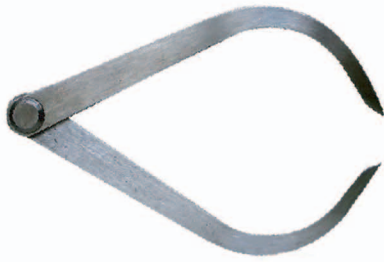


Outside Calipers



CODE	Size mm	CODE	Size mm
650101	100	650107	350
650102	125	650108	400
650103	150	650109	450
650104	200	650110	600
650105	250	650111	750
650106	300	650112	1000

One-side Calipers

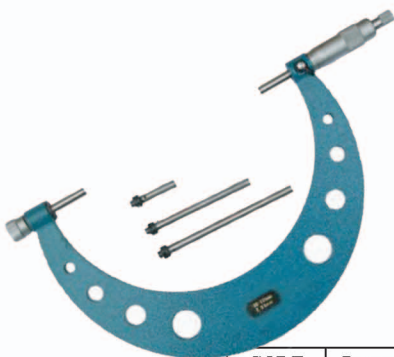
For measuring the thickness of the walls of pipes or valves, etc.



CODE	Size mm	CODE	Size mm
650201	100	650204	200
650202	125	650205	250
650203	150	650206	300

Outside Micrometers with Interchangeable Anvils

Each micrometer is equipped with a series of interchangeable anvils. Each anvil is marked to show its capacity and is fitted with an adjustable collar to prevent wear. Graduated in 0.01mm increments.



CODE	Range mm
650381	0-100
650382	0-150
650383	150-300

Spring Outside Calipers

For the outside measurement of threads. The tips are specially shaped to fit suitably to the threads.



CODE	Size mm	CODE	Size mm
650121	100	650124	200
650122	125	650125	250
650123	150	650126	300

Spring Inside Calipers



CODE	Size mm	CODE	Size mm
650171	100	650174	200
650172	125	650175	250
650173	150	650176	300

Steel Compasses

Made of hardened steel with points that are extra hard tempered for scribing circles on iron plates.



CODE	Size mm	CODE	Size mm
650211	75	650219	400
650212	100	650220	450
650213	125	650221	500
650214	150	650222	600
650215	200	650223	750
650216	250	650224	900
650217	300	650225	1000
650218	350	650226	1200

Outside Micrometers

Graduated in 0.01mm increments with standard measurement sizes from 25mm to 500mm.



CODE	Range mm	CODE	Range mm
650301	0-25	650311	250-257
650302	25-50	650312	275-300
650303	50-75	650313	300-325
650304	75-100	650314	325-350
650305	100-125	650315	350-375
650306	125-150	650316	375-400
650307	150-175	650317	400-425
650308	175-200	650318	425-450
650309	200-225	650319	450-475
650310	225-250	650320	475-500

Outside Micrometers with Counter

A numeral counter indicates sizes simultaneously as the measurements are being taken



CODE	Range mm	CODE	Range mm
650341	0-25	650351	250-275
650342	25-50	650352	275-300
650343	50-75	650353	300-325
650344	75-100	650354	325-350
650345	100-125	650355	350-375
650346	125-150	650356	375-400
650347	150-175	650357	400-425
650348	175-200	650358	425-450
650349	200-225	650359	450-475
650350	225-250	650360	475-500

Tubular Type Inside Micrometers

The measuring anvils are ground to a radius to be used on either flat or curved surfaces. Graduated in 0.01 mm increments



CODE	Range mm	CODE	Range mm
650401	50-63	650411	275-300
650402	50-75	650412	300-325
650403	75-100	650413	325-350
650404	100-125	650414	350-375
650405	125-150	650415	375-400
650406	150-175	650416	400-425
650407	175-200	650417	425-450
650408	200-225	650418	450-475
650409	225-250	650419	475-500
650410	250-275		

Jointed Inside Micrometers

Each set of the anvils for the jointed inside micrometers is adjusted to suit the particular micrometer. Each is given a mark and must not be used on any other micrometer. When assembling, Clean the jointing face perfectly. Graduated in 0.01 mm increments

CODE	Range mm
650441	50-150
650442	50-400
650444	50-1000



Depth Micrometers

Measures the depth of holes, projections, etc. Provided with a hardened tip and threaded ground screw, adjustable for water



CODE	Range mm	Base Size mm
650471	0-25	65.3×16
650472	0-25	101.6×16

Depth Micrometers

with Slidable Rod

Basically the same instrument as the depth micrometer but with a graduated sliding rod. The base length for all micrometers is 120mm.

