

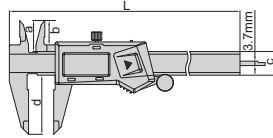
## DIGITAL CALIPERS (STANDARD MODEL, NON WATERPROOF)

DATA OUTPUT



1108-150

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, zero, mm/inch
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032
- ▶ Data output, meet DIN862
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable



Code	Range	Accuracy	L	a	b	c	d	List Price (₹)	Promotion Price (₹)
1108-150*	0-150mm/0-6"	±0.02mm	236	21	16	16	40	2263	1792
1108-200*	0-200mm/0-8"	±0.03mm	286	24	19	16	50	3116	2705
1108-300*	0-300mm/0-12"	±0.03mm	400	25	20.5	16	60	5468	4856

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

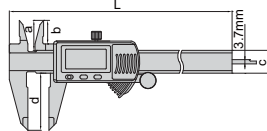
## DIGITAL CALIPERS (BASIC MODEL)

ATTENTION: NO DATE OUTPUT



1112-150

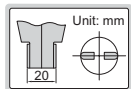
- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: zero, on/off, mm/inch
- ▶ Battery LR44
- ▶ Meet DIN862
- ▶ Made of stainless steel



Code	Range	Accuracy	L	a	b	c	d	List Price (₹)	Promotion Price (₹)
1112-150	0-150mm/0-6"	±0.03mm	236	21	16	16	40	2010	1590
1112-200	0-200mm/0-8"	±0.03mm	286	24	19	16	50	2813	2413
1112-300	0-300mm/0-12"	±0.03mm	400	25	20.5	17	60	5188	4437

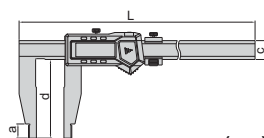
## DIGITAL CALIPERS (NON WATERPROOF)

DATA OUTPUT



1106-501

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Button function: on/off, zero, mm/inch, ABS, data preset
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable



Code	Range	Accuracy	a	c	d	L	List Price (₹)	Promotion Price (₹)
1106-501	0-500mm/0-20"	±0.05mm	18	24	100	675	12542	10084
1106-601	0-600mm/0-24"	±0.05mm	18	24	100	770	16393	11863
1106-1002	0-1000mm/0-40"	±0.08mm	24	31	150	1220	35886	29757

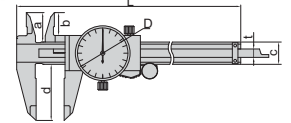
## DIAL CALIPERS

SHOCK PROOF



1312-150A

- ▶ Accuracy: ±0.03mm
- ▶ Shockproof dial indicator
- ▶ Made of stainless steel



Dial indicator graduation 0.02mm

(mm)

Code	Range	L	a	b	c	d	D	t	List Price (₹)	Promotion Price (₹)
1312-150A*	0-150mm	235	21	16.5	16	40	Ø39	6.5	2316	2169
1312-200A*	0-200mm	288	24	19	16	48	Ø39	6.5	3086	2889
1312-300A*	0-300mm	410	28	22	20	62	Ø44.5	7.5	5258	4804

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

## HEAVY DUTY 300mm DIGITAL CALIPER (PREMIUM MODEL, NON WATERPROOF)

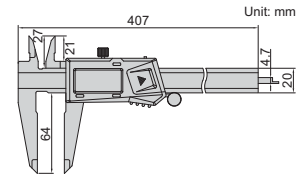


DATA OUTPUT



1196-300

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, zero, mm/inch
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032
- ▶ Data output, meet DIN862
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable

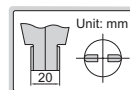


Code	Range	Accuracy	List Price (₹)	Promotion Price (₹)
1196-300*	0-300mm/0-12"	±0.03mm	6732	6331

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

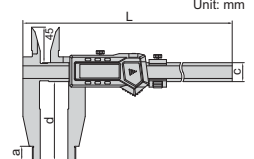
## DIGITAL CALIPERS (NON WATERPROOF)

DATA OUTPUT



1136-501

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Button function: on/off, zero, mm/inch, ABS, data preset
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable



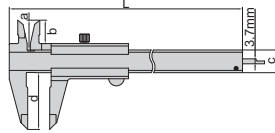
Code	Range	Accuracy	a	c	d	L	List Price (₹)	Promotion Price (₹)
1136-501	0-500mm/0-20"	±0.05mm	18	24	100	675	14754	12717
1136-601	0-600mm/0-24"	±0.05mm	18	24	100	770	19264	14316

**VERNIER CALIPERS**



1205-1502S

- ▶ Accuracy:  $\pm 0.03\text{mm}$
- ▶ Graduation:  $0.02\text{mm}/0.001''$
- ▶ Meet DIN862
- ▶ Made of stainless steel
- ▶ Satin chrome plated reading surface

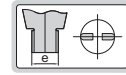


Code	Range	L	a	b	c	d	List Price (₹)	Promotion Price (₹)
1205-1502S	0-150mm/0-6"	235	20.5	15.5	16	40	1574	1355
1205-2002S	0-200mm/0-8"	290	23.5	19	17	50	2373	2102

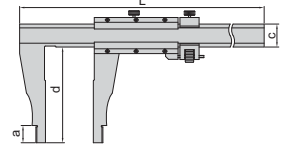
**VERNIER CALIPERS**



1214-600

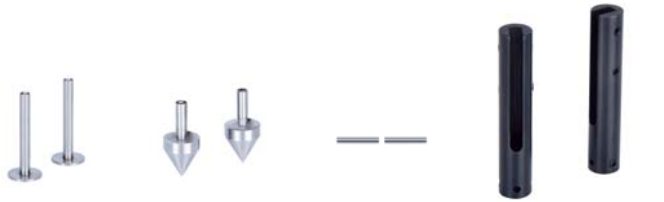


- ▶ Graduation:  $0.02\text{mm}/0.001''$
- ▶ With fine adjustment
- ▶ Made of stainless steel
- ▶ Satin chrome plated reading surface



Code	Range	Accuracy	a	c	d	e	L	List Price (₹)	Promotion Price (₹)
1214-500	0-500mm/0-20"	$\pm 0.05\text{mm}$	18	24	100	20	670	7838	6716
1214-600	0-600mm/0-24"	$\pm 0.05\text{mm}$	18	24	100	20	770	8847	7489
1214-1000	0-1000mm/0-40"	$\pm 0.08\text{mm}$	24	32	140	20	1216	25414	22179

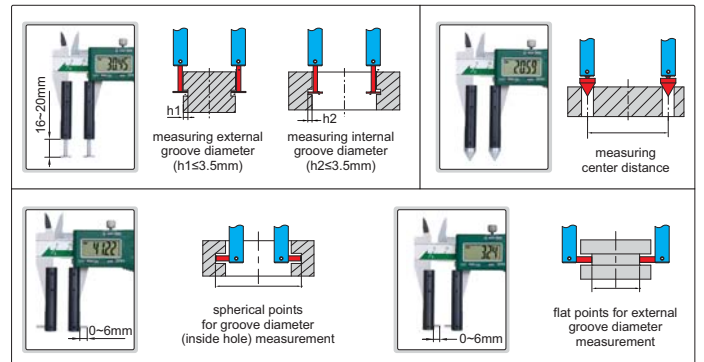
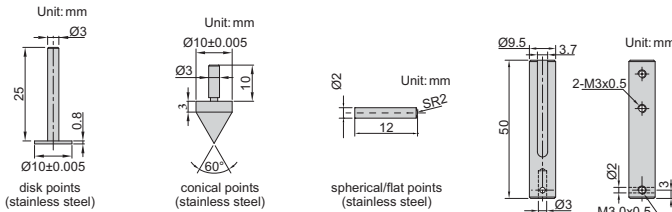
**ACCESSORY SET FOR DIGITAL CALIPERS CODE 6144**



6144

- ▶ Suitable for 0-150mm/0-6" and 0-200mm/0-8" digital calipers (thickness of lower jaws  $\leq 3.7\text{mm}$ )

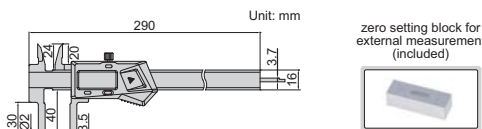
Code	List Price (₹)	Promotion Price (₹)
6144	2917	2587



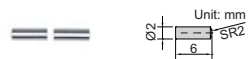
**DIGITAL CALIPER WITH INTERCHANGEABLE POINTS (NON WATERPROOF) CODE 1526-200**



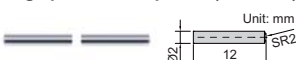
1526-200



**Short spherical points (included)**



**Long spherical/flat points (included)**



**Spherical blade points (included)**



- ▶ Supplied with 3 pairs of points and zero setting block for external measurement
- ▶ Resolution:  $0.01\text{mm}/0.0005''$
- ▶ Buttons: on/off, set, mm/inch, preset (+, -)
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: points (code 1526-T101, 7392, 7391, 7381, 7321), depth stop (code 6143), data output cable

Code	List Price (₹)	Promotion Price (₹)
1526-200	14412	11783

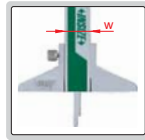
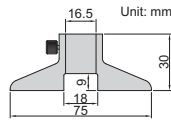


Point	Range	Accuracy	Application
short spherical points	12-212mm/0.5-8.5"(internal)	$\pm 0.03\text{mm}$	for grooves inside small hole
long spherical/flat points	24-224mm/1-8.8"(internal) 0-187mm/0-7.5"(external)	$\pm 0.03\text{mm}$	spherical points for grooves inside hole flat points for external grooves
spherical blade points	24-224mm/1-8.8"(internal) 0-187mm/0-7.5"(external)	$\pm 0.03\text{mm}$	for narrow grooves inside hole

DEPTH BASE ATTACHMENT



6140



- ▶ To increase the stability of depth measurement
- ▶ Suitable for digital calipers and dial calipers
- ▶ Made of stainless steel

Code	Application	List Price (₹)	Promotion Price (₹)
6140	Suitable for calipers with beam width (w) 16mm	750	655

DIGITAL INSIDE GROOVE CALIPER

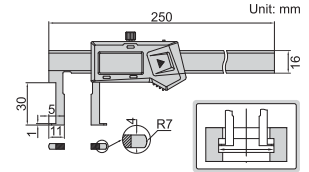
DATA OUTPUT



1120-150A



- ▶ Measure groove diameter
- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, set, mm/inch, preset (+, -)
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: depth stop (code 6143), data output cable



depth stop 6143 (optional)



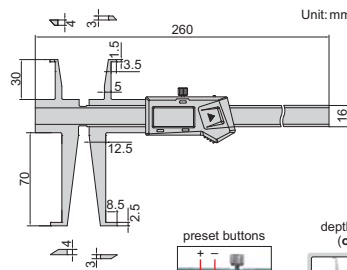
Code	Range	Accuracy	List Price (₹)	Promotion Price (₹)
1120-150A	22-150mm	±0.04mm	7589	5352

DIGITAL INSIDE GROOVE CALIPER

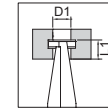
DATA OUTPUT



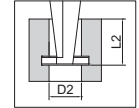
1176-150



sizes to be measured (use upper jaws)



sizes to be measured (use lower jaws)



- ▶ Measure diameter of grooves inside bores
- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, set, mm/inch, preset (+, -)
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: depth stop (code 6143), data output cable



		(mm)			
D1	L1	D2	L2	D2	L2
Ø9	<8	Ø15	<10	Ø19	<42
Ø10	<15	Ø16	<18	Ø20	<50
Ø11~150	<30	Ø17	<26	Ø21	<58
		Ø18	<34	Ø22~150	<70

Code	Range of upper jaw	Range of lower jaw	Accuracy	List Price (₹)	Promotion Price (₹)
1176-150	9-150mm/0.35-6"	15-150mm/0.59-6"	±0.04mm	10871	9967

DIGITAL DEPTH GAGES (STANDARD MODEL)

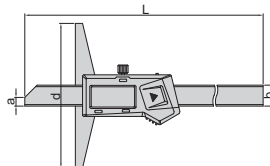
WATERPROOF DIGITAL DEPTH GAGES

DATA OUTPUT



1141-150A

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, zero, mm/inch
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Meet DIN862
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable



(mm)

Code	Range	Accuracy	L	a	b	d	List Price (₹)	Promotion Price (₹)
1141-150A	0-150mm/0-6"	±0.03mm	230	6	14.5	100	3289	2584
1141-200A	0-200mm/0-8"	±0.03mm	280	6	14.5	100	3993	3138
1141-300A	0-300mm/0-12"	±0.03mm	380	6	14.5	150	8488	6676

ATTENTION: IT IS NECESSARY TO SET ZERO AFTER POWER ON EACH TIME

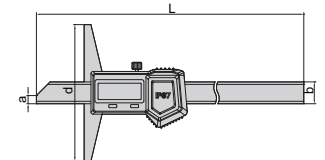


1149-150

ATTENTION: NO DATE OUTPUT

IP67 WATERPROOF

- ▶ IP67 dust/waterproof
- ▶ Resolution: 0.01mm/0.0005"
- ▶ Button function: zero, on/off, mm/inch, ABS/REL, hold
- ▶ Meet DIN862
- ▶ Battery CR2032
- ▶ Made of stainless steel



(mm)

Code	Range	Accuracy	L	a	b	d	List Price (₹)	Promotion Price (₹)
1149-150	0-150mm/0-6"	±0.03mm	240	6	16	100	10506	8495
1149-200	0-200mm/0-8"	±0.03mm	290	6	16	100	14376	11624
1149-300	0-300mm/0-12"	±0.03mm	390	6	16	150	18447	14915

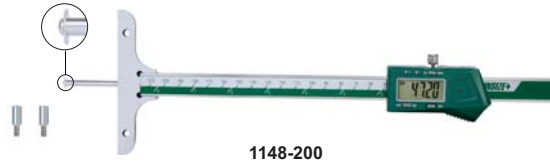
## DIGITAL DEPTH GAGES WITH ROUND DEPTH BAR

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Supplied with three interchangeable points (flat, spherical, disk)
- ▶ Buttons: on/off, set, mm/inch, preset (+, -)
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Battery CR2032, data output
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable, disk points (see below table), extension base (code 6141)

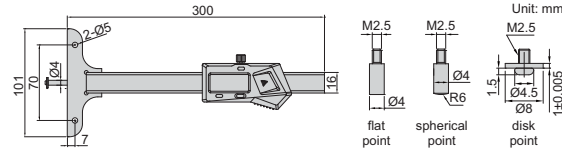
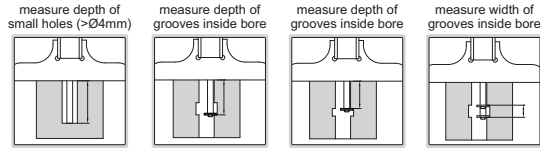
MEASURE WIDTH AND DEPTH OF GROOVES INSIDE BORE

MEASURE DEPTH OF SMALL HOLES (>Ø4mm)

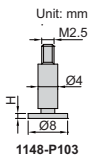
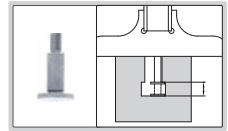
DATA OUTPUT



1148-200



1148-P103 (optional), measure width of bottom grooves inside blind hole



Code	Range *	Accuracy	Remark	List Price (₹)	Promotion Price (₹)
1148-200	0-200mm/0-8"	±0.03mm	with mounting holes for extension base	13966	12715

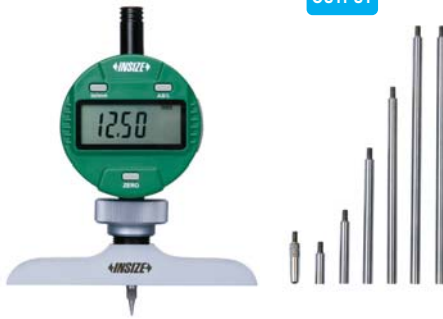
\*When disk points are used, the range is reduced by 10mm

### OPTIONAL DISK POINT

Code	Description	H	Remark	List Price (₹)	Promotion Price (₹)
1148-P103	1mm disk point	1±0.005mm	for grooves inside blind hole	1137	1020

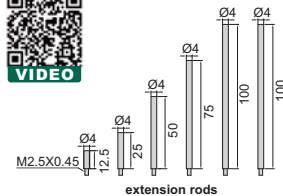
## DIGITAL DEPTH GAGE

DATA OUTPUT



2141-202A

- ▶ Digital indicator stroke: 12.7mm/0.5"
- ▶ Digital indicator resolution: 0.01mm/0.0005"
- ▶ Button function: on/off, zero, mm/inch, ABS, data preset, change measuring direction
- ▶ CR2032 battery, automatic power off
- ▶ Data output
- ▶ Stainless steel base
- ▶ Extension rods: 12.5mm (1 pc), 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- ▶ Supplied with pointed tip and ball tip
- ▶ Optional accessory: data output cable



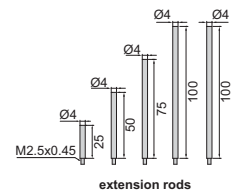
Code	Range	Accuracy	Base	List Price (₹)	Promotion Price (₹)
2141-202A	0-300mm/0-12"	±20µm	101.5x17mm	9638	7110

## DIAL DEPTH GAGE



2342-202

- ▶ Dial indicator stroke: 30mm
- ▶ Dial indicator graduation: 0.01mm
- ▶ Stainless steel base
- ▶ Extension rods: 25mm (1 pc), 50mm (1 pc), 75mm (1 pc), 100mm (2 pcs)
- ▶ Supplied with pointed tip and ball tip

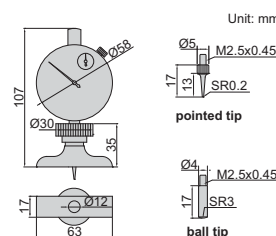


Code	Range	Base	Accuracy	List Price (₹)	Promotion Price (₹)
2342-202	0-300mm	101.5x17mm	±0.03mm	7184	6496

## DIAL DEPTH GAGE

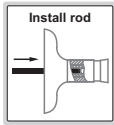
- ▶ Dial indicator graduation: 0.01mm
- ▶ Stainless steel base
- ▶ Supplied with pointed tip and ball tip

Code	Range	Dial indicator stroke	Accuracy	List Price (₹)	Promotion Price (₹)
2341-101A	0-10mm	10mm	±0.017mm	4193	3523



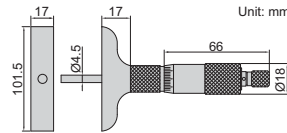
2341-101A

## DEPTH MICROMETER



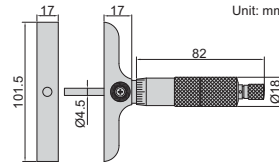
3240-25

- ▶ Graduation: 0.01mm
- ▶ Meet DIN863-2
- ▶ Micrometer head accuracy:  $\pm 3\mu\text{m}$
- ▶ Rod accuracy:  $\pm (2+L/75)\mu\text{m}$ , L is the measuring range in mm
- ▶ Rods with flat end
- ▶ Ratchet stop



Code	Range	Rods	List Price (₹)	Promotion Price (₹)
3240-25	0-25mm	1 pc	2984	2632

## DEPTH MICROMETERS



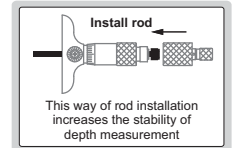
Unit: mm



3241-150

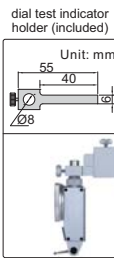
- ▶ Graduation: 0.01mm, meet DIN863-2
- ▶ Micrometer head accuracy:  $\pm 3\mu\text{m}$
- ▶ Rod accuracy:  $\pm (2+L/75)\mu\text{m}$ , L is the measuring range in mm
- ▶ Rods with flat end
- ▶ Ratchet stop

Code	Range	Rods	List Price (₹)	Promotion Price (₹)
3241-150	0-150mm	6 pcs	7615	7018
3241-300	0-300mm	12 pcs	12150	11471



## DIGITAL HEIGHT GAGE (ECONOMIC MODEL)

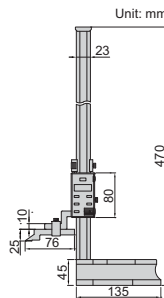
ATTENTION: CAN NOT USE CLAMP FOR PROTRACTORS (CODE 2372-CLAMP)



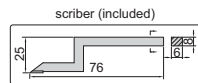
1150-300

ATTENTION: LOW ACCURACY

DATA OUTPUT



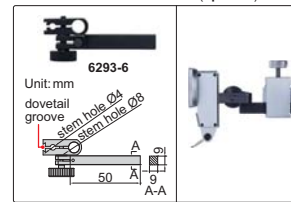
- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, zero, mm/inch, ABS/INC, data hold, TOL, set
- ▶ ABS/INC is for absolute and incremental measurement
- ▶ TOL is for tolerance measurement
- ▶ Carbide tipped scriber
- ▶ Made of stainless steel (except the base)
- ▶ LR44 battery, data output
- ▶ Supplied with dial test indicator holder
- ▶ Supplied with dust cover
- ▶ Optional accessory: data output cable (code 7302-SPC7, keyboard format)



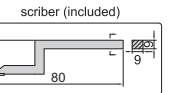
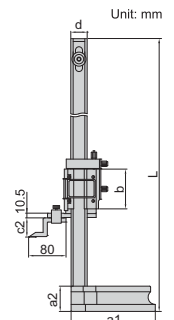
Code	Range	Accuracy	List Price (₹)	Promotion Price (₹)
1150-300	0-300mm/0-12"	$\pm 0.05\text{mm}$	17399	11867

