | 0.003       | 1866 620   | 529.00     |
| With Integrated Wireless  |   |                 |       |       |              |             |            |            |
|   |   | 0 - 25          | 0 - 1 | 5     | 6.5          | 0.002       | 186661 060 | 349.00     |
|   |   | 25 - 50         | 1 - 2 | 5     | 6.5          | 0.002       | 186661 360 | 399.00     |
|   |   | 50 - 75         | 2 - 3 | 5     | 6.5          | 0.003       | 186661 760 | 499.00     |
|   |   | 75 - 100        | 3 - 4 | 5     | 6.5          | 0.003       | 186662 060 | 539.00     |

Integrated Wireless is intended to be sold within the European Economic Area only

### Accessories



| Accessories  | Order no. | List price |
|--|-----------|------------|
|  |           | EUR        |
| Battery, 3V-Lithium, CR 2032                       | 0220 704  | 3.90       |
| Data cable bidirectional DataVariable to USB       | 1998 801  | 98.00      |
| Data cable bidirectional DataVariable to Digimatic | 1998 802  | 85.00      |
| i-Stick USB-receiver for Integrated Wireless       | 1998 780  | 95.00      |



## 1866 Digital micrometer BASIC



### Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP40
- LCD display: 10 mm
- Rapid drive
- Carbide measuring faces
- Spindle stainless, hardened and smoothed
- Frame lacquered
- Thermally insulated
- Factory standard

### Functions

- ON / OFF
- **Quick-Start**
- **Quick-Lock** (key lock)
- Set to zero at any point
- mm / inch switching
- Hold

### Delivery

- Plastic case

|  |  | Measuring range |       | Pitch<br>mm | Spindle dia.<br>mm | Error limit<br>mm | Order no. | List price |
|--|--|-----------------|-------|-------------|--------------------|-------------------|-----------|------------|
|  |  | mm              | inch  |             |                    |                   |           | EUR        |
|  |  | 0 - 25          | 0 - 1 | 0.5         | 6.5                | 0.002             | 1866 210  | 175.00     |

### Accessories

Battery, 3V-Lithium, CR 2032

### Order no.

0220 704

### List price



EUR  
3.90

## 1866i Sets of digital micrometers



### Delivery

- Plastic case
- From measuring range 25 mm upwards includes a setting standard

|  |  | Measuring range |       | Spindle dia.<br>mm | Order no.  | List price |
|---|---|-----------------|-------|--------------------|------------|------------|
|   |   | mm              | inch  |                    |            | EUR        |
| With Integrated Wireless  |   |                 |       |                    |            |            |
|   |   | 0 - 100         | 0 - 4 | 6.5                | 1866 42160 | 1390.00    |
| With DataVariable bidirectional   |   |                 |       |                    |            |            |
|   |   | 0 - 100         | 0 - 4 | 6.5                | 1866 521   | 1360.00    |

### Accessories

Battery, 3V-Lithium, CR 2032

Data cable bidirectional DataVariable to USB

Data cable bidirectional DataVariable to Digimatic

i-Stick USB-receiver for Integrated Wireless

### Order no.

0220 704

1998 801

1998 802

1998 780

### List price

EUR

3.90

98.00

85.00

95.00



## 0849 Precision dial micrometers



0849 501

**DIN**  
**863-3**

### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1  $\mu$ m
- Reading parts are satin chrome finished
- Retraction stroke 1.5 mm

### Delivery

- Wooden case

- Spindle made of hardened stainless steel
- Constant measuring force
- Locking lever
- Carbide measuring faces
- Thermally insulated

| $\nabla$ | $\frac{1}{2}$ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|----------|---------------|-----------------------|-------------|--------------------|--------------------|-----------|-------------------|
|          |               | 0 - 25                | 0.5         | 7.5                | 17.5               | 0849 501  | 737.00            |
|          |               | 25 - 50               | 0.5         | 7.5                | 17.5               | 0849 502  | 876.00            |

## 0850 Precision dial micrometers



0850 511

**DIN**  
**863-3**

### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading on the dial: 1  $\mu$ m
- Reading parts are satin chrome finished
- Retraction stroke 1.2 mm

### Delivery

- Wooden case
- Incl. dial comparator gauge

- Locking lever
- Carbide measuring faces
- Constant measuring force
- Thermally insulated
- Spindle made of hardened stainless steel
- Adjustable tolerance markers

| $\nabla$ | $\frac{1}{2}$ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|----------|---------------|-----------------------|-------------|--------------------|--------------------|-----------|-------------------|
|          |               | 0 - 25                | 0.5         | 7.5                | 17.5               | 0850 511  | 582.00            |
|          |               | 25 - 50               | 0.5         | 7.5                | 17.5               | 0850 512  | 646.00            |
|          |               | 50 - 100              | 0.5         | 7.5                | 17.5               | 0850 514  | 687.00            |
|          |               | 100 - 150             | 0.5         | 7.5                | 17.5               | 0850 516  | 734.00            |
|          |               | 150 - 200             | 0.5         | 7.5                | 17.5               | 0850 518  | 768.00            |

## 0822 Disc micrometers



### Model

- Factory standard
- Reading: 0.01 mm
- Carbide measuring faces
- Ratchet stop
- Disc dia. 60 mm
- Malleable cast iron frame, lacquered

### Delivery

- Wooden case

| Measuring range<br>mm     | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|---------------------------|-------------|--------------------|--------------------|-----------|-------------------|
| <b>Frame depth 50 mm</b>  |             |                    |                    |           |                   |
| 0 - 15                    | 1           | 6.5                | 20                 | 0822 301  | 95.00             |
| 0 - 25                    | 1           | 6.5                | 20                 | 0822 302  | 144.00            |
| 0 - 50                    | 1           | 6.5                | 20                 | 0822 303  | 265.00            |
| <b>Frame depth 100 mm</b> |             |                    |                    |           |                   |
| 0 - 50                    | 1           | 6.5                | 20                 | 0822 304  | 433.00            |

## 0824 Micrometers for tube wall measurement



**DIN  
863-3**

### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Ratchet stop
- Hardened measuring faces

- Malleable cast iron frame, lacquered

### Delivery

- Cardboard box

| Measuring range<br>mm   | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|-------------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
| <b>Ball dia. 2.5 mm</b> |             |                    |                    |                   |           |                   |
| 0 - 15                  | 0.5         | 6.5                | 20                 | 0.001             | 0824 302  | 194.00            |
| <b>Ball dia. 6.5 mm</b> |             |                    |                    |                   |           |                   |
| 0 - 25                  | 0.5         | 6.5                | 20                 | 0.001             | 0824 303  | 196.00            |



