

# Micromar 40 EWri

## Digital Micrometer Set

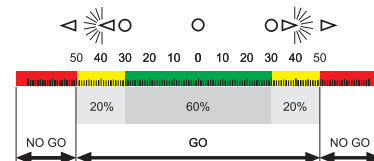


### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



40 EWri



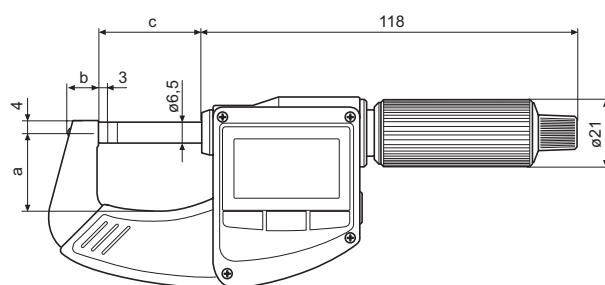
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 10 mm
- **Data interface:** Integrated wireless
- **Energy supply:** Battery life approx. 3 years (approx. 0.5 in Wireless mode)
- **IP protection category:** IP 65
- **Package contains:** instruction manual, battery, setting values, case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Parallelism deviation	Flatness deviation	Spindle thread pitch	Measuring force	Standard	Number of micrometers
		mm	inch	mm/inch	µm	µm	µm	mm	N		
4157100	40 EWri	0 -25	0 -1"	0.001 / .00005"	2	2	0.6	0.5	5 -10	Factory standard	
4157101	40 EWri	25 -50	1 -2"	0.001 / .00005"	2	2	0.6	0.5	5 -10	Factory standard	
4157102	40 EWri	50 -75	2 -3"	0.001 / .00005"	3	3	0.6	0.5	5 -10	Factory standard	
4157103	40 EWri	75 -100	3 -4"	0.001 / .00005"	3	3	0.6	0.5	5 -10	Factory standard	
4157104	40 EWri	100 -125	4 -5"	0.001 / .00005"	6	3	0.6	0.5	5 -10	DIN 863-1	
4157105	40 EWri	125 -150	5 -6"	0.001 / .00005"	6	3	0.6	0.5	5 -10	DIN 863-1	
4157106	40 EWri	150 -175	6 -7"	0.001 / .00005"	7	4	0.6	0.5	5 -10	DIN 863-1	
4157107	40 EWri	175 -200	7 -8"	0.001 / .00005"	7	4	0.6	0.5	5 -10	DIN 863-1	
4157115	40 EWri	0 -100	0 -4"	0.001 / .00005"				0.5	5 -10	Factory standard	4

Order no.	a	b	c
	mm	mm	mm
4157115			
4157100	24	9.5	32
4157101	36	11	57
4157102	45	13	82
4157103	57	13	107
4157104	73	13	132
4157105	82	13	157
4157106	95	13	182
4157107	106	13	207



### ACCESSORIES

Order no.	Product name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



41 H



i-Stick

# Micromar 40 EWR

Digital Micrometer

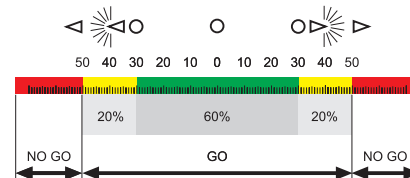


## FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission via connection cable)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



40 EWR



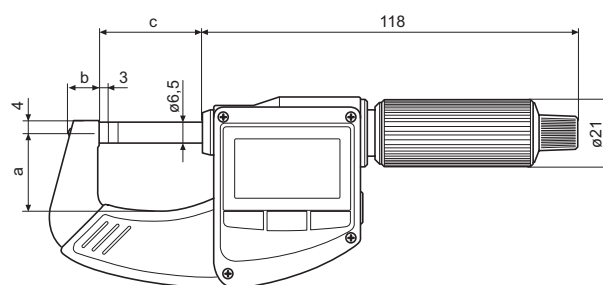
## FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 10 mm
- **Data interface:** MarConnect (bidirectional), USB, Digimatic
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 65
- **Package contains:** instruction manual, battery, setting standard (measuring range of 25–50 mm), case

## TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Parallelism deviation	Flatness deviation	Spindle thread pitch	Measuring force	Standard	Number of micrometers
		mm	inch	mm/inch	µm	µm	µm	mm	N		
4157000	40 EWR	0–25	0–1"	0.001 / .00005"	2	2	0.6	0.5	5–10	Factory standard	
4157001	40 EWR	25–50	1–2"	0.001 / .00005"	2	2	0.6	0.5	5–10	Factory standard	
4157002	40 EWR	50–75	2–3"	0.001 / .00005"	3	3	0.6	0.5	5–10	Factory standard	
4157003	40 EWR	75–100	3–4"	0.001 / .00005"	3	3	0.6	0.5	5–10	Factory standard	
4157004	40 EWR	100–125	4–5"	0.001 / .00005"	6	3	0.6	0.5	5–10	DIN 863-1	
4157005	40 EWR	125–150	5–6"	0.001 / .00005"	6	3	0.6	0.5	5–10	DIN 863-1	
4157006	40 EWR	150–175	6–7"	0.001 / .00005"	7	4	0.6	0.5	5–10	DIN 863-1	
4157007	40 EWR	175–200	7–8"	0.001 / .00005"	7	4	0.6	0.5	5–10	DIN 863-1	
4157015	40 EWR	0–100	0–4"	0.001 / .00005"				0.5	5–10	Factory standard	4

Order no.	a	b	c
	mm	mm	mm
4157000	24	9.5	32
4157001	36	11	57
4157002	45	13	82
4157003	57	13	107
4157004	73	13	132
4157005	82	13	157
4157006	95	13	182
4157007	106	13	207
4157015			



## ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102603	Data cable USB bi-directional (2 m)	DK-U1
4102606	Digimatic data cable (2 m)	DK-D1
4158000	Stand, for holding outside micrometers	41 H



41 H

# Micromar 40 ER

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- mm/inch
- HOLD (storage of measured values)
- LOCK function (key lock)

### FEATURES

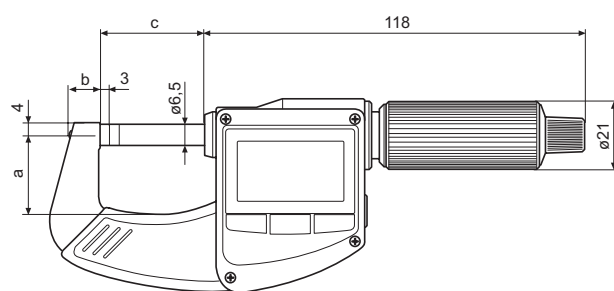
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Digit height: 10 mm
- IP protection category: IP 40
- Package contains: instruction manual, battery, case



### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch	mm/inch	µm	mm	N	
4157010	40 ER	0-25	0-1"	0.001 / .00005"	2	0.5	5-10	Factory standard

Order no.	a	b	c
	mm	mm	mm
4157010	24	9.5	32



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



41 H

# Micromar 40 EWR

## Digital Micrometer



ABS



REF system

### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to preset)
- mm/inch
- PRESET (for entering a numerical value)
- LOCK function (key lock)
- HOLD (storage of measured values)



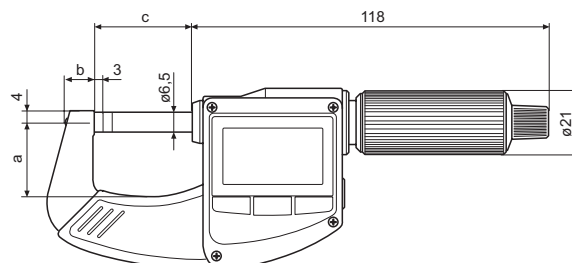
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- **Digit height:** 10 mm
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 65
- **Package contains:** instruction manual, battery, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch	mm/inch	µm	mm	N	
4157011	40 EWR	0–25	0–1"	0.001 / .00005"	2	0.5	5–10	Factory standard
4157012	40 EWR	25–50	1–2"	0.001 / .00005"	2	0.5	5–10	Factory standard
4157013	40 EWR	50–75	2–3"	0.001 / .00005"	3	0.5	5–10	Factory standard
4157014	40 EWR	75–100	3–4"	0.001 / .00005"	3	0.5	5–10	Factory standard

Order no.	a	b	c
	mm	mm	mm
4157011	24	9.5	32
4157012	36	11	57
4157013	45	13	82
4157014	57	13	107



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



41 H

# Micromar 40 EWri-L

## Digital Micrometer



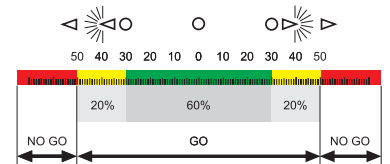
### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission via connection cable)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