CODE	Range mm	CODE	Range mm
650476	0-200	650478	0-300
650477	0-250		

Vernier Calipers

Made of high grade stainless steel with a stain chrome finish.

CODE	Length mm	Graduation	CODE	Length mm	Graduation
In Metric			In Metric & Inch		
650501	100	0.05	650511	150-6	0.05-0.001
650502	150	0.05	650512	200-8	0.05-0.001
650503	200	0.05	650513	300-12	0.05-0.001
650504	300	0.05			
650505	450	0.05			
650506	500	0.05			
650507	600	0.05			
650508	1000	0.05			

Digital Calipers

Length	150mm
Graduation	0.01mm
Display	5 Digit LCD
Max. Response Speed	1000mm/sec
Power Source	Dry Battery SR44 One Year Life Time

650521	Digital caliper, 150mm	Pc.
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A compact easy to use caliper graduated in 0.01mm increments.

Liberty Marine
& Industrial Supplies

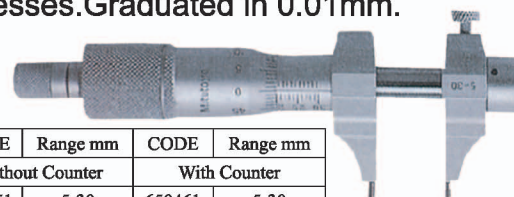


Internal Groove

Micrometers

Inside Micrometers Calibers

This caliper type jaw facilitates quick reading for internal grooves of all types including "O" rings, seals, oil grooves, washer grooves as well as bores and recesses. Graduated in 0.01mm.



CODE	Range mm	CODE	Range mm
Without Counter		With Counter	
650451	5-30	650461	5-30
650452	25-50	650462	25-50
650453	50-75		
650454	75-100		
650455	100-125		
650456	125-150		

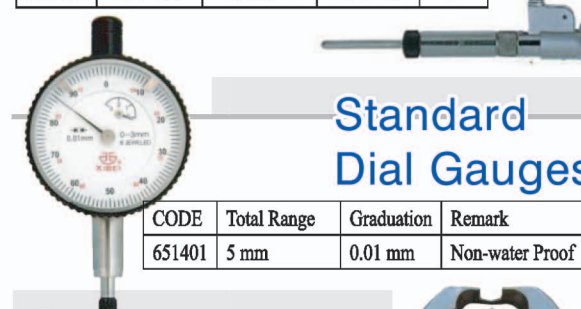
Salinometers



CODE	Material	FOR	graduation
651384	Brass	Sea water	1000-1040

Cylinder Gauges

CODE	Measuring range	Graduation	Length of grip	No. of anvil
651411	18-35	0.01mm	100mm	9
651412	35-60	0.01mm	150mm	6
651413	50-100	0.01mm	150mm	11
651414	100-160	0.01mm	150mm	13
651415	160-250	0.01mm	250mm	6
651416	250-400	0.01mm	250mm	5



Standard Dial Gauges

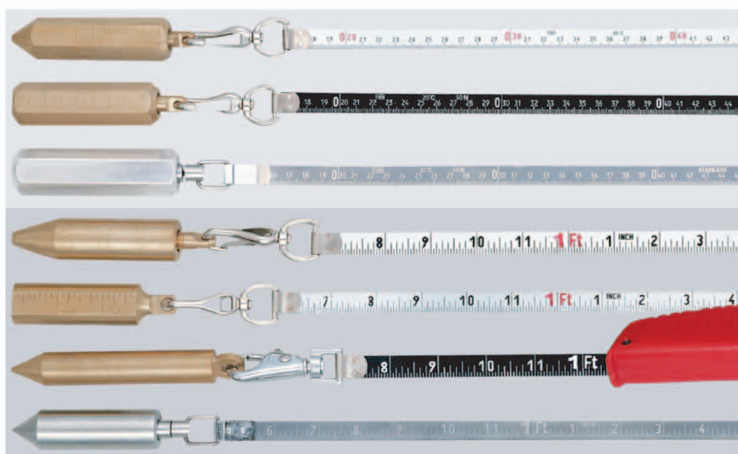
CODE	Total Range	Graduation	Remark
651401	5 mm	0.01 mm	Non-water Proof

Gauge Point Puller

651551	Gauge pointer puller	Pc.
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Oil Gauging Tape



Steel				S.Steel	
White Tape		Black Tape		Metric	
Metric		Metric			
650851	15m	650861	15m	650871	15m
650852	20m	650862	20m	650872	20m
650853	30m	650863	30m	650873	30m
Metric & Inch		Metric & inch		Metric & inch	
650856	15m/50'	650866	15m/50'	650876	15m/50'
650857	20m/66'	650867	20m/66'	650877	20m/66'
650858	30m/100'	650868	30m/100'	650878	30m/100'



Made of steel or stainless steel with a chromed brass drawing weight attached .

