



# 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

#### 54 | Lever / Puppet Dial / Dial Test Indicator

Range – mm	W	C	D%	0.8	0.8	0.8	0.2	0.2	0.14	0.14	0.8
Least count				0.01	0.01	0.01	0.002	0.002	0.001	0.001	0.01
Accessory		N		with	without	without	with	without	With	Without	Without
Insize Rs.	12	Y			2719	3063	4904	5106			
Code					2380-08	2381-08	2380-02	2381-02			
Page No. -					2	2	2	2			
Aerospace Rs.		N	10	1920	1240		3600	--	---	---	
Advance Rs.		N	10		1550						
M & W Rs.	6	N			2000			2800			
Code					DTI 01			DTI 002			
Page No. -					9			9			
Baker Rs.	12	Y	15	3710	2940	3140	7350	6725			5400
Code				302	302A	306A	308	308A			302L
Catalog				Page-3,4	Page -3,4	Page -3,4	Page -3,4	Page -3,4			Page -3,4
Precision	12	Y	20	2600							
Mitutoyo Rs.	12	N	5	5522	4267		5503		9132	5890	5503
Code ( 513 )				517	404A		405E		501T	401E	415E
Page No. -				6 to 9	6 to 9	6 to 9	6 to 9	6 to 9	6 to 9	6 to 9	6 to 9
Calibration				300	300	300	300	300	300	300	300

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

**Note :** Model no. 2381 – 08 & 306A Ø 37.5mm.

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

### Terms & Conditions –

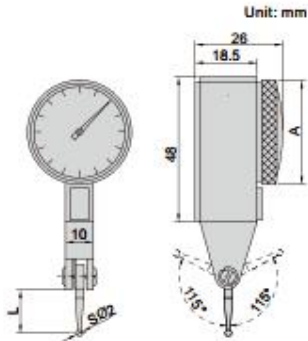
- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & 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



JEWELLED BEARING

- Jeweled bearing
- Carbide contact point
- Two measuring directions
- Anti magnetic body
- Supplied with two clamps: diameter Ø4mm and Ø8mm
- Optional accessory: styli (page 106)

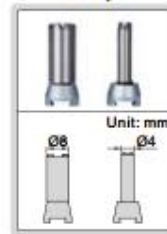


## DIAL TEST INDICATOR



2380-08

clamps



Code	Range	Graduation	Accuracy	Hysteresis	Dial reading	A	L
2380-08 *	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø30	13.5
2381-08 *	0.8mm	0.01mm	13µm	3µm	0-40-0	Ø37	13.5
2380-02 *	0.2mm	0.002mm	6µm	2µm	0-100-0	Ø30	12.5
2381-02 *	0.2mm	0.002mm	6µm	2µm	0-100-0	Ø37	12.5

\* Supplied with manufacturer inspection certificate traceable to NIST USA

# BAKER MAKE

## LEVER TYPE DIAL GAUGES (MODEL 29)

PRODUCT CODE	TYPE	READING	RANGE	GRADUATION	UNIT RATE ₹
D30009000	302	0.01 mm	0.8 mm	0-40-0	3,710.00
D34009000	304	0.002 mm	0.2 mm	0-10-0	6,000.00
D32009000	301	0.0005 inch	0.03 inch	0-15-0	4,870.00
D35009000	303	0.0001 inch	0.008 inch	0-4-0	7,350.00

Supplied with 2mm Ø T.C. Ball Stylus fitted to the gauge and 1mm Ø T.C. Ball Stylus, Height Gauge Adaptor, Ø 4mm & 8mm Dovetail Spigot Assembly and Universal Clamp as standard accessories in a box.

D30509000	302A	0.01 mm	0.8 mm	0-40-0	2,940.00
D34509000	304A	0.002 mm	0.2 mm	0-10-0	4,950.00
D32519000	301A	0.0005 inch	0.03 inch	0-15-0	4,240.00
D35519000	303A	0.0001 inch	0.008 inch	0-4-0	6,730.00

Supplied with 2mm Ø I.C. Ball Stylus & 8mm Dovetail Spigot Assembly fitted to the gauge.