- Avoiding workpiece damage: The non-rotating spindle has a touching contact, which prevents scratch marks on sensitive and finely machined surfaces
- Ideal for measuring thin metal foils without twisting and bending them
- Thread flank measurement by using thread wires: Both wire holders always remain in the engaged position with the non-rotating spindle



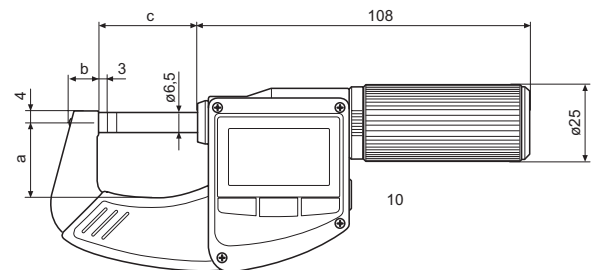
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: Integrated wireless
- Energy supply: Battery life approx. 2 years (approx. 0.5 in wireless mode)
- IP protection category: IP 65
- Package contains: instruction manual, battery, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolu- tion	Error limit	Paralle- lism devia- tion	Flatness devia- tion	Spindle thread pitch	Measur- ing force	Standard
		mm	inch	mm/inch	µm	µm	µm	mm	N	
4157120	40 EWri-L	0 – 25	0 – 1"	0.001 / .00005"	2	2	0.6	5	5 – 10	Factory standard
4157121	40 EWri-L	25 – 50	1 – 2"	0.001 / .00005"	2	2	0.6	5	5 – 10	Factory standard
4157122	40 EWri-L	50 – 75	2 – 3"	0.001 / .00005"	3	3	0.6	5	5 – 10	Factory standard
4157123	40 EWri-L	75 – 100	3 – 4"	0.001 / .00005"	3	3	0.6	5	5 – 10	Factory standard

Order no.	a	b	c
	mm	mm	mm
4157120	24	9.5	32
4157121	36	11	57
4157122	45	13	82
4157123	57	13	107



### ACCESSORIES

Order no.	Product name	Product type
4102220	Receiver for instruments with integrated wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



41 H



i-Stick



# Micromar 40 EWR-L

## Digital Micrometer



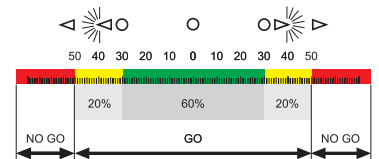
### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission via connection cable)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

- Avoiding workpiece damage: The non-rotating spindle has a touching contact, which prevents scratch marks on sensitive and finely machined surfaces
- Ideal for measuring thin metal foils without twisting and bending them
- Thread flank measurement by using thread wires: Both wire holders always remain in the engaged position with the non-rotating spindle



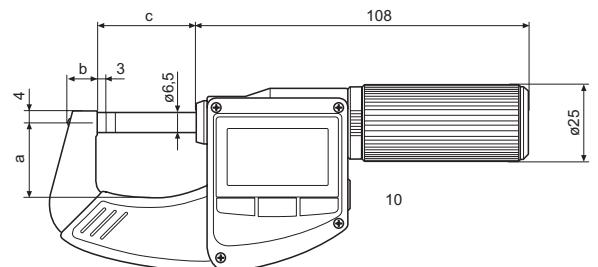
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: MarConnect (bidirectional), USB, Digimatic
- Energy supply: Battery life approx. 2 years
- IP protection category: IP 65
- Package contains: battery, instruction manual, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Parallelism deviation	Flatness deviation	Spindle thread pitch	Measuring force	Standard
		mm	inch	mm/inch	µm	µm	µm	mm	N	
4157020	40 EWR-L	0 – 25	0 – 1"	0.001 / .00005"	2	2	0.6	5	5 – 10	Factory standard
4157021	40 EWR-L	25 – 50	1 – 2"	0.001 / .00005"	2	2	0.6	5	5 – 10	Factory standard
4157022	40 EWR-L	50 – 75	2 – 3"	0.001 / .00005"	3	3	0.6	5	5 – 10	Factory standard
4157023	40 EWR-L	75 – 100	3 – 4"	0.001 / .00005"	3	3	0.6	5	5 – 10	Factory standard

Order no.	a	b	c
	mm	mm	mm
4157020	24	9.5	32
4157021	36	11	57
4157022	45	13	82
4157023	57	13	107



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102603	Data cable USB bi-directional (2 m)	DK-U1
4102606	Digimatic data cable (2 m)	DK-D1
4158000	Stand, for holding outside micrometers	41 H



41 H

# Micromar 40 EWRI-V

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

Universal adjustment to different workpiece and measurement situations using individual interchangeable measuring anvils. Thread flanks and spherical measuring anvils (optional accessories) can also be used.