## VERNIER HEIGHT GAGES

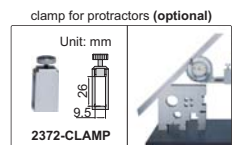
dial test indicator holder (optional)



1250-300



- ▶ Graduation: 0.02mm/0.001"
- ▶ Adjustable main scale to set zero
- ▶ Carbide tipped scriber
- ▶ Made of stainless steel (except the base)
- ▶ Satin chrome plated scale
- ▶ Supplied with magnifier
- ▶ With fine adjustment
- ▶ Supplied with dust cover
- ▶ Optional accessory: dial test indicator holder (code 6293-6), clamp for protractors (code 2372-CLAMP)



Code	Range	Accuracy	L	a1	a2	b	c2	d	List Price (₹)	Promotion Price (₹)
1250-300	0-300mm/0-12"	$\pm 0.04\text{mm}$	545	135	43	75	30	28	10270	9041
1250-600	0-600mm/0-24"	$\pm 0.05\text{mm}$	870	180	54	85	41	35	15761	14488

## DIGITAL HEIGHT GAGES WITH DRIVING WHEEL

DATA OUTPUT

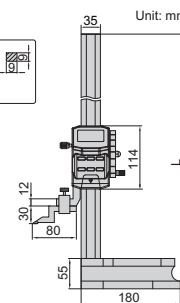
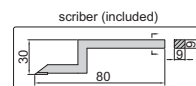
INSPECTION CERTIFICATE TRACEABLE TO DKD

- ▶ Resolution: 0.01mm/0.0005"
- ▶ Buttons: on/off, zero, mm/inch, preset (+, -), hold
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Carbide tipped scriber
- ▶ Made of stainless steel
- ▶ Battery CR2032, data output
- ▶ Supplied with dust cover
- ▶ Optional accessory: data output cable, dial test indicator holder (code 6293-6), clamp for protractors (code 2372-CLAMP)

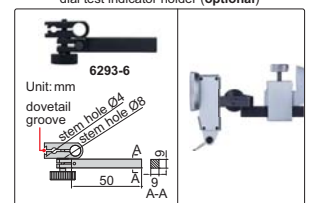


1156-300

clamp for protractors (optional)



dial test indicator holder (optional)

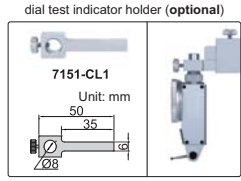


Code	Range	Accuracy	L	List Price (₹)	Promotion Price (₹)
1156-300*	0-300mm/0-12"	$\pm 0.03\text{mm}$	515mm	20139	17904
1156-600*	0-600mm/0-24"	$\pm 0.05\text{mm}$	815mm	30261	27970

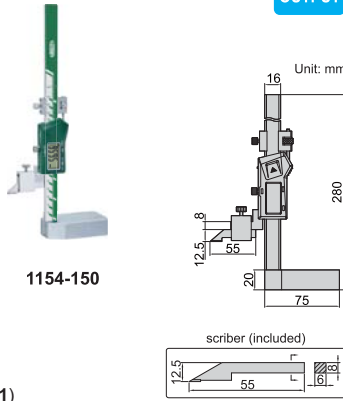
\*Supplied with manufacturer inspection certificate traceable to DKD Germany

**DIGITAL HEIGHT GAGE (LIGHT DUTY)**

ATTENTION: CAN NOT USE CLAMP FOR PROTRACTORS (CODE 2372-CLAMP)



DATA OUTPUT

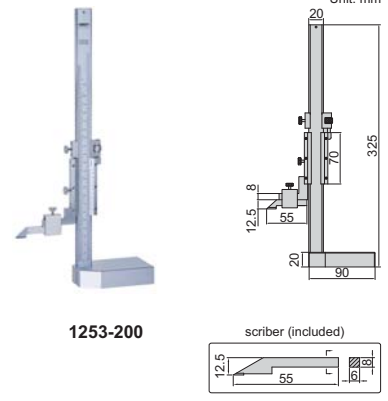
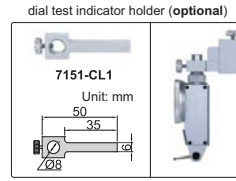


- ▶ Accuracy:  $\pm 0.03\text{mm}$
- ▶ Buttons: on/off, zero, mm/inch
- ▶ Automatic power off, move the digital unit to turn on power
- ▶ Carbide tipped scriber
- ▶ With fine adjustment
- ▶ Made of stainless steel
- ▶ Battery CR2032, data output
- ▶ Optional accessory: data output cable, dial test indicator holder (code 7151-CL1)

Code	Range	Resolution	List Price (₹)	Promotion Price (₹)
1154-150	0-150mm/0-6"	0.01mm/0.0005"	7543	5612

**VERNIER HEIGHT GAGE (LIGHT DUTY)**

ATTENTION: CAN NOT USE CLAMP FOR PROTRACTORS (CODE 2372-CLAMP)



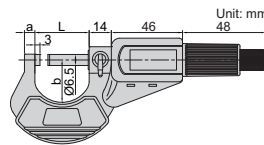
- ▶ Graduation 0.02mm/0.001"
- ▶ Carbide tipped scriber
- ▶ Made of stainless steel (except the base)
- ▶ Satin chrome plated scale
- ▶ Optional accessory: dial test indicator holder (code 7151-CL1)

Code	Range	Accuracy	List Price (₹)	Promotion Price (₹)
1253-200	0-200mm/0-8"	$\pm 0.03\text{mm}$	8909	7056

**DIGITAL OUTSIDE MICROMETERS**

ATTENTION: NO DATE OUTPUT

INSPECTION CERTIFICATE TRACEABLE TO DKD



- ▶ Resolution 0.001mm/0.00005"
- ▶ Button function: on/off, set, mm/inch, ABS/INC
- ▶ No data output
- ▶ LR44 battery, automatic power off
- ▶ Carbide measuring faces
- ▶ Friction thimble
- ▶ Supplied with spherical anvil
- ▶ Setting standards are included (except 0-25mm/0-1")

Code	Range	Accuracy	L	a	b	List Price (₹)	Promotion Price (₹)
3109-25A*	0-25mm/0-1"	$\pm 2\mu\text{m}$	32	6	27.5	3905	3241
3109-50A*	25-50mm/1-2"	$\pm 2\mu\text{m}$	57	8	37	4715	4307

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

spherical anvil is included



**DIGITAL OUTSIDE MICROMETERS (WITHOUT DATA OUTPUT)**

INSPECTION CERTIFICATE TRACEABLE TO DKD

**DIGITAL OUTSIDE MICROMETERS (WITH DATA OUTPUT)**

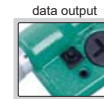
DATA OUTPUT

IP65 WATERPROOF



ATTENTION: NO DATA OUTPUT

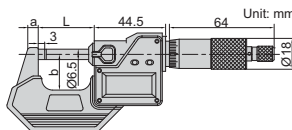
IP65 WATERPROOF



INSPECTION CERTIFICATE TRACEABLE TO DKD

- ▶ Resolution 0.001mm/0.00005"
- ▶ IP65 dust/waterproof
- ▶ Button function: on/off, set, mm/inch, ABS/INC
- ▶ No data output
- ▶ LR44 battery, automatic power off
- ▶ Carbide measuring faces
- ▶ Ratchet stop
- ▶ Supplied with spherical anvil
- ▶ Setting standards are included (except 0-25mm/0-1")

spherical anvil is included



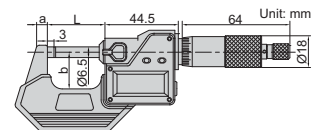
(mm)

Code	Range	Accuracy	L	a	b	List Price (₹)	Promotion Price (₹)
3108-25A*	0-25mm/0-1"	$\pm 2\mu\text{m}$	34.5	6	25	5257	4961
3108-50A*	25-50mm/1-2"	$\pm 2\mu\text{m}$	59.5	8	32	6569	6027

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

- ▶ Resolution 0.001mm/0.00005"
- ▶ IP65 dust/waterproof
- ▶ Button function: on/off, set, mm/inch, ABS/INC
- ▶ Data output
- ▶ LR44 battery, automatic power off
- ▶ Carbide measuring faces
- ▶ Ratchet stop
- ▶ Supplied with spherical anvil
- ▶ Setting standards are included (except 0-25mm/0-1")
- ▶ Optional accessory: data output cable

spherical anvil is included



(mm)

Code	Range	Accuracy	L	a	b	List Price (₹)	Promotion Price (₹)
3101-25A*	0-25mm/0-1"	$\pm 2\mu\text{m}$	34.5	6	25	9570	8044
3101-50A*	25-50mm/1-2"	$\pm 2\mu\text{m}$	59.5	8	32	10319	8705

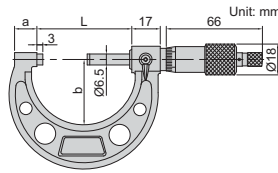
\*Supplied with manufacturer inspection certificate traceable to DKD Germany

1µm GRADUATION OUTSIDE MICROMETERS



3210-25A

- ▶ Graduation: 0.001mm
- ▶ Carbide measuring faces
- ▶ Meet DIN863-1, ratchet stop
- ▶ Supplied with setting standards (except 0-25mm)



(mm)

Code	Range	Accuracy	L	a	b	List Price (₹)	Promotion Price (₹)
3210-25A*	0-25mm	4µm	32	9	28	1640	1478
3210-50A*	25-50mm	4µm	57	14	38	1799	1630

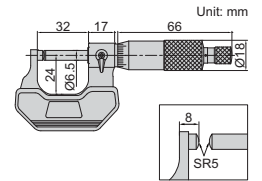
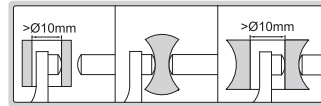
\*Supplied with manufacturer inspection certificate traceable to DKD Germany

SPHERICAL ANVIL TUBE MICROMETER



3260-25SA

- ▶ Meet DIN863-3
- ▶ Measure wall thickness of tubes
- ▶ Graduation 0.01mm
- ▶ Ratchet stop
- ▶ Carbide measuring faces



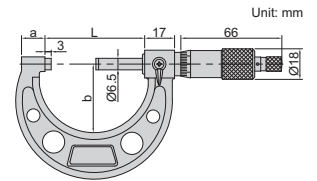
Code	Range	Accuracy	List Price (₹)	Promotion Price (₹)
3260-25SA	0-25mm	4µm	2251	1947

OUTSIDE MICROMETERS

- ▶ Graduation: 0.01mm
- ▶ Carbide measuring faces, ratchet stop
- ▶ Meet DIN863-1
- ▶ Supplied with setting standards (except 0-25mm)



3203-50A



(mm)

Code	Range	Accuracy	L	a	b	List Price (₹)	Promotion Price (₹)
3203-25A*	0-25mm	±2µm	32	9	28	1385	1229
3203-50A*	25-50mm	±2µm	57	14	38	1570	1452
3203-75A*	50-75mm	±2µm	82	15	49	1821	1625
3203-100A*	75-100mm	±3µm	107	15	60	2025	1801

Set

Code	Range	Micrometers included	Packaging	List Price (₹)	Promotion Price (₹)
3203-1004A*	0-100mm	3203-25A, 3203-50A, 3203-75A, 3203-100A	blow mould case	6369	6144

\*Supplied with manufacturer inspection certificate traceable to DKD Germany

OUTSIDE MICROMETERS WITH INTERCHANGEABLE ANVILS

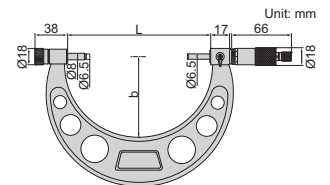


3206-150A

- ▶ Graduation: 0.01mm
- ▶ Ratchet stop
- ▶ Meet DIN863-3
- ▶ Carbide measuring faces
- ▶ Supplied with setting standards



setting ring is included



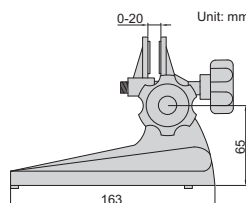
(mm)

Code	Range	Accuracy	L	b	Setting standard (included)	List Price (₹)	Promotion Price (₹)
3206-150A	0-150mm	6µm	158	82	25, 50, 75, 100, 125	10733	9716
3206-300A	150-300mm	9µm	308	165	150, 175, 200, 225, 250, 275	13733	11772

MICROMETER STAND



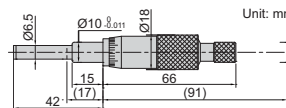
6301



- ▶ Suitable for micrometers up to 100mm

Code	List Price (₹)	Promotion Price (₹)
6301	1029	753

MICROMETER HEAD



6381-25W

- ▶ Meet DIN863-2
- ▶ Graduation 0.01mm
- ▶ Ratchet stop

Code	Range	Stem	Spindle tip	Accuracy	List Price (₹)	Promotion Price (₹)
6381-25W	0-25mm	plain	flat (carbide)	3µm	1423	1043

## THREE POINTS INTERNAL MICROMETERS



setting rings are included



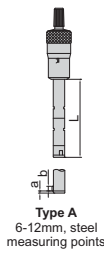
extension rods are included



- ▶ Meet DIN863-4
- ▶ 6-12mm: graduation 0.001mm, 12-100mm: graduation 0.005mm
- ▶ Ratchet stop
- ▶ Optional accessory: setting rings (code 6312), micrometer stand and clamp (code 6301 and 6301-2)



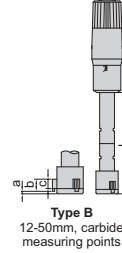
3227-8



Type A  
6-12mm, steel measuring points



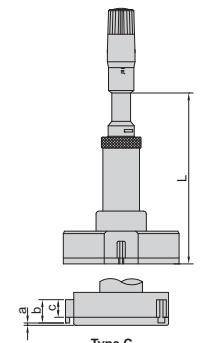
3227-16



Type B  
12-50mm, carbide measuring points



3227-100



Type C  
50-100mm, carbide measuring points

### Individual

Code	Range	Type	Accuracy	Setting ring (included)	Extension rod (included)	L	a	b	c	List Price (₹)	Promotion Price (₹)
3227-8*	6-8mm	A	4µm	Ø6mm	100mm	54.5	1.5	2.5	—	15878	13970
3227-10*	8-10mm	A	4µm	Ø8mm	100mm	54.5	1.5	2.5	—	15878	13970
3227-12*	10-12mm	A	4µm	Ø10mm	100mm	54.5	1.5	2.5	—	15878	13970
3227-16*	12-16mm	B	4µm	Ø16mm	150mm	80	0.5	6	4.5	11996	10553
3227-20*	16-20mm	B	4µm	Ø16mm	150mm	80	0.5	6	4.5	11996	10553
3227-25*	20-25mm	B	4µm	Ø25mm	150mm	90	0.5	8	6	16861	14834
3227-30*	25-30mm	B	4µm	Ø25mm	150mm	90	0.5	8	6	16861	14834
3227-40*	30-40mm	B	4µm	Ø40mm	150mm	97	0.5	14	12	18160	15977
3227-50*	40-50mm	B	5µm	Ø40mm	150mm	97	0.5	14	12	21090	18555
3227-63*	50-63mm	C	5µm	Ø62mm	150mm	114	0.5	17.5	14.5	22832	20088
3227-75*	62-75mm	C	5µm	Ø62mm	150mm	114	0.5	17.5	14.5	24491	21548
3227-88*	75-88mm	C	5µm	Ø87mm	150mm	114	0.5	17.5	14.5	25598	22521
3227-100*	87-100mm	C	5µm	Ø87mm	150mm	114	0.5	17.5	14.5	26621	23420

(mm)

micrometer stand with clamp (optional)



### Set

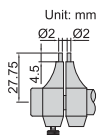
Code	Range	Micrometers included	Setting ring (included)	Extension rod (included)	List Price (₹)	Promotion Price (₹)
3227-123*	6-12mm	6-8mm, 8-10mm, 10-12mm	Ø6mm, Ø8mm, Ø10mm	100mm	44423	39082
3227-202*	12-20mm	12-16mm, 16-20mm	Ø16mm	150mm	22327	19643
3227-504*	20-50mm	20-25mm, 25-30mm, 30-40mm, 40-50mm	Ø25mm, Ø40mm	150mm	63746	56083
3227-1004*	50-100mm	50-63mm, 62-75mm, 75-88mm, 87-100mm	Ø62mm, Ø87mm	150mm	85282	75029



3227-504

\*Supplied with manufacturer inspection certificate

## INSIDE MICROMETER (ECONOMIC MODEL)



3220-30

ATTENTION:  
LOW PARALLELISM

setting ring is included



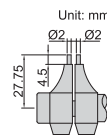
micrometer stand with clamp (optional)



- ▶ Graduation 0.01mm
- ▶ Ratchet stop
- ▶ Carbide measuring faces
- ▶ Optional accessory: setting ring (code 6312), micrometer stand and clamp (code 6301 and 6301-1)

Code	Range	Setting ring	Accuracy	List Price (₹)	Promotion Price (₹)
3220-30	5-30mm	5mm (included)	7µm	4120	3587

## DIGITAL INSIDE MICROMETER (ECONOMIC MODEL)



3520-30

DATA OUTPUT

setting ring is included



- ▶ Resolution 0.001mm/0.00005"
- ▶ Button function: on/off, set, mm/inch, ABS/INC
- ▶ Data output
- ▶ LR44 battery, automatic power off
- ▶ Ratchet stop
- ▶ Carbide measuring faces
- ▶ Optional accessory: data output cable

Code	Range	Setting ring	Accuracy	List Price (₹)	Promotion Price (₹)
3520-30	5-30mm / 0.2-1.2"	5mm (included)	±5µm	14662	11851



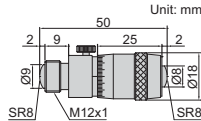
TUBULAR INSIDE MICROMETER

- ▶ Range: 50-300mm, graduation: 0.01mm
- ▶ Extension rods 13mm, 25mm, 50mm (2 pcs), 100mm
- ▶ Accuracy:  $(3+n+L/50)\mu\text{m}$   
n=number of rods  
L=maximum measuring length (mm)
- ▶ Supplied with setting standards, carbide measuring faces



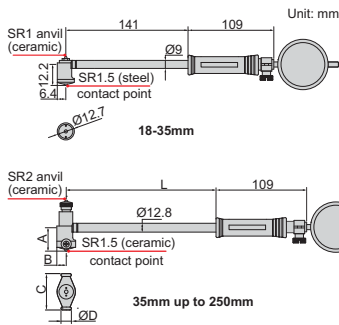
3222-300

Code	Travel of micrometer head	List Price (₹)	Promotion Price (₹)
3222-300	13mm	8372	7855



BORE GAGES

ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



2322-35A



- ▶ Repeatability: 0.003mm
- ▶ Optional accessory: setting ring (code 6312), long handle (code 7351)

Range	A	B	C	∅D	L
35-60mm	22	9	27	13	141
50-160mm	26	9	35	13	141
160-250mm	56.5	13	74.5	15	241

With dial indicator

Code	Range	Indicator	Accuracy	List Price (₹)	Promotion Price (₹)
2322-35A	18-35mm	dial indicator, range 10mm, graduation 0.01mm (code 2308-10FA)	±0.015mm	6490	4971
2322-60A	35-60mm		±0.018mm	6483	4971
2322-160A	50-160mm		±0.018mm	6738	5161
2322-250A	160-250mm		±0.018mm	9308	7393

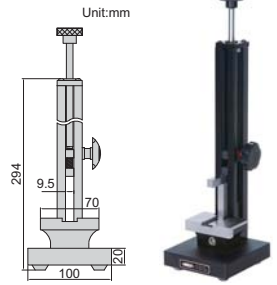
BORE GAGE SETTER



gauge blocks are included



- ▶ Vertical and horizontal use
- ▶ To be used with gage blocks
- ▶ With gage block set

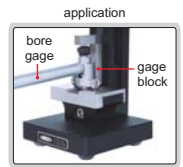


7353-160

Gage block set for 7353-160

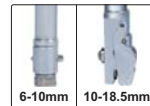
Blocks per set	Size (mm)	Step (mm)	Quantity (pcs)	Remark
33	1.005		1	grade 2 (ISO3650)
	1.01-1.09	0.01	9	
	1.1-1.9	0.1	9	
	1-9	1	9	
	10-30	10	3	
	50		1	
	100		1	

Code	Range	Repeatability	List Price (₹)	Promotion Price (₹)
7353-160	0-160mm	1.2μm	25690	22910



BORE GAGES FOR SMALL HOLES

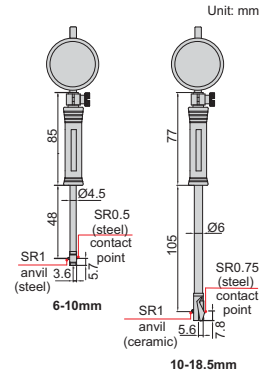
ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS



- ▶ Accuracy: ±0.012mm
- ▶ Repeatability: 0.003mm
- ▶ Optional accessory: setting ring (code 6312)



2852-10



With dial indicator

Code	Range	Indicator	List Price (₹)	Promotion Price (₹)
2852-10	6-10mm	dial indicator, range 3mm, graduation 0.01mm (code 2311-3F)	8787	6566
2852-18	10-18.5mm		7926	6433

BORE GAGE SETS

- ▶ Repeatability: 0.003mm
- ▶ Optional accessory: setting ring (code 6312), long handle (code 7351)

packaging (code 2824-S3)