## LEVER TYPE DIAL GAUGES WITH LONG STYLUS (MODEL 29)

PRODUCT CODE	TYPE	READING	RANGE	GRADUATION	UNIT RATE ₹
D30039000	302L	0.01 mm	0.8 mm	0-40-0	5,400.00
D32039000	301L	0.0005 inch	0.03 inch	0-15-0	5,920.00

Supplied with 33mm long 2mm Ø T.C. Ball Stylus fitted to the gauge, Height Gauge Adaptor, Ø 4mm & 8mm Dovetail Spigot Assembly and Universal Clamp as standard accessories in a box.

D30519000	302AL	0.01 mm	0.8 mm	0-40-0	4,575.00
D33009000	301AL	0.0005 inch	0.03 inch	0-15-0	5,040.00

Supplied with 33mm long 2mm Ø T.C. Ball Stylus & 8mm Dovetail Spigot Assembly fitted to the Gauge.

## LEVER TYPE DIAL GAUGES (MODEL 38)

PRODUCT CODE	TYPE	READING	RANGE	GRADUATION	UNIT RATE ₹
D30019000	306	0.01 mm	0.8 mm	0-40-0	4,120.00
D34029000	308	0.002 mm	0.2 mm	0-10-0	7,350.00
D32029000	305	0.0005 inch	0.03 inch	0-15-0	5,350.00
D35029000	307	0.0001 inch	0.008 inch	0-4-0	8,090.00

Supplied with 2mm Ø T.C. Ball Stylus fitted to the gauge and 1mm Ø T.C. Ball Stylus, Height Gauge Adaptor, Ø 4mm & 8mm Dovetail Spigot Assembly and Universal Clamp as standard accessories in a box.

D30579000	306A	0.01 mm	0.8 mm	0-40-0	3,140.00
D34519000	308A	0.002 mm	0.2 mm	0-10-0	6,725.00
D32529000	305A	0.0005 inch	0.03 inch	0-15-0	4,660.00
D35539000	307A	0.0001 inch	0.008 inch	0-4-0	7,400.00

## Lever Type

### Salient Features:

- Fitted with jewels and Swiss miniature ball bearings for smoother operation
- Highly sensitive at the same time robust dial gauge suitable for workshop use
- Auto reversal mechanism.
- Metric gauges conform to IS 11498-1985 and for the European market to DIN 2270-1985
- Inch gauges conform to ASME B89.1.10M-2001
- Each gauge carries a calibration certificate giving actual values.
- Available in two bezel diameters- 28mm and 38 mm
- Integral dovetail offers flexibility and rigidity for mounting of the gauge.
- Metric gauges have 2 mm tungsten carbide ball stylus while for inch gauges have 0.08-inch tungsten carbide ball stylus. Both are supplied with 8 mm spigot assembly as standard supply.



- No optional accessories are offered when suffix A is added to the type number.
- Additional 1 mm carbide ball stylus (0.04 inch for inch series) height gauge adaptor, universal clamp and 4 mm dovetail spigot assembly (1/4 inch for inch series) offered as optional accessories for the gauges when type number is with out suffix A



Supplied with 2mm/.08 inch tungsten carbide ball stylus and 8mm/3/8 inch spigot assembly with full set of accessories

Bezel dia	Type	Reading	Range	Graduation
28mm	302	0.01mm	0.8mm	0-40-0
28mm	304	0.002mm	0.2mm	0-10-0
28mm	301	0.0005inch	0.03inch	0-15-0
28mm	303	0.0001inch	0.008inch	0-4-0
38mm	306	0.01mm	0.8mm	0-40-0
38mm	308	0.002mm	0.2mm	0-10-0
38mm	305	0.0005inch	0.03inch	0-15-0
38mm	307	0.0001inch	0.008inch	0-4-0

Supplied with 2mm/.08 inch tungsten carbide ball stylus and 8mm/3/8 inch spigot assembly only