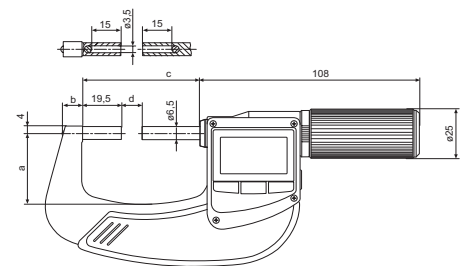
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- With mounting bores for measuring anvils with a shaft  $\varnothing$  3.5 mm
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: Integrated wireless
- Energy supply: Battery life approx. 3 years (approx. 0.5 in wireless mode)
- IP protection category: IP 65
- Scope of delivery: For each pair of measuring anvils:
  - 40 Ef flat  $\varnothing$  6.5 mm
  - 40 Ea offset  $\varnothing$  2 x 4 mm
  - 40 Et plate  $\varnothing$  11.3 mm
  - 40 Eb spherical R=5 mm
  - 40 Ep tapered 60°  $\varnothing$  0.3 - 5.5 mm
  - 40 Es blade 0.75 x 4 mm
- Package contains: instruction manual, battery, case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Spindle thread pitch	Measuring force	Standard	Incl. accessories
4157150	40 EWRI-V	mm	inch	mm/inch	$\mu$ m	mm	N	DIN 863-3	•
		0-25	0-1"	0.001 / .00005"	4	5	5-10		

Order no.	a	b	c	Mounting hole
4157150	mm	mm	mm	For measuring anvils with a shaft diameter 3.5 x 15.5 mm
	32	11.5	57	

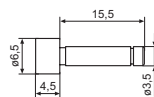


### ACCESSORIES

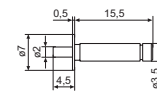
Order no.	Product name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4151794	Plane measuring anvil (6.5 mm)	40 Ef
4151795	Measuring anvil with reduced measuring surface (2.3 x 2 mm)	40 Ea
4151796	Measuring anvil plate (11.3 mm)	40 Et
4151797	Measuring anvil with convex measuring surface (6.5 mm)	40 Er
4151798	Measuring anvil with tip (60°)	40 Ep
4151799	Measuring anvil with blade (7 x 0.75 mm)	40 Es
4158000	Stand, for holding outside micrometers	41 H
4173210	Anvil flat, hardened steel, $\varnothing$ 7.5 mm	40 Za
4511190	Anvil flat, carbide tipped, $\varnothing$ 7.5 mm	40 Za



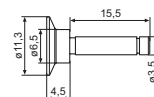
i-Stick



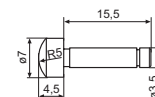
40 Ef



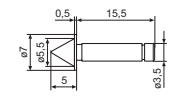
40 Ea



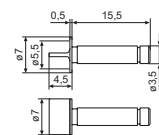
40 Et



40 Er



40 Ep



40 Es



41 H

Micromar | Micrometers



# Micromar 40 EWR-V

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

Universal adjustment to different workpiece and measurement situations using individual interchangeable measuring anvils. Thread flanks and spherical measuring anvils (optional accessories) can also be used.

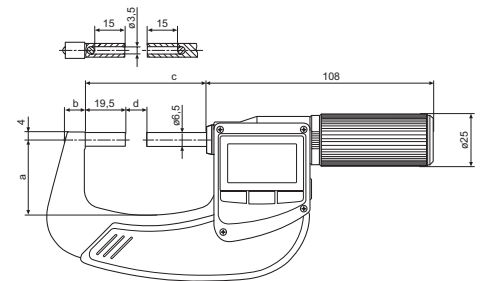
### FEATURES

- High contrast analog display
- Stainless spindle is hardened throughout and ground
- With mounting bores for measuring anvils with a shaft  $\varnothing$  3.5 mm
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: MarConnect (bidirectional), USB, Digimatic
- Energy supply: Battery life approx. 3 years
- IP protection category: IP 65
- Scope of delivery: For each pair of measuring anvils:
  - 40 Ef flat  $\varnothing$  6.5 mm
  - 40 Ea offset  $\varnothing$  2 x 4 mm
  - 40 Et plate  $\varnothing$  11.3 mm
  - 40 Eb spherical R=5 mm
  - 40 Ep tapered  $60^\circ$
  - 40 Es blade 0.75 x 4 mm
- Package contains: instruction manual, battery, case

