



**MADE TO MEASURE.
MARGAGE**

Back in 1871, when the metric system was introduced into the then German Empire, Mahr was already supplying dimensional standards to the weights and measures offices of several German states. Today, measurement standards such as parallel gage blocks still form the basis of dimensional metrology. Their applications range from setting gages for indicating measuring instruments to reference standards in calibration laboratories. Thanks to our accreditation from the PTB (the National Metrology Institute of Germany) and the careful selection of the materials we use, we can guarantee the highest possible quality.

MarGage. Standards, Gages, Gage Blocks

MarGage 402 / 404 / 405 / 406 / 408 / 409 532
Rectangular Gage Block Set made of Steel

MarGage 411 / 412 / 413 / 415 538
Test Sets for Calipers

MarGage 402 C / 404 C / 405 C / 406 C / 408 C / 409 C 540
Rectangular Gage Block Set made of Ceramic

MarGage 418 C 546
Protective Rectangular Gage Block Set made of Ceramic

MarGage 419 C 547
Test Set for Micrometers

MarGage 417 549
Rectangular Gage Blocks made of Steel

MarGage 417 C 553
Rectangular Gage Block Set made of Ceramic

Accessoires for Rectangular Gage Blocks 557

Pin Gages / Plug Gages

MarGage 426 / 426 G / 426 S 561
Pin Gage with a handle made of steel

MarGage 426 D / 426 DS 568
Individual Plug Gages with handle made of steel

MarGage 426 A / 426 MS 570
Thread Pin Gage

Settings Standards

MarGage 355 E 573
Ring Gage

Calibration Services 576

Rectangular Gage Block Set made of Steel MarGage 402



- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes		Number
				mm	mm	
4800403	402	32	K	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800400	402	32	0	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800401	402	32	1	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800402	402	32	2	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 404

- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800003	404	46	K	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800000	404	46	0	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800001	404	46	1	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800002	404	46	2	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 405



- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
		Pieces		mm	mm	
4800413	405	47	K	1,005	-	1
				1,01 – 1,19	0,01	19
				1,2 – 1,9	0,1	8
				1 – 9	1	9
				10 – 100	10	10
4800410	405	47	0	1,005	-	1
				1,01 – 1,19	0,01	19
				1,2 – 1,9	0,1	8
				1 – 9	1	9
				10 – 100	10	10
4800411	405	47	1	1,005	-	1
				1,01 – 1,19	0,01	19
				1,2 – 1,9	0,1	8
				1 – 9	1	9
				10 – 100	10	10
4800412	405	47	2	1,005	-	1
				1,01 – 1,19	0,01	19
				1,2 – 1,9	0,1	8
				1 – 9	1	9
				10 – 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 406

- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800014	406	87	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800010	406	87	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800011	406	87	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800012	406	87	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 408



- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
		Pieces		mm	mm	
4800027	408	111	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800020	408	111	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800021	408	111	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800022	408	111	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 409

- Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800033	409	121	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80 ,90	10	6
				25, 50, 75, 100	25	4
4800030	409	121	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80 ,90	10	6
				25, 50, 75, 100	25	4
4800031	409	121	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80 ,90	10	6
				25, 50, 75, 100	25	4
4800032	409	121	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80 ,90	10	6
				25, 50, 75, 100	25	4

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 412 / 413



Vertical arrangement to save space

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Number
		Pieces		mm	
4800428	412	8	K	125 / 150 / 175 / 200 / 250 / 300 / 400 / 500	8
4800425	412	8	0	125 / 150 / 175 / 200 / 250 / 300 / 400 / 500	8
4800426	412	8	1	125 / 150 / 175 / 200 / 250 / 300 / 400 / 500	8
4800427	412	8	2	125 / 150 / 175 / 200 / 250 / 300 / 400 / 500	8
4800433	413	5	K	600 / 700 / 800 / 900 / 1000	5
4800430	413	5	0	600 / 700 / 800 / 900 / 1000	5
4800431	413	5	1	600 / 700 / 800 / 900 / 1000	5
4800432	413	5	2	600 / 700 / 800 / 900 / 1000	5

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800180	Optical parallel, $\varnothing = 30 \text{ mm}$	421 P
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Steel MarGage 411 / 415

Vertical arrangement to save space

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

For testing and calibrating calipers

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Number
		Pieces		mm	
4800343	411	5	1	30 / 41,3 / 131,4 / 243,5 / 281,2	5
4800344	411	5	2	30 / 41,3 / 131,4 / 243,5 / 281,2	5
4800339	415	6	1	30 / 41,3 / 131,4 / 243,5 / 281,2 / 481,1	6
4800340	415	6	2	30 / 41,3 / 131,4 / 243,5 / 281,2 / 481,1	6