## 0854 Blade micrometers



**DIN  
863-3**



### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished

### Delivery

- Ratchet stop
- Thermally insulated
- Hardened spindle and anvil
- Coated steel frame
- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

| Marked                          | Marked | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---------------------------------|--------|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
| Measuring faces dia. 0.8 x 7 mm |        |                       |             |                    |                    |                   |           |                   |
|                                 |        | 0 - 25                | 0.5         | 8                  | 17.5               | 0.004             | 0854 301  | 257.00            |
|                                 |        | 25 - 50               | 0.5         | 8                  | 17.5               | 0.004             | 0854 302  | 312.00            |
|                                 |        | 50 - 75               | 0.5         | 8                  | 17.5               | 0.005             | 0854 303  | 334.00            |
|                                 |        | 75 - 100              | 0.5         | 8                  | 17.5               | 0.005             | 0854 304  | 363.00            |

## 0855 Micrometers with reduced measuring faces



**DIN  
863-3**



### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking lever
- Ratchet stop

### Delivery

- Carbide measuring faces
- Thermally insulated
- Hardened spindle and anvil
- Coated steel frame
- Plastic case
- From measuring range 25 - 50 mm upwards includes a setting standard

| Marked                                      | Marked | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|--------|-----------------------|-------------|--------------------|--------------------|-------------------|-----------|-------------------|
| Measuring surfaces dia. 3 mm, length 8.5 mm |        |                       |             |                    |                    |                   |           |                   |
|   |        | 0 - 25                | 0.5         | 6.5                | 17.5               | 0.004             | 0855 301  | 185.00            |
|   |        | 25 - 50               | 0.5         | 6.5                | 17.5               | 0.004             | 0855 302  | 227.00            |
|   |        | 50 - 75               | 0.5         | 6.5                | 17.5               | 0.005             | 0855 303  | 257.00            |
|   |        | 75 - 100              | 0.5         | 6.5                | 17.5               | 0.005             | 0855 304  | 272.00            |

## 0898 Settings gauges for micrometers



0898 104

### Model

- Rod
- Special steel, aged
- Hardened measuring faces
- Tolerance zone js2
- Thermally insulated
- Parallel lapped measuring faces

| ⌕ | ¼ | Measuring range<br>mm | Measuring surface dia.<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|------------------------------|-----------|-------------------|
|   |   | 25                    | 6.5                          | 0898 101  | 11.40             |
|   |   | 50                    | 6.5                          | 0898 102  | 19.10             |
|   |   | 75                    | 6.5                          | 0898 103  | 22.60             |
|   |   | 100                   | 6.5                          | 0898 104  | 25.80             |
|   |   | 125                   | 6.5                          | 0898 105  | 29.90             |
|   |   | 150                   | 6.5                          | 0898 106  | 42.30             |
|   |   | 175                   | 6.5                          | 0898 107  | 47.30             |
|   |   | 200                   | 6.5                          | 0898 108  | 52.00             |
|   |   | 225                   | 6.5                          | 0898 109  | 57.00             |
|   |   | 250                   | 6.5                          | 0898 110  | 63.00             |
|   |   | 275                   | 6.5                          | 0898 111  | 67.00             |
|   |   | 300                   | 10                           | 0898 112  | 83.00             |
|   |   | 325                   | 10                           | 0898 113  | 90.00             |
|   |   | 350                   | 10                           | 0898 114  | 96.00             |
|   |   | 375                   | 10                           | 0898 115  | 102.00            |
|   |   | 400                   | 10                           | 0898 116  | 109.00            |
|   |   | 425                   | 10                           | 0898 117  | 116.00            |
|   |   | 450                   | 10                           | 0898 118  | 122.00            |
|   |   | 475                   | 10                           | 0898 119  | 128.00            |

| ⌕ | ¼ | Measuring range<br>mm | Measuring surface dia.<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|------------------------------|-----------|-------------------|
|   |   | 500                   | 10                           | 0898 120  | 135.00            |
|   |   | 525                   | 10                           | 0898 121  | 142.00            |
|   |   | 550                   | 10                           | 0898 122  | 149.00            |
|   |   | 575                   | 10                           | 0898 123  | 156.00            |
|   |   | 600                   | 10                           | 0898 124  | 164.00            |
|   |   | 625                   | 10                           | 0898 125  | 171.00            |
|   |   | 650                   | 10                           | 0898 126  | 177.00            |
|   |   | 675                   | 10                           | 0898 127  | 184.00            |
|   |   | 700                   | 10                           | 0898 128  | 192.00            |
|   |   | 800                   | 10                           | 0898 132  | 221.00            |
|   |   | 900                   | 10                           | 0898 136  | 249.00            |
|   |   | 1000                  | 10                           | 0898 140  | 277.00            |
|   | ▪ | 1050                  | 10                           | 0898 142  | 290.00            |
|   | ▪ | 1150                  | 10                           | 0898 146  | 318.00            |
|   | ▪ | 1250                  | 10                           | 0898 150  | 349.00            |
|   | ▪ | 1350                  | 10                           | 0898 154  | 376.00            |
|   | ▪ | 1450                  | 10                           | 0898 158  | 405.00            |
|   | ▪ | 1550                  | 10                           | 0898 162  | 649.00            |



## 0870 Precision micrometers for thread flank measurement



**DIN  
863-3**



### Model

- DIN 863-3
- Reading 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Ratchet stop
- Thermally insulated
- Spheroid ductile iron frame, lacquered

### Delivery

- Wooden case
- **Thread flank inserts and setting standards must be ordered separately**

| ✕   | Measuring range | Pitch | Thimble dia. | Error limit | Spindle adjustment | Required length of setting standard | Order no. | List price |
|---|-----------------|-------|--------------|-------------|--------------------|-------------------------------------|-----------|------------|
|   | mm              | mm    | mm           | mm          | mm                 | mm                                  |           | EUR        |
| For inserts with shank dimensions, dia. 3.5 x 13.5 mm |                 |       |              |             |                    |                                     |           |            |
|   | 0 - 25          | 0.5   | 20           | 0.004       | 25                 | -                                   | 0870 301  | 328.00     |
|   | 25 - 50         | 0.5   | 20           | 0.004       | 25                 | 25                                  | 0870 302  | 343.00     |
|   | 50 - 75         | 0.5   | 20           | 0.005       | 25                 | 50                                  | 0870 303  | 369.00     |
|   | 75 - 100        | 0.5   | 20           | 0.005       | 25                 | 75                                  | 0870 304  | 403.00     |
|   | 100 - 125       | 0.5   | 20           | 0.006       | 25                 | 100                                 | 0870 305  | 442.00     |
|   | 125 - 150       | 0.5   | 20           | 0.006       | 25                 | 125                                 | 0870 306  | 480.00     |
|   | 150 - 200       | 0.5   | 20           | 0.007       | 50                 | 175                                 | 0870 307  | 685.00     |
|   | 200 - 250       | 0.5   | 20           | 0.008       | 50                 | 225                                 | 0870 309  | 748.00     |
|   | 250 - 300       | 0.5   | 20           | 0.009       | 50                 | 275                                 | 0870 311  | 823.00     |