### TECHNICAL DATA

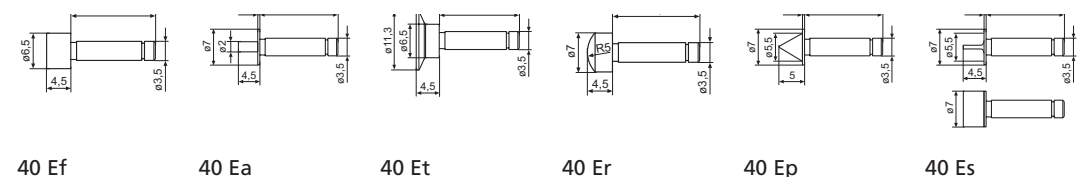
Order no.	Product type	Measuring range	Resolution	Error limit	Spindle thread pitch	Measuring force	Standard	Incl. accessories	
4157050	40 EWR-V	mm 0 - 25	inch 0 - 1"	mm/inch 0.001 / .00005"	$\mu$ m 4	mm 5	N 5 - 10	DIN 863-3	•

Order no.	a	b	c	Mounting hole
4157050	mm 32	mm 11.5	mm 57	For measuring anvils with a shaft diameter 3.5 x 15.5 mm



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102603	Data cable USB bi-directional (2 m)	DK-U1
4102606	Digimatic data cable (2 m)	DK-D1
4151794	Plane measuring anvil (6.5 mm)	40 Ef
4151795	Measuring anvil with reduced measuring surface (2.3 x 2 mm)	40 Ea
4151796	Measuring anvil plate (11.3 mm)	40 Et
4151797	Measuring anvil with convex measuring surface (6.5 mm)	40 Er
4151798	Measuring anvil with tip ( $60^\circ$ )	40 Ep
4151799	Measuring anvil with blade (7 x 0.75 mm)	40 Es
4158000	Stand, for holding outside micrometers	41 H
4173210	Anvil flat, hardened steel	40 Za
4511190	Anvil flat, carbide-tipped	40 Za



41 H



# Micromar 40 EWRI-V

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

For measuring thread flanks and gear diameters using quick-change measuring anvils.

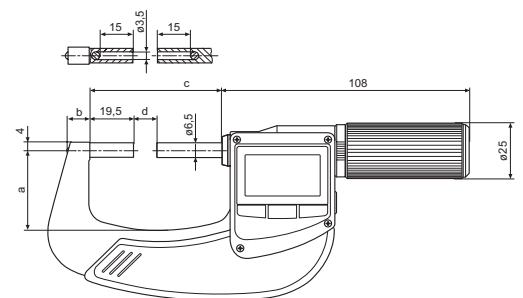
### TECHNICAL DATA

Order no.	Product type	Measuring range		Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch	mm/inch	µm	mm	N	
4157145	40 EWRI-V	0 – 25	0 – 1"	0.001 / .00005"	4	5	5 – 10	DIN 863–3
4157146	40 EWRI-V	25 – 50	1 – 2"	0.001 / .00005"	4	5	5 – 10	DIN 863–3
4157147	40 EWRI-V	50 – 75	2 – 3"	0.001 / .00005"	6	5	5 – 10	DIN 863–3
4157148	40 EWRI-V	75 – 100	3 – 4"	0.001 / .00005"	6	5	5 – 10	DIN 863–3

### FEATURES

- With mounting bores for measuring anvils with a shaft Ø 3.5 mm
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: Integrated wireless
- Energy supply: Battery life approx. 2 years
- IP protection category: IP 65
- Package contains: instruction manual, battery, setting standard (measuring range of 25–50 mm), case

Order no.	a	b	c	Mounting hole
	mm	mm	mm	
4157145	32	11.5	57	For measuring anvils with a shaft diameter 3.5 x 15.5 mm
4157146	44	13.5	82	For measuring anvils with a shaft diameter 3.5 x 15.5 mm
4157147	57	15.5	107	For measuring anvils with a shaft diameter 3.5 x 15.5 mm
4157148	73	17	132.5	For measuring anvils with a shaft diameter 3.5 x 15.5 mm