Rectangular Gage Block Set made of Ceramic MarGage 402 C



Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800094	402 C	32	K	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800095	402 C	32	0	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800096	402 C	32	1	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1
4800097	402 C	32	2	1,005	-	1
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 30	10	3
				50	-	1

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 404 C

Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

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Tolerance class 0

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Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800088	404 C	46	K	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800008	404 C	46	0	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800009	404 C	46	1	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10
4800004	404 C	46	2	1,001 – 1,009	0,001	9
				1,01 – 1,09	0,01	9
				1,1 – 1,9	0,1	9
				1 – 9	1	9
				10 – 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 405 C



Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes		Number
				Pieces	mm	
4800423	405 C	47	K	1,005	-	1
				1,01 - 1,19	0,01	19
				1,2 - 1,9	0,1	8
				1 - 9	1	9
				10 - 100	10	10
4800420	405 C	47	0	1,005	-	1
				1,01 - 1,19	0,01	19
				1,2 - 1,9	0,1	8
				1 - 9	1	9
				10 - 100	10	10
4800421	405 C	47	1	1,005	-	1
				1,01 - 1,19	0,01	19
				1,2 - 1,9	0,1	8
				1 - 9	1	9
				10 - 100	10	10
4800422	405 C	47	2	1,005	-	1
				1,01 - 1,19	0,01	19
				1,2 - 1,9	0,1	8
				1 - 9	1	9
				10 - 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, $\varnothing = 45 \text{ mm}$	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 406 C

Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability



- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

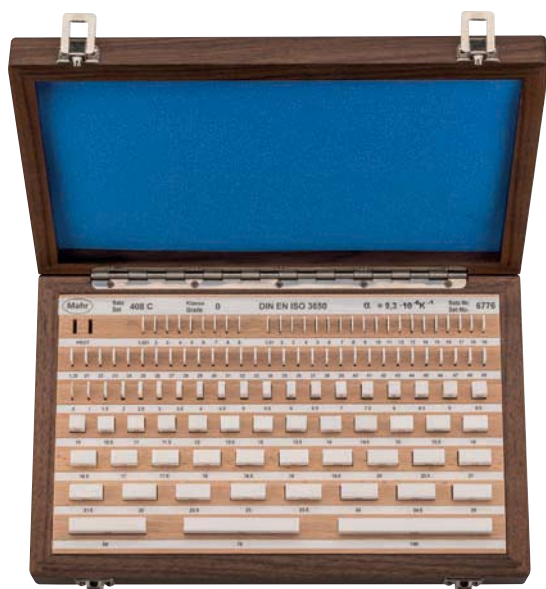
Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
		Pieces		mm	mm	
4800016	406 C	87	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800018	406 C	87	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800019	406 C	87	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10
4800017	406 C	87	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 9,5	0,5	18
				10 – 100	10	10

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 408 C



Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate

- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
		Pieces		mm	mm	
4800025	408 C	111	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800028	408 C	111	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800029	408 C	111	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4
4800026	408 C	111	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1 – 24,5	0,5	48
				25 – 100	25	4

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 409 C

Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
				mm	mm	
4800036	409 C	121	K	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80	10	6
				,90	25	4
4800038	409 C	121	0	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80	10	6
				,90	25	4
4800039	409 C	121	1	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80	10	6
				,90	25	4
4800037	409 C	121	2	0,5	-	1
				1,001 – 1,009	0,001	9
				1,01 – 1,49	0,01	49
				1,6 – 1,9	0,1	4
				1 – 24,5	0,5	48
				30, 40, 60, 70 ,80	10	6
				,90	25	4

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Block Set made of Ceramic MarGage 418 C



Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

- Pair of protective wood blocks as outer cover gage blocks
- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Number
		Pieces		mm	
4800085	418 C	2	0	2	2
4800086	418 C	2	1	2	2

Rectangular Gage Block Set made of Ceramic MarGage 419 C

Resistant to both impact and breakage. Virtually no warping of material if surfaces become scratched or edges damaged. Longer retention of wringing ability

- Extremely durable, thus providing a long service life as well being highly robust compared to all other materials currently be used in metrology. Therefore the interval between inspections are distinctly greater
- The corrosion-resistant Circonimar is extremely resistant to alkalis, acids, oil, grinding fluid and other aggressive media even without protective measures
- Similar coefficient of expansion to steel, allowing unrestricted use even at unfavorable temperatures
- Non-magnetic Circonimar is anti-static, anti-magnetic and non-conductive; it does not attract dust or dirt

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

For testing and calibrating outside micrometers

- **Scope of delivery:** wooden case with clear labeling strips, Mahr calibration certificate
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$



Technical Data

Order no.	Product type	Quantity per set	Tolerance class	Nominal sizes	Number
		Pieces		mm	
4800090	419 C	10	1	2,5 / 5,1 / 7,7 / 10,3 / 12,9 / 15,0 / 17,6 / 20,2 / 22,8 / 25 + 421 P, \varnothing 30 mm	10