## 0870 Thread flank inserts for external measurement



### Model

- Made of hardened special steel and finely grinded
- Every insert is inscribed with the pitch details
- In a set (V-anvil + tapered anvil)
- Shank dimensions: 3.5 x 13.5 mm

| Icon  | Pitch angle in degrees | Pitch mm    | Applicable for UNC, UNF 60° | Thread pitch in TPI mm | Order no. | List price EUR |
|---|------------------------|-------------|-----------------------------|------------------------|-----------|----------------|
| <b>Metric ISO - threads</b>                     |                        |             |                             |                        |           |                |
|   | 60 °                   | 0.35 - 0.50 | 72 - 48                     |                        | 0870 901  | 124.00         |
|   | 60 °                   | 0.60 - 0.80 | 44 - 32                     |                        | 0870 903  | 107.00         |
|   | 60 °                   | 0.90 - 1.25 | 28 - 18                     |                        | 0870 905  | 107.00         |
|   | 60 °                   | 1.5 - 2.0   | 16 - 11                     |                        | 0870 907  | 107.00         |
|   | 60 °                   | 2.5 - 3.5   | 10 - 7                      |                        | 0870 909  | 107.00         |
|   | 60 °                   | 4.0 - 6.0   | 6 - 4                       |                        | 0870 911  | 124.00         |
| <b>Whitworth - threads</b>                      |                        |             |                             |                        |           |                |
|   | 55 °                   |             |                             | 60 - 48                | 0870 921  | 135.00         |
|   | 55 °                   |             |                             | 40 - 32                | 0870 923  | 117.00         |
|   | 55 °                   |             |                             | 28 - 22                | 0870 925  | 117.00         |
|   | 55 °                   |             |                             | 20 - 16                | 0870 927  | 117.00         |
|   | 55 °                   |             |                             | 14 - 11                | 0870 929  | 117.00         |
|   | 55 °                   |             |                             | 10 - 7                 | 0870 931  | 117.00         |
|   | 55 °                   |             |                             | 6 - 4                  | 0870 933  | 135.00         |
| <b>Metric ISO - Trapezoid threads (DIN 103)</b> |                        |             |                             |                        |           |                |
|   | 30 °                   | 1.5         |                             |                        | 0870 941  | 318.00         |
|   | 30 °                   | 2.0         |                             |                        | 0870 943  | 231.00         |
|   | 30 °                   | 3.0         |                             |                        | 0870 945  | 203.00         |
|   | 30 °                   | 4.0         |                             |                        | 0870 947  | 203.00         |
|   | 30 °                   | 5.0 - 6.0   |                             |                        | 0870 949  | 203.00         |
|   | 30 °                   | 7.0 - 8.0   |                             |                        | 0870 951  | 203.00         |
|   | 30 °                   | 9.0 - 10.0  |                             |                        | 0870 953  | 231.00         |
|   | 30 °                   | 12.0 - 14.0 |                             |                        | 0870 955  | 318.00         |





## 0870 Thread flank setting gauges for external measurement



### Model

- Measuring faces made of hardened special steel
- One end is rounded, the lapped bore simplifies the fitting upon the conical insert
- Thermally insulated handle
- **Note: With trapezoid treads every pitch requires a separate setting standard**

|   | Length<br>mm | Pitch angle in degrees | Available for following pitches<br>mm    | Error limit<br>µm | Order no. | List price<br>EUR |
|---|--------------|------------------------|--|-------------------|-----------|-------------------|
| <b>Metric ISO - threads</b>   |              |                        |  |                   |           |                   |
|   | 25           | 60 °                   |  | 3                 | 0870 801  | 78.00             |
|   | 50           | 60 °                   |  | 3                 | 0870 802  | 79.00             |
|   | 75           | 60 °                   |  | 3                 | 0870 803  | 80.00             |
|   | 100          | 60 °                   |  | 4                 | 0870 804  | 81.00             |
|   | 125          | 60 °                   |  | 4                 | 0870 805  | 82.00             |
|   | 175          | 60 °                   |  | 4                 | 0870 807  | 91.00             |
|   | 225          | 60 °                   |  | 4                 | 0870 809  | 103.00            |
|   | 275          | 60 °                   |  | 4                 | 0870 811  | 113.00            |
| <b>Whitworth - threads</b>  |              |                        |  |                   |           |                   |
|   | 25           | 55 °                   |  | 3                 | 0870 821  | 78.00             |
|   | 50           | 55 °                   |  | 3                 | 0870 822  | 79.00             |
|   | 75           | 55 °                   |  | 3                 | 0870 823  | 80.00             |
|   | 100          | 55 °                   |  | 4                 | 0870 824  | 86.00             |
|   | 125          | 55 °                   |  | 4                 | 0870 825  | 87.00             |
|   | 175          | 55 °                   |  | 4                 | 0870 827  | 100.00            |
|   | 225          | 55 °                   |  | 4                 | 0870 829  | 114.00            |
|   | 275          | 55 °                   |  | 4                 | 0870 831  | 131.00            |
| <b>Metric ISO - Trapezoid threads (DIN 103)*</b>  |              |                        |  |                   |           |                   |
|   | 25           | 30 °                   | 2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10       | 4                 | 0870 841  | 170.00            |
|   | 50           | 30 °                   | 2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10       | 4                 | 0870 842  | 175.00            |
|   | 75           | 30 °                   | 2 / 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10       | 4                 | 0870 843  | 180.00            |
|   | 100          | 30 °                   | 3 / 4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14 | 5                 | 0870 844  | 187.00            |
|   | 125          | 30 °                   | 4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14     | 5                 | 0870 845  | 203.00            |
|   | 175          | 30 °                   | 4 / 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14     | 5                 | 0870 847  | 242.00            |
|   | 225          | 30 °                   | 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14         | 5                 | 0870 849  | 295.00            |
|   | 275          | 30 °                   | 5 - 6 / 7 - 8 / 9 - 10 / 12 - 14         | 5                 | 0870 851  | 362.00            |