ATTENTION: NOT SUITABLE FOR 0.001MM DIAL INDICATORS

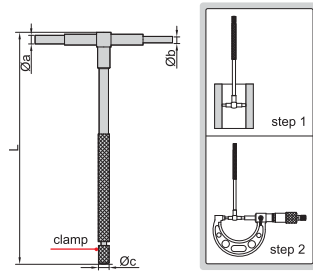
Code	Range	Indicator	Bore gages included	Accuracy	List Price (₹)	Promotion Price (₹)
2824-S160	35-160mm	dial indicator, range 10mm graduation 0.01mm (code 2308-10FA)	① 35-50mm (dial indicator and handle are not included) ② 50-160mm	35-50mm ±0.018mm 50-160mm ±0.018mm	9792	7323
2824-S3	18-160mm		① 18-35mm ② 35-60mm (dial indicator is not included) ③ 50-160mm (dial indicator is not included)	18-35mm ±0.015mm 35-60mm ±0.018mm 50-160mm ±0.018mm	18518	11944



2824-S160

2824-S3

TELESCOPING GAGE SET



(mm)					
Range	L	Øa	Øb	Øc	
8-12.7mm	115	3.9	2.9	6.2	
12.7-19mm	115	5.3	3.8	6.2	
19-32mm	115	5.3	3.8	6.2	
32-54mm	137	7.6	6.1	7.2	
54-90mm	137	7.6	6.1	7.2	
90-150mm	137	7.6	6.1	7.2	

4206-1

- ▶ 6 gages per set
- ▶ For quick measurement of inside diameter of holes and width of slots
- ▶ Satin chrome finish

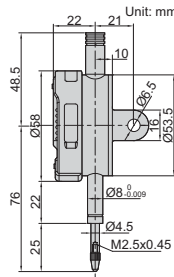
Code	Total range	Gages included	List Price (₹)	Promotion Price (₹)
4206-1	8-150mm	8-12.7mm, 12.7-19mm 19-32mm, 32-54mm 54-90mm, 90-150mm	1651	1360

DIGITAL INDICATORS (STANDARD MODEL)



DATA OUTPUT

spindle lift knob is included



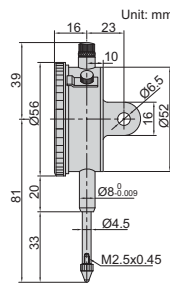
2112-10

- ▶ Range: 12.7mm/0.5"
- ▶ Button function: on/off, inch/mm, zero
- ▶ CR2032 battery, automatic power off
- ▶ With lug back
- ▶ Data output
- ▶ Optional accessory: data output cable, backs, contact points

Code	Resolution	Accuracy	Hysteresis	List Price (₹)	Promotion Price (₹)
2112-10*	0.01mm/0.0005"	20µm	10µm	3914	3268
2112-101*	0.001mm/0.00005"	5µm	2µm	9511	8297

\*Supplied with manufacturer inspection certificate traceable to NIST USA

DIAL INDICATOR (PROMOTION MODEL)



2302-25

- ▶ Graduation: 0.01mm
- ▶ Range/rev: 1mm
- ▶ Dial reading: 0-100
- ▶ Lug back with spare flat back
- ▶ Supplied with limit pointers and bezel clamp
- ▶ Packed in carton box
- ▶ Optional accessory: backs, contact points

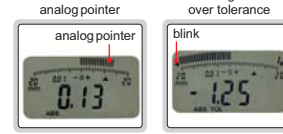
Code	Range	Accuracy	Hysteresis	List Price (₹)	Promotion Price (₹)
2302-25*	25mm	35µm	7µm	2622	1961

\*Supplied with manufacturer inspection certificate traceable to NIST USA

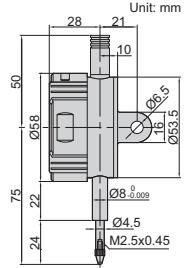
DIGITAL INDICATORS (ADVANCED MODEL)



DATA OUTPUT

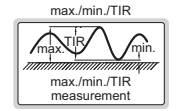
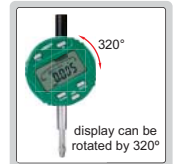


2103-10



- ▶ Range: 12.7mm/0.5"
- ▶ Reading in digital and analog
- ▶ Display can be rotated by 320°
- ▶ Button function: tolerance Go and No-Go display, data preset, measuring direction change, max./min./TIR measurement, inch/metric conversion, absolute/incremental measurement
- ▶ Keep preset data and tolerance data in memory after restart
- ▶ CR2032 battery, automatic power off
- ▶ Data output, with lug back
- ▶ Optional accessory: data output cable, backs, contact points

spindle lift knob is included



Code	Resolution	Accuracy	Hysteresis	List Price (₹)	Promotion Price (₹)
2103-10*	0.001mm/0.00005"	5µm	2µm	12543	10461
2104-10*	0.01mm/0.0005"	20µm	10µm	5844	5162

\*Supplied with manufacturer inspection certificate traceable to NIST USA

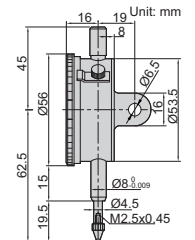
PRECISION DIAL INDICATOR



JEWELLED BEARING



2313-1A



- ▶ Graduation: 0.001mm
- ▶ Jeweled bearing
- ▶ With lug back
- ▶ Supplied with limit pointers and bezel clamp
- ▶ Optional accessory: backs, contact points

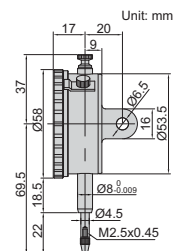
Code	Range	Accuracy	Hysteresis	Range/rev	Dial reading	List Price (₹)	Promotion Price (₹)
2313-1A*	1mm	5µm	2µm	0.2mm	0-100-0	4493	4077

\*Supplied with manufacturer inspection certificate traceable to NIST USA

DIAL INDICATOR (PROMOTION MODEL)



2301-10



- ▶ Graduation: 0.01mm
- ▶ Range/rev: 1mm
- ▶ Dial reading: 0-100
- ▶ Meet DIN878
- ▶ Jeweled bearing
- ▶ Lug back with spare flat back
- ▶ Supplied with limit hands and bezel clamp
- ▶ Packed in carton box
- ▶ Optional accessory: backs, contact points

Code	Range	Accuracy	Hysteresis	List Price (₹)	Promotion Price (₹)
2301-10*	10mm	17µm	3µm	1377	1168

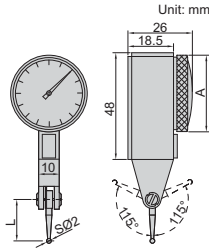
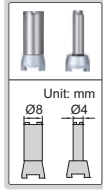
\*Supplied with manufacturer inspection certificate traceable to NIST USA

DIAL TEST INDICATORS



- ▶ Meet DIN2270
- ▶ Jeweled bearing
- ▶ Carbide contact point
- ▶ Two measuring directions
- ▶ Anti magnetic body
- ▶ Supplied with two clamps: diameter Ø4mm and Ø8mm
- ▶ Optional accessory: styli

clamps are included



2380-08

JEWELLED BEARING

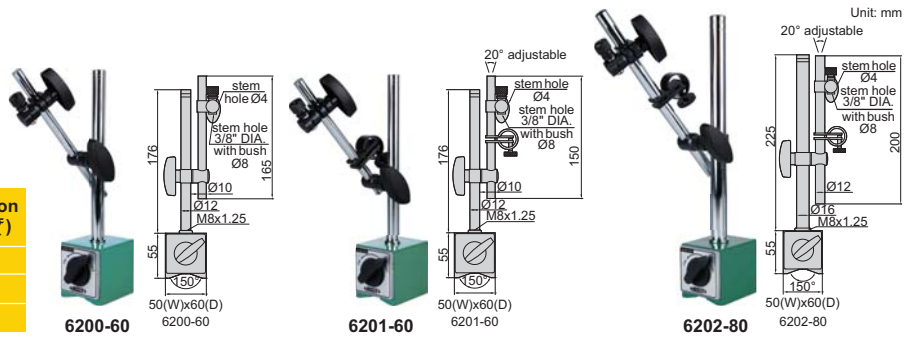
Graduation: 0.01mm

Code	Range	Accuracy	Hysteresis	Dial reading	A	L	List Price (₹)	Promotion Price (₹)
2380-08*	0.8mm	13µm	3µm	0-40-0	Ø30	13.5	2618	2203
2381-08*	0.8mm	13µm	3µm	0-40-0	Ø37	13.5	2862	2563

MAGNETIC STANDS

- ▶ Applicable holding stem: Ø8mm, Ø4mm, 3/8" DIA.
- ▶ For digital/dial indicators and dial test indicators

Code	Magnetic force	Remark	List Price (₹)	Promotion Price (₹)
6200-60	60kgf	without fine adjustment	1086	940
6201-60	60kgf	with fine adjustment	1006	871
6202-80	80kgf	with fine adjustment	1964	1388

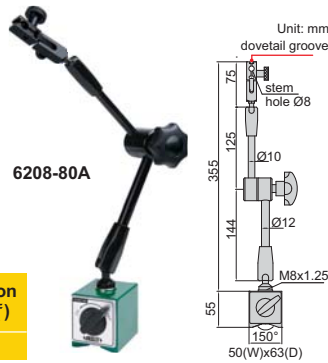


UNIVERSAL MAGNETIC STAND (LIGHT DUTY)

ATTENTION: LOW LOCKING FORCE

- ▶ Applicable holding stem: Ø8mm
- ▶ For digital/dial indicators and dial test indicators
- ▶ With fine adjustment and dovetail groove

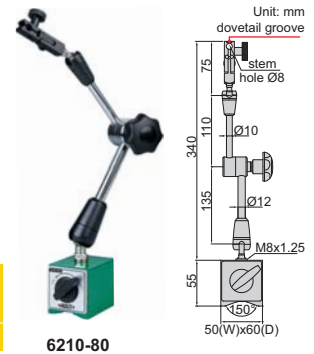
Code	Magnetic force	List Price (₹)	Promotion Price (₹)
6208-80A	80kgf	2554	2109



UNIVERSAL MAGNETIC STAND

- ▶ Applicable holding stem: Ø8mm
- ▶ For digital/dial indicators and dial test indicators
- ▶ With fine adjustment and dovetail groove

Code	Magnetic force	List Price (₹)	Promotion Price (₹)
6210-80	80kgf	4797	4289

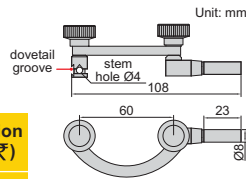


DIAL TEST INDICATOR CENTERING HOLDER



6291-1

Code	List Price (₹)	Promotion Price (₹)
6291-1	771	612



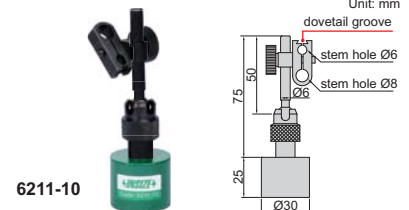
- ▶ Center cylinders or holes on machine tools

MINI MAGNETIC STAND

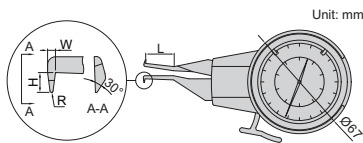
ATTENTION: FOR DIAL TEST INDICATORS ONLY

- ▶ For dial test indicators
- ▶ With dovetail groove
- ▶ Applicable holding stem: Ø6mm, Ø8mm

Code	Magnetic force	List Price (₹)	Promotion Price (₹)
6211-10	10kgf	1912	1487



INTERNAL DIAL CALIPER GAGES

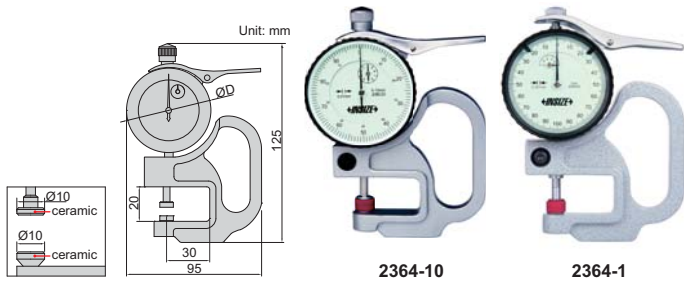


2222-15

- ▶ Graduation: 0.01mm
- ▶ Accuracy: ±0.03mm

Code	Range	L	H	W	R	List Price (₹)	Promotion Price (₹)
2222-15	5-15mm	20	2	1.5	R0.3	9948	8677
2222-25	5-25mm	35	1.5	1.0	R0.3	10789	9411
2222-301	10-30mm	55	5.5	2.5	R0.5	11910	10390

THICKNESS GAGES



Code	Range	Graduation	Accuracy	ØD	List Price (₹)	Promotion Price (₹)
2364-10	0-10mm	0.01mm	±0.02mm	58mm	3338	3025
2364-1	0-1mm	0.001mm	±0.005mm	56mm	6204	5646

THICKNESS GAGE



Code	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
2862-101	0-10mm	0.05mm	±0.1mm	2905	2216

PIN GAGE SETS

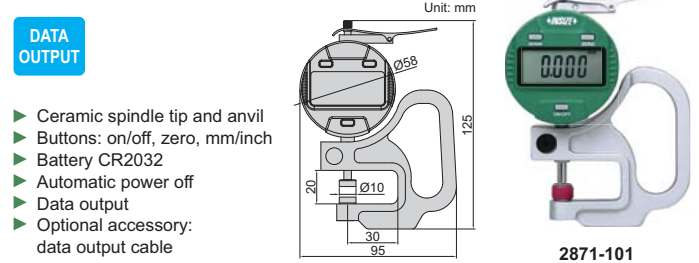
- ▶ Meet DIN2267, grade 1
- ▶ Made of alloy steel
- ▶ Hardness HRC62-65
- ▶ Diameter accuracy: ±1µm



Code	Diameter Ød (mm)	Step	Pin gages per set	List Price (₹)	Promotion Price (₹)
4166-411	1.0, 1.1, 1.2, ..., 5.0	0.1mm	41	9745	7525
4166-511	5.0, 5.1, 5.2, ..., 10.0	0.1mm	51	13235	10220

Code	Diameter Ød (mm)	Step	Pin gages per set	List Price (₹)	Promotion Price (₹)
4166-0D	0.20, 0.21, 0.22, ..., 0.50	0.01mm	31	9514	7347
4166-1	0.50, 0.51, 0.52, ..., 1.00	0.01mm	51	14767	11403
4166-1D	1.00, 1.01, 1.02, ..., 1.50	0.01mm	51	14767	11403
4166-2	1.50, 1.51, 1.52, ..., 2.00	0.01mm	51	14767	11403
4166-2D	2.00, 2.01, 2.02, ..., 2.50	0.01mm	51	14767	11403
4166-3	2.50, 2.51, 2.52, ..., 3.00	0.01mm	51	14767	11403
4166-3D	3.00, 3.01, 3.02, ..., 3.50	0.01mm	51	14767	11403
4166-4	3.50, 3.51, 3.52, ..., 4.00	0.01mm	51	14767	11403
4166-4D	4.00, 4.01, 4.02, ..., 4.50	0.01mm	51	14767	11403
4166-5	4.50, 4.51, 4.52, ..., 5.00	0.01mm	51	14767	11403
4166-5D	5.00, 5.01, 5.02, ..., 5.50	0.01mm	51	14767	11403
4166-6	5.50, 5.51, 5.52, ..., 6.00	0.01mm	51	14767	11403
4166-6D	6.00, 6.01, 6.02, ..., 6.50	0.01mm	51	14767	11403
4166-7	6.50, 6.51, 6.52, ..., 7.00	0.01mm	51	14767	11403
4166-7D	7.00, 7.01, 7.02, ..., 7.50	0.01mm	51	14767	11403
4166-8	7.50, 7.51, 7.52, ..., 8.00	0.01mm	51	14767	11403
4166-8D	8.00, 8.01, 8.02, ..., 8.50	0.01mm	51	14767	11403
4166-9	8.50, 8.51, 8.52, ..., 9.00	0.01mm	51	14784	11417
4166-9D	9.00, 9.01, 9.02, ..., 9.50	0.01mm	51	15630	12071
4166-10	9.50, 9.51, 9.52, ..., 10.00	0.01mm	51	15682	12109

DIGITAL THICKNESS GAGES



DATA OUTPUT

- ▶ Ceramic spindle tip and anvil
- ▶ Buttons: on/off, zero, mm/inch
- ▶ Battery CR2032
- ▶ Automatic power off
- ▶ Data output
- ▶ Optional accessory: data output cable

Code	Range	Resolution	Accuracy	List Price (₹)	Promotion Price (₹)
2871-10	0-10mm/0-0.4"	0.01mm/0.0005"	±0.02mm	5761	5372
2871-101	0-10mm/0-0.4"	0.001mm/0.00005"	±0.005mm	12491	10505

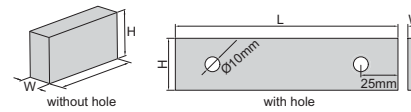
STEEL GAGE BLOCK SETS

- ▶ Made of alloy steel
- ▶ Meet ISO3650
- ▶ With holes (L≥125mm)
- ▶ Supplied with manufacturer inspection certificate

INSPECTION CERTIFICATE

Dimension:

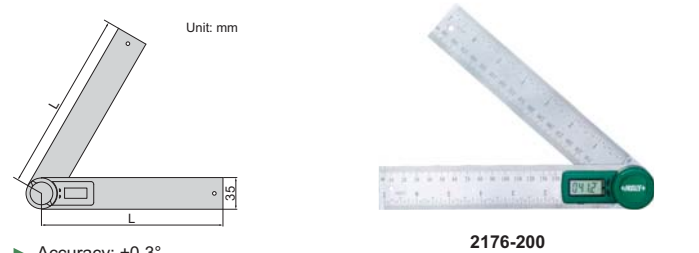
Size (L)	W	H
0.5≤L≤10mm	9mm	30mm
L>10mm	9mm	35mm



4100-283

Blocks per set	Gage blocks included in set			Code	List Price (₹)	Promotion Price (₹)
	Size (mm)	Step (mm)	Quantity			
112	1.0005		1	4100-2112	27407	20376
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
83	25-100	25	4	4100-283	17278	11418
	0.5		1			
	1		1			
	1.005		1			
	1.01-1.49	0.01	49			
34	1.5-1.9	0.1	5	4100-234	8279	5718
	2-9.5	0.5	16			
	10-100	10	10			
	1.0005		1			
	1.001-1.009	0.001	9			
	1.01-1.09	0.01	9			
1.1-1.9	0.1	9				
1-5	1	5				
10		1				

DIGITAL PROTRACTORS



- ▶ Accuracy: ±0.3°
- ▶ Buttons: on/off, zero
- ▶ With clamping screw to lock the blades
- ▶ Graduation of blade: 1mm and 1/32"
- ▶ Made of stainless steel
- ▶ CR2032 battery, automatic power off

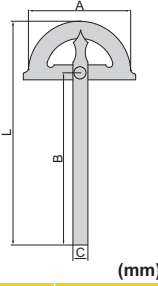
Code	Size (L)	Range	Resolution	List Price (₹)	Promotion Price (₹)
2176-200	200mm	0-360°	0.1°	2027	1559
2176-300	300mm	0-360°	0.1°	2329	1790

PROTRACTOR



4799-180

- ▶ Graduation: 1°
- ▶ Made of stainless steel
- ▶ Satin chrome plated scale
- ▶ With clamping screw



Code	Size (AxB)	Range	Accuracy	L	C	List Price (₹)	Promotion Price (₹)
4799-180	80x120	0-180°	±0.3°	168	11	1257	1025

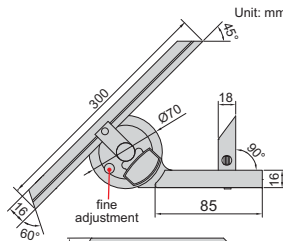
UNIVERSAL PROTRACTOR



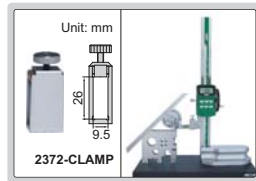
150mm blade is included



300mm blade (included)



clamp for height gages (optional)



- ▶ Parallax-free reading
- ▶ Made of stainless steel
- ▶ Optional accessory: clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250

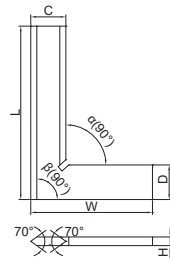
Code	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
2372-360	0-360°	5'	±5'	4667	3924

90° BEVELED EDGE SQUARES

- ▶ Meet DIN875, grade 00
- ▶ Satin chrome plating
- ▶ Beveled edges for inside and outside measurement
- ▶ Made of hardened stainless steel

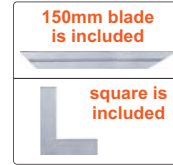


4790-0100



Code	Size (LxW)	Squareness		C	D	H	List Price (₹)	Promotion Price (₹)
		Inside (α)	Outside (β)					
4790-0100	100x70mm	2.8µm	3.0µm	20	20	5	2339	2059
4790-0150	150x100mm	3.2µm	3.5µm	30	30	6	4004	3598