Rectangular Gage Block Set made of Steel MarGage



- Long used as the practical standards of dimensional measurement in precision manufacturing. With accuracies, materials and manufacturing methods greatly refined, gage blocks are now of highest quality and precision
- Used as comparison reference and utilization standards in the field of length measurement
- For checking gages and measuring instruments
- Used individually or in combinations by wringing several blocks together
- Mahr gage blocks are available from stock individually and as full sets in inches (rectangular only)
- Sets are manufactured to Grade 0 only, which meet or exceed ASME B89.1.9–2002 specifications
- Offered in steel to suit a wide range of service conditions. Steel blocks are extremely stable, hardened to Rc 62 minimum, and processed through a thorough seasoning cycle to relieve internal stresses before finish lapping
- All block sets are serialized and supplied in a fitted storage case (certification priced separately)
- **Scope of delivery:** Wooden case with clear labeling strips

Technical Data

Order no.	Quantity per set	Tolerance class	Nominal sizes	Increment	Number
	Pieces		inch	inch	
2176361	81	0	.1001" – .1009"	.0001"	9
			.101" – .149"	.001"	49
			.050" – .950"	.050"	19
			1.000" – 4.000"	1.00"	4
2176362	49	0	.1001" – .1009"	.0001"	9
			.101" – .109"	.001"	9
			.010" – .090"	.010"	9
			.110" – .190"	.010"	9
			.100 – .900"	.100"	9
			1.000" – 4.000"	1.00"	4

Accessories

Order no.	Product name	Product type
4800140	Optical flat, Ø = 45 mm	421
4800170	Contact thermometer, Readings 0.2°C	422
4800142	Wooden tongs	423
4800130	Maintenance accessories	424

Rectangular Gage Blocks made of Steel MarGage 417/K

From nominal size 125 mm on, also supplied with wooden case

- Special sizes are available upon request

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

- **Scope of delivery:** Wooden case (gage blocks >125 mm)

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Nominal size	Order no.
mm	
0.5	4803409
1	4803419
1.0005	4803386
1.001	4803420
1.002	4803421
1.003	4803422
1.004	4803423
1.005	4803424
1.006	4803425
1.007	4803426
1.008	4803427
1.009	4803428
1.01	4803429
1.02	4803430
1.03	4803431
1.04	4803432
1.05	4803433
1.06	4803434
1.07	4803435
1.08	4803436
1.09	4803437
1.1	4803438
1.11	4803439
1.12	4803440
1.13	4803441
1.14	4803442
1.15	4803443
1.16	4803444
1.17	4803445
1.18	4803446
1.19	4803447
1.2	4803448
1.21	4803449
1.22	4803450
1.23	4803451
1.24	4803452
1.25	4803453
1.26	4803454
1.27	4803455
1.28	4803456
1.29	4803457
1.3	4803458
1.31	4803459
1.32	4803460
1.33	4803461
1.34	4803462
1.35	4803463
1.36	4803464
1.37	4803465
1.38	4803466
1.39	4803467
1.4	4803468
1.41	4803469
1.42	4803470
1.43	4803471
1.44	4803472
1.45	4803473
1.46	4803474
1.47	4803475

Nominal size	Order no.
mm	
1.48	4803476
1.49	4803477
1.5	4803478
1.6	4803479
1.7	4803480
1.8	4803481
1.9	4803482
2	4803483
2.5	4803484
3	4803485
3.5	4803486
4	4803487
4.5	4803488
5	4803489
5.5	4803490
6	4803491
6.5	4803492
7	4803493
7.5	4803494
8	4803495
8.5	4803496
9	4803497
9.5	4803498
10	4803499
10.5	4803500
11	4803501
11.5	4803502
12	4803503
12.5	4803504
13	4803505
13.5	4803506
14	4803507
14.5	4803508
15	4803509
15.5	4803510
16	4803511
16.5	4803512
17	4803513
17.5	4803514
18	4803515
18.5	4803516
19	4803517
19.5	4803518
20	4803519
20.5	4803520
21	4803521
21.5	4803522
22	4803523
22.5	4803524
23	4803525
23.5	4803526
24	4803527
24.5	4803528
25	4803529
30	4803530
40	4803531
50	4803532
60	4803533
70	4803534

Nominal size	Order no.
mm	
75	4803535
80	4803536
90	4803537
100	4803538
125	4803539
150	4803540
175	4803541
200	4803542
250	4803543
300	4803544
400	4803546
500	4803548
600	4803549
700	4803550
800	4803551
900	4803552
1000	4803553

