



splitting a micron
for you...



About KCP

Precision begins here...

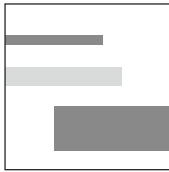
Being a precision instrument manufacturer we are aware that precision of all the engineered products in the market actually begins from us. And this sense of responsibility always makes us endeavor harder.

Since the budding stage of 1999 KCP is now a renowned, established and yet a growing Brand. From ISO 9001:2000 Certification to setting up a well equipped NABL accredited lab KCP has come a long way. Over the years, we have refined our processes and developed new techniques to produce high end quality products in competitive prices.

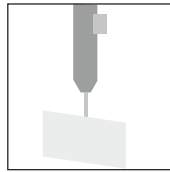
We have developed an excellent state-of-the-art manufacturing unit with a unique blend of latest computer assisted systems and craftsman's skills. Also we get the added advantage of our in-house NABL Accredited lab. This synergy together strikes the cord of Quality for KCP.



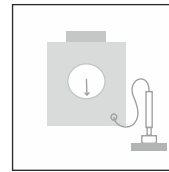
About Our Products



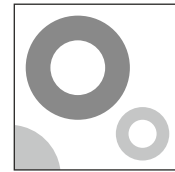
Length Standards



Calibration Equipments



Air Gauges



Limit Gauges

KCP has an array of high end products in the field of dimensional metrology.

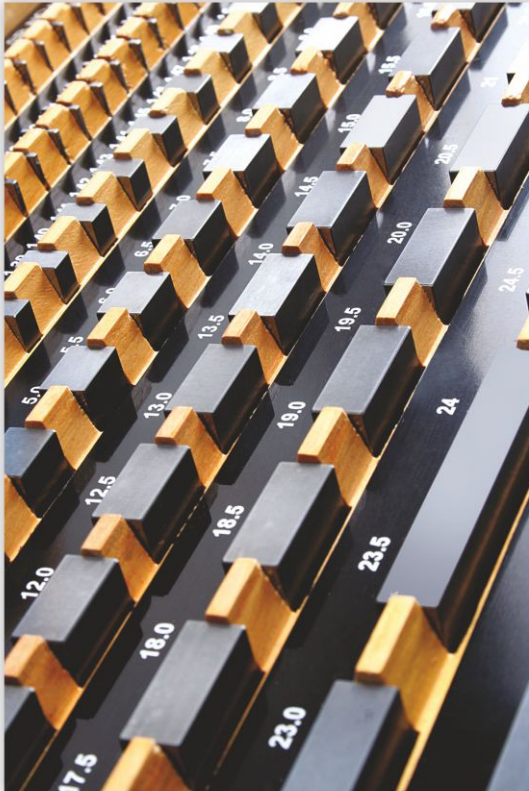
We have proficiency in making Carbide, Steel and Ceramic Gauges. Being a quality driven company we ensure that we give nothing but the best. Thereby our quality checks begin right from selection of raw material. Knowing its vitality in the quality of end product, we import it only from our globally reputed associations. We have also developed some special techniques to enhance the required characteristics of the material. Our gauges thus have strong dimensional stability and greater wear resistance. Our products have that extra superfinish which in turn leads to strong wringability.

We have specially designed softwares to assist in calibration of Gauge Blocks, making it quick and easy.

Our experience and expertise in the field has enabled us to offer customization of various special gauges to serve the unique requirements of our clients.

After years of constant quality service and new innovations, we have been able to set our own standards and we see to it that every product of ours stands to its class, which we call '**KCP class**'.

Gauge Blocks



- KCP caters wide range of Gauge Blocks covering all grades i.e. Grade 00, Grade K, Grade 0, Grade 1 & Grade 2 in line with IS/ISO/DIN/ BS Standards in Metric and Imperial.
- Our KCP class Gauge blocks are made from special grade of Tungsten Carbide / Alloy Steel / Ceramic that gives greater wear resistance, superior finish leading to strong wringability.
- Wear Protector and Gauge Blocks required for Calibration of Micrometer checker are also offered.
- Along with the standard sizes, Gauge Blocks are also made available in customized sizes. Individual Gauge Block is also available.

Type Of Metric Sets	No. Of Gauge Blocks	Type of Imperial Sets	No. Of Gauge Blocks
M122/1	122 Nos.	E 81	81 Nos.
M112/1	112 Nos.	E 41	41 Nos.
M103/1	103 Nos.	E36	36 Nos.
M88/1	88 Nos.	E9	9 Nos.
M47/1	47 Nos.	E2	2 Nos.
M46/1	46 Nos.		
M32/1	32 Nos.		
M9/1	9 Nos.		
M2/1	2 Nos.		
M2/2	2 Nos.		