DIGITAL PROTRACTOR

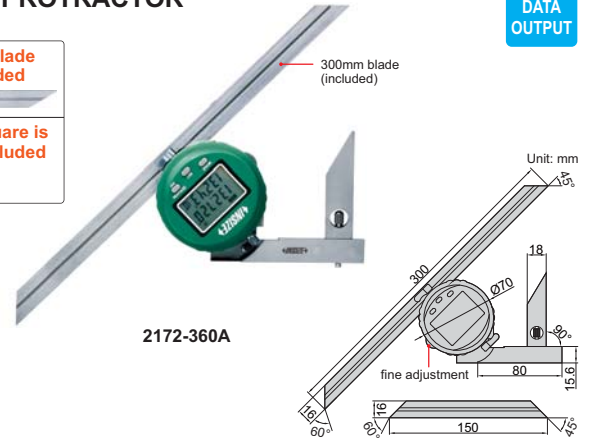


150mm blade is included

square is included



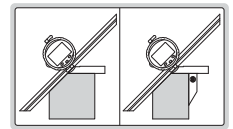
VIDEO



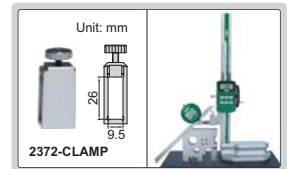
2172-360A

DATA OUTPUT

- ▶ Display in degree (for example 32.655°) and degree/minute/second (for example 32°39'30")
- ▶ SET button: preset the reading, change measuring direction
- ▶ MODE button: choose 0-90°, 0-180° or 0-360° display
- ▶ ZERO/ON/OFF button: zero and power on/off
- ▶ Battery CR2032, automatic power off
- ▶ Data output
- ▶ Supplied with square to set 90°
- ▶ Made of stainless steel
- ▶ Optional accessory: data output cable, clamp (code 2372-CLAMP), suitable for height gages 1156, 1351 and 1250



clamp for height gages (optional)



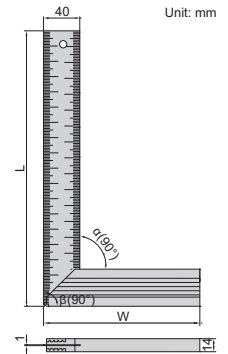
Code	Range	Resolution	Accuracy	List Price (₹)	Promotion Price (₹)
2172-360A	0-360°	10"/0.005°	±5'	20514	16916

TRY SQUARE

- ▶ Graduation: 1mm
- ▶ Stainless steel blade, aluminum base



2275-300



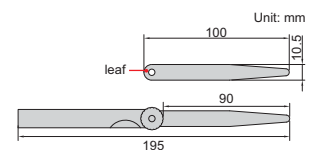
Code	Size (LxW)	Squareness		List Price (₹)	Promotion Price (₹)
		Inside (α)	Outside (β)		
2275-300	300x170mm	0.5mm	0.5mm	487	415

FEELER GAGES (ECONOMIC MODEL)

- ▶ Made of hardened alloy steel
- ▶ Meet DIN2275
- ▶ Accuracy: ±(3+T/80) µm, 'T' is the thickness of leaves in µm



4602-32



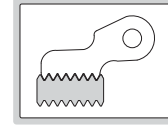
Code	Range	Thickness of leaves included (mm)	Quantity of leaves	List Price (₹)	Promotion Price (₹)
4602-17	0.02-1.00mm	0.02, 0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.15, 0.20, 0.25, 0.30, 0.40, 0.50, 0.75, 1.00	17	313	257
4602-32	0.03-1.00mm	0.03, 0.04, 0.05, 0.06, 0.07, 0.08, 0.09, 0.10, 0.13, 0.15, 0.18, 0.20, 0.23, 0.25, 0.28, 0.30, 0.33, 0.35, 0.38, 0.40, 0.45, 0.50, 0.55, 0.60, 0.63, 0.65, 0.70, 0.75, 0.80, 0.85, 0.90, 1.00	32	480	349

**PITCH GAGES**

- ▶ Check the pitch of screw thread
- ▶ Accuracy:  $\pm 0.07\text{mm}$
- ▶ Made of medium carbon steel



4820-452



ATTENTION:  
LOW ACCURACY

**Metric 60° and Whitworth 55° screw**

Code	Range	Pitch of leaves included	Quantity of leaves	List Price (₹)	Promotion Price (₹)
4820-452	0.25-6mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52	627	499
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI			

**Metric 60° and Unified 60° screw**

Code	Range	Pitch of leaves included	Quantity of leaves	List Price (₹)	Promotion Price (₹)
4820-552	0.4-7mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52	627	469
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI			

**RADIUS GAGES**

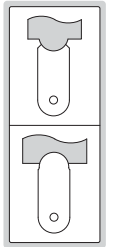
- ▶ Made of medium carbon steel



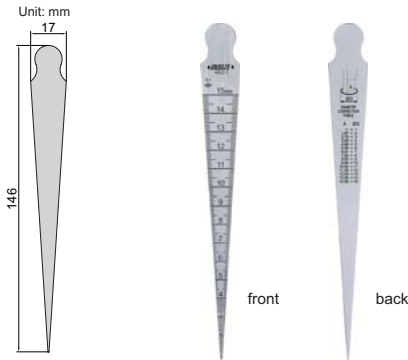
4801-17

ATTENTION:  
LOW ACCURACY

Code	Range	Radius of leaves included (mm)	Quantity of leaves (internal+external)	Accuracy	List Price (₹)	Promotion Price (₹)
4801-17	1-7mm	1, 1.25, 1.5, 1.75, 2, 2.25, 2.5, 2.75, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7	17+17	$\pm 0.03\text{mm}$	684	558
4801-16	7.5-15mm	7.5, 8, 8.5, 9, 9.5, 10, 10.5, 11, 11.5, 12, 12.5, 13, 13.5, 14, 14.5, 15	16+16	$\pm 0.035\text{mm}$	680	553
4801-15	15.5-25mm	15.5, 16, 16.5, 17, 17.5, 18, 18.5, 19, 19.5, 20, 21, 22, 23, 24, 25	15+15	$\pm 0.042\text{mm}$	691	571

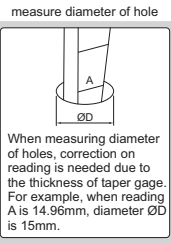
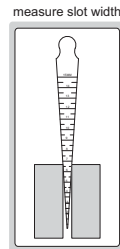


**TAPER GAGE**



4833-1

- ▶ Measure opening, slot width, hole diameter, etc.
- ▶ Diameter correction table on the back
- ▶ Made of stainless steel

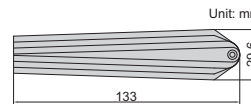


Code	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
4833-1	0.8-15mm	0.1mm	$\pm 0.1\text{mm}$	631	357

**TAPER GAGE SET**

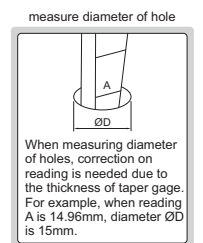
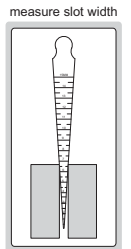


4837-1



- ▶ Include 4pcs (1-8mm, 8-15mm, 15-22mm, 22-29mm)
- ▶ Measure opening, slot width, hole diameter, etc.
- ▶ Diameter correction table on the back
- ▶ Made of stainless steel

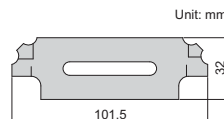
Code	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
4837-1	1-29mm	0.05mm	$\pm 0.05\text{mm}$	2332	1366



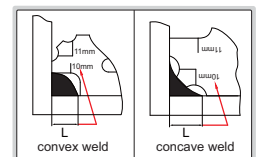
**FILLET WELDING GAGE**

- ▶ Measure concave and convex weld sizes
- ▶ 7 blades are included
- ▶ Made of stainless steel

Code	Size (mm)	Accuracy	List Price (₹)	Promotion Price (₹)
4836-1	3, 4, 5, 6, 8, 9, 10, 11, 12, 14, 16, 19, 22, 25	$\pm 0.5\text{mm}$	1472	1041

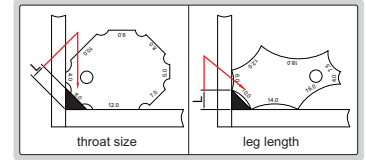
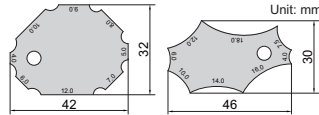


4836-1



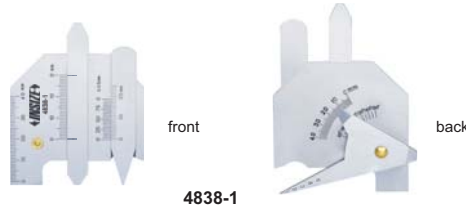
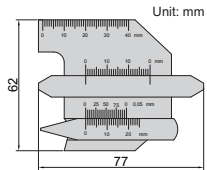
**FILLET WELDING GAGE**

- ▶ Accuracy: ±0.5mm
- ▶ Made of stainless steel
- ▶ Sizes marked on both faces



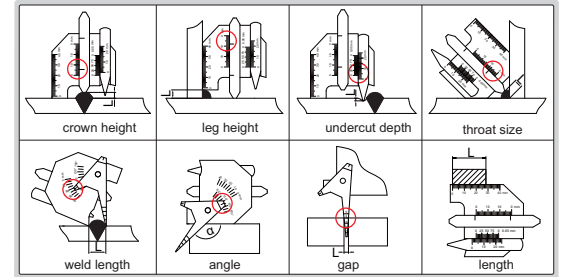
Code	Throat size	Leg length	List Price (₹)	Promotion Price (₹)
4832-1	4, 5, 6, 7, 8, 9, 10, 12mm	4, 6, 7.5, 10, 12, 14, 16, 18mm	623	408

**WELDING GAGE**



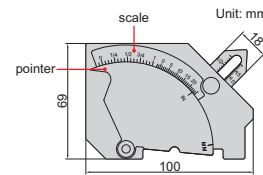
- ▶ Made of stainless steel

Code	Measurement	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
4838-1	crown height	0-10mm	1mm	±0.5mm	2028	1608
	leg height	0-14mm	1mm	±0.5mm		
	undercut depth	0-5mm	0.05mm	±0.05mm		
	throat size	0-13mm	1mm	±0.5mm		
	weld length	0-40mm	1mm	±1mm		
	angle	90°-150°	5°	±1°		
	gap	0.5-5mm	1mm	±0.5mm		
	length	0-40mm	1mm	±0.5mm		

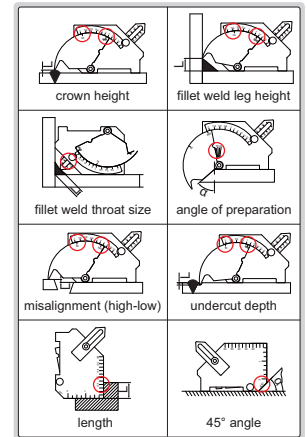


**WELDING GAGE**

- ▶ Adjustable scale to compensate pointer wear
- ▶ Made of stainless steel

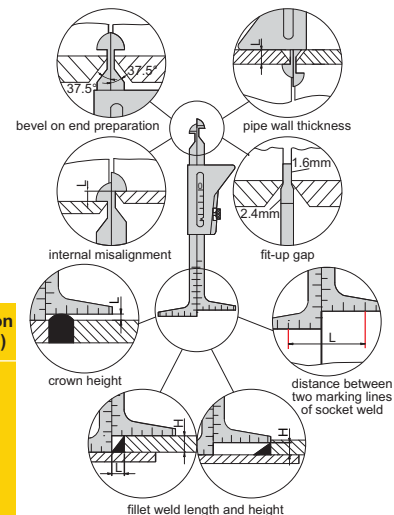
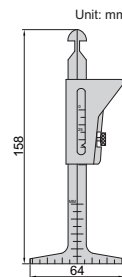


Code	Measurement	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
4835-1	crown height	0-25mm (0-1")	1mm (1/16")	±0.5mm	2042	1476
	fillet weld leg height	0-25mm (0-1")	1mm (1/16")	±0.5mm		
	misalignment (high-low)	0-25mm (0-1")	1mm (1/16")	±0.5mm		
	undercut depth	0-2mm (0-1/8")	1mm (1/16")	±0.5mm		
	fillet weld throat size	0-20mm (0-3/4")	1mm (1/16")	±0.5mm		
	angle of preparation	0-60°	5°	±1°		
	length	0-60mm (0-2")	1mm (1/16")	±0.5mm		
	45° angle	—	—	±1°		



**PIPE WELDING GAGE**

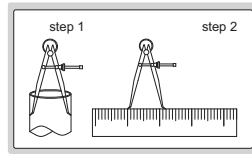
- ▶ Made of stainless steel



Code	Measurement	Range	Graduation	Accuracy	List Price (₹)	Promotion Price (₹)
4839-1	bevel on end preparation	37.5°	—	±1°	2939	2077
	pipe wall thickness	0-45mm (0~1-3/4")	1mm (1/16")	±0.5mm		
	internal misalignment	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm		
	fit-up gap	1.6mm, 2.4mm	—	±0.1mm		
	crown height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm		
	distance between two marking lines of socket weld	0-60mm (0~2-3/8")	1mm (1/16")	±0.5mm		
	fillet weld length	0-30mm (0~1-1/4")	1mm (1/16")	±0.5mm		
	fillet weld height	0-35mm (0~1-3/8")	1mm (1/32")	±0.5mm		

**INSIDE SPRING CALIPERS**

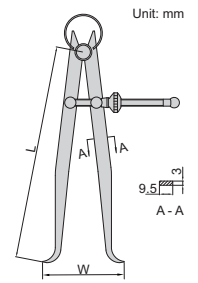
► Made of carbon steel



Code	Size (L)	Range (W)	List Price (₹)	Promotion Price (₹)
7261-150	150mm	20-170mm	588	557
7261-200	200mm	22-220mm	671	650
7261-300	300mm	30-320mm	1014	983

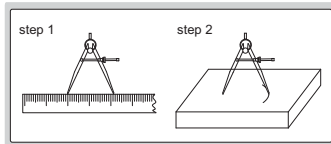


7261-150

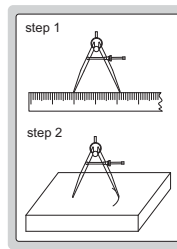


**SPRING DIVIDERS**

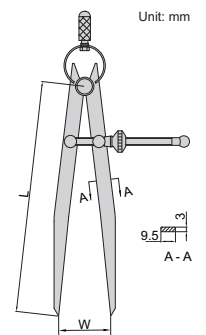
► Made of carbon steel  
► Hardened points



Code	Size (L)	Range (W)	List Price (₹)	Promotion Price (₹)
7260-150	150mm	0-150mm	588	557
7260-200	200mm	0-210mm	671	650
7260-300	300mm	0-320mm	1014	983

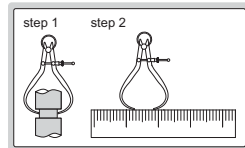


7260-150



**OUTSIDE SPRING CALIPERS**

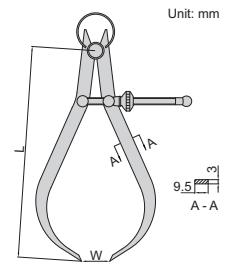
► Made of carbon steel



Code	Size (L)	Range (W)	List Price (₹)	Promotion Price (₹)
7262-150	150mm	0-140mm	588	557
7262-200	210mm	0-210mm	671	650
7262-300	310mm	0-320mm	1093	1059



7262-150

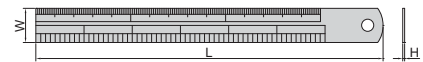


**STEEL RULES**

**ATTENTION:**  
BASIC MODEL



7110-300

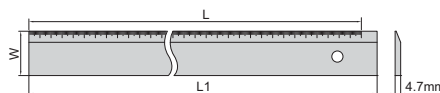


► Graduation: 0.5mm, 1mm, 1/64", 1/32", 1/16"  
► Rigid rules  
► Made of stainless steel  
► Non-glare surface  
► Graduation on front and back

Code	Range	Accuracy	L	W	H	List Price (₹)	Promotion Price (₹)
7110-150	150mm/6"	±0.15mm	170	18	1.0	77	68
7110-300	300mm/12"	±0.15mm	330	25	1.0	135	121
7110-500	500mm/20"	±0.15mm	530	30	1.2	282	246
7110-600	600mm/24"	±0.20mm	630	30	1.2	318	277
7110-1000	1000mm/40"	±0.20mm	1040	32	1.5	632	553

**ALUMINUM RULE**

► Graduation: 1mm  
► Made of aluminum, oxidized surface



Code	Range (L)	Accuracy	L1	W	List Price (₹)	Promotion Price (₹)
7123-600	600mm	±0.9mm	624mm	50mm	470	431



7123-600

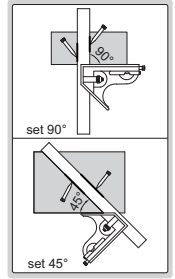
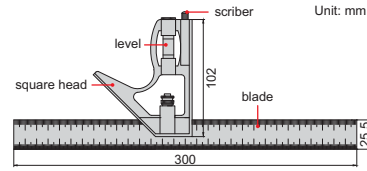


**LIGHT DUTY COMBINATION SQUARE**

- ▶ Square head (made of zinc):  
To set the blade at 90° or 45° to an edge of a workpiece  
Accuracy: ±0.5°
- ▶ Blade (made of stainless steel):  
Range: 300mm/12",  
Graduation: 1mm and 1/32" on front face, 1mm and 1/16" on back face

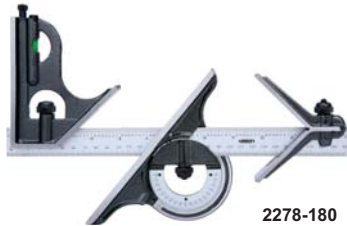
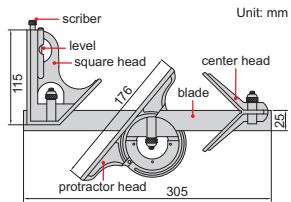


2276-300



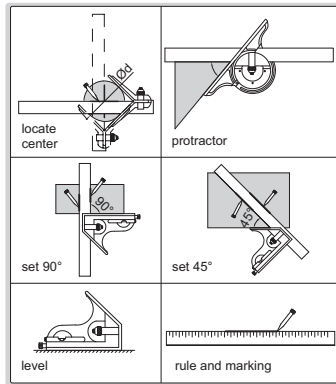
Code	List Price (₹)	Promotion Price (₹)
2276-300	482	414

**COMBINATION SQUARE SET**



2278-180

- ▶ Center head (made of cast iron):  
To locate center of cylinder with diameter (Ød): 30-100mm  
Accuracy: ±0.15mm
- ▶ Protractor head (made of cast iron):  
To set the blade at desired angle to an edge of a workpiece, and can be used to measure angles  
Range: 0-180°  
Accuracy: ±20min.
- ▶ Square head (made of cast iron):  
To set the blade at 90° or 45° to an edge of a workpiece  
Accuracy: ±8min for 90° square, ±10min for 45° square
- ▶ Blade (made of stainless steel):  
Range: 300mm/12",  
Graduation: 0.5mm and 1/32" on front face, 1mm and 1/64" on back face
- ▶ Optional accessory: rigid rule (code 7113)



Code	Remark	List Price (₹)	Promotion Price (₹)
2278-180	4-piece set	5978	4922

**MEASURING WHEEL**

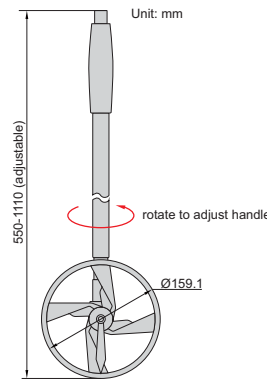


7145-1

- ▶ ABS plastic frame, wear-resistant PU tire
- ▶ Two-section foldable handle

Code	Range	Resolution	List Price (₹)	Promotion Price (₹)
7145-1	0.1-9999.9m	0.1m	6490	5958

**MEASURING WHEEL**



7144-1

- ▶ ABS plastic frame, wear-resistant PU tire
- ▶ Three-section adjustable handle

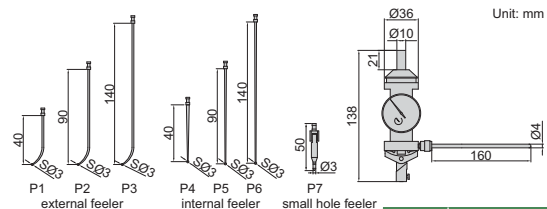
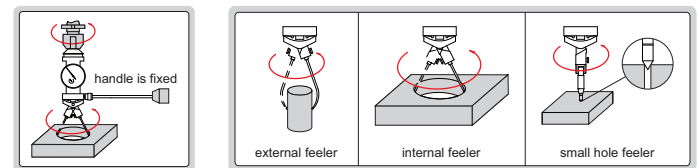
Code	Range	Resolution	List Price (₹)	Promotion Price (₹)
7144-1	0.1-9999.9m	0.1m	2869	2634

**CENTERING INDICATOR**

ATTENTION: SCALE DOES NOT INDICATE ANY VALUE



2385-3



Code	List Price (₹)	Promotion Price (₹)
2385-3	8785	6564

Feeler	Measuring diameter	Accuracy
P1	Ø0-60mm	0.015mm
P2	Ø0-160mm	0.02mm
P3	Ø0-250mm	0.03mm
P4	Ø3.2-80mm	0.015mm
P5	Ø3.2-180mm	0.02mm
P6	Ø3.2-280mm	0.03mm
P7	Ø0-2.8mm	0.015mm