Bezel dia	Type	Reading	Range	Graduation
28mm	302A	0.01mm	0.8mm	0-40-0
28mm	304A	0.002mm	0.2mm	0-10-0
28mm	301A	0.0005inch	0.03inch	0-15-0
28mm	303A	0.0001inch	0.008inch	0-4-0
38mm	306A	0.01mm	0.8mm	0-40-0
38mm	308A	0.002mm	0.2mm	0-10-0
38mm	305A	0.0005inch	0.03inch	0-15-0
38mm	307A	0.0001inch	0.008inch	0-4-0



Each Gauge carries a calibration certificate giving actual values.



**MITUTOYO MAKE**

# Dial Test Indicator

**SERIES 513 — Universal Type**

## Set Configuration: Metric

### Full set



### Basic set



## Set Configuration: Inch

### Full set



### Basic set

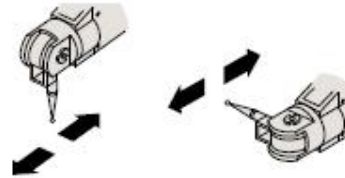


## Optional Accessory

- : Swivel clamp (See page 278.)
- : Holding bar (See page 278.)
- : Stem (See page 278.)
- 102824: Contact point, ø1mm ball (carbide)
- 102825: Contact point, ø2mm ball (carbide)
- 102826: Contact point, ø3mm ball (carbide)

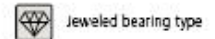
## FEATURES

- Universal application to all directions. (Not only the direction of the measuring point, but also the direction of measurement it-self can be adjusted 360 degrees without moving the indicator.)



513-304GE

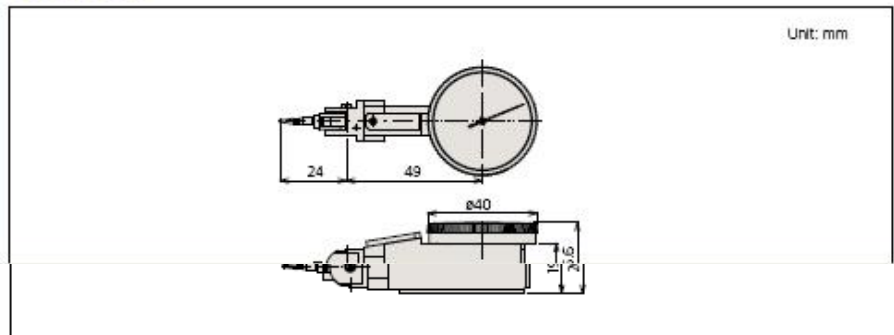
## SPECIFICATIONS



Graduation	Order No.		Range	Accuracy	Dial reading	Measuring force	Jeweled bearing type					
	Basic set	Full set						✓	—	—	—	—
0.01mm	513-304GE	513-304GT	0.8mm	8µm	0-40-0	0.3N or less	✓	—	—	—	—	—

Graduation	Order No.		Range	Accuracy	Dial reading	Measuring force	Jeweled bearing type					
	Basic set	Full set						✓	—	—	—	—
.0005"	513-302G	513-302GT	.03"	.0005"	0-15-0	0.3N or less	✓	—	—	—	—	—