* All Sets from Metric are also offered in 2 mm base size.

All our Length Standard products and accessories are delivered in quality wooden casing, appended with; Calibration Certificate traceable to National Standards and Instruction Manual on the use and care.

Material



Advantages of Ceramic Gauge Blocks

- Zero Corrosion
- Scratch Proof
- No Dent Burrs
- Dimensional Stability
- High Wringing Force
- Anti-magnetic Nature



Long Series Gauge Blocks



- Range available over 100 mm to 1000 mm in Grade K, Grade 0, Grade 1 & Grade 2 as per ISO 3650/DIN 861 standards.
- Manufactured from special grade of alloy steel, for greater wear resistance and for superior surface finish.
- Holes are provided at both ends of Gauge Blocks for combinations with the help of Gauge block clamp.
- Gauge Blocks are available in standard as well as customized sizes. Along with standard sets, individual Gauge Block is also available.

Type of set	Sizes in mm	Qty.
M 8	125, 150, 175, 200, 250, 300, 400 & 500	8 nos.
M 5	600, 700, 800, 900 & 1000	5 nos.

Material

▼

■ steel

▲

Length Bars

- Range available from 100 to 500 mm in 'Reference Grade', 'Calibration Grade', 'Inspection Grade' and 'Workshop Grade' as per IS: 7014 standard.
- Also available in Grade K, Grade 0, Grade 1 & Grade 2 in line with ISO: 3650/DIN 861 standards.
- Bars are offered in 22 mm and 12 mm diameter from range 25 to 500 mm in steps of 25 mm. Bars of 12 mm dia. can be used as Micrometer Setting Standards.
- Manufactured from same special alloy steel used for Gauge Blocks so as to achieve the finest properties.
- 'Calibration Grade', 'Inspection Grade' and 'Workshop Grade' are provided with internal threaded holes to both the ends for combinations with help of studs.
- 'Reference Grade' length bars are used as a master with plain ends for highest accuracy.



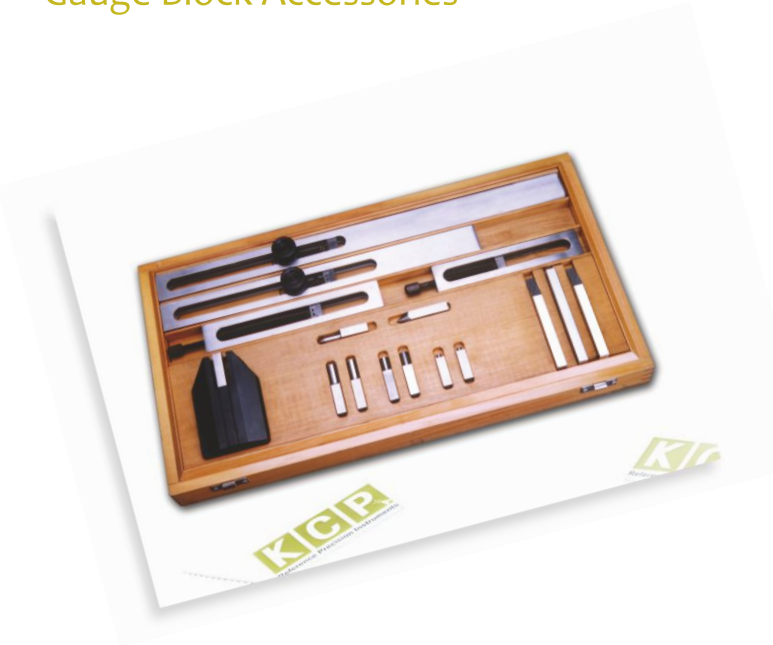
Material

▼

■ steel

▲

Gauge Block Accessories



- These accessories are designed to extend the applications of Gauge Blocks in production & inspection.
- In line with IS : 4440 standards
- Enables quick and easy assembly of equipments or gauges and saves repetitive expenditure on gauges.
- Ideal for -
 - ✓ Setting of internal & external measurement of gauges.
 - ✓ Setting of Bore Gauges
 - ✓ Height Marking
 - ✓ Accurate Graduation etc.
- All wearable parts are made of carbide.

