



BEARING & TOOL CENTRE



Head Office

1st Floor, Vyapar Bhavan, Kadia Kui,
Relief Road, Ahmedabad - 380001.
Ph:- 079 - 22160386, 65254835, 22134835
Mobile : 7819819941, 9375706649

Ahmedabad Branch

GF-B-14, Jayraj Complex, Nr. Soni ni Chawl,
Odhav, Ahmedabad - 382415.
Ph:- 079 - 22890202, 65458950, 65404657, 65400202
Mobile : 7878825197, 7819819938, 9375706648

Website : www.bearingtoolcentre.com, www.bearingtoolscentre.com | Email : info@bearingtoolcentre.com

Our Sister Concern : RELIEF SERVICE CENTRE

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

Quotation

2	Outside Micrometer	Least count 0. 01 mm
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Range-mm	W	C	D%	100-125	125-150	150-175	175-200	200-225	225-250	250-275	275-300
Insize Rs.	12	N		2508	2841	3486	3862	4170	4669	5171	5485
Code (3203)				125A	150A	175A	200A	225A	250A	275A	300A
Catalog				Page - 2	Page - 2	Page - 2	Page - 2	Page - 2	Page - 2	Page - 2	Page - 2
Aerospace Rs.		N	10	950	1030	1190	1290	1670	1850	2060	2310
M & W	6	N		1650	1850	2200	2500	2700	3000	3200	3800
Code				OM 125	OM 150	OM 175	OM 200	OM 225	OM 250	OM 275	OM 300
Catalog				Page - 6	Page - 6	Page - 6	Page - 6	Page - 6	Page - 6	Page - 6	Page - 6
Baker Rs.	12	Y	15	2860	3210	3920	4720	-	-	-	-
Code (MMC)				125	150	175	200	-	-	-	-
Catalog				Page - 3	Page - 3	Page - 3	Page - 3				
Precision Rs.	12	Y	20	2000	2300	2600	3000	3350	3650	3850	4200
Mitutoyo Rs.	12	N	5	4800	5250	6160	6610	7088	7538	8204	8898
Code (103)				141	142	143	144	145	146	147	148
Catalog				Page - 4	Page - 4	Page - 4	Page - 4	Page - 4	Page - 4	Page - 4	Page - 4
Calibration Rs.				275	275	275	275	300	300	300	300

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

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

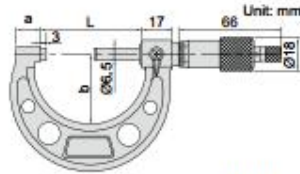
Terms & Conditions –

- 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

OUTSIDE MICROMETER

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



Ratchet stop type (mm)

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

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

* Supplied with manufacturer inspection certificate traceable to DKD Germany



3203-25A



3203-50A



3203-1506A



ratchet stop



friction thimble for one hand operation

Friction thimble type (mm)

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



BAKER MAKE

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
MMI300	200 - 300 mm	0.01 mm	14280
MMI400	300 - 400 mm	0.01 mm	22200
MMI500	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.

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	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.

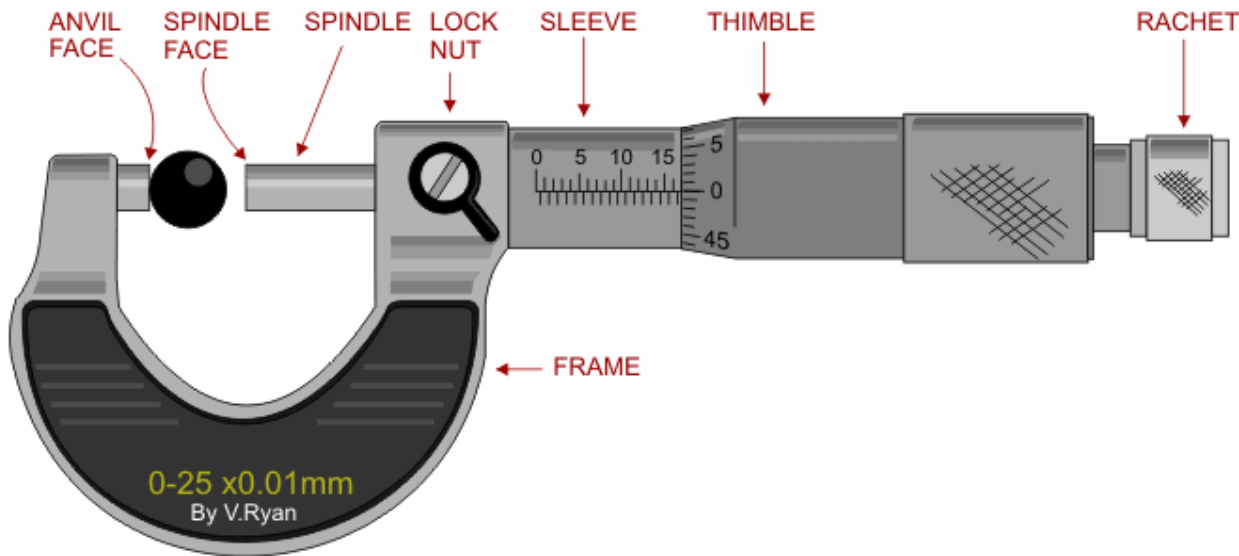
Inch	With friction thimble	
Range	Order No.	Accuracy
0 - 1"	103-127	±.0001"
	103-135	±.0001"
1" - 2"	103-128	±.0001"
	103-136	±.0001"

*.0001" reading is obtained with vernier.

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	103-1711*, 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

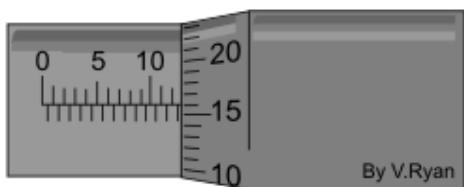
*Ratchet thimble micrometer

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.

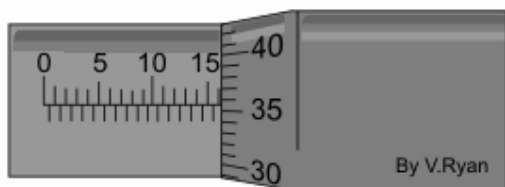


Using the first example seen below:

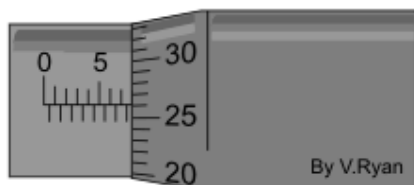
1. Read the scale on the sleeve. The example clearly shows 12 mm divisions.
2. Still reading the scale on the sleeve, a further 1/2 mm (0.5) measurement can be seen on the bottom half of the scale. The measurement now reads 12.5mm.
3. Finally, the thimble scale shows 16 full divisions (these are hundredths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



(0.01mm)

CODE	RANGE	PRICE
OM 125	100-125 mm	1,650/-
OM 150	125-150 mm	1,850/-
OM 175	150-175 mm	2,200/-
OM 200	175-200 mm	2,500/-
OM 225	200-225 mm	2,700/-
OM 250	225-250 mm	3,000/-
OM 275	250-275 mm	3,200/-
OM 300	275-300 mm	3,800/-