### ACCESSORIES

Order no.	Product name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H
4173210	Anvil flat, hardened steel, Ø 7.5 mm	40 Za
4175000	Setting gage (25 mm) metric / UST 60°	43 Z
4175001	Setting gage (50 mm) metric / UST 60°	43 Z
4175002	Setting gage (75 mm) metric / UST 60°	43 Z
4175100	Setting gage (25 mm) Whitworth 55°	43 Z
4175101	Setting gage (50 mm) Whitworth 55°	43 Z
4175102	Setting gage (75 mm) Whitworth 55°	43 Z
4511190	Anvil flat, carbide tipped, Ø 7.5 mm	40 Za



i-Stick



41 H

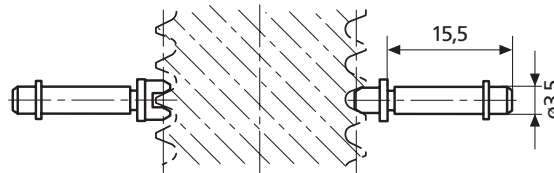


# Micromar Thread anvils

## Digital Micrometer

### FEATURES

- Wear-resistant special steel, hardened. With cylindrical mounting shank and retainer ring for rotatable mounting in the bore of the measuring spindle and anvil.
- Pair comprises V-anvil and cone
- **With a pitch of 0.2 – 0.45 mm, the V-anvil bridges 3 turns.** It should therefore be set with 715 E thread adjustment pins, otherwise with 43 Z setting standards.



### ACCESSORIES

Thread pitch in mm	Taper Order no.	V-anvil Order no.
<b>Pitch diameter. external thread</b>		
<b>Metric 60°</b>		
0.2	4173407	4173007
0.25	4173408	4173008
0.3	4173409	4173009
0.35	4173410	4173010
0.4	4173411	4173011
0.45	4173412	4173012
0.5 – 0.7	4173400	4173000
0.7 – 1	4173401	4173001
1.25 – 2	4173402	4173002
2 – 3.5	4173403	4173003
3.5 – 5	4173404	4173004
5 – 7	4173405	4173005
7 – 9	4173406	4173006
<b>Trapezoid 30°</b>		
1	4173650	4173250
1.5	4173651	4173251
2	4173652	4173252
3	4173653	4173253
4	4173654	4173254
5	4173655	4173255
6	4173656	4173256
7	4173657	4173257
8	4173658	4173258
9	4173659	4173259
10	4173660	4173260
12	4173661	4173261
14	4173662	4173262
16	4173663	4173263
18	4173664	4173264
20	4173665	4173265

Thread pitch in TPI	Taper Order no.	V-anvil Order no.
<b>Pitch diameter. external thread</b>		
<b>UST 60°</b>		
60 – 48	4173513	4173113
48 – 40	4173514	4173114
40 – 32	4173515	4173115
32 – 24	4173516	4173116
24 – 18	4173517	4173117
18 – 14	4173518	4173118
14 – 10	4173519	4173119
10 – 7	4173520	4173120
7 – 4.5	4173521	4173121
4.5 – 3	4173522	4173122
<b>Whitworth 55°</b>		
40 – 32	4173443	4173043
32 – 24	4173444	4173044
24 – 18	4173445	4173045
18 – 14	4173446	4173046
14 – 10	4173447	4173047
10 – 7	4173448	4173048
7 – 4.5	4173449	4173049
4.5 – 3	4173450	4173050
3 – 2.5	4179409	4179408



# Micromar 40 EWR-S

## Digital Micrometer



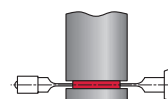
### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

For measuring recesses, grooves, etc.



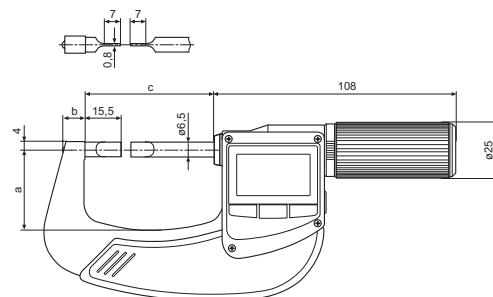
### FEATURES

- With blade-type measuring surfaces
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- QUICK DRIVE
- Sliding spindle
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 10 mm
- **Data interface:** MarConnect (bidirectional), USB, Digimatic
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 65
- **Package contains:** instruction manual, battery, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Measuring surface	Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch		mm/inch	µm	mm	N	
4157041	40 EWR-S	0–25	0–1"	hardened steel	0.001 / .00005"	4	5	5–10	DIN 863–3
4157042	40 EWR-S	25–50	1–2"	hardened steel	0.001 / .00005"	4	5	5–10	DIN 863–3
4157043	40 EWR-S	50–75	2–3"	hardened steel	0.001 / .00005"	4	5	5–10	DIN 863–3
4157044	40 EWR-S	75–100	3–4"	hardened steel	0.001 / .00005"	4	5	5–10	DIN 863–3