Description	7 Pcs. Set	16 Pcs. Set
Base (Steel)	01	01
Tungsten Carbide Scriber	01	01
Tungsten Carbide Tipped Centre Point	-	01
Tungsten Carbide Large Measuring Jaw	02	02
Tungsten Carbide Parallel Measuring Jaw	-	01
Tungsten Carbide '2.5 mm' Radius Jaw	-	02
Tungsten Carbide '5 mm' Radius Jaw	-	02
Tungsten Carbide '6 mm' Radius Jaw	-	02
Holder (Steel) '0-50 mm'	01	01
Holder (Steel) '50-100 mm'	01	01
Holder (Steel) '100-200 mm'	01	01
Holder (Steel) '200-300 mm'	-	01

Angle Gauges

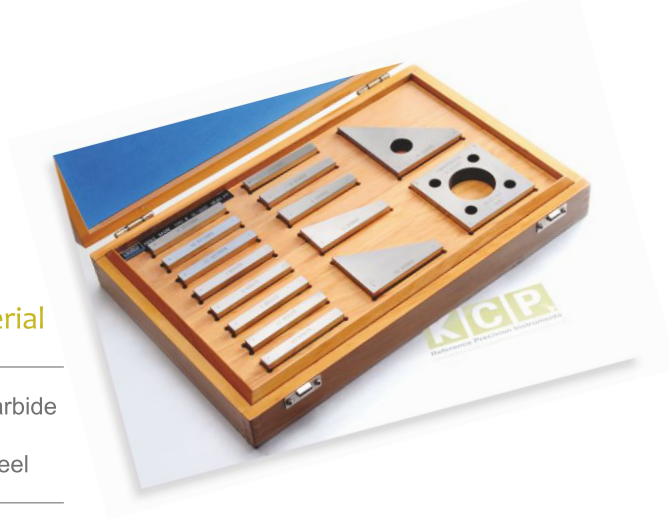
- Angle gauges are used for inspection and calibration of angles, tapers, indexing plates, rotary scale/table, dividing head, clinometers etc.
- Manufactured as per IS: 6231 of 1971.
- Offered in Standard and Non Standard angles. Special angles as per requirement are also provided.
- Available in set as well as individual angles.

Type of set	Sizes
Set A (13 Pieces Set)	1, 3, 9, 27 & 41 degrees (01 No. each) 1, 3, 9 & 27 minutes (01 No. each) 6, 18 & 30 seconds (01 No. each) Precision Square Block (01 No.)
Set B (15 Pieces Set)	1, 3, 5, 15, 30 & 45 degrees (01 No. each) 1, 3, 5, 20 & 30 minutes (01 No. each) 6, 12 & 30 seconds (01 No. each) Precision Square Block (01 No.)

* All figures in mm

Material

- carbide
- steel



Universal Length Measuring Machine (ULM)



- Universal length measuring machine with absolute high precision for high precision measurements.
- Slides with air bearings for precision rapid movements for measuring head and tail stocks.
- To minimize the effect of environment vibrations, an anti-vibration support is provided
- Deformation compensation automatically
- For X-axis, the machine has a high precision scale with an absolute range of 100 mm
- Temperature sensor with automatic correction capability
- The machine does not require lubrication in any part

Software Key Features

- Software compatible with Windows 10 and higher
- The software is capable of capturing data online during calibration
- The ability to apply corrections to displayed and recorded readings
- in order to compensate for errors resulting from the following factors
- Linear and nonlinear encoders and scale corrections
- Software installation Pendrive is supplied with the machine

Models	ULM 300 / ULM 300P, ULM 600 / ULM 600P, ULM 1000 / ULM 1000P
Base	Granite / Cast Iron
Resolution (switchable) - X axis	0.01µm, 0.1µm, 1µm
Repeatability: <ul style="list-style-type: none">• X-axis• Z-axis	0.05µm / 0.1µm 2.0µm
Measuring Uncertainty (µm)	$[0.25 + 0.2L \times 10^{-3}] \mu\text{m}$ where 'L' in mm
	$[0.25 + 0.5L \times 10^{-3}] \mu\text{m}$ where 'L' in mm

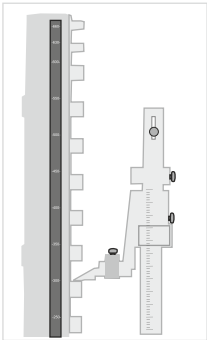
Calibration Certificate will be provided under NABL as per ISO/IEC 17025 by laser interferometric

Caliper Checker

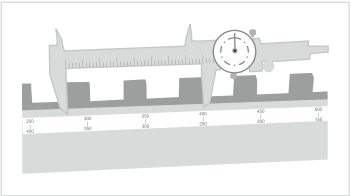


Material

▲	
■	carbide
■	steel
▲	



- Reliable for calibration of all types of Vernier Calipers and Vernier Height Gauges.
- Comprises of permanently wrung Gauge blocks made of KCP Class i.e. made of selected alloy steel and tungsten carbide giving high-grade super finish and greater wear resistance.