## DIMENSION



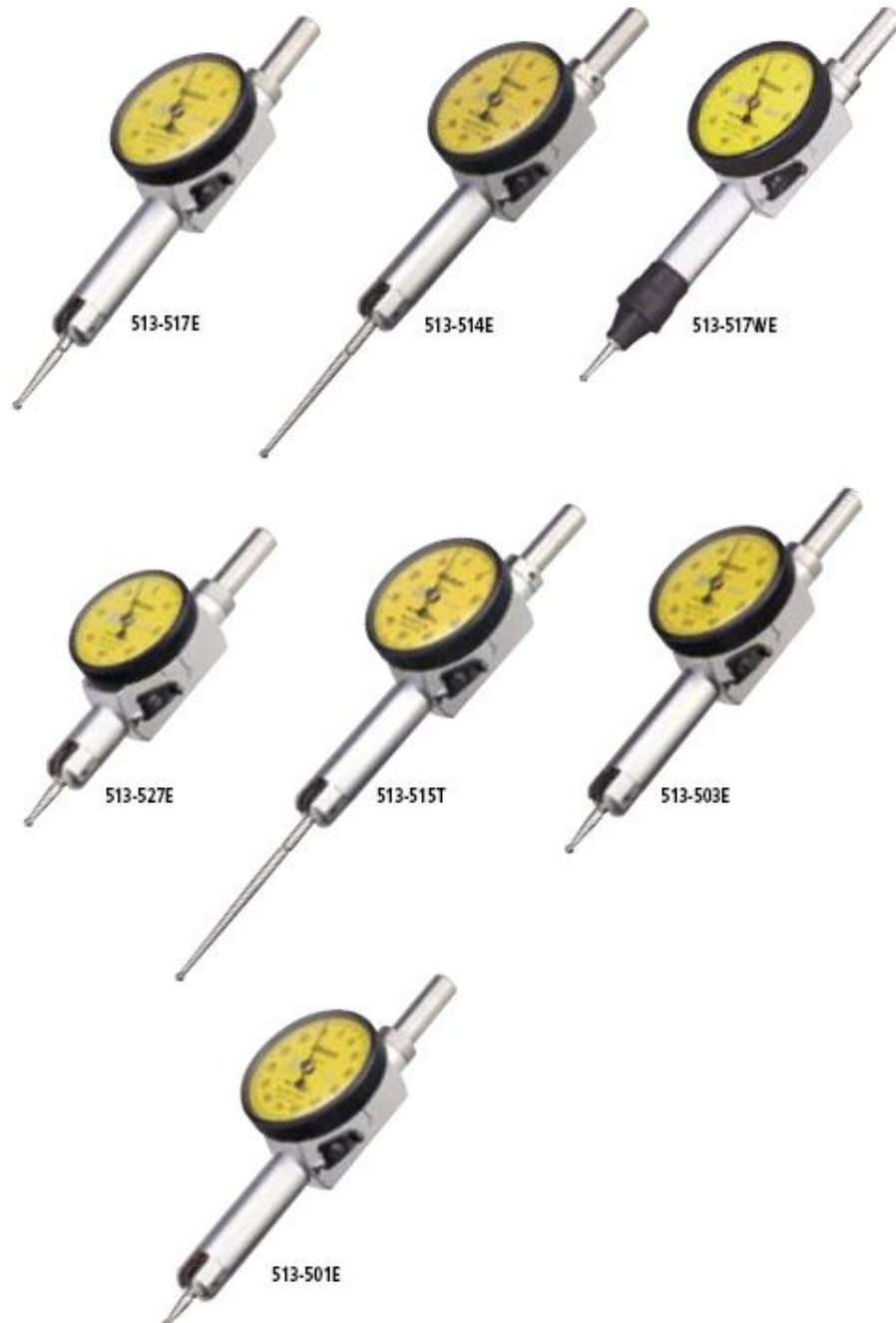
Unit: mm

# Pocket Type Dial Test Indicator

## SERIES 513

### FEATURES

- Jeweled bearings assure higher sensitivity and accuracy.
- Reversible measuring direction.
- Two holding bars are supplied. (Full sets only.)
- Fully adjustable bezel/dial face.
- Contact point is adjustable within 220°.
- Bezel is sealed with an O-ring to keep out water / oil.



513-514E



513-517E  
513-517WE  
513-527E



513-515T



513-503E



513-501E

### Optional Accessory

- : Swivel clamp (See page 279.)
- : Holding bar (See page 279.)
- : Stem (See page 279.)
- : Contact points (See page 279.)





