

**BEARING & TOOL CENTRE** 



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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**

Range-mm	W	C	D %	0 – 1	1 – 2	2-3	3-4	4 – 5	5-6	6 - 7	7 – 8	8 - 12
Insize Rs.	12	Y		1443	1621	1793	1994	2508	2841			
Code (3203)				1A	2A	3A	<b>4</b> A	5A	6A			
Catalog On page				2	2	2	2	2	2			
Aerospace Rs.		Ν	10	350	500	650	910	1170	1290			10250
M & W Rs.	6	Ν		1000	1150	1300	1400	1650	1850	2200	2500	
Code				<b>OM 1</b>	OM 2	OM 3	<b>OM 4</b>	OM 5	<b>OM 6</b>	<b>OM 7</b>	<b>OM 8</b>	
Catalog On Page				7	7	7	7	7	7	7	7	
Baker Rs.	12	Y	15	1500	1990	2140	2360	2850	3210	3920	4720	14280
Code				INC 1	INC 2	INC 3	INC 4	INC 5	INC 6	INC 7	INC 8	<b>INC 12</b>
Catalog On Page				3	3	3	3	3	3	3	3	3
Mitutoyo Rs.	12	Ν	5	2513	3197	3665	3990	4800	5250			
Code (103 )				177	178	179	180	181	182			
Catalog On Page				4	4	4	4	4	4			

#### 3 Outside Micrometer Least count 0. 001 inch

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**

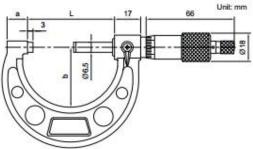


- Meet DIN863
- Supplied with setting standards(except 0-25mm and 0-1")

Code	Range	Accuracy	L	а	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

moundiatoner	annibio type)				(
Code	Range	Accuracy	L	a	б
3203-25FA	0-25mm	4µm	32	9	28
3203-50FA	25-50mm	4µm	57	14	38

mperial(ratc	het stop type)				(mm
Code	Range	Accuracy	L	a	b
3203-1A	0-1"	0.00015*	32	9	28
3203-2A	1-2"	0.00015*	57	14	38
3203-3A	2-3"	0.0002*	82	15	49
3203-4A	3-4"	0.0002*	107	15	60
3203-5A	4-5"	0.00025*	133	16.5	73
3203-6A	5-6"	0.00025*	158	16.5	85



Metric micrometer set (ratchet stop type) Micrometers included Code Range 3203-25A, 3203-50A, 3203-753A 0-75mm 3203-75A 3203-25A, 3203-50A, 3203-1004A 0-100mm 3203-75A, 3203-100A 3203-25A, 3203-50A, 3203-1506A 0-150mm 3203-75A, 3203-100A, 3203-125A, 3203-150A 3203-175A, 3203-200A, 3203-3006A 150-300mm 3203-225A, 3203-250A, 3203-275A, 3203-300A 3203-25A, 3203-50A, 3203-75A, 3203-100A, 3203-125A, 3203-150A, 3203-3012A 0-300mm 3203-175A, 3203-200A, 3203-225A, 3203-250A, 3203-275A, 3203-300A

# **BAKER MAKE**

### **EXTERNAL MICROMETERS**

#### INCH MICROMETERS

#### ASME B89.1.13-2013

TYPE	RANGE	READING	₹
INC1	0 - 1"	0.001"	1500
INC2	1 - 2"	0.001"	1990
INC3	2 - 3"	0.001"	2140
INC4	3 - 4"	0.001"	2360
INC5	4 - 5"	0.001"	2850
INC6	5 - 6"	0.001"	3210
INC7	6 - 7"	0.001"	3920
INC8	7 - 8"	0.001"	4720
INC12	8 - 12"	0.001"	14280
INC16	12 - 16"	0.001"	22200
INC20	16 - 20"	0.001"	24770
INE24	20 - 24"	0.001"	32060
INE28	24 - 28"	0.001"	35630
INE32	28 - 32"	0.001"	42280
INE36	32 - 36"	0.001"	47950
INE40	36 - 40"	0.001"	56750

# **MITUTOYO MAKE**

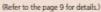
## **Outside Micrometers**

SERIES 103

#### FEATURES

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







#### **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 up to 300mm Parallelism: (2+R/100)µm, R = max. range (mm) \*fraction rounded down Measuring faces: Carbide tipped

#### SPECIFICATIONS

Range	Order No.	Accuracy
) - 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	±бµт
825 - 350mm	103-150	±бµт
350 - 375mm	103-151	±бµт
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

\*0.001mm reading is obtained with vernier.

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*

\*.0001\* reading is obtained with vernier.

#### Inch

Range	Order No.	Accuracy
0 - 1*	103-127	±.0001*
	103-135	±.0001*
1" - 2"	103-128	±.0001*
	103-136	±.0001*

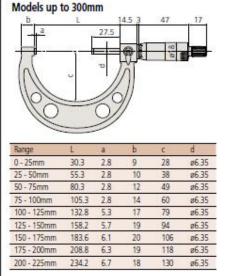
\*.0001\* reading is obtained with vernier.