Rectangular Gage Blocks made of Steel MarGage 417/0

Nominal size	Order no.
mm	
0.5	4801009
0.55	4801173
0.6	4801174
0.65	4801175
0.7	4801176
0.75	4801177
0.8	4801178
0.85	4801179
0.9	4801180
0.95	4801181
1	4801019
1.0005	4801720
1.001	4801020
1.002	4801021
1.003	4801022
1.004	4801023
1.005	4801024
1.006	4801025
1.007	4801026
1.008	4801027
1.009	4801028
1.01	4801029
1.02	4801030
1.03	4801031
1.04	4801032
1.05	4801033
1.06	4801034
1.07	4801035
1.08	4801036
1.09	4801037
1.1	4801038
1.11	4801039
1.12	4801040
1.13	4801041
1.14	4801042
1.15	4801043
1.16	4801044
1.17	4801045
1.18	4801046
1.19	4801047
1.2	4801048
1.21	4801049
1.22	4801050
1.23	4801051
1.24	4801052
1.25	4801053
1.26	4801054
1.27	4801055
1.28	4801056
1.29	4801057
1.3	4801058
1.31	4801059
1.32	4801060
1.33	4801061
1.34	4801062
1.35	4801063
1.36	4801064
1.37	4801065
1.38	4801066

Nominal size	Order no.
mm	
1.39	4801067
1.4	4801068
1.41	4801069
1.42	4801070
1.43	4801071
1.44	4801072
1.45	4801073
1.46	4801074
1.47	4801075
1.48	4801076
1.49	4801077
1.5	4801078
1.6	4801079
1.7	4801080
1.8	4801081
1.9	4801082
2	4801083
2.5	4801084
3	4801085
3.5	4801086
4	4801087
4.5	4801088
5	4801089
5.5	4801090
6	4801091
6.5	4801092
7	4801093
7.5	4801094
8	4801095
8.5	4801096
9	4801097
9.5	4801098
10	4801099
10.5	4801100
11	4801101
11.5	4801102
12	4801103
12.5	4801104
13	4801105
13.5	4801106
14	4801107
14.5	4801108
15	4801109
15.5	4801110
16	4801111
16.5	4801112
17	4801113
17.5	4801114
18	4801115
18.5	4801116
19	4801117
19.5	4801118
20	4801119
20.5	4801120
21	4801121
21.5	4801122
22	4801123
22.5	4801124
23	4801125

Nominal size	Order no.
mm	
23.5	4801126
24	4801127
24.5	4801128
25	4801129
30	4801130
40	4801131
50	4801132
60	4801133
70	4801134
75	4801135
80	4801136
90	4801137
100	4801138
125	4801139
150	4801140
175	4801141
200	4801142
250	4801143
300	4801144
400	4801146
500	4801148
600	4801149
700	4801150
800	4801151
900	4801152
1000	4801153

From nominal size 125 mm on, also supplied with wooden case

- Special sizes are available upon request

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

- **Scope of delivery:** Wooden case (gage blocks >125 mm)

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Rectangular Gage Blocks made of Steel MarGage 417/1

From nominal size 125 mm on, also supplied with wooden case

- Special sizes are available upon request

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

- **Scope of delivery:** Wooden case (gage blocks >125 mm)

- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Nominal size	Order no.
mm	
0.5	4801209
0.55	4801358
0.6	4801359
0.65	4801360
0.7	4801361
0.75	4801362
0.8	4801363
0.85	4801364
0.9	4801365
0.95	4801366
1	4801219
1.0005	4801357
1.001	4801220
1.002	4801221
1.003	4801222
1.004	4801223
1.005	4801224
1.006	4801225
1.007	4801226
1.008	4801227
1.009	4801228
1.01	4801229
1.02	4801230
1.03	4801231
1.04	4801232
1.05	4801233
1.06	4801234
1.07	4801235
1.08	4801236
1.09	4801237
1.1	4801238
1.11	4801239
1.12	4801240
1.13	4801241
1.14	4801242
1.15	4801243
1.16	4801244
1.17	4801245
1.18	4801246
1.19	4801247
1.2	4801248
1.21	4801249
1.22	4801250
1.23	4801251
1.24	4801252
1.25	4801253
1.26	4801254
1.27	4801255
1.28	4801256
1.29	4801257
1.3	4801258
1.31	4801259
1.32	4801260
1.33	4801261
1.34	4801262
1.35	4801263
1.36	4801264
1.37	4801265
1.38	4801266