Range	External Measurement	Internal Measurement	Height Measurement	Accuracy (±)
300	360	300	360	0.003
600	660	600	660	0.005
1000	1060	1000	1060	0.007

* All figures in mm

Internal Micro Checker

- Just right for calibration and zero setting of Internal Micrometers up to 600 mm range.
- Comprises of permanently wrung Gauge blocks made of KCP class.

Range	Measuring Steps	Accuracy (±)
300	0,25,...300 step 25	0.003
600	0,25,...600 step 25	0.005

* All figures in mm

Material

▲	
■	carbide
■	steel
▲	



Depth Micro Checker



- Just right for calibration and zero setting of Depth Micrometers up to 300 mm range.
- Comprises of permanently wrung Gauge Blocks made of KCP Class.

Range	Measuring Steps	Accuracy (±)
150	0,25,...150 step 25	0.003
300	0,25,...300 step 25	0.005

* All figures in mm

Material

▼	
■	carbide
■	steel
▲	

Comparator Stand

- Manufactured in three types-
 - 1) **0-150** mm with fine adjustment
 - Mounting hole : \varnothing 8 mm, \varnothing 28 mm & \varnothing 30 mm
 - Work Table: \varnothing 60 mm Plain / Serrated in steel / carbide
 - 2) **0-200** mm and 3) **0-300** mm with Micro fine adjustment
 - Mounting hole : \varnothing 8 mm
 - Work Table: 60 x 60 x 6 mm in Plain / Serrated in steel / carbide
 - : 80 x 80 x 16 mm in Plain / Serrated available in steel
- Spare comparator base is also available in steel / carbide in following sizes -
 - \varnothing 60 x 6 mm (Plain / Serrated)
 - \varnothing 80 x 8 mm (Plain / Serrated)
 - 60 x 60 x 6 mm (Plain / Serrated)



Material

carbide

steel

Air Gauges

Our Air Gauges are indispensable tool for precision batch and mass production. Air gauges have many advantages viz. very high accuracy i.e. end of assumptions, no subjectivity, repeatability, ease of operation, self cleaning ability and very fast response time. Air gauge system is a non-contact gauging system and thereby it has longer life due to minimal frictional wear. Two setting masters ensure linearity online as well as magnification.


Air gauges are best suitable for inspection of inside, outside, average diameter, taper, ovality & face run-out with provision of 2 jets, 3 jets & 4 jets configurations to air probes. Air gauges are also suitable for checking relative dimension such as flatness, parallelism, center distance, squareness & concentricity.

Air Plug Gauge



- Range available from 3.0 mm to 150 mm in steel and from 6.0mm to 60 mm in carbide.
- Provided with pair of Master Setting Ring (higher & lower).
- Offered for Through bore, Blind bore, Stepped bores.
- Adjustable depth collar can be provided for checking specific height.
- Offered with 2, 3 & 4 measuring jets as per requirement.
- Also offered to suit different makes, as per requirement.

Material

▼
 carbide
 steel
▲

Air Ring Gauge

- Range available from 4.0 mm to 120 mm in steel.
- Range available from 4.0 mm to 60 mm in carbide.
- Provided with Master Setting Plug (higher & lower).
- Also offered to suit different makes, as per requirement.
- Offered with 2, 3 & 4 measuring jets as per requirement.

Material

▼
 carbide
 steel
▲



Air Snap gauge



- Range available from 10.0 mm to 150 mm with carbide resting pads.
- Provided with Master Setting Plug (higher & lower).
- Also offered to suit different makes, as per requirement.

Material

▀	
■	carbide
■	steel
▲	

Air Gauging Display Units

Display units of our Air Gauging Systems are available in 3 types-

- Analog Display Unit
- Electronic / Digital Display Unit
- Electronic Column Unit

Analog Display Unit

- Works on null balance pressure system
- Operating pressure: 43 psi-60 psi (3-4 bar)
- Available in two resolution
 - i) L.C. 0.0005 mm, Range: ± 0.02 mm
 - ii) L.C. 0.001 mm, Range: ± 0.04 mm



Digital Air Gauge Unit



Types

Single Channel

Two Channel

Specifications

- Resolution : 0.001, 0.0005, 0.0001, 0.005 mm
- Power Supply: 230V
- Scale Range :
Metric - 4μm, 40μm, 400μm, 4000μm
Imperial - 0.2, 2, 20, 200 (μ inch)
- RS232 interface for SPC spc analysis [SPCV3 software]
- 7 segment LED display