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

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

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#### DIMENSION AND MASS



	100		8140	1	
-	7		-	1	
Range	L	а	Ь	ε	d
225 - 250mm	258	5.5	18	143	ø6.35
250 - 275mm	284	6.5	18	156	ø6.35
275 - 300mm	309	6.5	18	169	ø6.35
300 - 325mm	353	18	28	187	88
325 - 350mm	378	18	28	199	88
350 - 375mm	403	18	28	212	ø8
375 - 400mm	428	18	28	224	88
400 - 425mm	453	18	28	236	ø8
425 - 450mm	478	18	28	248	ø8
450 - 475mm	503	18	28	261	88
475 - 500mm	528	18	28	273	88

Models over 300mm

b

Unit: mm

50 1

28.3

## **Outside Micrometers**

SERIES 101

#### FEATURES

- Satin-chrome-finished frame, tapered (on the anvil side) for hard-to-reach places.
- With a standard except for .5"/1" models.

101-101 0-15= 0.01=

#### SPECIFICATIONS

#### Metric With ratchet stop

Range	Order No.	Accuracy
0 - 15mm	101-101	±2µm
	101-227*	±2µm

\*0.001mm reading is obtained with vernier.

#### Inch With ratchet stop

Range	Order No.	Accuracy
0-1*	101-105	±.0001*
	101-113*	±.0001*
1" - 2"	101-106	±.0001*
	101-114*	±.0001"
2"-3"	101-119*	±.0001*
3" - 4"	101-120*	±.00015*

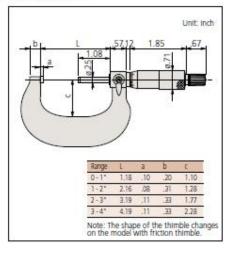
\*.0001\* reading is obtained with vernier.

# Inch With friction thimble Range Order No. Accuracy 0 - 1" 101-109 ±.0001" 101-117\* ±.0001" 1" - 2" 101-110 ±.0001" 101-118\* ±.0001"

\*.0001\* reading is obtained with vernier.

#### DIMENSION

Mitatoyo

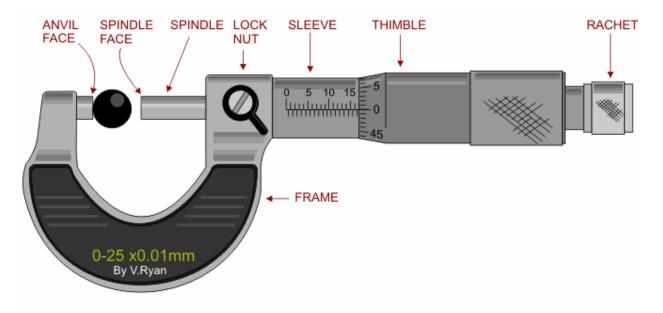


#### **Technical Data**

Accuracy: Refer to the list of specifications. Graduation: 0.01mm, 0.001mm, .001" or .0001" Flatness: 0.6µm Parallelism: 1.3µm (.00005") for models up to 15mm .00008" for models up to 3" .00012" for models over 3" Measuring faces: Carbide tipped



The micrometer is a precision measuring instrument, used by engineers. Each revolution of the rachet 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 rachet is turned clockwise until the object is 'trapped' between these two surfaces and the rachet makes a 'clicking' noise. This means that the rachet cannot be tightened any more and the measurement can be read.



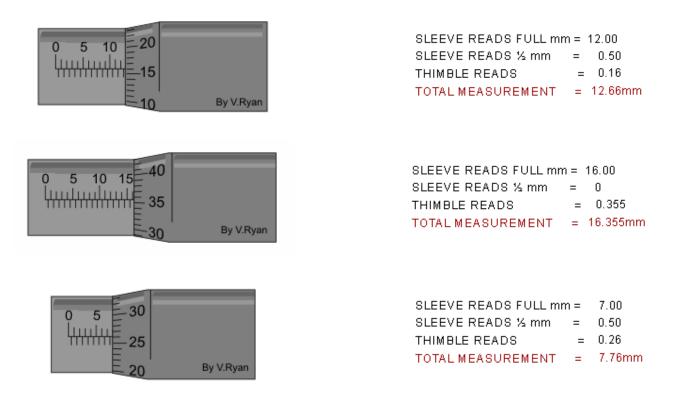
Using the first example seen below:

**1.** Read the scale on the sleeve. The example clearly shows12 mm divisions.

**2.** Still reading the scale on the sleeve, a further  $\frac{1}{2}$  mm (0.5) measurement can be seen on the bottom half of the scale. Th 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



# M&W MAKE

# **Outside Micrometer**

10.000 No.000

Ve	9	( 0.001" )	
CODE	RANG	E PRICE	
<b>OM 1</b>	0.1"	1,000/-	
<b>OM 2</b>	1.2"	1,150/-	
OM 3	2.3"	1,300/-	
<b>OM 4</b>	3-4"	1,400/-	
<b>OM 5</b>	4.5"	1,650/-	
<b>OM 6</b>	5-6"	1,850/-	
<b>OM 7</b>	6.7"	2,200/-	
<b>0M 8</b>	7-8"	2,500/	