- ▶ Provides quick and accurate centering in boring and milling set-up

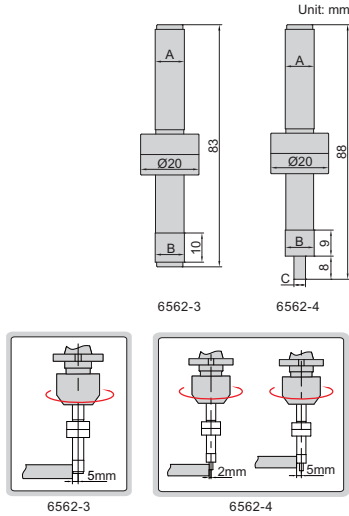
## EDGE FINDERS



6562-3

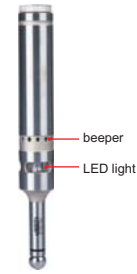
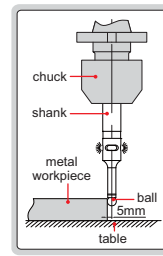
6562-4

- ▶ Hardened shank and contact point
- ▶ Suitable for machine speed 400-600rpm

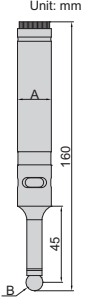


Code	Shank (A)	Contact point (B)	Contact point (C)	Accuracy	List Price (₹)	Promotion Price (₹)
6562-3	Ø10mm	Ø10mm	—	5µm	1701	1560
6562-4	Ø10mm	Ø10mm	Ø4mm	5µm	1745	1599

## ELECTRONIC EDGE FINDER



6566-3



- ▶ The shank is electrically conducted to the metal workpiece through the chuck and table, the LED lights up and the beeper sounds, when the ball touches the workpiece
- ▶ Not suitable for rotary use
- ▶ Hardened shank and contact ball
- ▶ Battery: 23AE, 12Vx1pc

Code	Shank (A)	Contact ball (B)	Accuracy	Beeper	List Price (₹)	Promotion Price (₹)
6566-3	Ø20mm	SØ10mm	5µm	with	5880	5471

## WIRELESS DATA TRANSFER SYSTEM

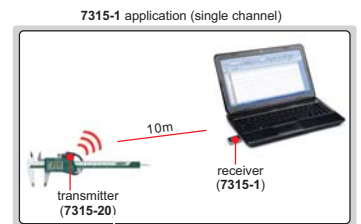
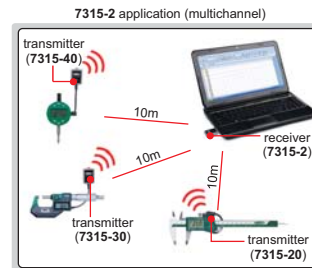


receiver 7315-2

receiver 7315-1

transmitter 7315-40

- ▶ Transfer distance is 10 meter



Code	Description	Plug to product	Remark	List Price (₹)	Promotion Price (₹)
7315-2	multichannel receiver		Connected with maximum 8 transmitters, each transmitter has ID code, text format virtual com port, converted to keyboard format (same as keyboard typewrite input into EXCEL, WORD etc.) with supplied software	17938	15552
7315-1	single channel receiver		Connected with 1 transmitter only, can change the transmitter, keyboard format (same as keyboard typewrite input into EXCEL, WORD etc., without software)	5938	5148
7315-20	transmitter		for digital calipers for digital depth gages	4460	3867
7315-30	transmitter		for digital micrometers for digital three points internal micrometers	4460	3867
7315-40	transmitter		for digital indicators	4460	3867

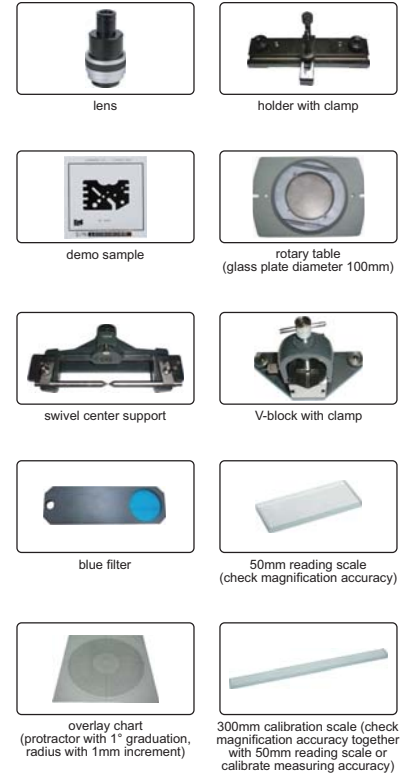
PROFILE PROJECTOR  
CODE ISP-Z3015



Screen diameter: 300mm

X-Y travel: 150x50mm

OPTIONAL ACCESSORY



SPECIFICATION

List Price (₹)		539156			
Promotion Price (₹)		410830			
Lens	magnification	10X (included)	20X (optional)	50X (optional)	100X (optional)
	view field	Ø30mm	Ø15mm	Ø6mm	Ø3mm
	working distance	77.7mm	44.3mm	38.4mm	25.3mm
Max. workpiece height		90mm	90mm	90mm	90mm
Magnification accuracy		±0.08%			
Image		erect image			
Projector screen		diameter: Ø300mm			
		rotation range: 0°~360°, resolution: 1" or 0.01°			
		reference lines: cross-hairs			
Stage	metal stage size	340×152mm			
	glass stage size	196×96mm			
	X-Y stage travel	range: 150×50mm			
		resolution: 0.5µm			
	Z (focus) travel range	90mm			
max. load capacity	4kg				
Illumination		contour illumination: 24V/150W halogen lamp, brightness is adjustable			
		surface illumination: 24V/150W halogen lamp			
	display	X-Y stage travel, screen rotation			
	output	RS232C			
Data processing unit	function	measure coordinate of point			
		measure coordinate of line			
		measure center coordinate, radius of circle with three points			
		measure distance between two objects			
		measure angle with four points or two lines			
		set origin of coordinate			
		coordinate transform			
		set midpoint of coordinate			
Power supply		110/220V, 50/60Hz			
Dimension (L×W×H)		550×770×1100mm			
Weight		135kg			

STANDARD DELIVERY

Main unit	1 pc
10X lens with half-reflection mirror and oblique illuminator mirror	1 pc
Overlay chart clip	4 pcs
Foot-switch	1 pc
Anti-dust cover	1 pc

OPTIONAL ACCESSORY

20X lens with half-reflection mirror and oblique illuminator mirror	ISP-Z3015-LENS20X
50X lens with half-reflection mirror	ISP-Z3015-LENS50X
100X lens with half-reflection mirror	ISP-Z3015-LENS100X
Rotary table	ISP-Z3015-TABLE
Overlay chart	ISP-Z3015-CHART
Holder with clamp	ISP-Z3015-HOLDER
Swivel center support	ISP-Z3015-SUPPORT
V-block with clamp	ISP-Z3015-VBLOCK
50mm reading scale	ISP-Z3015-SCALE50
300mm calibration scale	ISP-Z3015-RULE
Blue filter	ISP-Z3015-FILTER
Demo sample	ISP-Z3015-DEMO

## VISION MEASURING SYSTEM



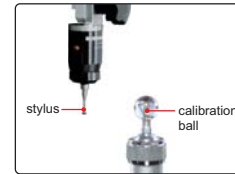
### SPECIFICATION

Code	ISD-V150	ISD-V250	ISD-V300
List Price (₹)	406623	458484	505451
Promotion Price (₹)	352169	405506	450097
Measuring range (X×Y×Z)	150×100×200mm	250×150×200mm	300×200×200mm
Stage size	354×228mm	450×280mm	500×330mm
Glass stage size	210×160mm	306×196mm	350×250mm
Resolution of X/Y/Z axis	0.5µm		
Accuracy of X/Y axis	≤(2.5+L/100)µm (L is the measuring length in mm)		
Repeatability of X/Y axis	2µm		
Objective	0.7X-4.5X (zoom)		
Working distance	92mm		
Magnification	33X-195X (on 19" monitor)		
Camera	1/3" color CCD, 0.3M pixel		
Illumination	surface and contour with adjustable LED		
Max. height of workpiece	160mm		
Max. weight of workpiece	20kg		
Operation system	Windows 7/8/10		
Drive method	manual		
Power supply	110/220V, 50/60Hz		
Dimension (L×W×H)	560×540×850mm	760×600×900mm	760×600×900mm
Weight	100kg	120kg	140kg



ISD-V250

computer is not included



probe (optional), includes Ø2mm and Ø3mm styli, Ø25mm calibration ball, measuring accuracy is 10µm



lens with coaxial light (optional, must be installed in factory)



software CD (included)

### STANDARD DELIVERY

Main unit	1 pc
Video card with dongle	1 pc
Software disc	1 pc
Calibration glass chart	1 pc
Laser positioner	1 pc
Clay	1 pc
Foot switch	1 pc
Anti-dust cover	1 pc

### OPTIONAL ACCESSORY

0.5X auxiliary objective	Code: <b>ISD-V-OB05X</b> Working distance: 175mm Magnification: 16.5-97.5X (on 19" monitor)
2X auxiliary objective	Code: <b>ISD-V-OB2X</b> Working distance: 36mm Magnification: 66-390X (on 19" monitor)
Probe	Code: <b>ISD-V-PROBE</b> Includes Ø2mm and Ø3mm styli, Ø25mm calibration ball
Lens with coaxial light	Code: <b>ISD-V-LENS</b> (must be installed in factory)
Vision measuring system with computer	Code: <b>ISD-V150A, ISD-V250A, ISD-V300A</b>

### SOFTWARE

- Operation system: Windows 7/8/10
- Language: English
- Single measuring tools:

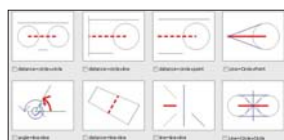
- measure coordinate of point
- measure center coordinate and axis length of ellipse
- measure length of open curve
- measure distance of two elements

- measure center coordinate, diameter and area of circle
- measure length, width and area of rectangle
- measure length and area of closed curve

- measure distance between two points
- measure length, width and diameter of key slot
- measure angle of two lines

- measure length and diameter of arc
- measure width and diameter of ring
- measure focus distance of surface

### Combined measuring tools:

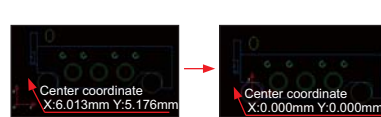


measure distance and angle of two elements

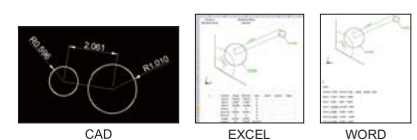
### Focus indicator:



### Coordinate transfer:



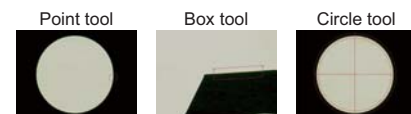
### Data export to CAD, EXCEL and WORD



### Profile detection:



### Edge-detection:



### Contour scanning:



### CAD measuring:



Input CAD drawing and set reference, move the stage to make the target box in the center of crosshair, then the software will do automatic measurement

DIGITAL MEASURING MICROSCOPE (WITH DISPLAY)

- ▶ 1080P high-definition image
- ▶ Built-in software without computer, operation by mouse
- ▶ Take pictures, saved to USB flash disk
- ▶ Measurement results can be output to Excel
- ▶ Automatic white balance and exposure
- ▶ Brightness, contrast ratio, gain are adjustable

TAKE PICTURES

MEASUREMENT

BUILT-IN SOFTWARE WITHOUT COMPUTER

SPECIFICATION

Code	ISM-DL301* (with contour illumination)
List Price (₹)	144468
Promotion Price (₹)	135834
Magnification	15X~100X
Sensor	1/2" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter and 220V, 50/60Hz *
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

\*Add "-U" on code No. when power supply is 110V, 50/60Hz

STANDARD DELIVERY

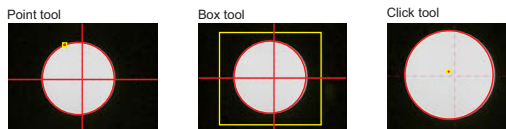
Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
Calibration plate	1 pc
16G USB flash disk	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED auxiliary illumination	ISM-DL-LED
Coaxial light illumination	ISM-DL-COAXIAL
Auxiliary objective lens	

SOFTWARE

- ▶ Language: English
- ▶ Output to Excel
- ▶ Edge-detection:



Measurement tools:

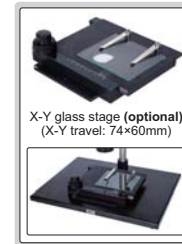
- |  |  |   |   |
|--|--|---|---|
| measure length of line or distance between two points                | measure distance between multiple parallel lines                   | measure length of line or distance between two points in vertical direction   | measure distance between two parallel lines   |
| measure angle from horizontal line                                   | measure angle from vertical line                                   | measure length of line or distance between two points in horizontal direction | measure distance between point and line       |
| measure radius, diameter, girth and area of circle with three points | measure radius, diameter, girth and area concentric of circles     | measure girth and area of polygon   | measure distance between three parallel lines |
| measure minimum distance between point and circle                    | measure distance between point and center of circle                | measure length, width, girth and area of rectangle                            | measure radius, length and angle of arc       |
| measure minimum distance between line and circle                     | measure distance between line and center of circle                 | measure maximum distance between point and circle                             | measure angle of two lines                    |
| measure minimum distance between two circles                         | measure center distance between two circles                        | measure maximum distance between line and circle                              | cross hair                                    |
| add text   | measure radius, diameter, girth and area of circle with two points | measure maximum distance between two circles                                  |   |



ISM-DL301 (with contour illumination)

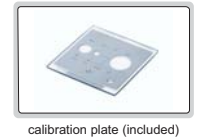
MEASURING ACCURACY

Magnification	Measuring accuracy
15X	±8µm
30X	±6µm
50X	±6µm
80X	±4µm
100X	±4µm
>100X	±4µm



MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	15~100X	30~200X
	Focus distance	70±2mm	70±2mm
	View filed	16×11~2.5×1.6mm	7.8×5.3~1.2×0.8mm
2X (optional)	Magnification	30~200X	60~400X
	Focus distance	29±2mm	29±2mm
	View field	7.8×5.3~1.2×0.8mm	3.8×2.7~0.6×0.4mm



## DIGITAL MICROSCOPE WITH DISPLAY (ECONOMIC MODEL)

TAKE PICTURES AND VIDEOS

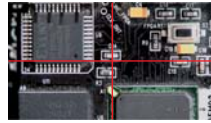
- ▶ 1080P high-definition image
- ▶ Take pictures and videos, saved to memory card
- ▶ Automatic exposure and white balance
- ▶ Brightness, contrast ratio, gain are adjustable
- ▶ Display cross hair (blue/green/red/yellow/black/brown colors)

### SPECIFICATION

Code	5304-DL100
List Price (₹)	64862
Promotion Price (₹)	61056
Magnification	28X~91X
Focus distance	28~78mm
View field	13×7mm~3×2mm
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	380×260×500mm
Weight	4kg



8G memory card and holder (included)



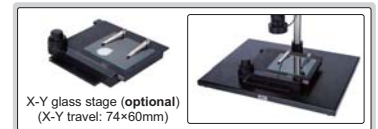
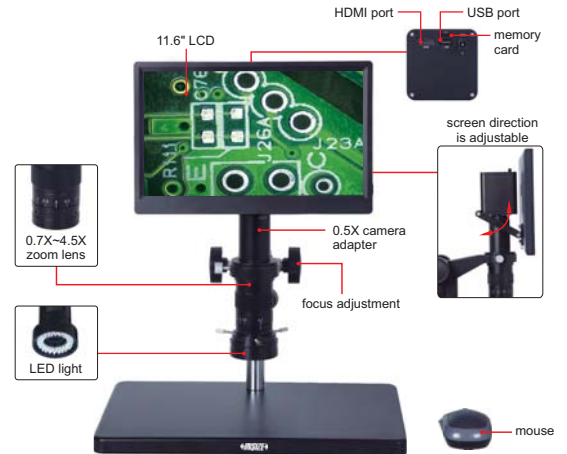
display cross hair (blue/green/red/yellow/black/brown colors)

### STANDARD DELIVERY

Main unit	1 pc
8G memory card and holder	1 pc
Mouse	1 pc
White/black plate	1 pc
Power adapter	2 pcs

### OPTIONAL ACCESSORY

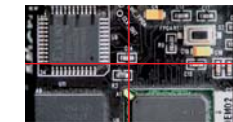
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE
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## DIGITAL AUTO FOCUS MICROSCOPE (WITH DISPLAY)

AUTO FOCUS

TAKE PICTURES AND VIDEOS

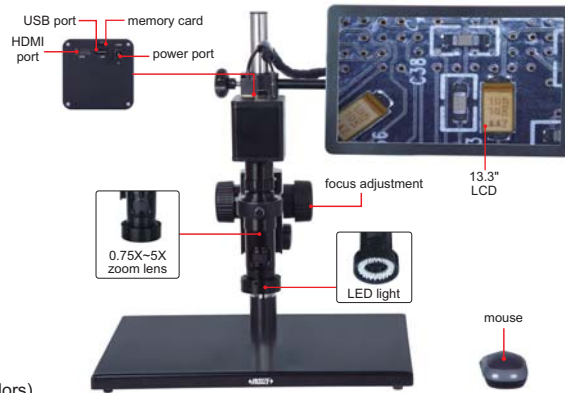


display cross hair (blue/green/red/yellow/black/brown colors)



8G memory card and holder (included)

- ▶ 1080P high-definition image
- ▶ Auto focus camera
- ▶ Take pictures and videos, saved to memory card
- ▶ Automatic exposure and white balance
- ▶ Brightness, contrast ratio, gain are adjustable
- ▶ Display cross hair (blue/green/red/yellow/black/brown colors)



2X auxiliary objective (optional)



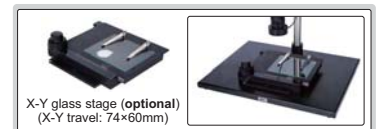
1X camera adapter (optional)



0.5X camera adapter (included)



1X auxiliary objective (included)



### SPECIFICATION

Code	5303-AF103
List Price (₹)	138876
Promotion Price (₹)	130726
Magnification	20X~123X
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	570×300×430mm
Weight	6.5kg

### STANDARD DELIVERY

Main unit	1 pc
0.5X camera adapter	1 pc
1X auxiliary objective	1 pc
8G memory card and holder	1 pc
White/black plate	1 pc
Mouse	1 pc
HDMI cable	1 pc
Power adapter	2 pcs

### OPTIONAL ACCESSORY

1X camera adapter	ISM-DL-CA1X
2X auxiliary objective	ISM-DL-OB2X
X-Y glass stage (travel: 74×60mm)	ISM-DL-STAGE
X-Y metal stage	ISM-DL-STAGE1
LED auxiliary lighting	ISM-DL-LED
Lens with coaxial light	ISM-DL-COAXIAL
Auxiliary objective lens	

### AUTO FOCUS DISTANCE

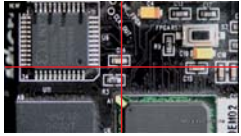
Zoom objective scale	0.75X	1X	1.5X	2X	2.5X
Auto focus distance	48~84mm	50~78mm	55~73mm	62~71mm	65~70mm
Zoom objective scale	3X	3.5X	4X	4.5X	5X
Auto focus distance	66~70mm	67~70mm	68~70mm	68~70mm	68~70mm

### MAGNIFICATION, FOCUS DISTANCE AND VIEW FIELD

Auxiliary Objective	Specification	Camera adapter	
		0.5X (included)	1X (optional)
1X (included)	Magnification	20~123X	40~246X
	Focus distance	48~84mm	48~84mm
	View field	13×7~2.2×1mm	6.3×3.5~1.1×0.5mm
2X (optional)	Magnification	40~246X	80~492X
	Focus distance	24~42mm	24~42mm
	View field	6.5×3.5~1.1×0.5mm	3.3×1.8~0.6×0.3mm

**DIGITAL AUTO FOCUS MICROSCOPE  
CODE 5302-AF105**

**AUTO FOCUS** **TAKE PICTURES AND VIDEOS**

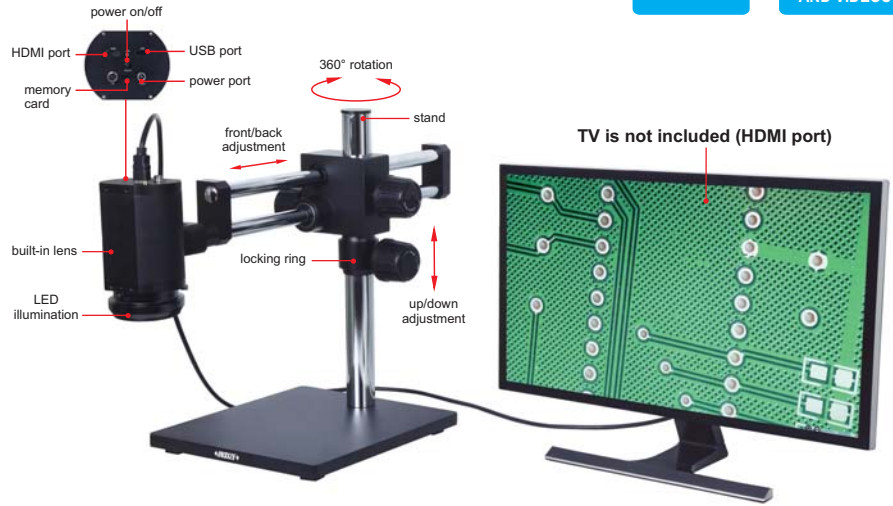


display cross hair (blue/green/red/yellow/black/brown colors)



8G memory card and holder (included)

- ▶ 1080P high-definition image
- ▶ Auto focus camera
- ▶ Take pictures and videos, saved to memory card
- ▶ Connected to TV by HDMI port
- ▶ Automatic exposure and white balance
- ▶ Brightness, contrast ratio, gain are adjustable
- ▶ Display cross hair (blue/green/red/yellow/black/brown colors)