\* When ordering the respective pitch must be specified



## 0864 Disc micrometers to measure gear tooth



**DIN**  
**863-3**

### Model

- DIN 863-3
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Modul 0.8 - 6
- Ratchet stop
- Hardened measuring faces
- Locking ring
- Friction coupling
- Thermally insulated

### Delivery

- Wooden case

| ✕ | ✕ | Measuring range<br>mm | Disc dia.<br>mm | Pitch<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-----------------|-------------|--------------------|-------------------|-----------|-------------------|
|   |   | 0 - 25                | 25              | 0.5         | 20                 | 0.004             | 0864 321  | 330.00            |
|   |   | 25 - 50               | 25              | 0.5         | 20                 | 0.004             | 0864 322  | 396.00            |
|   |   | 50 - 75               | 25              | 0.5         | 20                 | 0.005             | 0864 323  | 429.00            |
|   |   | 75 - 100              | 25              | 0.5         | 20                 | 0.005             | 0864 324  | 466.00            |
|   |   | 100 - 125             | 25              | 0.5         | 20                 | 0.006             | 0864 325  | 503.00            |
|   |   | 125 - 150             | 25              | 0.5         | 20                 | 0.006             | 0864 326  | 539.00            |
|   |   | 150 - 175             | 25              | 0.5         | 20                 | 0.007             | 0864 327  | 579.00            |
|   |   | 175 - 200             | 25              | 0.5         | 20                 | 0.007             | 0864 328  | 619.00            |

## 0890 Wire thickness micrometer



### Model

- Factory standard
- Reading: 0.01 mm
- Readings parts are satin chrome finished
- Ratchet stop
- Carbide measuring faces

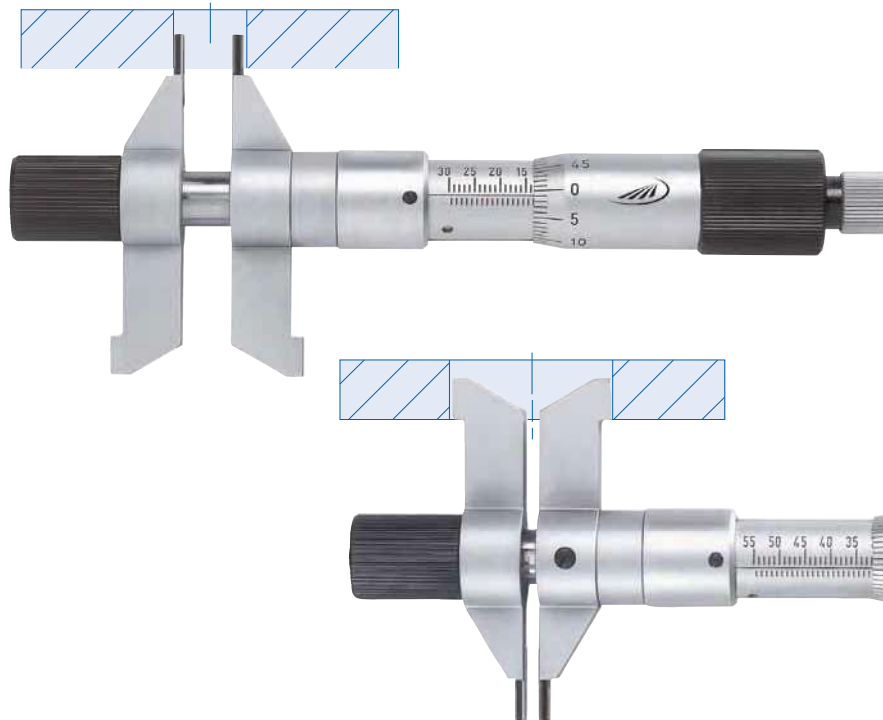
### Delivery

- Cardboard box

| ✕ | ✕ | Measuring range<br>mm | Pitch<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-------------|--------------------|--------------------|-----------|-------------------|
|   |   | 0 - 10                | 0.5         | 6                  | 18                 | 0890 511  | 69.00             |



## 0884 Internal micrometer with measuring jaws



### Model

**DIN**  
**863-4**

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Forward friction coupling
- Cylindrical carbide tipped measuring faces
- Measuring jaws on both sides (measuring ranges 5-30 mm, 30-55 mm)
- Divisions on both sides

### Delivery

- Wooden case

| ✂ | ✂ | Measuring range<br>mm | Thimble dia.<br>mm | Pitch<br>mm | Error limit<br>μm | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------------|-------------|-------------------|-----------|-------------------|
|   |   | 5 - 55                | 20                 | 0.5         | 2.5               | 0884 501  | 885.00            |

## 0885 Internal micrometers with measuring jaws



0885 502

### Model

- Factory standard
- Reading: 0.01 mm
- Reading parts and body are satin chrome finished
- Ratchet stop
- Carbide measuring faces
- Cylindrical carbide tipped measuring faces

### Delivery

- Plastic case

| ✂ | ✂ | Measuring range<br>mm | Thimble dia.<br>mm | Pitch<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------------|-------------|-----------|-------------------|
|   |   | 5 - 30                | 17                 | 0.5         | 0885 501* | 183.00            |
|   |   | 25 - 50               | 17                 | 0.5         | 0885 502  | 203.00            |
|   |   | 50 - 75               | 17                 | 0.5         | 0885 503  | 213.00            |
|   |   | 75 - 100              | 17                 | 0.5         | 0885 504  | 255.00            |
|   |   | 100 - 125             | 17                 | 0.5         | 0885 505  | 324.00            |
|   |   | 125 - 150             | 17                 | 0.5         | 0885 506  | 374.00            |
|   |   | 150 - 175             | 17                 | 0.5         | 0885 507  | 476.00            |
|   |   | 175 - 200             | 17                 | 0.5         | 0885 508  | 540.00            |

## 0888 Internal micrometers cylindrical version



### Model

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Carbide measuring faces dia. 6 mm, spherical lapped
- From measuring range 100 - 125 mm with thermal insulation

