



BEARING & TOOL CENTRE



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Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

Quotation

1	Outside Micrometer	Least count 0. 01 mm
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Range-mm	W	C	D %	0-25	25-50	50-75	75-100
Insize Rs.	12	Y		1347	1527	1771	1970
Code				3203-25A	3203-50A	3203-75A	3203-100A
Catalog				Page No. - 3	Page No. - 3	Page No. - 3	Page No. - 3
Aerospace Rs.		N	10	350	500	650	730
Advance Rs.		N	10	700	800	850	950
M & W Rs.	6	N		1000	1150	1300	1400
Code				OM 25	OM 50	OM 75	OM 100
Catalog				Page No. - 8	Page No. - 8	Page No. - 8	Page No. - 8
Mahr Rs.	12	N		1560	2030	2360	2630
Baker Rs.	12	Y	15	1500	1990	2140	2380
Code				MMC 25	MMC 50	MMC 75	MMC 100
Catalog				Page No. - 5	Page No. - 5	Page No. - 5	Page No. - 5
Precision Rs.	12	Y	20	1150	1375	1600	1750
Mitutoyo Rs.	12	N	5	2071	2698	3138	3451
Code				103-137	103-138	103-139	103-140
Catalog				Page No. - 6	Page No. - 6	Page No. - 6	Page No. - 6

1 - 1	Outside Micrometer	Least count 0. 001 mm
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Range-mm	W	C	D %	0-25	25-50	50-75	75-100
Insize Rs.	12	Y		1704	1869	2071	2289
Code				3210-25A	3210-50A	3210 - 75A	3210 - 100A
Catalog				Page No. - 3	Page No. - 3	Page No. - 3	Page No. - 3
Mitutoyo Rs.	12	N	5	2472	3012		
Code				103-129	103-130		
Catalog				Page No. - 6	Page No. - 6		
Baker Rs.	12	Y	15	1610	2180	2420	2800
Code				MMC 25-1	MMC 50-1	MMC 75-1	MMC 100-1
Catalog				Page No. - 5	Page No. - 5	Page No. - 5	Page No. - 5

Note:- Aerospace item once sold will not be taken back even if it is Faulty.

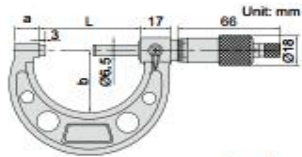
*** W - Warranty , C - Certificate , D- Discount

Terms & Conditions –

- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- **Bank Detail** – Kotak Mahindra Bank Ltd.
- **Branch** – Shivranjini
- **Bank IFSC Code** - KKBK 0000 810
- **Bank Account No.** 08102 00000 2689
- Note - While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued Orders

INSIZE MAKE

- Graduation: 0.01mm
- Carbide measuring faces
- Meet DIN863
- Supplied with setting standards (except 0-25mm)



OUTSIDE MICROMETER



Ratchet stop type

Code	Range	Accuracy	L	a	b
3203-25A *	0-25mm	4µm	32	9	28
3203-50A *	25-50mm	4µm	57	14	38
3203-75A *	50-75mm	5µm	82	15	49
3203-100A *	75-100mm	5µm	107	15	60
3203-125A	100-125mm	6µm	133	16.5	73
3203-150A	125-150mm	6µm	158	16.5	85
3203-175A	150-175mm	7µm	183	19.4	104
3203-200A	175-200mm	7µm	209	19.4	117
3203-225A	200-225mm	8µm	234	19.4	130
3203-250A	225-250mm	8µm	260	19.4	142
3203-275A	250-275mm	9µm	285	19.4	155
3203-300A	275-300mm	9µm	310	19.4	168



3203-25A



3203-50A

Micrometer set (ratchet stop type)

Code	Range	Micrometers included
3203-753A *	0-75mm	3203-25A, 3203-50A, 3203-75A
3203-1004A *	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A
3203-1506A	0-150mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A
3203-3006A	150-300mm	3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A
3203-3012A	0-300mm	3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A, 3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A



3203-1506A



ratchet stop



friction thimble for one hand operation

Friction thimble type

Code	Range	Accuracy	L	a	b
3203-25FA *	0-25mm	4µm	32	9	28
3203-50FA *	25-50mm	4µm	57	14	38