Order no.	a	b	c
	mm	mm	mm
4157041	32	11.5	57
4157042	44	13.5	82
4157043	57	15.5	107
4157044	73	17	132.5



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102603	Data cable USB bi-directional (2 m)	DK-U1
4102606	Digimatic data cable (2 m)	DK-D1
4158000	Stand, for holding outside micrometers	41 H



41 H







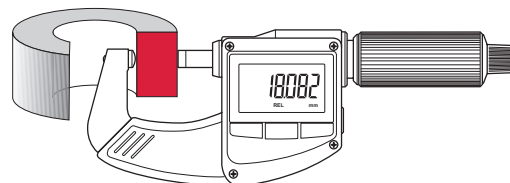
# Micromar 40 EWRi-R

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

For measuring the thickness of pipe walls

### FEATURES

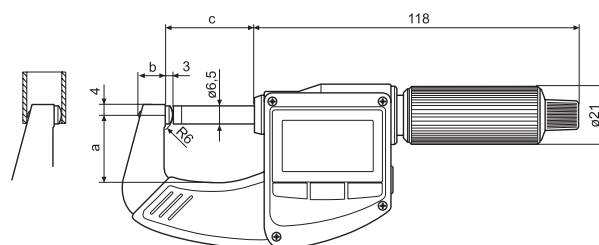
- **Measuring surfaces:** spherical anvil, planar spindle
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Digit height:** 10 mm
- **Data interface:** Integrated wireless
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 65
- **Package contains:** instruction manual, battery, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Measuring surface	Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch		mm/inch	µm	mm	N	
4157130	40 EWRi-R	0–25	0–1"	carbide	0.001 / .00005"	4	0.5	5–10	DIN 863–3
4157131	40 EWRi-R	25–50	1–2"	carbide	0.001 / .00005"	4	0.5	5–10	DIN 863–3

Order no.	a	b	c
	mm	mm	mm
4157130	23	9.5	31.5
4157131	32	11.5	57

40 EWR(i)-R



### ACCESSORIES

Order no.	Product name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



i-Stick



41 H

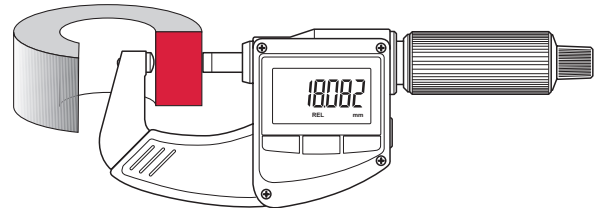
# Micromar 40 EWR-R

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

For measuring the thickness of pipe walls

### FEATURES

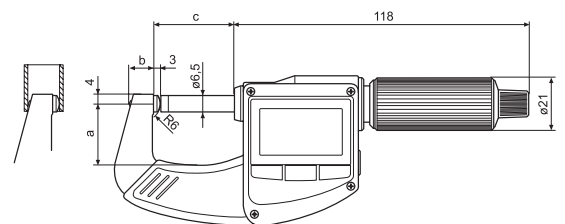
- Measuring surfaces: spherical anvil, planar spindle
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: MarConnect (bidirectional), USB, Digimatic
- Energy supply: Battery life approx. 2 years
- IP protection category: IP 65
- Package contains: instruction manual, battery, setting standard (measuring range of 25–50 mm), case

### TECHNICAL DATA

Order no.	Product type	Measuring range		Measuring surface	Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
		mm	inch		mm/inch	µm	mm	N	
4157030	40 EWR-R	0–25	0–1"	carbide	0.001 / .00005"	4	0.5	5–10	DIN 863–3
4157031	40 EWR-R	25–50	1–2"	carbide	0.001 / .00005"	4	0.5	5–10	DIN 863–3

Order no.	a	b	c
	mm	mm	mm
4157030	23	9.5	31.5
4157031	32	11.5	57

40 EWR(i)-R



### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102603	Data cable USB bi-directional (2 m)	DK-U1
4102606	Digimatic data cable (2 m)	DK-D1
4158000	Stand, for holding outside micrometers	41 H