**DIN**  
**863-4**

- From measuring range 100 - 125 mm with locking ring

### Delivery

- Wooden case

| ⌂ | ☒ | Measuring range<br>mm | Thimble dia.<br>mm | Pitch<br>mm | Error limit<br>μm | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------------|-------------|-------------------|-----------|-------------------|
|   |   | 25 - 30               | 15                 | 0.5         | 4                 | 0888 501  | 171.00            |
|   |   | 30 - 35               | 15                 | 0.5         | 4                 | 0888 502  | 171.00            |
|   |   | 35 - 50               | 15                 | 0.5         | 4                 | 0888 503  | 171.00            |
|   |   | 50 - 75               | 16                 | 0.5         | 5                 | 0888 504  | 179.00            |
|   |   | 75 - 100              | 17                 | 0.5         | 5                 | 0888 505  | 185.00            |
|   |   | 100 - 125             | 20                 | 0.5         | 6                 | 0888 506  | 207.00            |
|   |   | 125 - 150             | 20                 | 0.5         | 6                 | 0888 507  | 212.00            |
|   |   | 150 - 175             | 20                 | 0.5         | 7                 | 0888 508  | 219.00            |
|   |   | 175 - 200             | 20                 | 0.5         | 7                 | 0888 509  | 228.00            |
|   |   | 200 - 225             | 20                 | 0.5         | 8                 | 0888 510  | 234.00            |
|   |   | 225 - 250             | 20                 | 0.5         | 8                 | 0888 511  | 241.00            |
|   |   | 250 - 275             | 20                 | 0.5         | 9                 | 0888 512  | 249.00            |
|   |   | 275 - 300             | 20                 | 0.5         | 9                 | 0888 513  | 259.00            |
|   |   | 300 - 325             | 20                 | 0.5         | 10                | 0888 514  | 269.00            |
|   |   | 325 - 350             | 20                 | 0.5         | 10                | 0888 515  | 275.00            |
|   |   | 350 - 375             | 20                 | 0.5         | 11                | 0888 516  | 287.00            |
|   |   | 375 - 400             | 20                 | 0.5         | 11                | 0888 517  | 293.00            |
|   |   | 400 - 425             | 20                 | 0.5         | 12                | 0888 518  | 304.00            |
|   |   | 425 - 450             | 20                 | 0.5         | 12                | 0888 519  | 314.00            |
|   |   | 450 - 475             | 20                 | 0.5         | 13                | 0888 520  | 321.00            |
|   |   | 475 - 500             | 20                 | 0.5         | 13                | 0888 521  | 328.00            |

## 0888 Holder for internal micrometers



### Model

- Ideal for all internal micrometers from series 0888 / 0892
- Length 200 mm

| ⌂ | ☒ | Order no. | List price<br>EUR |
|---|---|-----------|-------------------|
|   |   | 0888 101  | 55.00             |



## 0892 Internal micrometers with interchangeable extensions



**DIN**  
**863-4**



0892 501

### Model

- DIN 863-4
- Reading: 0.01 mm
- Reading parts are satin chrome finished

### Delivery

- Threaded extension rods with thermally insulated handle
- Carbide measuring faces, spherical lapped
- Wooden case

| ✂ | Measuring range | Thimble dia. | Pitch | Extensions                      | Error limit | Order no. | List price |
|---|-----------------|--------------|-------|---------------------------------|-------------|-----------|------------|
|   | mm              | mm           | mm    |                                 | μm          |           | EUR        |
|   | 50 - 150        | 17           | 0.5   | 25 / 50                         | 6           | 0892 501  | 419.00     |
|   | 50 - 250        | 17           | 0.5   | 25 / 50 / 100                   | 8           | 0892 502  | 514.00     |
|   | 50 - 450        | 17           | 0.5   | 25 / 50 / 100 / 200             | 10          | 0892 503  | 633.00     |
|   | 50 - 850        | 17           | 0.5   | 25 / 50 / 100 / 200 / 400       | 12          | 0892 504  | 798.00     |
|   | 50 - 1450       | 17           | 0.5   | 25 / 50 / 100 / 200 / 400 / 600 | 15          | 0892 505  | 1013.00    |

## 0892 Extensions for internal micrometers



0892 334

| ✂ | Length | Order no. | List price |
|---|--------|-----------|------------|
|   | mm     |           | EUR        |
|   | 25     | 0892 332  | 79.00      |
|   | 50     | 0892 333  | 80.00      |
|   | 100    | 0892 334  | 89.00      |
|   | 200    | 0892 336  | 109.00     |
|   | 400    | 0892 339  | 144.00     |
|   | 600    | 0892 340  | 203.00     |

## 0894 Precision internal micrometers with extensions

**DIN**  
**863-4**



### Model

- DIN 863-4
- Measuring ends: dia. 7 mm x 6 mm long, carbide tipped spherical lapped
- Thread pitch 1 mm
- Internal spring mounted rods with thermal protective sleeves

- Extensions greater than 100 mm: external steel tube dia. 17 mm, with thermal insulation
- Extensions 500 and 1000 mm: strengthened specification - steel tube dia. 32 mm

- Basic internal micrometer is adjustable: 50 mm. The spindle is tight, so that during measurement the thimble does not adjust itself.

### Delivery

- Wooden case

| ✕ | Measuring range<br>mm | Length of extensions mm<br>(tube dia. 17 mm) | Length of extensions mm<br>(tube dia. 32 mm) | Error limit<br>µm | Order no. | List price<br>EUR |
|---|-----------------------|--|--|-------------------|-----------|-------------------|
|   | 100 - 150             | only micrometer, excludes case               | -  | 4                 | 0894 504  | 249.00            |
|   | 100 - 300             | 50 / 100                                     | -  | 7                 | 0894 510  | 663.00            |
|   | 100 - 500             | 50 / 100 / 200                               | -  | 9                 | 0894 514  | 895.00            |
|   | 100 - 900             | 50 / 100 / 200 / 400                         | -  | 11                | 0894 518  | 1156.00           |
|   | 100 - 1300            | 50 / 100 / 200 / 400 / 400                   | -  | 13                | 0894 522  | 1423.00           |
|   | 100 - 1700            | 50 / 100 / 200 / 400 / 800                   | -  | 15                | 0894 526  | 1464.00           |
|   | 100 - 2100            | 50 / 100 / 200 / 400 / 400 / 800             | -  | 18                | 0894 530  | 1717.00           |
|   | 100 - 2500            | 50 / 100 / 200 / 400 / 800 / 800             | -  | 21                | 0894 534  | 1763.00           |
|   | 100 - 2000            | 50 / 100 / 200 / 200                         | 500 / 1 x 1000                               | 18                | 0894 538  | 3078.00           |
|   | 100 - 3000            | 50 / 100 / 200 / 200                         | 500 / 2 x 1000                               | 30                | 0894 542  | 4015.00           |
|   | 100 - 4000            | 50 / 100 / 200 / 200                         | 500 / 3 x 1000                               | 40                | 0894 546  | 4984.00           |
| ▪ | 100 - 5000            | 50 / 100 / 200 / 200                         | 500 / 4 x 1000                               | 50                | 0894 550  | 5921.00           |
| ▪ | 100 - 6000            | 50 / 100 / 200 / 200                         | 500 / 5 x 1000                               | 60                | 0894 554  | 6859.00           |

With the larger measuring ranges we recommend that the ends of the precision internal micrometer to be placed and/or held on 2 points with an approximate distance of 22% of the measuring length, thus minimizing deflection. The error indicated in the table above refers to the maximum deflection of the appropriate set. When smaller dimensions are measured, the error is smaller and corresponds to the error value of the smaller sets.