**SPECIFICATION**

List Price (₹)	134542
Promotion Price (₹)	123509
Magnification	1.8X~27.5X (on 28" TV)
Sensor	1/2.8" CMOS
Pixel	2M
Resolution	1920×1080
Frame rate	60fps
Auto Focus distance	100mm~∞
Output	HDMI
Power supply	power adapter
Dimension (L×W×H)	500×280×410mm
Weight	17kg

**STANDARD DELIVERY**

Main unit (with stand)	1 pc
LED illumination	1 pc
8G memory card and holder	1 pc
Mouse	1 pc
HDMI cable (for TV)	1 pc
Power adapter	2 pcs

**FOCUS DISTANCE, MAGNIFICATION AND VIEW FIELD (MANUAL FOCUS)**

Focus distance	Magnification (on 28" TV)	View field
100mm	4.5~27.5X	24×14~161×90mm
150mm	3~21X	30×17~240×128mm
200mm	2.3~17.5X	38×20~305×176mm
250mm	2~15X	42×24~320×210mm
270mm	1.8~14.4X	43×25~378×240mm

**DIGITAL MEASURING MICROSCOPE**

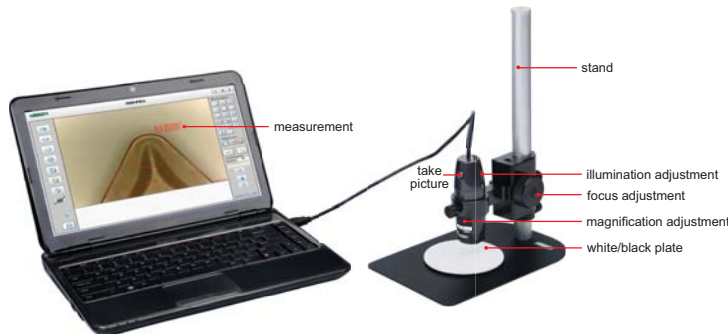


software CD (included)



VIDEO

- ▶ Can take pictures and videos
- ▶ Supplied with software



**ISM-PM200SA**  
computer is not included

**SPECIFICATION**

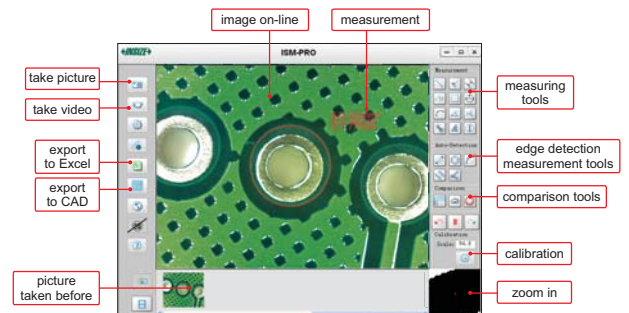
Code	ISM-PM200SA
List Price (₹)	18265
Promotion Price (₹)	13335
Magnification	10X~200X
Focus distance	short focus distance
Stand	standard
Focus support	included
Calibration rule	graduation 0.1 and 1mm
Pixel	2M (resolution: 1600×1200)
Illumination	built-in adjustable LED
Power supply	USB 2.0 cable (voltage required: 5±0.1V)

**MAGNIFICATION, FOCUS DISTANCE, VIEW FIELD AND ACCURACY**

Magnification	Focus distance	View field (mm)	Accuracy
50X	21mm	8.1×6.4	30µm
100X	13mm	3.9×3.1	15µm
150X	16mm	2.6×2.1	10µm
200X	19mm	1.8×1.5	8µm

**OPTIONAL ACCESSORY**

Green filter	ISM-PM-GREEN
Yellow filter	ISM-PM-YELLOW
Blue filter	ISM-PM-BLUE



**ZOOM STEREO MICROSCOPE (STANDARD MODEL)  
CODE ISM-ZS50**

**SPECIFICATION**

List Price (₹)	71173
Promotion Price (₹)	56108
Optical tube	binocular
Eyepiece (wide field)	10X (view field: Ø22mm)
Objective	0.8X-5X (zoom)
Zoom ratio	1:6.3
Pupil distance	55-75mm (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	115mm
Max. workpiece height	215mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	290x260x480mm
Weight	4.9kg

**STANDARD DELIVERY**

Main unit	1 pc
WF10X eyepiece	2 pcs
Ø100mm glass plate	1 pc
Ø100mm white/black plate	1 pc
Anti-dust cover	1 pc



**OPTIONAL ACCESSORY**

Auxiliary objective	0.5X	ISM-ZS50-OB05X *
	2X	ISM-ZS50-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS50-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Digital camera		ISM-D500
LED ring light		ISM-ZS-RL
Sleeve		ISM-ZS30-ADAPTER

\*0.5X auxiliary objective must be used with sleeve

**ZOOM STEREO MICROSCOPE (BASIC MODEL)  
CODE ISM-ZS30**

**SPECIFICATION**

List Price (₹)	34466
Promotion Price (₹)	27171
Optical tube	binocular
Eyepiece (wide field)	10X (view field: Ø20mm)
Objective	1X-4.5X (zoom)
Zoom ratio	1:4.5
Pupil distance	55-75mm (adjustable)
Diopter adjustment	±5 diopter (two eyepieces)
Working distance of objective	97mm
Max. workpiece height	147mm
Illumination	adjustable reflected and transmitted LED light
Power supply	110/220V, 50/60Hz
Dimension (L×W×H)	260×190×400mm
Weight	4.3kg

**STANDARD DELIVERY**

Main unit	1 pc
WF 10X eyepiece	2 pcs
Ø95mm glass plate	1 pc
Ø95mm white/black plate	1 pc
Anti-dust cover	1 pc



**OPTIONAL ACCESSORY**

Auxiliary objective	0.5X	ISM-ZS30-OB05X *
	0.63X	ISM-ZS30-OB06X *
	0.75X	ISM-ZS30-OB07X *
	2X	ISM-ZS30-OB2X
Eyepiece	10X dividing eyepiece (graduation 0.1mm/div.)	ISM-ZS30-EPD10X
	WF15X (view field: Ø16mm)	ISM-ZS50-EP15X
	WF20X (view field: Ø12mm)	ISM-ZS50-EP20X
Digital camera		ISM-D500
LED ring light		ISM-ZS-RL
Sleeve		ISM-ZS30-ADAPTER

\*0.5X, 0.63X and 0.75X auxiliary objectives must be used with sleeve

**FOLDING MAGNIFIER**

► Glass lens

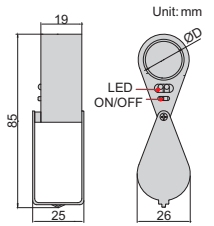
Code	Magnification	Lens diameter (ØD)	List Price (₹)	Promotion Price (₹)
7511-8	10X	Ø21mm	145	124





FOLDING MAGNIFIER WITH ILLUMINATION

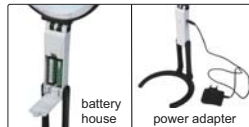
- ▶ Glass lens
- ▶ Powered by 3xLR927 batteries (included)



Code	Magnification	Lens diameter (ØD)	List Price (₹)	Promotion Price (₹)
7515-10	10X	Ø21mm	399	340

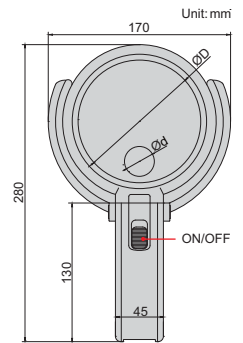
7515-10

THREE WAYS MAGNIFIER WITH ILLUMINATION



- ▶ Plastic lens
- ▶ Powered by 2xAAA batteries (included) or power adapter (110~240V, 50~60Hz)

Code	Magnification	Lens diameter (ØD)	Lens diameter (ØD)	List Price (₹)	Promotion Price (₹)
7512-1	2X/4X	Ø120mm	Ø28mm	1075	916



7512-1

MAGNIFIERS WITH ILLUMINATION

- ▶ Glass lens
- ▶ Powered by 3xAAA batteries (included)

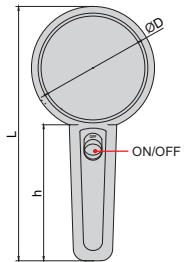


Code	Magnification	Lens diameter (ØD)	L	H	List Price (₹)	Promotion Price (₹)
7513-2	2X	Ø75mm	170mm	90mm	363	309
7513-4	4X	Ø50mm	145mm	90mm	333	284



7513-2

7513-4



MAGNIFIER WITH ILLUMINATION



7518-26

- ▶ Two magnifications
- ▶ LED illumination
- ▶ Powered by 2pcs AAA batteries (included)
- ▶ Resin lens



Code	Magnification	Lens size	List Price (₹)	Promotion Price (₹)
7518-26	2X/6X	90x55mm	674	567

FOLDING MAGNIFIER WITH ILLUMINATION



7514-1

- ▶ Plastic lens
- ▶ Powered by 2xCR1620 batteries (included)
- ▶ LED lights up automatically when  $\alpha$  is over 130°

Code	Magnification	Lens diameter (ØD)	List Price (₹)	Promotion Price (₹)
7514-1	2.5X	Ø45mm	315	268

**TABLE MAGNIFIER WITH ILLUMINATION  
CODE 7516-5D**



- ▶ LED illumination, working life 20000h

**SPECIFICATION**

<b>List Price (₹)</b>	3770
<b>Promotion Price (₹)</b>	<b>3311</b>
<b>Magnification</b>	2.25X
<b>Diopter</b>	5D
<b>Lens diameter</b>	Ø122mm
<b>Illumination</b>	power: 7W, illuminance: 420lm
<b>Power supply</b>	100~240V, 50~60Hz



**TABLE MAGNIFIER WITH ILLUMINATION  
CODE 7517-3D**



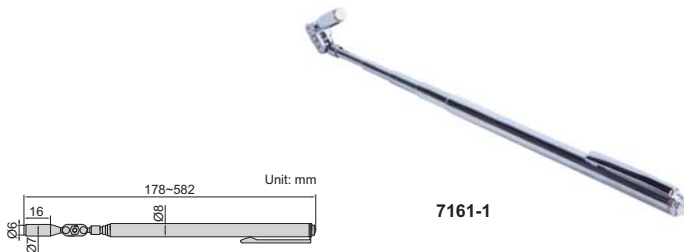
- ▶ Four steps brightness adjustment
- ▶ LED illumination, working life 20000h
- ▶ Resin lens

**SPECIFICATION**

<b>List Price (₹)</b>	3392
<b>Promotion Price (₹)</b>	<b>2857</b>
<b>Magnification</b>	1.75X
<b>Diopter</b>	3D
<b>Lens diameter</b>	Ø125mm
<b>Illumination</b>	power: 3W, illuminance: 260lm
<b>Power supply</b>	100~240V, 50~60Hz



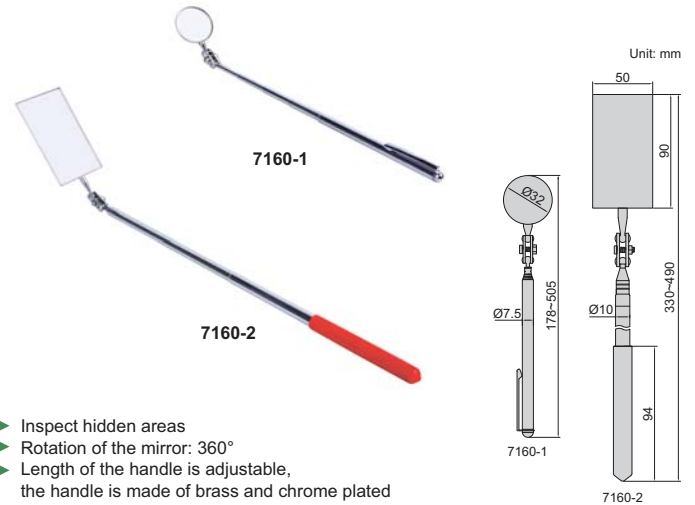
**TELESCOPING MAGNETIC PICK-UP**



- ▶ Pick up metal parts from hidden areas
- ▶ Rotation of the magnetic head: 360°
- ▶ Length of the handle is adjustable, the handle is made of brass and chrome plated

Code	Size of magnetic tip	Magnetic force	Length	List Price (₹)	Promotion Price (₹)
7161-1	Ø6mm	0.45kgf	178~582mm	513	471

**TELESCOPING INSPECTION MIRRORS**

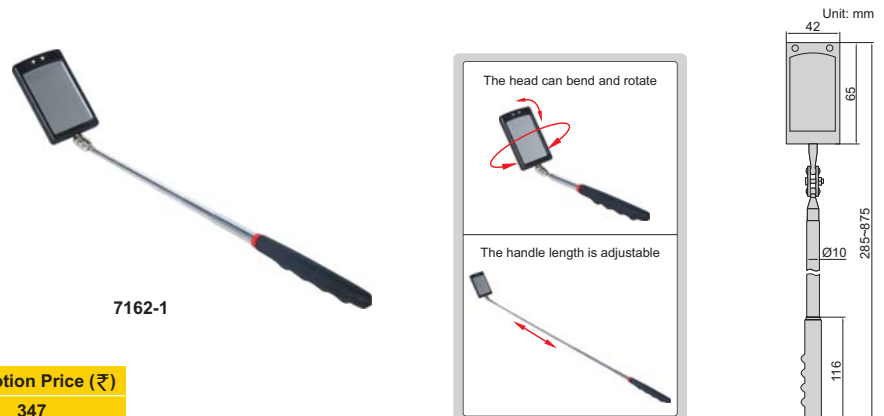


- ▶ Inspect hidden areas
- ▶ Rotation of the mirror: 360°
- ▶ Length of the handle is adjustable, the handle is made of brass and chrome plated

Code	Size of mirror	Length	List Price (₹)	Promotion Price (₹)
7160-1	Ø32mm	178~505mm	477	436
7160-2	50x90mm	330~490mm	1140	1051

**TELESCOPING INSPECTION MIRROR  
(WITH ILLUMINATION)**

- ▶ Inspect hidden areas
- ▶ The head can bend and rotate
- ▶ Telescoping handle, made of stainless steel
- ▶ With two CR2032 batteries



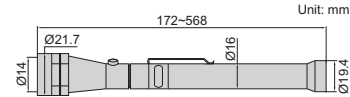
Code	Size of mirror	Length	List Price (₹)	Promotion Price (₹)
7162-1	65x42mm	285~875mm	411	347

TELESCOPING MAGNETIC PICK-UP AND FLASHLIGHT

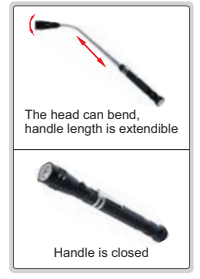
- For illumination and pick up metal parts in hidden areas
- The head can bend
- Telescoping handle, made of stainless steel
- Magnetic head and end
- With four LR44 batteries



7163-1



Code	Magnetic end	Magnetic head	Flashlight range	Battery life	Length	List Price (₹)	Promotion Price (₹)
7163-1	4kgf	2kgf	3m	8h	172-568mm	553	466



ROUGHNESS TESTER  
CODE ISR-C100

- 16 roughness parameters
- With probe position indicator
- Connected with printer via bluetooth
- Can display roughness values, profile and curve
- Memory of maximum 100 results
- Automatic power off



ATTENTION: PROBE IS NOT EXTENDABLE

DATA OUTPUT



measuring software for PC (included)

control the roughness tester, display roughness values, profile and curve

screen display

measurement result

roughness profile

Rmr analysis



SPECIFICATION

List Price (₹)	122195
Promotion Price (₹)	80136
Parameters	Ra, Rq, Rz, Rv, Rp, Rm, Rt, RS, Rsm, R3z, R3y, Rz (JIS), Rku, Rsk, Rmax, Rpc
Range	160µm
Accuracy	±10%
Resolution (Ra)	0.001µm
Probe	type: inductive stylus radius/angle: 5µm/90° stylus material: diamond
Measuring force	4mN
Measuring unit	µm/µin
Cut off	0.25/0.8/2.5mm
Number of cut-offs	1 to 5
Traverse speed	0.5mm/s, 1mm/s
Memory	100 measurement results
Output	USB and bluetooth
Power	built-in rechargeable battery
Dimension (L×W×H)	140×52×48mm
Weight	440g

STANDARD DELIVERY

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
USB cable and software for PC	1 pc
Android APP for mobile device	1 pc
AC/DC adapter	1 pc

OPTIONAL ACCESSORY

Extension rod	ISR-C100-ER
Groove probe	ISR-C100-130
Deep groove probe	ISR-C100-131
Test stand	ISR-C100-STAND
Wireless printer	ISR-C100-PRINTER

Unit:mm

extension rod (optional), code ISR-C100-ER

groove probe (optional), code ISR-C100-130

deep groove probe (optional), code ISR-C100-131

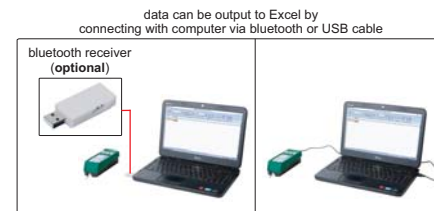
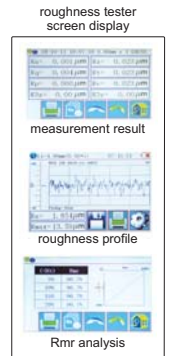
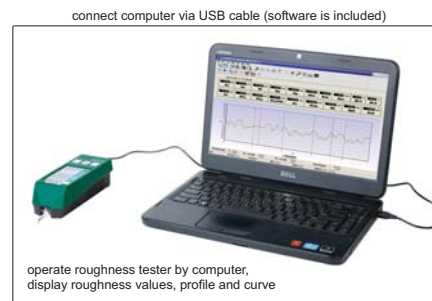
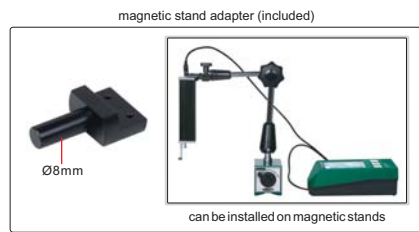
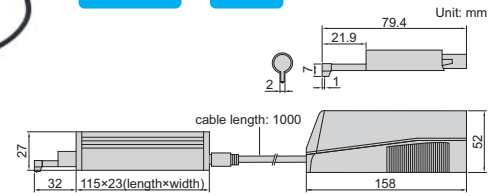
## ROUGHNESS TESTER (SEPARABLE TYPE) CODE ISR-C300

- ▶ Roughness tester can be operated by mobile phone (only android system) or computer
- ▶ Data can be output to Excel by connecting with computer via bluetooth or USB cable
- ▶ Support bluetooth printer
- ▶ 22 roughness parameters
- ▶ Meet ISO, DIN, ANSI, JIS standards
- ▶ Display roughness values, profile and curve
- ▶ Memory of maximum 100 data and waveform
- ▶ Built-in lithium battery, working time more than 50 hours
- ▶ Touch screen
- ▶ Automatic power off



CAN BE OPERATED BY COMPUTER OR MOBILE PHONE TOUCH SCREEN

BLUETOOTH DATA OUTPUT



NOTE: Please confirm whether the adapter can fit your height gages. When using INSIZE height gages, please use the dial test indicator holder of height gages

optional probes

software CD (included)

extension rod (optional), code ISR-C002-ER	small hole probe (optional), code ISR-C002-PROBE	tiny hole probe (optional), code ISR-C002-SBP	deep groove probe (optional), code ISR-C002-DGP

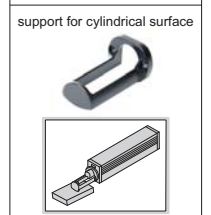
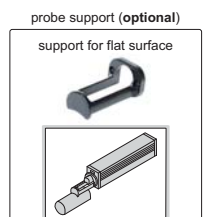
Unit: mm

### SPECIFICATION

List Price (₹)	119005	
Promotion Price (₹)	96096	
Parameters	Ra, Rz, Rq, Rv, Rp, Rs, R3z, R3y, Rt, Rc, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry, Rmax	
Range	X axis	17.5mm
	Z axis	320µm (-160µm~160µm)
Accuracy	±10%	
Resolution (Ra)	0.001µm	
Probe	type	inductive
	stylus radius/angle	5µm/90°
	stylus material	diamond
Measuring force	4mN	
Measuring unit	µm/µin	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1~5	
Traverse speed	0.135mm/s, 0.5mm/s, 1mm/s	
Memory	100 measurement results	
Output	USB and bluetooth	
Power	built-in rechargeable battery	
Dimension (L*W*H)	158*64*52mm	
Weight	400g	

### STANDARD DELIVERY

Main unit	1pc
Standard probe	1pc
Calibration block and support	1pc of each
Connecting cable (long and short)	1pc of each
Magnetic stand adapter	1pc
Adjustable stand	1pc
Touch pen	1pc
USB cable and software	1pc
AC/DC adapter	1pc



### OPTIONAL ACCESSORY

Extension rod	ISR-C002-ER
Small hole probe	ISR-C002-PROBE
Tiny hole probe	ISR-C002-SBP
Deep groove probe	ISR-C002-DGP
Bluetooth printer	ISR-C002-PRINTER
Height gage adapter	ISR-C300-LB1
Bluetooth receiver	ISR-C300-RECEIVER
Support for flat surface	ISR-C300-COVER1
Support for cylindrical surface	ISR-C300-COVER2

**ROUGHNESS TESTER  
CODE ISR-C002**

CAN BE CONTROLLED  
BY COMPUTER

DATA  
OUTPUT



software CD (included)



printer (optional)



adjustable stand (included)