41 H

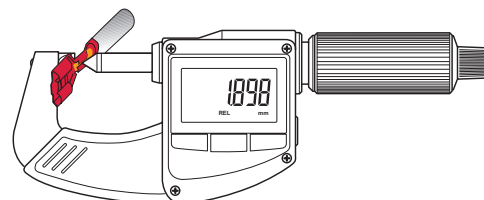
# Micromar 40 EWRI-K

## Digital Micrometer



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to ORIGIN)
- mm/inch
- ORIGIN (for entering a numerical value)
- LOCK function (key lock)
- TOL (tolerance and warning limits)
- HOLD (storage of measured values)
- DATA (data transmission)
- Bi-directional data interface (external input option of characteristic values and setting of individual lock functions by software MarCom)



### Application:

For measuring crimp heights

### FEATURES

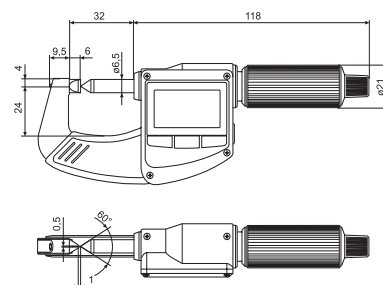
- Measuring surfaces: Anvil with narrow web, pointed spindle
- High contrast analog display
- Stainless spindle is hardened throughout and ground
- Spindle and anvil are carbide-tipped
- Rapid drive
- Ratchet is integrated in the thimble
- Lacquered steel frame, heat insulated
- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- Digit height: 10 mm
- Data interface: Integrated wireless
- Energy supply: Battery life approx. 2 years
- IP protection category: IP 65
- Package contains: instruction manual, battery, case

### TECHNICAL DATA

Order no.	Product type	Measuring range	Measuring range	Measuring surface	Resolution	Error limit	Spindle thread pitch	Measuring force	Standard
4157140	40 EWRI-K	mm	inch	carbide	mm/inch	µm	mm	N	Factory standard
		0-20	0-0.8"		0.001 / .00005"	4	0.5	5-10	

Order no.	a	b	c
4157140	mm	mm	mm
	23	9.5	31.5

40 EWRI-K



### ACCESSORIES

Order no.	Product name	Type
4102220	Receiver for instruments with Integrated Wireless	i-Stick
4102520	Battery 3 V, CR 2032	
4158000	Stand, for holding outside micrometers	41 H



i-Stick

41 H





# Micromar 44 EWg

## Basic Unit



### FUNCTIONS

- RESET (set display to zero)
- ABS (display can be set to zero without losing reference to preset)
- PRESET (for entering a numerical value)
- mm/inch
- LOCK function (key lock)
- DATA (data transmission via connection cable)



### FEATURES

Threaded connection for changing the measuring head

- Software MarCom Professional free download: [www.mahr.com/marcom](http://www.mahr.com/marcom) (only for Mahr data cables and wireless systems with USB and RS232 interface)
- **Data interface:** Digimatic, Opto RS232C, USB
- **Energy supply:** Battery life approx. 2 years
- **IP protection category:** IP 52
- **Package contains:** instruction manual, battery, case

### TECHNICAL DATA

Order no.	Product type	Measuring range	Measuring range	Resolution
		mm	inch	mm/inch
4190106	44 EWg	6 –20	.25 –.775"	0.001 / .00005"
4190107	44 EWg	20 –100	.775 –4.0"	0.001 / .00005"
4190108	44 EWg	100 –200	4.0 –7.9"	0.001 / .00005"

### ACCESSORIES

Order no.	Product name	Product type
4102520	Battery 3 V, CR 2032	
4102357	16 EXu data connection cable USB (2 m)	16 EXu
4102915	Digimatic data cable (2 m)	16 EWd
4102410	Data connection cable RS232C (2 m)	16 EXr
4190330	Measuring head, 6 –8 mm	44 Ak
4190331	Measuring head, 8 –10 mm	44 Ak
4190332	Measuring head, 10 –12 mm	44 Ak
4190333	Measuring head, 12 –16 mm	44 Ak
4190334	Measuring head, 16 –20 mm	44 Ak
4190335	Measuring head, 20 –25 mm	44 Ak
4190336	Measuring head, 25 –30 mm	44 Ak
4190337	Measuring head, 30 –40 mm	44 Ak
4190339	Measuring head, 40 –50 mm	44 Ak
4190340	Measuring head, 50 –60 mm	44 Ak
4190341	Measuring head, 60 –70 mm	44 Ak
4190042	Measuring head, 70 –85 mm	44 Ak
4190043	Measuring head, 85 –100 mm	44 Ak
4190044	Measuring head, 100 –125 mm	44 Ak
4190045	Measuring head, 125 –150 mm	44 Ak
4190046	Measuring head, 150 –175 mm	44 Ak
4190047	Measuring head, 175 –200 mm	44 Ak