Nominal size	Order no.
mm	
1.39	4801267
1.4	4801268
1.41	4801269
1.42	4801270
1.43	4801271
1.44	4801272
1.45	4801273
1.46	4801274
1.47	4801275
1.48	4801276
1.49	4801277
1.5	4801278
1.6	4801279
1.7	4801280
1.8	4801281
1.9	4801282
2	4801283
2.5	4801284
3	4801285
3.5	4801286
4	4801287
4.5	4801288
5	4801289
5.5	4801290
6	4801291
6.5	4801292
7	4801293
7.5	4801294
8	4801295
8.5	4801296
9	4801297
9.5	4801298
10	4801299
10.5	4801300
11	4801301
11.5	4801302
12	4801303
12.5	4801304
13	4801305
13.5	4801306
14	4801307
14.5	4801308
15	4801309
15.5	4801310
16	4801311
16.5	4801312
17	4801313
17.5	4801314
18	4801315
18.5	4801316
19	4801317
19.5	4801318
20	4801319
20.5	4801320
21	4801321
21.5	4801322
22	4801323
22.5	4801324
23	4801325

Nominal size	Order no.
mm	
23.5	4801326
24	4801327
24.5	4801328
25	4801329
30	4801330
40	4801331
41.3	4803179
50	4801332
60	4801333
70	4801334
75	4801335
80	4801336
90	4801337
100	4801338
125	4801339
131.4	4803180
150	4801340
175	4801341
200	4801342
243.5	4803181
250	4801343
300	4801344
400	4801346
481.1	4803182
500	4801348
600	4801349
700	4801350
800	4801351
900	4801352
1000	4801353

Rectangular Gage Blocks made of Steel MarGage 417/2

Nominal size	Order no.
mm	
0.5	4801409
0.55	4801777
0.6	4801778
0.65	4801779
0.7	4801780
0.75	4801781
0.8	4801782
0.85	4801783
0.9	4801784
0.95	4801785
1	4801419
1.0005	4803068
1.001	4801420
1.002	4801421
1.003	4801422
1.004	4801423
1.005	4801424
1.006	4801425
1.007	4801426
1.008	4801427
1.009	4801428
1.01	4801429
1.02	4801430
1.03	4801431
1.04	4801432
1.05	4801433
1.06	4801434
1.07	4801435
1.08	4801436
1.09	4801437
1.1	4801438
1.11	4801439
1.12	4801440
1.13	4801441
1.14	4801442
1.15	4801443
1.16	4801444
1.17	4801445
1.18	4801446
1.19	4801447
1.2	4801448
1.21	4801449
1.22	4801450
1.23	4801451
1.24	4801452
1.25	4801453
1.26	4801454
1.27	4801455
1.28	4801456
1.29	4801457
1.3	4801458
1.31	4801459
1.32	4801460
1.33	4801461
1.34	4801462
1.35	4801463
1.36	4801464
1.37	4801465
1.38	4801466

Nominal size	Order no.
mm	
1.39	4801467
1.4	4801468
1.41	4801469
1.42	4801470
1.43	4801471
1.44	4801472
1.45	4801473
1.46	4801474
1.47	4801475
1.48	4801476
1.49	4801477
1.5	4801478
1.6	4801479
1.7	4801480
1.8	4801481
1.9	4801482
2	4801483
2.5	4801484
3	4801485
3.5	4801486
4	4801487
4.5	4801488
5	4801489
5.5	4801490
6	4801491
6.5	4801492
7	4801493
7.5	4801494
8	4801495
8.5	4801496
9	4801497
9.5	4801498
10	4801499
10.5	4801500
11	4801501
11.5	4801502
12	4801503
12.5	4801504
13	4801505
13.5	4801506
14	4801507
14.5	4801508
15	4801509
15.5	4801510
16	4801511
16.5	4801512
17	4801513
17.5	4801514
18	4801515
18.5	4801516
19	4801517
19.5	4801518
20	4801519
20.5	4801520
21	4801521
21.5	4801522
22	4801523
22.5	4801524
23	4801525

Nominal size	Order no.
mm	
23.5	4801526
24	4801527
24.5	4801528
25	4801529
30	4801530
40	4801531
41.3	4803329
50	4801532
60	4801533
70	4801534
75	4801535
80	4801536
90	4801537
100	4801538
125	4801539
131.4	4803330
150	4801540
175	4801541
200	4801542
243.5	4803331
250	4801543
300	4801544
481.1	4803382
400	4801546
500	4801548
600	4801549
700	4801550
800	4801551
900	4801552
1000	4801553

From nominal size 125 mm on, also supplied with wooden case

- Special sizes are available upon request

Tolerance class 2

For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.

- **Scope of delivery:** Wooden case (gage blocks >125 mm)
- **Coefficient of linear expansion:** $11,5 \times 10^{-6} \text{ K}^{-1}$

Rectangular Gage Blocks made of Ceramic MarGage 417 C/K

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- Circonimar is equally well suited to inspection-room conditions and the rigors of workshop applications
- No material is easier to handle than Circonimar; it has excellent wringing properties, no corrosion, no need for lubrication, low weight and scratch resistant

Calibration class K

As primary factory standard, particularly for the calibration of subsidiary test laboratories, e.g. for gage blocks of lower Tolerance class. Supplied on request with DKD calibration certificate, indicating the deviation from the nominal size for each gage block.