* Supplied with manufacturer inspection certificate traceable to DKD Germany

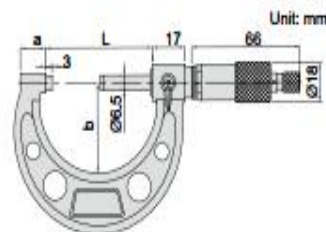


- Graduation 0.001mm
- Carbide measuring faces
- Meet DIN863
- Supplied with setting standards (except 0-25mm)

1µm GRADUATION OUTSIDE MICROMETER



3210-25A



ratchet stop



friction thimble for one hand operation

Ratchet stop type

Code	Range	Accuracy	L	a	b
3210-25A *	0-25mm	4µm	32	9	28
3210-50A *	25-50mm	4µm	57	14	38
3210-75A *	50-75mm	5µm	82	15	49
3210-100A *	75-100mm	5µm	107	15	60
3210-125A	100-125mm	6µm	133	16.5	73
3210-150A	125-150mm	6µm	158	16.5	85
3210-175A	150-175mm	7µm	183	19.4	104
3210-200A	175-200mm	7µm	209	19.4	117

Friction thimble type

Code	Range	Accuracy	L	a	b
3210-25FA *	0-25mm	4µm	32	9	28
3210-50FA *	25-50mm	4µm	57	14	38

Micrometer set (ratchet stop type)

Code	Range	Micrometers included
3210-753A *	0-75mm	3210-25A, 3210-50A, 3210-75A
3210-1004A *	0-100mm	3210-25A, 3210-50A, 3210-75A, 3210-100A
3210-1506A	0-150mm	3210-25A, 3210-50A, 3210-75A, 3210-100A, 3210-125A, 3210-150A

* Supplied with manufacturer inspection certificate traceable to DKD Germany

MAHIR MAKE

Micrometer Micromar 40 A

DIN
863-1

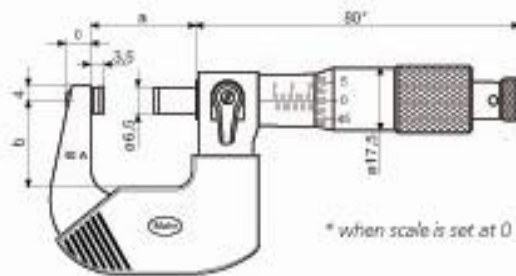


Features

- Hard lacquered steel frame
- Spindle and anvil made of hardened steel, carbide tipped
- Scales with satin-chrome finish
- Heat insulators
- Rapid drive with integrated ratchet
- Locking device
- Supplied with: Case, setting standard (from measuring range 25-50 mm / 1-2"), operating instructions

Technical Data

Measuring range	Readings	Error limit G	Spindle thread pitch	Order no.
0 - 25 mm	0.01 mm	4 µm	0.5 mm	4134000
25 - 50 mm	0.01 mm	4 µm	0.5 mm	4134001
50 - 75 mm	0.01 mm	5 µm	0.5 mm	4134002
75 - 100 mm	0.01 mm	5 µm	0.5 mm	4134003
100 - 125 mm	0.01 mm	6 µm	0.5 mm	4134004
125 - 150 mm	0.01 mm	6 µm	0.5 mm	4134005
150 - 175 mm	0.01 mm	7 µm	0.5 mm	4134006
175 - 200 mm	0.01 mm	7 µm	0.5 mm	4134007
0 - 1"	.0001"	.00016"	.025"	4134900
1 - 2"	.0001"	.00016"	.025"	4134901
2 - 3"	.0001"	.00020"	.025"	4134902
3 - 4"	.0001"	.00020"	.025"	4134903
4 - 5"	.0001"	.00024"	.025"	4134904
5 - 6"	.0001"	.00024"	.025"	4134905
6 - 7"	.0001"	.00028"	.025"	4134906
7 - 8"	.0001"	.00028"	.025"	4134907



Dimensions

Measuring range mm / inch	a mm	b mm	c mm
0 - 25 mm / 0-1"	31	25.5	7
25 - 50 mm / 1-2"	56	34.5	12
50 - 75 mm / 2-3"	81	47.5	12
75 - 100 mm / 3-4"	106	58.5	13
100 - 125 mm / 4-5"	131	71.5	13
125 - 150 mm / 5-6"	156	83.5	13
150 - 175 mm / 6-7"	182	95.5	13
175 - 200 mm / 7-8"	207	108.5	13