Long contact point type



Jeweled bearing type



Dustproof type



Compact type

### Set Configuration: Metric

#### Full set



#### Basic set

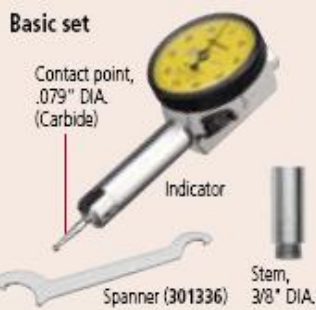


### Set Configuration: Inch

#### Full set



#### Basic set



## SPECIFICATIONS

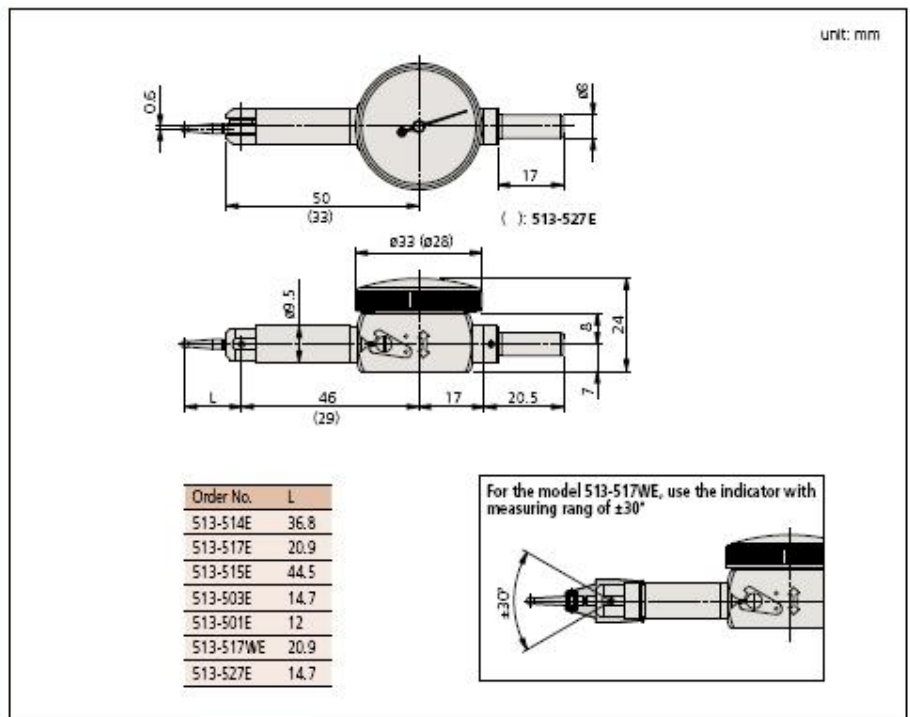
### Metric

Graduation	Order No.		Range	Accuracy	Dial reading	Measuring force					—	—
	Basic set	Full set										
0.01mm	513-514E	513-514T	0.5mm	10µm	0-25-0	0.3N or less	✓	✓	—	—	—	—
0.01mm	514-517E	513-517T	0.8mm	8µm	0-40-0	0.3N or less	—	✓	—	—	—	—
0.01mm	513-517WE	513-517WT	0.8mm	8µm	0-40-0	0.3N or less	—	✓	✓	—	—	—
0.01mm	513-527E	513-527T	0.8mm	8µm	0-40-0	0.3N or less	—	✓	—	✓	—	—
0.01mm	—	513-515T	1mm	10µm	0-50-0	0.3N or less	✓	✓	—	—	—	—
0.002mm	513-503E	513-503T	0.2mm	3µm	0-100-0	0.3N or less	—	✓	—	—	—	—
0.001mm	513-501E	513-501T	0.14mm	3µm	0-70-0	0.4N or less	—	✓	—	—	—	—

### Inch

Graduation	Order No.		Range	Accuracy	Dial reading	Measuring force					—	—
	Basic set	Full set										
.001"	513-518	513-518T	.04"	.001"	0-20-0	0.3N or less	—	✓	—	—	—	—
.001"	513-528	513-528T	.04"	.001"	0-20-0	0.3N or less	—	✓	✓	—	—	—
.0005"	513-512	513-512T	.02"	.0005"	0-10-0	0.3N or less	✓	✓	—	—	—	—
.0001"	513-504	513-504T	.01"	.0002"	0-5-0	0.3N or less	—	✓	—	—	—	—