• **Scope of delivery:** Wooden case (gage blocks >125 mm)

• **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Nominal size	Order no.
mm	
0.5	4804600
1	4804610
1.0005	4804761
1.001	4804611
1.002	4804612
1.003	4804613
1.004	4804614
1.005	4804615
1.006	4804616
1.007	4804617
1.008	4804618
1.009	4804619
1.01	4804620
1.02	4804621
1.03	4804622
1.04	4804623
1.05	4804624
1.06	4804625
1.07	4804626
1.08	4804627
1.09	4804628
1.1	4804629
1.11	4804630
1.12	4804631
1.13	4804632
1.14	4804633
1.15	4804634
1.16	4804635
1.17	4804636
1.18	4804637
1.19	4804638
1.2	4804639
1.21	4804640
1.22	4804641
1.23	4804642
1.24	4804643
1.25	4804644
1.26	4804645
1.27	4804646
1.28	4804647
1.29	4804648
1.3	4804649
1.31	4804650
1.32	4804651
1.33	4804652
1.34	4804653
1.35	4804654
1.36	4804655
1.37	4804656
1.38	4804657
1.39	4804658
1.4	4804659
1.41	4804660
1.42	4804661
1.43	4804662
1.44	4804663
1.45	4804664
1.46	4804665
1.47	4804666

Nominal size	Order no.
mm	
1.48	4804667
1.49	4804668
1.5	4804669
1.6	4804670
1.7	4804671
1.8	4804672
1.9	4804673
2	4804674
2.5	4804675
3	4804676
3.5	4804677
4	4804678
4.5	4804679
5	4804680
5.5	4804681
6	4804682
6.5	4804683
7	4804684
7.5	4804685
8	4804686
8.5	4804687
9	4804688
9.5	4804689
10	4804690
10.5	4804691
11	4804692
11.5	4804693
12	4804694
12.5	4804695
13	4804696
13.5	4804697
14	4804698
14.5	4804699
15	4804700
15.5	4804701
16	4804702
16.5	4804703
17	4804704
17.5	4804705
18	4804706
18.5	4804707
19	4804708
19.5	4804709
20	4804710
20.5	4804711
21	4804712
21.5	4804713
22	4804714
22.5	4804715
23	4804716
23.5	4804717
24	4804718
24.5	4804719
25	4804720
30	4804721
40	4804722
50	4804723
60	4804724
70	4804725

Nominal size	Order no.
mm	
75	4804726
80	4804727
90	4804728
100	4804729

Rectangular Gage Blocks made of Ceramic MarGage 417 C/O

Nominal size	Order no.
mm	
0.5	4804000
1	4804010
1.0005	4804759
1.001	4804011
1.002	4804012
1.003	4804013
1.004	4804014
1.005	4804015
1.006	4804016
1.007	4804017
1.008	4804018
1.009	4804019
1.01	4804020
1.02	4804021
1.03	4804022
1.04	4804023
1.05	4804024
1.06	4804025
1.07	4804026
1.08	4804027
1.09	4804028
1.1	4804029
1.11	4804030
1.12	4804031
1.13	4804032
1.14	4804033
1.15	4804034
1.16	4804035
1.17	4804036
1.18	4804037
1.19	4804038
1.2	4804039
1.21	4804040
1.22	4804041
1.23	4804042
1.24	4804043
1.25	4804044
1.26	4804045
1.27	4804046
1.28	4804047
1.29	4804048
1.3	4804049
1.31	4804050
1.32	4804051
1.33	4804052
1.34	4804053
1.35	4804054
1.36	4804055
1.37	4804056
1.38	4804057
1.39	4804058
1.4	4804059
1.41	4804060
1.42	4804061
1.43	4804062
1.44	4804063
1.45	4804064
1.46	4804065
1.47	4804066

Nominal size	Order no.
mm	
1.48	4804067
1.49	4804068
1.5	4804069
1.6	4804070
1.7	4804071
1.8	4804072
1.9	4804073
2	4804074
2.5	4804075
3	4804076
3.5	4804077
4	4804078
4.5	4804079
5	4804080
5.5	4804081
6	4804082
6.5	4804083
7	4804084
7.5	4804085
8	4804086
8.5	4804087
9	4804088
9.5	4804089
10	4804090
10.5	4804091
11	4804092
11.5	4804093
12	4804094
12.5	4804095
13	4804096
13.5	4804097
14	4804098
14.5	4804099
15	4804100
15.5	4804101
16	4804102
16.5	4804103
17	4804104
17.5	4804105
18	4804106
18.5	4804107
19	4804108
19.5	4804109
20	4804110
20.5	4804111
21	4804112
21.5	4804113
22	4804114
22.5	4804115
23	4804116
23.5	4804117
24	4804118
24.5	4804119
25	4804120
30	4804121
40	4804122
50	4804123
60	4804124
70	4804125

Nominal size	Order no.
mm	
75	4804126
80	4804127
90	4804128
100	4804129

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- Circonimar is equally well suited to inspection-room conditions and the rigors of workshop applications
- No material is easier to handle than Circonimar; it has excellent wringing properties, no corrosion, no need for lubrication, low weight and scratch resistant

Tolerance class 0

For maximum accuracy requirements. To be used as basic standards in test laboratories and precision inspection rooms, where other gage blocks and high accuracy measuring instruments are calibrated.