Accessories

Stand, setting standards, etc. please refer to page 3-22

Micrometer Sets Micromar 40 SA

Application range	Order no.	Remarks
0-100 mm (4 Micrometers)	4134050	Incl. wooden case, setting standards 25 mm and 75 mm
100-200 mm (4 Micrometers)	4134051	Incl. wooden case, setting standards 125 mm and 175 mm
0-4" (4 Micrometers)	4134960	Incl. wooden case, setting standards 1" and 3"
4-8" (4 Micrometers)	4134961	Incl. wooden case, setting standards 5" and 7"



BAKER MAKE

EXTERNAL MICROMETERS



METRIC MICROMETERS

DIN : 863 - 1999 / IS 2967 - 1983

TYPE	RANGE	READING	₹
MMC25	0 - 25 mm	0.01 mm	1500
MMC50	25 - 50 mm	0.01 mm	1990
MMC75	50 - 75 mm	0.01 mm	2140
MMC100	75 - 100 mm	0.01 mm	2360
MMC125	100 - 125 mm	0.01 mm	2860
MMC150	125 - 150 mm	0.01 mm	3210
MMC175	150 - 175 mm	0.01 mm	3920
MMC200	175 - 200 mm	0.01 mm	4720
MM300	200 - 300 mm	0.01 mm	14280
MM400	300 - 400 mm	0.01 mm	22200
MM500	400 - 500 mm	0.01 mm	24770
MME600	500 - 600 mm	0.01 mm	32060
MME700	600 - 700 mm	0.01 mm	35630
MME800	700 - 800 mm	0.01 mm	42280
MME900	800 - 900 mm	0.01 mm	47950
MME1000	900 - 1000 mm	0.01 mm	56750

TYPE	RANGE	READING	₹
MMC25-1	0 - 25 mm	0.001 mm	1660
MMC50-1	25 - 50 mm	0.001 mm	2250
MMC75-1	50 - 75 mm	0.001 mm	2490
MMC100-1	75 - 100 mm	0.001 mm	2880
MMC125-1	100 - 125 mm	0.001 mm	3620
MMC150-1	125 - 150 mm	0.001 mm	3850

METRIC MICROMETER WITH INTERCHANGEABLE MEASURING ANVILS

TYPE	RANGE	READING	₹
MMI 0-100	0-100 mm	0.01 mm	9030
MMI 0-150	0-150 mm	0.01 mm	11130
MMI 150-300	150-300 mm	0.01 mm	15310

METRIC MICROMETER HEAD

TYPE	RANGE	READING	₹
MM25 - HP	0 - 25 mm PLAIN	0.01 mm	1290
MM25 - HT	0 - 25 mm THREADED	0.01 mm	1340
MM25-1 HP	0 - 25 mm PLAIN	0.001 mm	1430
MM25-1 HT	0 - 25 mm THREADED	0.001 mm	1480

NOTE: PRICE FOR SPECIAL MICROMETER HEADS AS PER CUSTOMER REQUIREMENTS ON REQUEST.

METRIC DEPTH MICROMETER

TYPE	RANGE	READING	₹
MMA25 - DM	0 - 25 mm	0.01 mm	4380
MMA25-1 DM	0 - 25 mm	0.001 mm	4380

METRIC DEPTH MICROMETER WITH INTERCHANGEABLE MEASURING INSERTS

TYPE	RANGE	READING	₹
MMA100-DM	0-100 mm	0.01 mm	5360
MMA100-1DM	0-100 mm	0.001 mm	5920

NOTE: CALIBRATION CERTIFICATE IS SUPPLIED WITH EACH MICROMETER TRACEABLE TO NATIONAL LENGTH STANDARDS.

MITUTOYO MAKE

Outside Micrometers

SERIES 103

FEATURES

- Hammertone-green, baked-enamel-finished frame.
- Ratchet Stop or Friction Thimble for exact repetitive readings.
- With a standard except for 25mm model.



103-137



(Refer to the page 9 for details.)