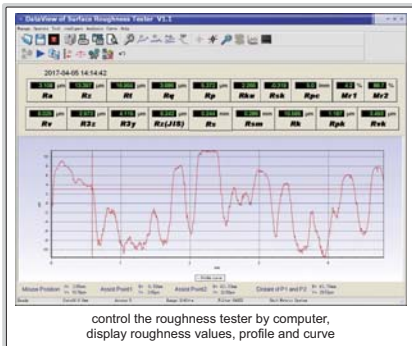


probe cover (included)



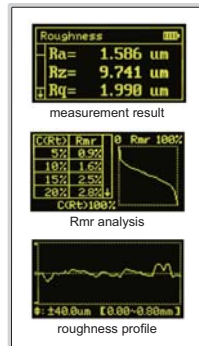
- ▶ 21 roughness parameters
- ▶ Display roughness values, profile and curve
- ▶ Memory of maximum 100 results
- ▶ Automatic power off

software (included)



control the roughness tester by computer,  
display roughness values, profile and curve

screen display



light duty test stand (optional)



the maximum workpiece  
height is 220mm

heavy duty test stand (optional)



the maximum workpiece  
height is 310mm

Unit: mm

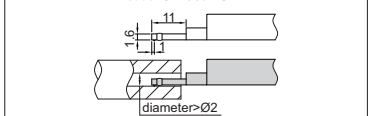
extension rod (optional),  
code ISR-C002-ER



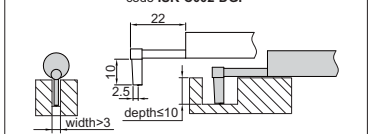
transverse rod (optional),  
code ISR-C002-TR



small hole probe (optional),  
code ISR-C002-SBP



deep groove probe (optional),  
code ISR-C002-DGP



**SPECIFICATION**

List Price (₹)	105323	
Promotion Price (₹)	80136	
Parameters	Ra, Rz, Rq, Rv, Rp, RS, R3z, R3y, Rt, Rz (JIS), Rk, Rku, Rsm, Rpc, Rpk, Rvk, Rsk, Mr1, Mr2, Ry (JIS), Rmax	
Range	160μm	
Accuracy	±10%	
Resolution (Ra)	0.001μm	
Probe	type	inductive
	stylus radius/angle	5μm/90°
	stylus material	diamond
Measuring force	4mN	
Measuring unit	μm/μin	
Cut off	0.25/0.8/2.5mm	
Number of cut-offs	1 to 5	
Traverse speed	0.5mm/s, 1mm/s	
Memory	100 measurement results	
Output	USB	
Power	built-in rechargeable battery	
Dimension (L×W×H)	141×55×40mm	
Weight	400g	

**STANDARD DELIVERY**

Main unit	1 pc
Standard probe	1 pc
Calibration block and support	1 pc of each
Adjustable stand	1 pc
Probe cover	1 pc
Software	1 pc
AC/DC adapter	1 pc

**OPTIONAL ACCESSORY**

Extension rod	ISR-C002-ER
Transverse rod	ISR-C002-TR
Deep groove probe	ISR-C002-DGP
Small hole probe	ISR-C002-SBP
Light duty test stand	ISR-C002-STAND1
Heavy duty test stand	ISR-C002-STAND
Printer	ISR-C002-PRINTER

## ROUGHNESS TESTER CODE ISR-C003



calibration block (included)



- ▶ Unit:  $\mu\text{m}$ ,  $\mu\text{in}$
- ▶ Automatic power off

### STANDARD DELIVERY

Main unit	1 pc
Calibration block	1 pc
AC/DC adapter	1 pc

### SPECIFICATION

List Price (₹)	79213	
Promotion Price (₹)	65451	
Parameters	Ra, Rz, Rq, Rt	
Range	Ra, Rq: 0.05~15 $\mu\text{m}$ Rz, Rt: 0.1~50 $\mu\text{m}$	
Accuracy	$\pm 10\%$	
Resolution (Ra)	0.01 $\mu\text{m}$	
Probe	type	piezoelectric
	stylus radius/angle	10 $\mu\text{m}/90^\circ$
	stylus material	diamond
Measuring force	5mN	
Measuring unit	$\mu\text{m}/\mu\text{in}$	
Cut off	0.25/0.8/2.5mm	
Evaluation length	1.25mm for cut off 0.25mm 4mm for cut off 0.8mm 5mm for cut off 2.5mm	
Traverse speed	0.75mm/s	
Power	built-in rechargeable battery	
Dimension (L×W×H)	106×70×24mm	
Weight	200g	

## MANUAL 360° SWIVEL VIDEOSCOPE

TUNGSTEN WIRE WEAVED CABLE  
RESISTANCE TO BREAK AND WEAR

IP64  
WATERPROOF



ISV-2000DS

the cable is interchangeable



### STANDARD DELIVERY

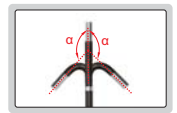
Main unit	1 pc
Cable with lens	1 pc
8G SD card	1 pc
AC/DC adapter	1 pc
Video output cable	1 pc
USB cable	1 pc



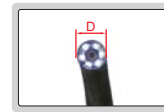
bend in any direction



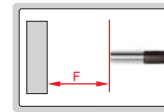
360° swivel in clockwise and counter-clockwise



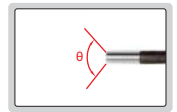
bending range of lens



lens with LED adjustable illumination



focus distance



angle of view

### SPECIFICATION

Code	ISV-2000DS	
List Price (₹)	291204	
Promotion Price (₹)	267325	
Lens	diameter (D)	6.5mm
	focus distance (F)	15mm~∞
	bending range ( $\alpha$ )	$\pm 160^\circ$
	angle of view ( $\theta$ )	$90^\circ$
	illumination	8 pcs LED
	pixel	0.44M
	resolution	800×480
	dust/waterproof	IP64
Cable	bend control	manual joystick
	length	1.5m
Main unit	type	tungsten wire weaved cable
	function	take picture, take video
	file format	picture: JPG, video: AVI
	image process	brightness, image quality zoom (1X, 2X, 3X)
	memory	8G SD card
	output	TV, USB
Weight	power supply	rechargeable battery (for 4 hours working) AC/DC adapter (for continuous working)
		650g

**COATING THICKNESS GAGE  
CODE 9501-1200**

FOR MAGNETIC AND  
NON-MAGNETIC SUBSTRATES

DATA  
OUTPUT

- ▶ Magnetic induction probe (FE) is to measure the thickness of non-magnetic coating on magnetic substrate  
Substrate: iron, steel, magnetic stainless steel (does not include non-magnetic stainless steel)  
Coating: zinc, copper, chrome, tin, plastic, powder, paint (nickel is not included)
- ▶ Eddy current probe (NFE) is to measure the thickness of non-conductive coating on non-magnetic substrate  
Substrate: copper, aluminum, zinc, non-magnetic stainless steel  
Coating: plastic, powder, paint, anodizing
- ▶ Low and high limits with judgement
- ▶ Automatic power off



**SPECIFICATION**

List Price (₹)	22389			
Promotion Price (₹)	20166			
Probe type	Fe (included) magnetic induction probe	NFe (optional) eddy current probe	Fe90 (optional) magnetic induction probe for bores and grooves	Fe10 (optional) magnetic induction probe with big range
Measuring range	0~1250µm	0~1250µm	0~1250µm	500~10000µm
Accuracy	±(3%L+1)µm (range≤1250µm) ±(3%L+10)µm (range>1250µm) L is measuring thickness in µm			
Resolution	0.1µm (range<100µm) 1µm (range≥100µm)			
Measuring mode	continuous and single			
Minimum substrate thickness	0.5mm	0.3mm	0.5mm	2mm
Minimum measuring area	Ø7mm	Ø5mm	Ø7mm	Ø40mm
Minimum curvature radius of convex workpiece	1.5mm	3mm	-	10mm
Memory	500			
Power supply	2x1.5V AA batteries			
Dimension	128x68x32mm			
Weight	340g			



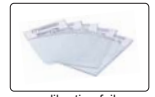
eddy current probe  
NFe (optional) with  
zero calibration block



magnetic induction  
probe (Fe90) for bores  
and grooves (optional)



zero calibration block  
for Fe (included)



calibration foils  
(included)



magnetic induction  
probe (Fe10) with big  
range (optional)



software CD  
(included)

**STANDARD DELIVERY**

Main unit	1 pc
Magnetic induction probe (Fe)	1 pc
Zero calibration block for Fe probe	1 pc
Calibration foils (50µm, 100µm, 250µm, 500µm, 1000µm)	1 set
1.5V AA battery	2 pcs
USB cable and software	1 pc

**OPTIONAL ACCESSORY**

Eddy current probe (NFe) with zero calibration block	9501-1200-NFE
Magnetic induction probe (Fe90) for bores and grooves	9501-1200-FE90
Magnetic induction probe (Fe10) with big range	9501-1200-FE10

**ULTRASONIC THICKNESS GAGE (BASIC MODEL)  
CODE ISU-100D**



ATTENTION: NOT SUITABLE  
FOR CASTING WORKPIECES



- ▶ Measure the thickness from one side of object, suitable for pipe, tank, etc.
- ▶ Applicable material: metal, plastic, glass, nylon, resin, ceramic, ice



**STANDARD DELIVERY**

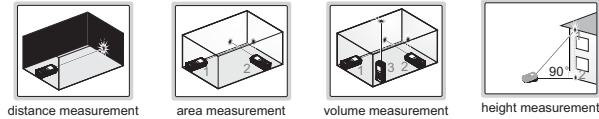
Main unit	1 pc
Transducer	1 pc
Couplant	1 bottle
Battery (AAA)	2 pcs

**SPECIFICATION**

List Price (₹)	38114	
Promotion Price (₹)	24631	
Measuring range	0.8~300mm	
Resolution	0.01mm (range<100mm) 0.1mm (range≥100mm)	
Accuracy	±0.04mm (range<10mm) ±(0.04+H/1000)mm (range 10~100mm) ±H/333mm (range≥100mm) H is the thickness to be measured in mm	
Transducer	frequency	5MHz
	diameter (Ød)	10.8mm
Minimum size of pipe for measurement	20×1.2mm (diameter × wall thickness)	
Applicable temperature	<60°C	
Velocity	1000-9999m/s	
Power supply	2×AAA batteries	
Dimension	114×64×28mm	
Weight	200g	

## LASER DISTANCE METER

- ▶ Large display with backlight
- ▶ Unit: m, ft, in
- ▶ Distance, area, volume and height measurement
- ▶ Continuous measuring mode to track maximum and minimum value
- ▶ Memory of 99 measurement values
- ▶ Automatic power off: laser 20s, main unit 150s



### SPECIFICATION

Code	9561-40	9561-80
List Price (₹)	5561	7077
Promotion Price (₹)	5005	5865
Measuring range	0.05~40m	0.05~80m
Accuracy	±3mm	
Resolution	1mm, 10mm, 0.1", 0.01ft	
Measuring speed	0.5 second	
Laser type	635nm, Class II, <1mW	
Power supply	3xAAA batteries, for 4000 measurements	
Dimension (L×W×H)	120x60x28mm	
Weight	175g	

### STANDARD DELIVERY

Main unit	1 pc
Battery (AAA)	3 pcs

## DIGITAL ANEMOMETER CODE 9331-40

DATA OUTPUT



software (included), display measurement values and graph, save and output data

- ▶ Measure velocity, flow, temperature and relative humidity
- ▶ Velocity unit: m/s, km/h, mil/h, ft/m, ft/s, knots
- ▶ Flow unit: CMS (cubic meter per second), CMM (cubic meter per minute), CFM (cubic feet per minute)
- ▶ Temperature type: ambient, dew point, wet bulb
- ▶ Maximum and minimum modes
- ▶ Automatic power off



### SPECIFICATION

List Price (₹)	6398	
Promotion Price (₹)	5820	
Measuring range	velocity	0.8~30m/s, 1.4~108km/h, 0.9~67.2mil/h, 1.3~98.5ft/s, 78~5900ft/m, 0.8~58.3knots
	flow	0~9999CMS, 0~99990CMM, 0~99990CFM
	temperature	-20~60°C/-4~140°F
Accuracy	relative humidity	0~100%RH
	velocity	±(2%+0.5) for m/s, km/h, mil/h, ft/s, knots ±(2%+50) for ft/m
	temperature	±1.5°C/±2.7°F
Resolution	relative humidity	±3% (20~80%RH), ±5% (<20%RH or >80%RH)
	velocity	0.01m/s, 0.01km/h, 0.01mil/h, 0.01ft/s, 1ft/m, 0.01knots
	flow	0.01CMS, 0.1CMM, 0.1CFM
Resolution	temperature	0.1°C/0.1°F
	relative humidity	0.1%RH
	Flowing area range	0~9.999m²/0~9.999ft²
Sampling time	0.4s	
Maximum working height	2000m	
Output	USB	
Power supply	9V battery	
Dimension	165×85×38mm	
Weight	200g	



software CD (included)

### STANDARD DELIVERY

Main unit	1 pc
USB cable and software	1 pc
9V battery	1 pc

## INFRARED THERMOMETER CODE 9120-550



- ▶ With maximum reading
- ▶ Low and high limits with judgement
- ▶ Automatic power off

### SPECIFICATION

List Price (₹)	3618
Promotion Price (₹)	2945
Measuring range	-30~550°C/-22~1022°F
Accuracy	-30~0°C (-22~32°F): ±3°C 0~550°C (32~1022°F): ±(1.5%+2°C)
Resolution	0.1°C/0.1°F
Distance to spot ratio (D:S)	12:1
Emissivity	0.1~1 (adjustable)
Laser type	630~670nm, Class II, <1mW
Response time	<0.5s
Power supply	2×1.5V AAA batteries
Dimension	155×110×45mm
Weight	126g (without batteries)

### STANDARD DELIVERY

Main unit	1 pc
1.5V AAA battery	2 pcs

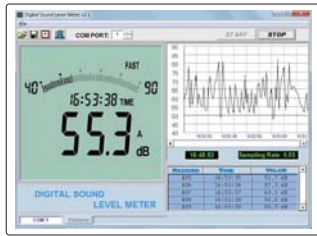


**DIGITAL SOUND LEVEL METER**  
CODE 9351-130

DATA  
OUTPUT



software CD (included)



software (included), display measurement values and graph, save and output data



- ▶ Automatically select best range: 30~80dB, 40~90dB, 50~100dB, 60~110dB, 70~120dB, 80~130dB
- ▶ Over range indicator
- ▶ Real time, average, maximum modes
- ▶ Memory 16000 measurement values
- ▶ AC signal output: 0.707 Vrms at FS, impedance approx. 600Ω
- ▶ DC signal output: 10mV/dB, impedance approx. 100Ω
- ▶ Automatic power off

**SPECIFICATION**

List Price (₹)	9580
Promotion Price (₹)	8715
Measuring range	30~130dB
Accuracy	±2dB
Resolution	0.1dB
Sampling time	0.5s for digital, 0.05s for analogue
Response time	fast: 125ms, slow: 1s
Frequency	30Hz~8KHz
Frequency weighting	A/C
Microphone	electret condenser type
Output	RS232, AC/DC
Power supply	6xAAA batteries
Dimension	265x80x69mm
Weight	317g

**STANDARD DELIVERY**

Main unit	1 pc
RS232 cable and software	1 pc
Output connector	1 pc
Battery (AAA)	6 pcs

**NON-CONTACT DIGITAL TACHOMETER**  
CODE 9221-999

- ▶ Maximum and minimum modes
- ▶ Memory 100 measurement values
- ▶ Automatic power off

reflection sticker (included)



**SPECIFICATION**

List Price (₹)	4023
Promotion Price (₹)	3429
Measuring range	50~99999RPM
Accuracy	±(0.03%+2) RPM
Resolution	0.01RPM (range 50~99.99RPM)
	0.1RPM (range 100~999.9RPM)
	1RPM (range 10000~99999RPM)
Measuring distance	50~250mm
Power supply	4xAAA batteries
Dimension	155x60x27mm
Weight	118g

**STANDARD DELIVERY**

Main unit	1 pc
Reflection sticker	1 roll
Battery (AAA)	4 pcs

**PEN-TYPE DIGITAL MULTIMETER**  
CODE 9241-ML200

- ▶ Auto/manual ranging
- ▶ Maximum mode
- ▶ Data hold
- ▶ Non contact voltage
- ▶ Low battery display
- ▶ Auto power off
- ▶ Safety rating: CAT III 600V

**SPECIFICATION**

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V/600V	0.1mV/1mV/10mV/0.1V/1V	±(0.7%+2)
	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.8%+3)
AC Voltage	600V	1V	±(1.0%+3)
DC Current	20mA/200mA	10µA/0.1mA	±(1.5%+3)
AC Current	20mA/200mA	10µA/0.1mA	±(2.0%+3)
Resistance	200Ω	0.1Ω	±(1.0%+3)
	2kΩ/20kΩ/200kΩ/2MΩ	1Ω/10Ω/0.1kΩ/1kΩ	±(1.0%+1)
	20MΩ	10kΩ	±(1.0%+5)
NCV	>50V AC		
Logic level test	<1.5V (green LED on) 1.5~3.5V (green & red LED off) >3.5V (red LED on)		
Diode	open circuit voltage 1.5V		
Continuity buzzer	<60Ω		
Power supply	2x1.5V AAA batteries		



probe (included)



clips (included)

List Price (₹)	2314
Promotion Price (₹)	2125

**STANDARD DELIVERY**

Main unit	1 pc
Probe	1 pc
Clip	2 pcs
1.5V battery	2 pcs

**DIGITAL MULTIMETER  
CODE 9242-ML100**

- ▶ Data hold
- ▶ Display backlight
- ▶ Low battery display
- ▶ Safety rating: CAT II 600V



probes (included)



**SPECIFICATION**

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.5%+3)
	600V	1V	±(0.8%+5)
AC Voltage	200V/600V	0.1V/1V	±(1.2%+10)
DC Current	200µA/2mA	0.1µA/1µA	±(1.0%+3)
	20mA	10µA	±(1.0%+5)
	200mA	0.1mA	±(1.5%+5)
	10A	10mA	±(3.0%+10)
Resistance	200Ω	0.1Ω	±(0.8%+5)
	2kΩ/20kΩ/200kΩ	1Ω/10Ω/0.1kΩ	±(0.8%+2)
	2MΩ	1kΩ	±(1.0%+5)
Diode	open circuit voltage 3.0V		
Continuity buzzer	<70±30Ω		
Transistor hFE	measuring range 0~1000		
Power supply	1×9V 6F22/NEDA 1604 battery		

List Price (₹)	1282
Promotion Price (₹)	1177

**STANDARD DELIVERY**

Main unit	1 pc
Probe	2 pcs
9V battery	1 pc

**AC DIGITAL CLAMP METER  
CODE 9243-CA600**

- ▶ Auto/manual ranging
- ▶ Maximum mode
- ▶ Data hold
- ▶ Display backlight
- ▶ Work light
- ▶ Low battery display
- ▶ Auto power off
- ▶ Safety rating: CAT III 600V



probes (included)



**SPECIFICATION**

Function	Range	Resolution	Accuracy
DC Voltage	200mV/2V/20V/200V	0.1mV/1mV/10mV/0.1V	±(0.8%+2)
	600V	1V	±(1.0%+2)
AC Voltage	200mV	0.1mV	±(1.0%+10)
	2V/20V/200V	1mV/10mV/0.1V	±(1.0%+5)
	600V	1V	±(1.2%+5)
AC Current	2A(≤0.5A)	1mA	±(3.5%+20)
	2A	1mA	±(3.0%+10)
	20A	10mA	±(3.0%+10)
	200A	0.1A	±(2.5%+10)
	600A	1A	±(1.5%+5)
Resistance	200Ω/2kΩ/20kΩ/200kΩ/2MΩ	0.1Ω/1Ω/10Ω/0.1kΩ/1kΩ	±(1.2%+2)
	20MΩ	10kΩ	±(2.0%+5)
Diode	open circuit voltage 3.0V		
Continuity buzzer	<70±30Ω		
Power supply	1×9V 6F22/NEDA 1604 battery		

List Price (₹)	2563
Promotion Price (₹)	2353

**STANDARD DELIVERY**

Main unit	1 pc
Probe	2 pcs
1.5V battery	3 pcs

**PORTABLE REFRACTOMETER  
CODE ISQ-RM30**

SUITABLE FOR WATER  
BASED COOLANT

- ▶ Quickly measure the concentration of coolant
- ▶ Refer to the refraction factor of coolant, for example: the refraction factor of grinding emulsion is 2.1, the reading value is 6%, so the actual concentration is (2.1×6%)=12.6%



**SPECIFICATION**

List Price (₹)	5730
Promotion Price (₹)	3764
Measuring range	0~32%
Graduation	0.2%
Dimension	27×40×160mm
Weight	175g

**CROSS-LINE LASER LEVEL  
CODE 4917-30**

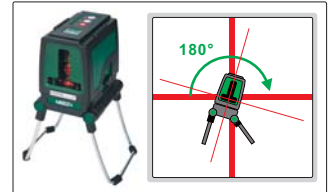
**IP54  
WATERPROOF**

**"OUT OF ±3°" AUDIBLE  
AND VISUAL WARNING**

- ▶ Red horizontal and vertical cross laser lines
- ▶ Self-leveling within ±3°, self-leveling time within 4s, "out of ±3°" audible and visual warning
- ▶ Folding legs for angle and height adjustment



folding legs for angle and height adjustment



**SPECIFICATION**

List Price (₹)	6693
Promotion Price (₹)	5852
Laser line width	2±0.5mm/5m
Laser type	630~660nm, class II, <1mW
Beam angle	120±0.5°
Self-leveling range	±3°
Working distance	indoor: 30m, outdoor: 50m with detector (optional)
Accuracy	0.2mm/m
Operation temperature	-10~40°C
Power supply	3×AA batteries, for 3 hours continuous operation
Dimension	100×82×104mm
Weight	620g