## 0894 Individual extensions



| ✕ | Length<br>mm | Tube dia.<br>mm | Order no. | List price<br>EUR |
|---|--------------|-----------------|-----------|-------------------|
|   | 50           | 17              | 0894 804  | 179.00            |
|   | 100          | 17              | 0894 806  | 203.00            |
|   | 200          | 17              | 0894 810  | 219.00            |
|   | 400          | 17              | 0894 820  | 242.00            |
|   | 800          | 17              | 0894 834  | 275.00            |
|   | 500          | 32              | 0894 854  | 904.00            |
|   | 1000         | 32              | 0894 872  | 938.00            |



## 1921 3 point internal micrometers



**DIN  
863-4**



1921 512



1921 534

### Model

- DIN 863-4
- Reading: 0.001 mm\*
- Reading: 0.005 mm
- Reading parts are satin chrome finished
- Pitch 0.5 mm
- Carbide tipped measuring pins from measuring range 12 mm

### Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for ring and micrometer



**Inclusive!**

| ✕ | 📏 | Measuring range<br>mm | Measuring depth<br>mm | Thimble dia.<br>mm | Error limit<br>µm | Order no. | List price<br>EUR |
|---|---|-----------------------|-----------------------|--------------------|-------------------|-----------|-------------------|
| ▪ |   | 6 - 8                 | 58                    | 16                 | 4                 | 1921 510* | 398.00            |
| ▪ |   | 8 - 10                | 58                    | 16                 | 4                 | 1921 512* | 398.00            |
| ▪ |   | 10 - 12               | 58                    | 16                 | 4                 | 1921 514* | 398.00            |
| ▪ |   | 12 - 16               | 64                    | 16                 | 4                 | 1921 516* | 398.00            |
| ▪ |   | 16 - 20               | 64                    | 16                 | 4                 | 1921 518* | 422.00            |
| ▪ |   | 20 - 25               | 68                    | 25                 | 4                 | 1921 520  | 433.00            |
| ▪ |   | 25 - 30               | 68                    | 25                 | 4                 | 1921 522  | 439.00            |
| ▪ |   | 30 - 40               | 76                    | 25                 | 4                 | 1921 524  | 493.00            |
| ▪ |   | 40 - 50               | 76                    | 25                 | 4                 | 1921 526  | 493.00            |
| ▪ |   | 50 - 60               | 79                    | 25                 | 5                 | 1921 528  | 568.00            |
| ▪ |   | 60 - 70               | 79                    | 25                 | 5                 | 1921 530  | 585.00            |
| ▪ |   | 70 - 85               | 97                    | 25                 | 5                 | 1921 532  | 601.00            |
| ▪ |   | 85 - 100              | 97                    | 25                 | 5                 | 1921 534  | 617.00            |
| ▪ |   | 100 - 125             | 132                   | 25                 | 6                 | 1921 536  | 866.00            |
| ▪ |   | 125 - 150             | 132                   | 25                 | 6                 | 1921 538  | 1023.00           |
| ▪ |   | 150 - 175             | 132                   | 25                 | 7                 | 1921 540  | 1077.00           |
| ▪ |   | 175 - 200             | 132                   | 25                 | 7                 | 1921 542  | 1137.00           |

## 1920 Set of 3 point internal micrometers



**DIN**  
**863-4**



### Model

- DIN 863-4
- Reading: 0.001 mm\*
- Reading: 0.005 mm
- Reading parts are satin chrome finished
- Pitch 0.5 mm
- Carbide tipped measuring pins from measuring range 12 mm
- Ratchet stop
- From measuring range 12 mm for through and blind holes

### Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for ring and micrometer

2

| ✕ | ☒ | Measuring range<br>mm | Thimble dia.<br>mm | Number of<br>devices | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------------|----------------------|-----------|-------------------|
| ▪ |   | 6 - 12                | 16                 | 3                    | 1920 574  | 1126.00           |
| ▪ |   | 12 - 20               | 16                 | 2                    | 1920 576  | 790.00            |
| ▪ |   | 20 - 50               | 25                 | 4                    | 1920 578  | 1949.00           |
| ▪ |   | 50 - 100              | 25                 | 4                    | 1920 580  | 2328.00           |

## 1920 Measuring depth extensions for 3 point internal micrometers



### Model

- Suitable for devices 1920, 1921, 1923 and 1924



| ✕ | ☒ | Measuring range<br>mm | Length<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------|-----------|-------------------|
|   |   | 6 - 12                | 75           | 1920 910  | 92.00             |
|   |   | 12 - 20               | 75           | 1920 914  | 98.00             |
|   |   | 20 - 30               | 100          | 1920 920  | 103.00            |
|   |   | 30 - 200              | 100          | 1920 924  | 124.00            |



## 1923 DIGI-MET® 3 point internal micrometers



### Model

- DIN 863-4
- Reading: 0.001 mm / .00005 inch
- Protection class IP52
- LCD display 8.5 mm
- Ratchet stop
- For through holes
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces

### Functions

- ON / OFF
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the Preset value)
- **Quick-Lock** (key lock)
- PRESET-Function (setting a numerical value)
- Variable data output RS 232 + Digimatic + USB

### Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for setting ring and micrometer