Technical Data

Accuracy: Refer to the list of specifications.
 Graduation: 0.01mm, 0.001mm, .001" or .0001"
 Flatness: 0.6μm for models up to 300mm
 1μm for models over 300mm
 Parallelism: (2+R/100)μm, R = max. range (mm)
 *fraction rounded down
 Measuring faces: Carbide tipped

SPECIFICATIONS

Metric	With ratchet stop	
Range	Order No.	Accuracy
0 - 25mm	103-137	±2μm
	103-129*	±2μm
25 - 50mm	103-138	±2μm
	103-130*	±2μm
50 - 75mm	103-139-10	±2μm
75 - 100mm	103-140-10	±3μm
100 - 125mm	103-141-10	±3μm
125 - 150mm	103-142-10	±3μm
150 - 175mm	103-143-10	±4μm
175 - 200mm	103-144-10	±4μm
200 - 225mm	103-145-10	±4μm
225 - 250mm	103-146-10	±5μm
250 - 275mm	103-147-10	±5μm
275 - 300mm	103-148-10	±5μm
300 - 325mm	103-149	±6μm
325 - 350mm	103-150	±6μm
350 - 375mm	103-151	±6μm
375 - 400mm	103-152	±7μm
400 - 425mm	103-153	±7μm
425 - 450mm	103-154	±7μm
450 - 475mm	103-155	±8μm
475 - 500mm	103-156	±8μm

(Models with a range up to 1000mm are available.)

*0.001mm reading is obtained with vernier.

Metric	With friction thimble	
Range	Order No.	Accuracy
0 - 25mm	103-125	±2μm
	103-133*	±2μm
25 - 50mm	103-126	±2μm

*0.001mm reading is obtained with vernier.

Inch	With ratchet stop	
Range	Order No.	Accuracy
0 - 1"	103-177	±.0001"
	103-131*	±.0001"
1" - 2"	103-178	±.0001"
	103-132*	±.0001"
2" - 3"	103-179	±.0001"
3" - 4"	103-180	±.00015"
4" - 5"	103-181	±.00015"
5" - 6"	103-182	±.00015"
6" - 7"	103-183	±.0002"
7" - 8"	103-184	±.0002"
8" - 9"	103-185	±.0002"
9" - 10"	103-186	±.00025"
10" - 11"	103-187	±.00025"
11" - 12"	103-188	±.00025"
12" - 13"	103-189	±.0003"
13" - 14"	103-190	±.0003"
14" - 15"	103-191	±.0003"
15" - 16"	103-192	±.00035"
16" - 17"	103-193	±.00035"
17" - 18"	103-194	±.00035"
18" - 19"	103-195	±.0004"
19" - 20"	103-196	±.0004"

(Models with a range up to 40" are available.)

*.0001" reading is obtained with vernier.

Inch	With friction thimble	
Range	Order No.	Accuracy
0 - 1"	103-127	±.0001"
	103-135	±.0001"
1" - 2"	103-128	±.0001"
	103-136	±.0001"

*.0001" reading is obtained with vernier.

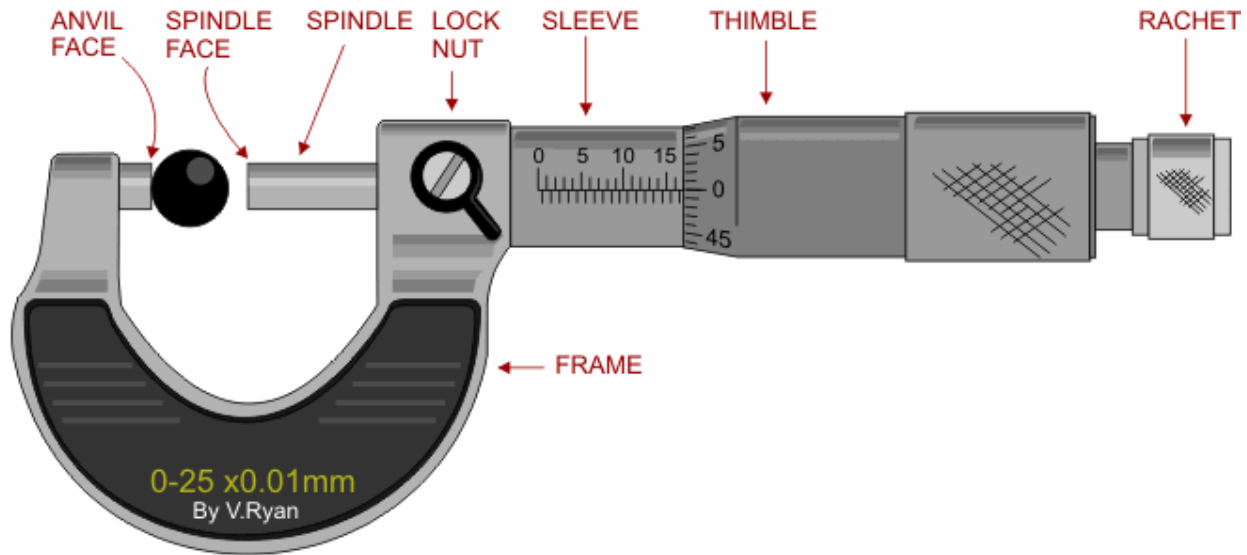
Metric	Micrometer set	
Range	Order No.	Assortment of micrometers
0 - 75mm (3 pcs./set)	103-927-10	103-137, 103-138, 103-139-10, 2 micrometer standards
0 - 150mm (6 pcs./set)	103-913-31	102-701*, 103-138, 103-139-10, 103-140-10, 103-141-10, 103-142-10, 5 micrometer standards
150 - 300mm (6 pcs./set)	103-915-10	103-143-10, 103-144-10, 103-145-10, 103-146-10, 103-147-10, 103-148-10, 6 micrometer standards
0 - 300mm (12 pcs./set)	103-914-31	All micrometers of 103-913-31 and 103-915-10 in one set, 11 micrometer standards