**STANDARD DELIVERY**

Main unit	1 pc
1/4" to 5/8" tripod adaptor	1 pc
Battery (AA)	3 pcs

application examples



**OPTIONAL ACCESSORY**

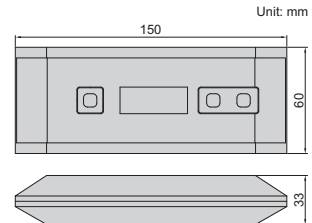
Outdoor detector	4917-DETECTOR
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**DIGITAL LEVEL AND PROTRACTOR**

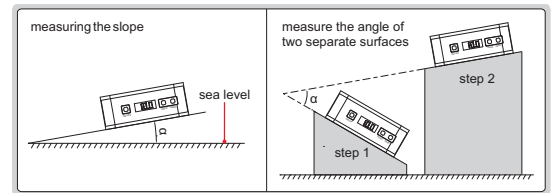
- ▶ Aluminum frame
- ▶ Used as level and slope meter to measure the angle of two separate surfaces
- ▶ Magnetic bottom with V-groove for shafts
- ▶ Zero setting can be made on any plain surfaces
- ▶ Buttons: ON/OFF, ZERO, HOLD (keep the reading)
- ▶ CR2032 battery, automatic power off



2173-360



Code	Range	Resolution	Accuracy	List Price (₹)	Promotion Price (₹)
2173-360	0-360° (90°x4)	0.1° (=1.745 mm/m)	at 0° and 90°: ±0.1°, others: ±0.2°	6015	3855



**DIGITAL LEVEL AND SLOPE METER**

**WORKING TEMPERATURE:**  
-5°C~50°C

**DISPLAY FLIPS OVER WHEN  
THE BOTTOM FACES UP**

**ABSOLUTE  
LEVEL**

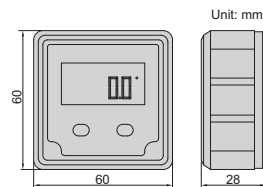
**MAGNETIC  
BOTTOM**

**BACKLIGHT**

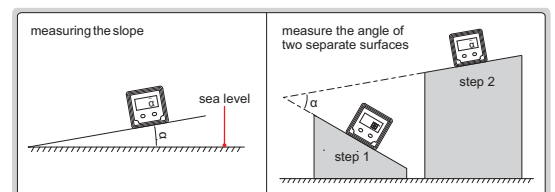
- ▶ Can be used as level and slope meter, measure the angle of two separate surfaces
- ▶ Aluminum frame
- ▶ Magnetic bottom
- ▶ The display flips over when the bottom faces up
- ▶ The backlight is on automatically when in use, and automatically off in 15 minutes after use
- ▶ The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- ▶ Buttons: ON/OFF, ZERO, absolute and incremental measurement
- ▶ One AAA battery, automatic power off in 5 minutes



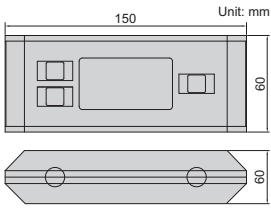
2170-1



Code	Range	Resolution	Accuracy	List Price (₹)	Promotion Price (₹)
2170-1	4x90°	0.1° (=1.745 mm/m)	at 0° and 90°: ±0.1°, others: ±0.2°	2692	1865



## DIGITAL LEVEL AND PROTRACTOR



2179-360

- ▶ IP54 dust/waterproof
- ▶ Used as level and slope meter to measure the angle of two separate surfaces
- ▶ Aluminum frame
- ▶ Magnetic bottom with V-groove for plane and cylinder
- ▶ The sea level is permanently set inside the chip, zero setting is not needed when battery is replaced
- ▶ Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit (mm/m, %, in/ft), conversion, backlight
- ▶ Two AAA batteries, automatic power off

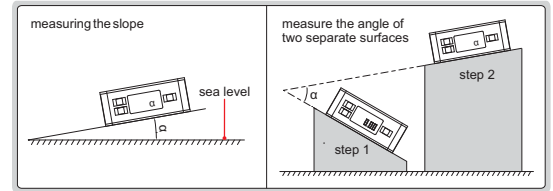
**IP54**  
WATERPROOF

**ABSOLUTE**  
LEVEL

**BACKLIGHT**

**WORKING TEMPERATURE**  
-5°C ~ 50°C

**BUZZER ALARM**  
AT 0° AND 90°



Code	Range	Resolution	Accuracy	List Price (₹)	Promotion Price (₹)
2179-360	0-360° (90°x4)	0.05° (=0.873 mm/m)	at 0° and 90°: ±0.1°, others: ±0.2°	6391	4242

## DIGITAL LEVELS AND SLOPE METERS

**ABSOLUTE**  
LEVEL

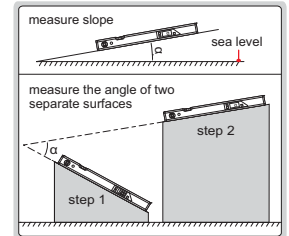
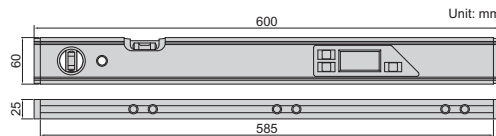
**BACKLIGHT**

**WORKING TEMPERATURE**  
0°C ~ 50°C



4910-600

- ▶ With transverse and longitudinal vials
- ▶ Used as level and slope meter to measure the angle of two separate surfaces
- ▶ Aluminum frame, magnetic bottom
- ▶ The sea level is permanently set inside the chip, zero setting is not needed when batteries are replaced
- ▶ Buttons: ON/OFF, absolute and incremental measurement, keep the reading, buzzer alarm, unit (mm/m, %, in/ft), conversion, backlight
- ▶ The display flips over when the bottom faces up
- ▶ Two AAA batteries, automatic power off



Code	Range	Resolution	Accuracy	Remark	List Price (₹)	Promotion Price (₹)
4910-600	0-360° (90°x4)	at 0° and 90°: 0.05° (=0.8725mm/m); at others : 0.1° (=1.745mm/m)	at 0° and 90°: ±0.1°; at others: ±0.2°	at 0° and 90° buzzer alarm	5376	3976

## CAST ALUMINUM LEVEL

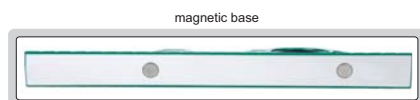
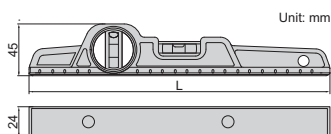
**VIALS MADE IN ISRAEL**  
LIFETIME WARRANTY

**MAGNETIC**  
BASE



4913-250

- ▶ Shockproof horizontal and vertical vials
- ▶ Magnetic base
- ▶ Working temperature: -15°C~55°C
- ▶ Cast aluminum body



Code	Size (L)	Accuracy	List Price (₹)	Promotion Price (₹)
4913-250	250mm	0.5mm/m	774	711

## PORTABLE LEVEL

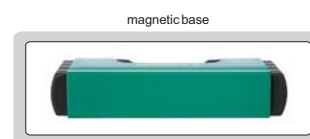
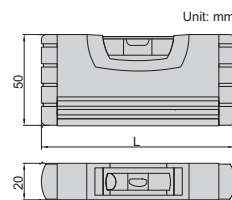
**VIALS MADE IN ISRAEL**  
LIFETIME WARRANTY

**MAGNETIC**  
BASE

- ▶ Shockproof vials
- ▶ Magnetic base
- ▶ Shock absorbing rubber end caps
- ▶ Working temperature: -15°C~55°C



4912-100



Code	Size (L)	Accuracy	List Price (₹)	Promotion Price (₹)
4912-100	100mm	0.5mm/m	455	417

ALUMINUM LEVELS

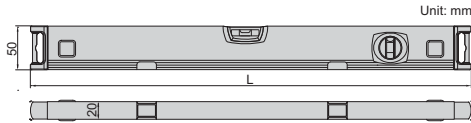
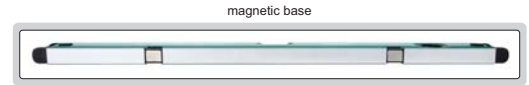
VIALS MADE IN ISRAEL  
LIFETIME WARRANTY

MAGNETIC  
BASE

- ▶ Shockproof horizontal and vertical vials
- ▶ Magnetic base
- ▶ Shock absorbing rubber end caps
- ▶ Working temperature: -15°C~55°C



4914-600



Code	Size (L)	Accuracy	List Price (₹)	Promotion Price (₹)
4914-300	300mm	0.5mm/m	851	759
4914-600	600mm	0.5mm/m	1096	1007
4914-1000	1000mm	0.5mm/m	1568	1440

PORTABLE LEEB HARDNESS TESTER  
CODE ISH-PHB

INSPECTION  
CERTIFICATE

- ▶ Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- ▶ Memory of 99 measurement values for browsing
- ▶ Set measurement times (1~9) to have average value
- ▶ Connected with printer via bluetooth
- ▶ Automatic power off
- ▶ According to ASTM A 956



SPECIFICATION

List Price (₹)	50703
Promotion Price (₹)	33551
Min. reading	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa
Accuracy	±6HLD (when HLD=800)
Display	Leeb (HLD), converted hardness, material, impact direction, test times, average value, date
Output	bluetooth
Applicable workpiece	minimum weight
	5kg
	2kg (on solid support)
	0.1kg (coupled on plate)
minimum thickness:	5mm
minimum radius of curved surface:	30mm
maximum roughness (Ra):	1.6µm
Power supply	3×AAA batteries
Dimension	150×84×28mm
Weight	200g

STANDARD DELIVERY

Main unit	1 pc
Impact device D	1 pc
Hardness test block D	1 pc
Small support ring	1 pc
Cleaning brush	1 pc



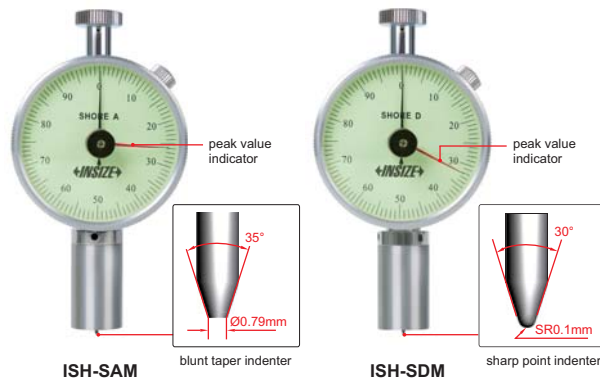
OPTIONAL ACCESSORY

Wireless printer	ISH-DS-PRINTER
Couplant	ISH-COUPPLANT
Support rings	see details
Hardness test block D	ISH-BHLD



SHORE DUROMETERS

- ▶ According to ISO868, ISO7619, ASTM D 2240
- ▶ With peak value indicator
- ▶ Optional accessory: test stand ISH-STAC and ISH-STD



SPECIFICATION

Code	ISH-SAM	ISH-SDM
List Price (₹)	8330	14620
Promotion Price (₹)	6260	10668
Scale	Shore A	Shore D
Application	natural rubber, soft elastomer, etc.	hard rubber, plastic, hard elastomer, etc.
Measuring range*	10~90HA	20~90HD
Graduation	1HA	1HD
Indenter protrusion	2.5mm	
Dimension	115x60x25mm	
Weight	160g	

\*Use ISH-SDM when measuring result is higher than 90HA  
Use ISH-SAM when measuring result is lower than 20HD

**PORTABLE LEEB HARDNESS TESTER (BASIC MODEL)  
CODE ISHL-P200**

WITH BUILT-IN  
PRINTER

DATA  
OUTPUT

- ▶ Supplied with impact device D and built-in printer
- ▶ Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- ▶ Set test times (1~32) to have average value
- ▶ Memory of 100 test values for browsing, print and output
- ▶ Low and high limits with judgement
- ▶ Automatic power off



**SPECIFICATION**

<b>List Price (₹)</b>	48544	
<b>Promotion Price (₹)</b>	42508	
<b>Min. reading</b>	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
<b>Accuracy</b>	±8HLD (when HLD=760±30)	
<b>Display</b>	Leeb, conversion hardness, material, impact direction, test times, average value, time	
<b>Applicable workpiece</b>	minimum weight	5kg
		2kg (on solid support)
		0.1kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 1.6µm	
<b>Power supply</b>	built-in rechargeable battery	
<b>Dimension</b>	198×82×30mm	
<b>Weight</b>	320g	

**STANDARD DELIVERY**

<b>Main unit with printer</b>	1 pc
<b>Impact device D</b>	1 pc
<b>Hardness test block D</b>	1 pc
<b>Printer paper</b>	1 pc
<b>Small support ring</b>	1 pc
<b>Cleaning brush</b>	1 pc
<b>USB cable and software</b>	1 pc
<b>AC/DC adapter</b>	1 pc



**OPTIONAL ACCESSORY**

<b>Couplant</b>	<b>ISH-COUPPLANT</b>
<b>Hardness test block D</b>	<b>ISHL-P100-BLOCK</b>
<b>Printer paper</b>	<b>ISHL-P200-PAPER</b>
<b>Support rings</b>	see details



**PORTABLE HARDNESS TESTER (BASIC MODEL)  
CODE ISHL-P100**

- ▶ Supplied with impact device D
- ▶ Based on Leeb (HLD), converted to Vickers (HV), Brinell (HB), Rockwell (HRC and HRB), Shore (HS) and tensile strength (MPa)
- ▶ Set test times (1~32) to have average value
- ▶ Memory of 100 test values for browsing
- ▶ Automatic power off

**SPECIFICATION**

<b>List Price (₹)</b>	41121	
<b>Promotion Price (₹)</b>	24866	
<b>Min. reading</b>	1HLD, 1HV, 1HB, 0.1HRC, 0.1HRB, 1HS, 1MPa	
<b>Accuracy</b>	±8HLD (when HLD=760±30)	
<b>Display</b>	Leeb, conversion hardness, material, impact direction, test times, average value, time	
<b>Applicable workpiece</b>	minimum weight	5kg
		2kg (on solid support)
		0.1kg (coupled on plate)
	minimum thickness: 5mm	
	minimum radius of curved surface: 30mm	
	maximum roughness (Ra): 1.6µm	
<b>Power supply</b>	3×AAA batteries	
<b>Dimension</b>	155×72×27mm	
<b>Weight</b>	280g	



**STANDARD DELIVERY**

<b>Main unit</b>	1 pc
<b>Impact device D</b>	1 pc
<b>Hardness test block D</b>	1 pc
<b>Small support ring</b>	1 pc
<b>Cleaning brush</b>	1 pc



**OPTIONAL ACCESSORY**

<b>Couplant</b>	<b>ISH-COUPPLANT</b>
<b>Hardness test block D</b>	<b>ISHL-P100-BLOCK</b>
<b>Support rings</b>	see details



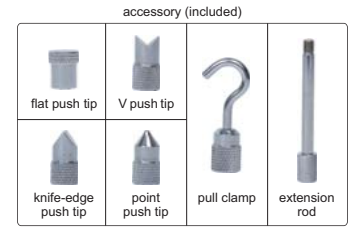
FORCE GAGES

TWO SCALES  
N & KGF

- Push and pull test
- Peak (max.) or tracking mode



ISF-F500



SPECIFICATION

Code	ISF-F10	ISF-F20	ISF-F30	ISF-F50	ISF-F100	ISF-F200	ISF-F300	ISF-F500	
List Price (₹)	10375	10375	10375	9057	9057	9057	9057	9057	
Promotion Price (₹)	7557	7557	7557	7557	7557	7557	7557	7557	
Capacity	N	10	20	30	50	100	200	300	500
	kgf	1	2	3	5	10	20	30	50
Graduation	N	0.05	0.1	0.2	0.25	0.5	1	2	2.5
Accuracy	±1% (of load capacity)								

STANDARD DELIVERY

Main unit	1 pc
Push tip	4 pcs (flat, V type, knife-edge, point)
Pull clamp	1 pc
Extension rod	1 pc

OPTIONAL ACCESSORY

Test stand	ISF-MT500
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TORQUE WRENCHES

ATTENTION: CLOCKWISE  
OPERATION ONLY



- According to DIN ISO 6789, ASME B107.300
- All-metal construction, sturdy and durable



square driver

IST-9WM335

torque value

SPECIFICATION

Code	IST-9WM20	IST-9WM30	IST-9WM60	IST-9WM100	IST-9WM125	IST-9WM200	IST-9WM335	IST-9WM500
List Price (₹)	6810	6356	6496	6735	7216	7234	7741	40459
Promotion Price (₹)	6073	5668	5793	6006	6435	6452	6903	36080
Range (clockwise)	4~20N.m	6~30N.m	10~60N.m	20~100N.m	25~125N.m	40~200N.m	65~335N.m	100~500N.m
Accuracy	±6% (<10N.m) ±4% (≥10N.m)	±6% (<10N.m) ±4% (≥10N.m)	±4%	±4%	±4%	±4%	±4%	±4%
Graduation	0.1N.m	0.2N.m	0.5N.m	0.5N.m	0.5N.m	1N.m	1N.m	2.5N.m
Square driver (D)	1/4"	3/8"	3/8"	1/2"	1/2"	1/2"	1/2"	3/4"
Length	290mm	318mm	388mm	443mm	443mm	468mm	528mm	855mm
Weight	680g	820g	960g	1040g	1040g	1160g	1300g	5000g

DIAL TORQUE WRENCHES

ACCURACY ±3%



- Clockwise and counter-clockwise operation
- According to DIN ISO 6789, ASME B107.300

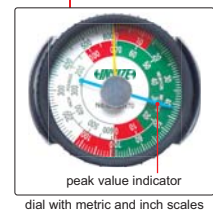


square driver

IST-DW70

SPECIFICATION

Code	IST-DW3D5	IST-DW9	IST-DW18	IST-DW35	IST-DW70	IST-DW140	IST-DW240	IST-DW350
List Price (₹)	10526	10526	10886	10886	12170	13992	13992	13992
Promotion Price (₹)	9711	9711	10042	10042	11226	12907	12907	12907
Range	0.7~3.5N.m 6~30in.lb	1.8~9N.m 15~75in.lb	3.6~18N.m 30~150in.lb	7~35N.m 60~300in.lb	14~70N.m 120~600in.lb	28~140N.m 20~100ft.lb	48~240N.m 35~175ft.lb	70~350N.m 50~250ft.lb
Accuracy	±3%	±3%	±3%	±3%	±3%	±3%	±3%	±3%
Graduation	0.05N.m 0.5in.lb	0.1N.m 1in.lb	0.2N.m 2in.lb	0.5N.m 5in.lb	1N.m 10in.lb	2N.m 1ft.lb	3N.m 2.5ft.lb	2.5N.m 2.5ft.lb
Square driver (D)	1/4"	1/4"	3/8"	3/8"	3/8"	1/2"	1/2"	1/2"
Length	254mm	254mm	254mm	254mm	378mm	546mm	546mm	546mm
Weight	480g	480g	480g	480g	820g	1300g	1300g	1300g



peak value indicator  
dial with metric and inch scales

**SALES**

- **INSIZE** is our standard quality and made in Asia – Korea, China, Taiwan etc.
- **INSIZE PLUS** is our premium quality and mainly made in Germany, UK and Italy.
- Some products marked with 'Basic model' are only for basic use.
- **Quality Warranty** – 12 months, against manufacturing defect. Repair or replacement will be at the discretion of the manufacturer.
- For verification of genuineness refer bar code sticker on the box.
- Manufacturer inspection certificates traceable to DKD Germany or NIST USA are provided with instruments marked in asterisk.

**SERVICE**

- Mobile App: scan QR code to download mobile App to view online stock and price on mobile.
- Refer to Website <http://www.insizeindia.in> for Indiamart promotion.

**SPARES**

- Many spares will be available ex-stock.

**REPAIRS**

- Online help will be provided to repair the instrument yourself. Or you can either return the instrument to us at Ahmedabad or to the dealer along with the invoice on paid basis for faster process. Not necessary to approach our dealer for repairs.

**CALIBRATION**

- Ask for NABL calibration from our Dealers at extra but economical rates.

**DEMO & TECHNICAL ASSISTANCE**

- Demo will be provided at our showroom in Ahmedabad and at exhibitions in your city. Refer our website <http://www.insize.in/exhibition.php>, to know about our participation in your city.
- We provide "Custom Made Calipers". Please provide drawings.



Download mobile App for **ONLINE STOCK** and **PRICE** from:  
<http://insize.in/insizeapp/apk/insize.apk>



Watch operation videos at  
<http://www.insize.com/support.php>



**INSIZE (INDIA)**

B - 14, GF, Jayraj Complex, Opp. Bank of Baroda Soni Ni Chawl, Odhav, Ahmedabad-382415 Gujarat, India.

**INSIZE CALIBRATION SERVICES**



CERTIFICATE NO. CC-2897

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Odhav, Ahmedabad - 382415.

M.: 9624899973  
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Application Index	<a href="http://www.insize.in/products/app.php">http://www.insize.in/products/app.php</a>
Operation Manual	<a href="http://www.insize.com/login1.php">http://www.insize.com/login1.php</a>
Operation Video	<a href="http://www.insize.in/support.php">http://www.insize.in/support.php</a>
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