**Inclusive!**

| Marked | Measuring range<br>mm | Measuring depth<br>mm | Error limit<br>µm | Order no. | List price<br>EUR |
|--------|-----------------------|-----------------------|-------------------|-----------|-------------------|
| ▪      | 6 - 8                 | 58                    | 4                 | 1923 510  | 1099.00           |
| ▪      | 8 - 10                | 58                    | 4                 | 1923 512  | 1099.00           |
| ▪      | 10 - 12               | 58                    | 4                 | 1923 514  | 1110.00           |
| ▪      | 12 - 16               | 64                    | 4                 | 1923 516  | 1110.00           |
| ▪      | 16 - 20               | 64                    | 4                 | 1923 518  | 1157.00           |
| ▪      | 20 - 25               | 68                    | 4                 | 1923 520  | 1177.00           |
| ▪      | 25 - 30               | 68                    | 4                 | 1923 522  | 1188.00           |
| ▪      | 30 - 40               | 76                    | 4                 | 1923 524  | 1240.00           |
| ▪      | 40 - 50               | 76                    | 4                 | 1923 526  | 1245.00           |
| ▪      | 50 - 60               | 79                    | 5                 | 1923 528  | 1339.00           |
| ▪      | 60 - 70               | 79                    | 5                 | 1923 530  | 1370.00           |
| ▪      | 70 - 85               | 97                    | 5                 | 1923 532  | 1401.00           |
| ▪      | 85 - 100              | 97                    | 5                 | 1923 534  | 1454.00           |
| ▪      | 100 - 125             | 132                   | 6                 | 1923 536  | 1766.00           |
| ▪      | 125 - 150             | 132                   | 6                 | 1923 538  | 1975.00           |
| ▪      | 150 - 175             | 132                   | 7                 | 1923 540  | 2126.00           |
| ▪      | 175 - 200             | 132                   | 7                 | 1923 542  | 2308.00           |



1998720



1998501



1997501

### Accessories

|                                       | Order no. | List price<br>EUR |
|---------------------------------------|-----------|-------------------|
| Battery, 3V-Lithium, CR 2032          | 0220 704  | 3.90              |
| Data cable DATA VARIABLE to RS232     | 1997 501  | 50.00             |
| Data cable DATA VARIABLE to digimatic | 1998 501  | 64.00             |
| Data cable DATA VARIABLE to USB       | 1998 720  | 72.00             |



## 1923 DIGI-MET® Set of 3 point internal micrometers



### Delivery

- Plastic case
- Incl. setting ring
- Calibration certificate for setting ring and micrometer



| Measuring range | Error limit | Number of devices | Order no. | List price |
|-----------------|-------------|-------------------|-----------|------------|
| mm              | µm          |                   |           | EUR        |
| 6 - 12          | 4           | 3                 | 1923 574  | 1771.00    |
| 12 - 20         | 4           | 2                 | 1923 576  | 1563.00    |
| 20 - 50         | 4           | 4                 | 1923 578  | 2292.00    |
| 50 - 100        | 5           | 4                 | 1923 580  | 2813.00    |



1998720



1998501



1997501

### Accessories

|                                       | Order no. | List price |
|---------------------------------------|-----------|------------|
|                                       |           | EUR        |
| Battery, 3V-Lithium, CR 2032          | 0220 704  | 3.90       |
| Data cable DATA VARIABLE to RS232     | 1997 501  | 50.00      |
| Data cable DATA VARIABLE to digimatic | 1998 501  | 64.00      |
| Data cable DATA VARIABLE to USB       | 1998 720  | 72.00      |

## 1923 DIGI-MET® Basic unit for 3 point internal micrometers



### Model

- Reading: 0.001 mm / .00005 inch
- Protection class IP52
- LCD display 8.5 mm
- Ratchet stop
- Mounting thread for changing of measuring heads

### Functions

- ON / OFF
- Set to zero at any point
- mm / inch switching
- ABS (display can be set to zero without losing the Preset value)
- Quick-Lock (key lock)
- PRESET-Function (setting a numerical value)
- Variable data output RS 232 + Digimatic + USB

| Measuring range | Order no. | List price |
|-----------------|-----------|------------|
| mm              |           | EUR        |
| 6 - 20          | 1923 100  | 797.00     |
| 20 - 100        | 1923 200  | 797.00     |
| 100 - 200       | 1923 300  | 797.00     |

Single measuring heads on page 106



## 1924 DIGI-MET® 3 point internal measuring pistols



### Model

- For through holes
- Mounting thread for changing of measuring heads
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces
- Digital indicator recommended as display device

### Delivery

- Plastic case
- Incl. setting ring
- Without display device
- Calibration certificate

**for setting ring included**



**Inclusive!**

| ✂ | 📏 | Measuring range<br>mm | Measuring depth<br>mm | Order no. | List price<br>EUR |
|---|---|-----------------------|-----------------------|-----------|-------------------|
| ▪ |   | 6 - 8                 | 58                    | 1924 510  | 818.00            |
| ▪ |   | 8 - 10                | 58                    | 1924 512  | 818.00            |
| ▪ |   | 10 - 12               | 58                    | 1924 514  | 828.00            |
| ▪ |   | 12 - 16               | 64                    | 1924 516  | 839.00            |
| ▪ |   | 16 - 20               | 64                    | 1924 518  | 870.00            |
| ▪ |   | 20 - 25               | 68                    | 1924 520  | 870.00            |
| ▪ |   | 25 - 30               | 68                    | 1924 522  | 901.00            |
| ▪ |   | 30 - 40               | 76                    | 1924 524  | 948.00            |
| ▪ |   | 40 - 50               | 76                    | 1924 526  | 953.00            |
| ▪ |   | 50 - 60               | 79                    | 1924 528  | 1037.00           |
| ▪ |   | 60 - 70               | 79                    | 1924 530  | 1078.00           |
| ▪ |   | 70 - 85               | 97                    | 1924 532  | 1115.00           |
| ▪ |   | 85 - 100              | 97                    | 1924 534  | 1167.00           |
| ▪ |   | 100 - 125             | 132                   | 1924 536  | 1438.00           |
| ▪ |   | 125 - 150             | 132                   | 1924 538  | 1657.00           |
| ▪ |   | 150 - 175             | 132                   | 1924 540  | 1771.00           |
| ▪ |   | 175 - 200             | 132                   | 1924 542  | 1980.00           |



1726506



172650660

### Accessories

- DIGI-MET® Indicator
- DIGI-MET® Indicator with integrated wireless

### Order no.

1726 506  
172650 660

### List price EUR

380.00  
425.00

Calibration certificate for pistol and head only possible in combination with an Indicator

## 1924 DIGI-MET® Set of 3 point internal measuring pistols



### Model

- For through holes
- From measuring range 12 mm for through and blind holes
- From measuring range 12 mm with carbide tipped measuring faces
- Digital indicator recommended as display device