## DIMENSION



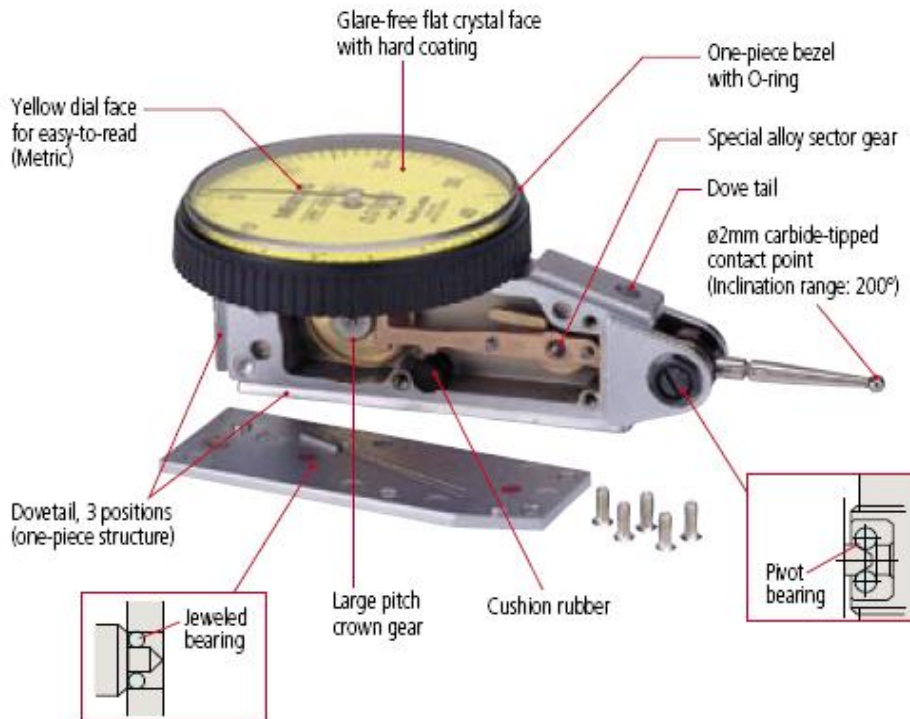


# Dial Test Indicator

SERIES 513

## FEATURES

- Narrow or deep places, which cannot be measured with a normal dial gauge, can be easily and accurately measured.
- Mitutoyo's proprietary new structure permits smooth pointer operation.
- Use of a hard frame body provides excellent rigidity and durability.
- Non-magnetic pointer and contact point permit secure operation even in environments with magnetism.
- Use of a clear and concise wide dial face allows excellent visibility.
- The surface of the crystal is hard-coated, to make it scratch-resistant.
- Flat crystal makes graduations easy to read. Moreover, the unified structure of the outer frame prevents oil and water from permeating via the front face.
- Six types are available: vertical, inclined, perpendicular, horizontal, universal, and pocketable, allowing users to select the model most suited to their needs.
- Vertical: Standard
- Inclined: Dial face inclined 20°, compared with the vertical type, allows easy reading.
- Perpendicular: Best suited for centering holes.
- Horizontal: The graduations can be read from the front, with the probe on the tip of the horizontal conical rod abutting the workpiece.
- Universal: The direction of the probe movement can be freely changed.
- Pocketable: Compact type



## Description of Icon

Icon	Description
	With revolution counter type
	Long contact point type
	Jeweled bearing type
	Double scale spacing type, easy-on-the-eyes
	Compact type
	Dustproof type
	Anti-magnetic type

# M&W MAKE



## Dial Test Indicator

CODE	RANGE	RESOLUTION	PRICE
DTI 01	0.8 mm	0.01 mm	2,000/-
DTI 002	0.2 mm	0.002 mm	2,800/-