- **Scope of delivery:** Wooden case (gage blocks >125 mm)
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Rectangular Gage Blocks made of Ceramic MarGage 417 C/1

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- Circonimar is equally well suited to inspection-room conditions and the rigors of workshop applications
- No material is easier to handle than Circonimar; it has excellent wringing properties, no corrosion, no need for lubrication, low weight and scratch resistant

Tolerance class 1

For high standards of accuracy. As reference gage block for the inspection room. Designed to perform particularly accurate measurements. For setting indicating measuring instruments and for checking precision gages.

• **Scope of delivery:** Wooden case (gage blocks >125 mm)

• **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Nominal size	Order no.
mm	
0.5	4804200
1	4804210
1.0005	4804764
1.001	4804211
1.002	4804212
1.003	4804213
1.004	4804214
1.005	4804215
1.006	4804216
1.007	4804217
1.008	4804218
1.009	4804219
1.01	4804220
1.02	4804221
1.03	4804222
1.04	4804223
1.05	4804224
1.06	4804225
1.07	4804226
1.08	4804227
1.09	4804228
1.1	4804229
1.11	4804230
1.12	4804231
1.13	4804232
1.14	4804233
1.15	4804234
1.16	4804235
1.17	4804236
1.18	4804237
1.19	4804238
1.2	4804239
1.21	4804240
1.22	4804241
1.23	4804242
1.24	4804243
1.25	4804244
1.26	4804245
1.27	4804246
1.28	4804247
1.29	4804248
1.3	4804249
1.31	4804250
1.32	4804251
1.33	4804252
1.34	4804253
1.35	4804254
1.36	4804255
1.37	4804256
1.38	4804257
1.39	4804258
1.4	4804259
1.41	4804260
1.42	4804261
1.43	4804262
1.44	4804263
1.45	4804264
1.46	4804265
1.47	4804266

Nominal size	Order no.
mm	
1.48	4804267
1.49	4804268
1.5	4804269
1.6	4804270
1.7	4804271
1.8	4804272
1.9	4804273
2	4804274
2.5	4804275
3	4804276
3.5	4804277
4	4804278
4.5	4804279
5	4804280
5.1	4804751
5.5	4804281
6	4804282
6.5	4804283
7	4804284
7.5	4804285
7.7	4804752
8	4804286
8.5	4804287
9	4804288
9.5	4804289
10	4804290
10.3	4804753
10.5	4804291
11	4804292
11.5	4804293
12	4804294
12.5	4804295
12.9	4804754
13	4804296
13.5	4804297
14	4804298
14.5	4804299
15	4804300
15.5	4804301
16	4804302
16.5	4804303
17	4804304
17.5	4804305
17.6	4804755
18	4804306
18.5	4804307
19	4804308
19.5	4804309
20	4804310
20.2	4804756
20.5	4804311
21	4804312
21.5	4804313
22	4804314
22.5	4804315
22.8	4804757
23	4804316
23.5	4804317
24	4804318

Nominal size	Order no.
mm	
24.5	4804319
25	4804320
30	4804321
40	4804322
41.3	4804758
50	4804323
60	4804324
70	4804325
75	4804326
80	4804327
90	4804328
100	4804329
131.4	4804760

Rectangular Gage Blocks made of Ceramic MarGage 417 C/2

Nominal size	Order no.
mm	
0.5	4804400
1	4804410
1.0005	4804765
1.001	4804411
1.002	4804412
1.003	4804413
1.004	4804414
1.005	4804415
1.006	4804416
1.007	4804417
1.008	4804418
1.009	4804419
1.01	4804420
1.02	4804421
1.03	4804422
1.04	4804423
1.05	4804424
1.06	4804425
1.07	4804426
1.08	4804427
1.09	4804428
1.1	4804429
1.11	4804430
1.12	4804431
1.13	4804432
1.14	4804433
1.15	4804434
1.16	4804435
1.17	4804436
1.18	4804437
1.19	4804438
1.2	4804439
1.21	4804440
1.22	4804441
1.23	4804442
1.24	4804443
1.25	4804444
1.26	4804445
1.27	4804446
1.28	4804447
1.29	4804448
1.3	4804449
1.31	4804450
1.32	4804451
1.33	4804452
1.34	4804453
1.35	4804454
1.36	4804455
1.37	4804456
1.38	4804457
1.39	4804458
1.4	4804459
1.41	4804460
1.42	4804461
1.43	4804462
1.44	4804463
1.45	4804464
1.46	4804465
1.47	4804466