### Delivery

- Plastic case
- Incl. setting ring
- Without display device
- Calibration certificate **for setting ring** included

| Measuring range<br>mm | Number of<br>devices | Order no. | List price<br>EUR |
|-----------------------|----------------------|-----------|-------------------|
| 6 - 12                | 3                    | 1924 574  | 1459.00           |
| 12 - 20               | 2                    | 1924 576  | 1250.00           |
| 20 - 50               | 4                    | 1924 578  | 2084.00           |
| 50 - 100              | 4                    | 1924 580  | 2709.00           |

Calibration certificate for pistol and head on request, only possible in combination with an Indicator

## 1924 DIGI-MET® Basic unit for 3 point internal measuring pistols



### Model

- Mounting thread for changing of measuring heads
- Support for indicators with shaft Ø 8 mm
- Measuring range 6-100 mm incl. adapter for 6-20 mm

### Delivery

- Plastic case

| Measuring range<br>mm | Order no. | List price<br>EUR |
|-----------------------|-----------|-------------------|
| 6 - 100               | 1924 100  | 500.00            |
| 20 - 100              | 1924 200  | 500.00            |
| 100 - 200             | 1924 300  | 584.00            |

### Accessories

| Accessories   | Order no. | List price<br>EUR |
|---|-----------|-------------------|
| Replacement adapter 6-20 mm for measuring pistol 1924 100 | 1924 190  | 79.00             |

Single measuring heads on page 106



## 1922 Individual measuring heads for 1923 / 1924



1922 512



1922 534

### Model

- Self centering measuring head with three anvils, offset at intervals of 120°
- From measuring range 12 mm with carbide tipped measuring faces
- From measuring range 12 mm for through and blind holes
- From measuring range 40 mm, measuring heads are made of aluminium to reduce weight
- Can only be used on digital internal micrometers

| Measuring range<br>mm | Order no. | List price<br>EUR |
|-----------------------|-----------|-------------------|
| 6 - 8                 | 1922 510  | 302.00            |
| 8 - 10                | 1922 512  | 302.00            |
| 10 - 12               | 1922 514  | 307.00            |
| 12 - 16               | 1922 516  | 307.00            |
| 16 - 20               | 1922 518  | 318.00            |
| 20 - 25               | 1922 520  | 328.00            |
| 25 - 30               | 1922 522  | 339.00            |
| 30 - 40               | 1922 524  | 380.00            |
| 40 - 50               | 1922 526  | 380.00            |
| 50 - 60               | 1922 528  | 453.00            |
| 60 - 70               | 1922 530  | 464.00            |
| 70 - 85               | 1922 532  | 479.00            |
| 85 - 100              | 1922 534  | 495.00            |
| 100 - 125             | 1922 536  | 724.00            |
| 125 - 150             | 1922 538  | 880.00            |
| 150 - 175             | 1922 540  | 953.00            |
| 175 - 200             | 1922 542  | 985.00            |

## 1920 Measuring depth extensions for 3 point internal micrometers



### Model

- Suitable for devices 1920, 1921, 1923 and 1924

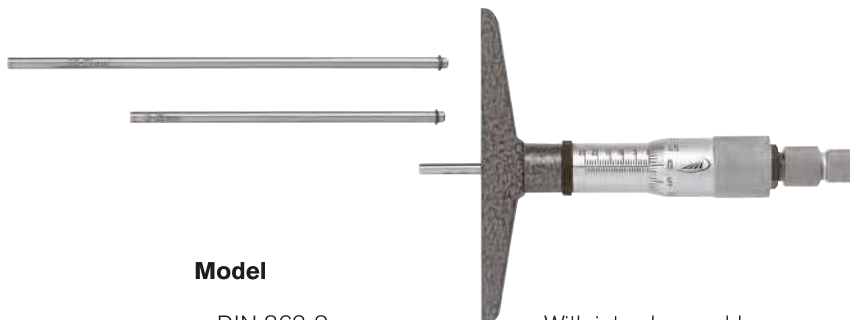


| Measuring range<br>mm | Length<br>mm | Order no. | List price<br>EUR |
|-----------------------|--------------|-----------|-------------------|
| 6 - 12                | 75           | 1920 910  | 92.00             |
| 12 - 20               | 75           | 1920 914  | 98.00             |
| 20 - 30               | 150          | 1920 920  | 103.00            |
| 30 - 200              | 150          | 1920 924  | 124.00            |

## 0882 Depth micrometers



**DIN**  
**863-2**



### Model

- DIN 863-2
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Locking ring
- Friction coupling

### Delivery

- Wooden case

| »  | ⚙ | Measuring range<br>mm | Length of beam<br>mm | Pitch<br>mm | Thimble dia.<br>mm | Error limit<br>mm | Order no. | List price<br>EUR |
|--|---|-----------------------|----------------------|-------------|--------------------|-------------------|-----------|-------------------|
| Measuring faces dia. 0.8 mm, length 8.5 mm |   |                       |                      |             |                    |                   |           |                   |
|  |   | 0 - 50                | 50                   | 0.5         | 20                 | 0.004             | 0882 300  | 293.00            |
|  |   | 0 - 75                | 50                   | 0.5         | 20                 | 0.005             | 0882 301  | 319.00            |
|  |   | 0 - 100               | 100                  | 0.5         | 20                 | 0.005             | 0882 303  | 350.00            |
|  |   | 0 - 150               | 100                  | 0.5         | 20                 | 0.006             | 0882 304  | 410.00            |
|  |   | 0 - 300               | 100                  | 0.5         | 20                 | 0.009             | 0882 306  | 660.00            |

## 0886 Micrometer heads



**DIN**  
**863-2**



### Model

- DIN 863-2
- Reading: 0.01 mm
- Reading parts are satin chrome finished
- Carbide measuring faces

### Delivery

- Plastic case

| » | ⚙ | Measuring range<br>mm | Spindle dia.<br>mm | Thimble dia.<br>mm | Attachement dia.<br>mm | Error limit<br>mm | Description                        | Order no. | List price<br>EUR |
|---|---|-----------------------|--------------------|--------------------|------------------------|-------------------|------------------------------------|-----------|-------------------|
|   |   | 0 - 6.5               | 3.5                | 9.5                | 6.0                    | 0.003             | without ratchet stop               | 0886 503  | 24.40             |
|   |   | 0 - 13                | 6.5                | 13.5               | 9.5                    | 0.003             | without ratchet stop               | 0886 505  | 28.10             |
|   |   | 0 - 25                | 6.5                | 18                 | 12                     | 0.003             | with ratchet stop                  | 0886 507  | 24.40             |
|   |   | 0 - 25                | 8                  | 18                 | 12                     | 0.003             | ratchet stop, non-rotating spindle | 0886 513  | 43.30             |