*Ratchet thimble micrometer

Inch	Micrometer set	
Range	Order No.	Assortment of micrometers
0 - 3" (3 pcs./set)	103-929	103-177, 103-178, 103-179, 2 micrometer standards
0 - 4" (4 pcs./set)	103-930	103-177, 103-178, 103-179, 103-180, 3 micrometer standards
0 - 6" (6 pcs./set)	103-904-01	101-711*, 101-106, 103-179, 103-180, 103-181, 103-182, 5 micrometer standards
6" - 12" (6 pcs./set)	103-906	103-183, 103-184, 103-185, 103-186, 103-187, 103-188, 6 micrometer standards
0 - 12" (12 pcs./set)	103-905-01	All micrometers of 103-904-01 and 103-906 in one set, 11 micrometer standards

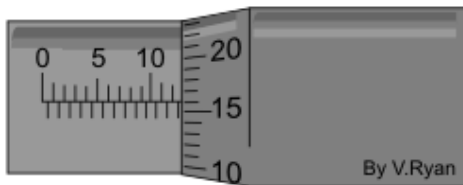
*Ratchet thimble micrometer

The micrometer is a precision measuring instrument, used by engineers. Each revolution of the ratchet moves the spindle face 0.5mm towards the anvil face. The object to be measured is placed between the anvil face and the spindle face. The ratchet is turned clockwise until the object is 'trapped' between these two surfaces and the ratchet makes a 'clicking' noise. This means that the ratchet cannot be tightened any more and the measurement can be read.

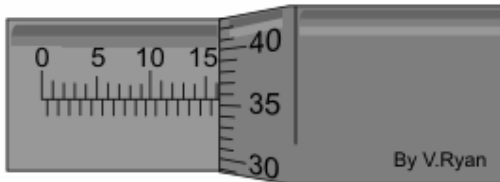


Using the first example seen below:

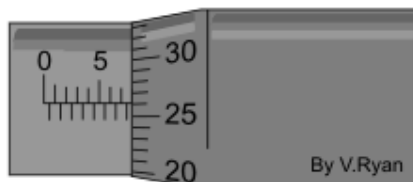
1. Read the scale on the sleeve. The example clearly shows 12 mm divisions.
 2. Still reading the scale on the sleeve, a further 1/2 mm (0.5) measurement can be seen on the bottom half of the scale. measurement now reads 12.5mm.
 3. Finally, the thimble scale shows 16 full divisions (these are hundredths of a mm).
- The final measurement is $12.5\text{mm} + 0.16\text{mm} = 12.66$



SLEEVE READS FULL mm = 12.00
 SLEEVE READS 1/2 mm = 0.50
 THIMBLE READS = 0.16
TOTAL MEASUREMENT = 12.66mm



SLEEVE READS FULL mm = 16.00
 SLEEVE READS 1/2 mm = 0
 THIMBLE READS = 0.355
TOTAL MEASUREMENT = 16.355mm



SLEEVE READS FULL mm = 7.00
 SLEEVE READS 1/2 mm = 0.50
 THIMBLE READS = 0.26
TOTAL MEASUREMENT = 7.76mm

M&W MAKE

Outside Micrometer



(0.01 mm)

CODE	RANGE	PRICE
OM 25	0-25 mm	1,000/-
OM 50	25-50 mm	1,150/-
OM 75	50-75 mm	1,300/-
OM 100	75-100 mm	1,400/-