Nominal size	Order no.
mm	
1.48	4804467
1.49	4804468
1.5	4804469
1.6	4804470
1.7	4804471
1.8	4804472
1.9	4804473
2	4804474
2.5	4804475
3	4804476
3.5	4804477
4	4804478
4.5	4804479
5	4804480
5.1	4806114
5.5	4804481
6	4804482
6.5	4804483
7	4804484
7.5	4804485
7.7	4806115
8	4804486
8.5	4804487
9	4804488
9.5	4804489
10	4804490
10.3	4806116
10.5	4804491
11	4804492
11.5	4804493
12	4804494
12.5	4804495
12.9	4806117
13	4804496
13.5	4804497
14	4804498
14.5	4804499
15	4804500
15.5	4804501
16	4804502
16.5	4804503
17	4804504
17.5	4804505
17.6	4806118
18	4804506
18.5	4804507
19	4804508
19.5	4804509
20	4804510
20.2	4806119
20.5	4804511
21	4804512
21.5	4804513
22	4804514
22.5	4804515
22.8	4806120
23	4804516
23.5	4804517
24	4804518

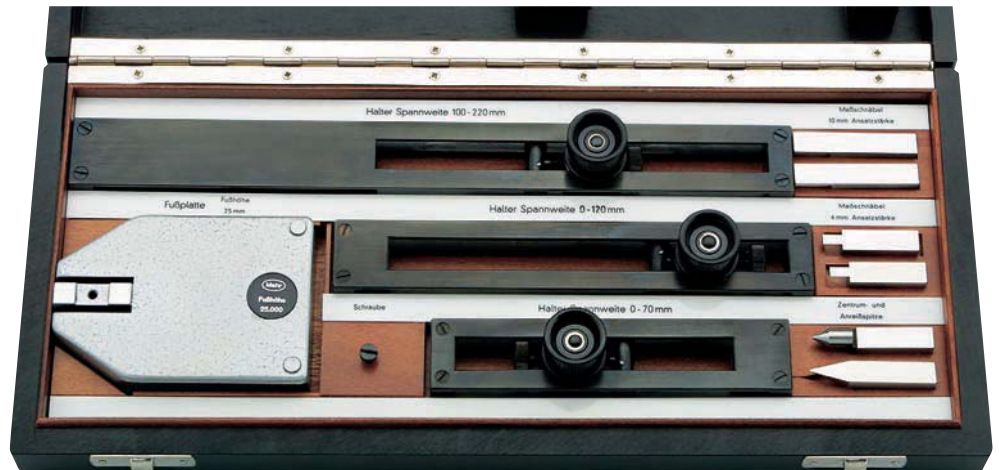
Nominal size	Order no.
mm	
24.5	4804519
25	4804520
30	4804521
40	4804522
41.3	4806121
50	4804523
60	4804524
70	4804525
75	4804526
80	4804527
90	4804528
100	4804529
131.4	4806122

- Ideal for all applications
- The outstanding features of all ceramic gage blocks from Mahr provide unrivalled flexibility in practical use
- Circonimar is equally well suited to inspection-room conditions and the rigors of workshop applications
- No material is easier to handle than Circonimar; it has excellent wringing properties, no corrosion, no need for lubrication, low weight and scratch resistant
- **Tolerance class 2**
For checking production gages of quality IT 6 and IT 7. For setting indicating measuring instruments and for checking accurate dimensions in the jig and tool industry.
- **Scope of delivery:** Wooden case (gage blocks >125 mm)
- **Coefficient of linear expansion:** $9,5 \times 10^{-6} \text{ K}^{-1}$

Gage block holder and measuring jaws accessory set MarGage 420

To be used in conjunction with Gage Blocks for gaging both workpieces and fixtures

- To check, set and adjust setting gages and measuring instruments
- For scribing and marking
- **Scope of delivery:** wooden case



Technical Data

Order no.	Product type
4800100	420

Accessories

Order no.	Product name	Set consists of	Product type
4800110	Measuring jaws, Thickness 2 x 2 mm = 4mm	•	420 m
4800111	Measuring jaws, Thickness 2 x 5 mm = 10 mm	•	420 m
4800112	Scriber tip	•	420 a
4800113	Centering point	•	420 z
4800120	Holder, Measuring span 0 –70mm	•	420 h
4800121	Holder, Measuring span 0 –120mm	•	420 h
4800122	Holder, Measuring span 100 –220mm	•	420 h
4800123	Holder, Measuring span 100 –420mm		420 h
4800124	Holder, Measuring span 400 –820mm		420 h
4800114	Stand	•	420 f