The tapes are mounted to a strong frame with a wooden carrying handle.

Water-Finding Paste Gasoline & Oil Finding Paste



650890	Water finding paste, 75 gm	Tube
650891	Gasoline and oil finding paste, 75gm	Tube

Seawater Hydrometer

A glass instrument for measuring the density and saturation of salt in seawater.



CODE	Graduation	Length
651343	1000-1040	200mm
651344	1000-1040	250mm

Sampling Bottles



Mouth Collecting Type			Bottom Collecting Type		
CODE	Material	Capacity	CODE	Material	Capacity
651371	Brass	500 cc	651375	Brass	500 cc
651372	Brass	1000 cc	651376	Brass	1000 cc
651373	S.Steel	500 cc	651377	S.Steel	500 cc
651374	S.Steel	1000 cc	651378	S.Steel	1000 cc

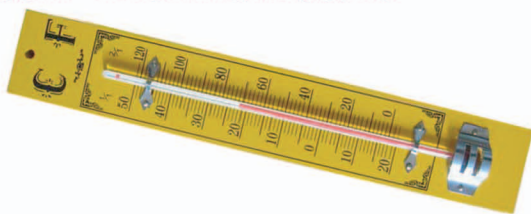
MAX--MIN Thermo- meters



651706	Thermomter, maximum-minimum, U-shape with magnet -20°C to +50°C
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Cabin Thermometers



651701	Cabin thermomter -30°C to 50°C	250mm
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Seawater Thermometers



651710	Themomter,seawater, copper cased -20°C to +50°C
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Tank Thermometers



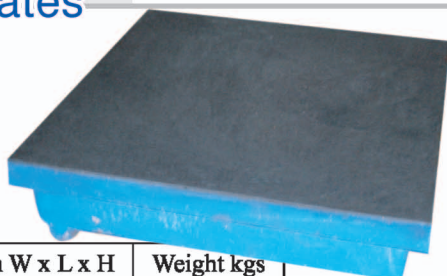
651742	Tank Thermometer in brass case with sampler -10°C to 100°C, 265mm	pc
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Industrial Thermometers



Type	Casing Size (W x L)mm	Thread	Immersion(Stem) Tube Diam.mm
271B	200 x 36	PT(R)	10
291B	150 x 36	3/8", 1/2"	
174B	110 x 30	or 3/4"	

Surface Plates



CODE	Size mm W x L x H	Weight kgs
651025	300x300x50	16

Infrared-- Temperature Measurment Deceive



CODE	651802	651803	651806
Measuring Range	-32 to 400°C	-32 to 600°C	-30 to 900°C
Power Supply	9V block battery	9V block battery	2x1.5V battery 7.5V DC external power

Engine Peak Indicators

CODE	Pressure Range kgf/cm ²	Minimum Graduation kgf/cm ²	Accuracy	Dial Size mm
With Handle				
652631	0-100	5	±1.5%FS	60
652632	0-150	5	±1.5%FS	60



Crankshaft Distortion Dial Gauges

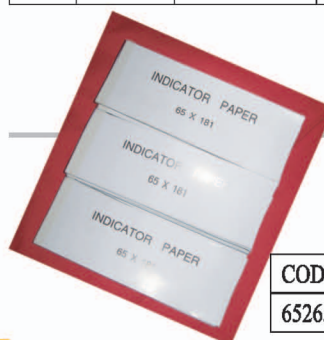
652670	Crankshaft distortion dial gauge,in 0.01mm graduation,100 to 500 mm	Pc.
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Inspection Mirrors

CODE	Mirror Size	Type	Overall Length
652701	22mmΦ	For use in tight & narrow space	255mm
652702	22mmΦ		
652703	50mmΦ	w/plastic handle	390mm
652704	50mmΦ	w/extension shaft	220-340mm
		w/flexible shaft	345mm



Indicator Paper



CODE	Type	Size
652654	M-2L Metallic white	65×181 mm