- Piezo technology based sensor
- Piezo channel operates in full differential mode of operation. This reduces errors caused due to temperature, electrical noise etc.
- Auto measurement on plug insertion
- Various expression modes available. Max-min, maximum, minimum, average, dynamic and static
- Selectable measurement mode Metric & Imperial
- There is a different color for the Accept, Reject, and Rework tolerance settings
- ID/OD Selection
- Internal storage of up to 25 measuring programs
- Buzzer sound when out of range
- Operates on 1.6 mm jet size
- The part counter
- password protection
- Display of absolute value or deviation
- Compact in size



Plain Plug Gauge



- Provides Plain Plug Gauges with GO member in carbide and NOGO in steel (NOGO member can be provided in carbide)
- Both GO & NOGO in steel is also available.
- Also supplied as per customer requirement for special length.
- Possess all the required characteristic properties of KCP Class.

Material



carbide

steel

Range in mm	5-8	8-40	40-60	60-350
Type	Reversible	Taper Shank	Tri Lock	Plate

Plain Ring Gauge

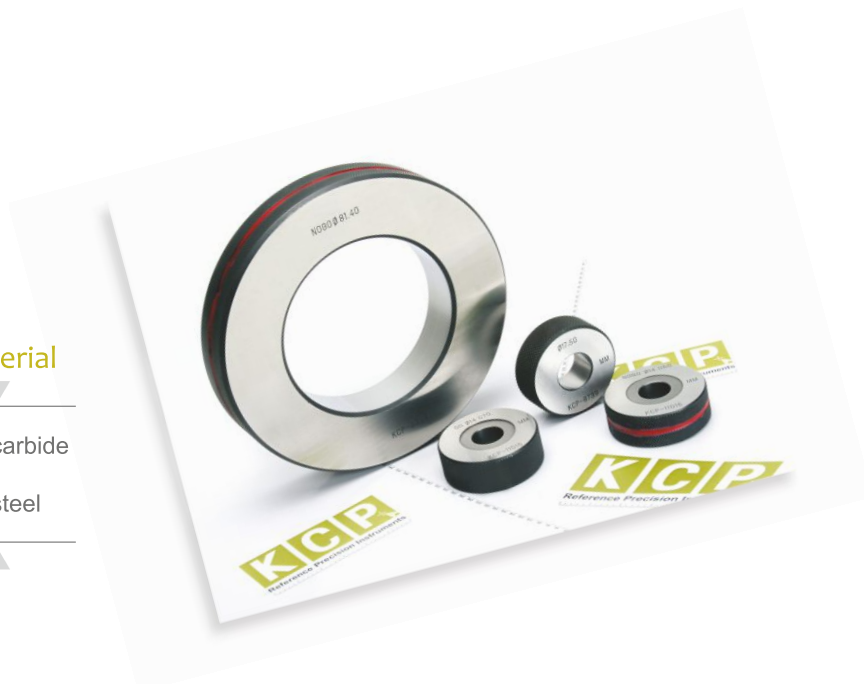
- Ring Gauges with GO member in carbide and NOGO in steel (NOGO member can be provided in carbide)
- Both GO & NOGO in steel is also available.
- Manufactured range of Ring gauges - carbide: 6-60 mm and steel: 6-100 mm.
- Ring Gauges with special length and diameter are also available.

Material



carbide

steel





Snap Gauges



- Range available from 1-300 mm in line with international standards.
- Single ended design with proper marking of GO, NOGO sizes (double ended design also available on requirement)
- Customized sizes available for checking of length and groove diameter etc.

Material

▼	
	carbide
	steel
▲	

Dial Snap Gauges

- High precision Dial Snap Gauges for quick comparative measurement of external diameter ranging up to 200 mm.
- Proficient for inspection of continuous and batch production items.
- Measuring faces are made of Tungsten Carbide for greater wear resistance.
- Parallelism of measuring faces is in range of 0.003 mm up to 200 mm.
- Any standard dial indicator with $\varnothing 8$ mm holding shank can be fitted easily.




Width Gauge



- Best suitable for checking groove width.
- Supplied with reversible type design.
- Custom requirements are also catered.

Material

	carbide
	steel

Measuring Pins

- Carbide pins from 0.5 – 10 mm in Grade 1 (Mfg. Tolerance ± 0.001 mm) & Grade 2 (Mfg. Tolerance ± 0.002 mm) as per IS: 11103 standard.
- Supplied in set as well as individual pins.

Material

	carbide
	steel





Our high end equipments, skilled personnel and methodology enable us to cater your requirements to act in accordance with ISO 9000/QS 9000/TS 16949 etc.

We provide Calibration Services for Gauge Blocks, Gauges, Precision Instruments as well as Engineered Components.

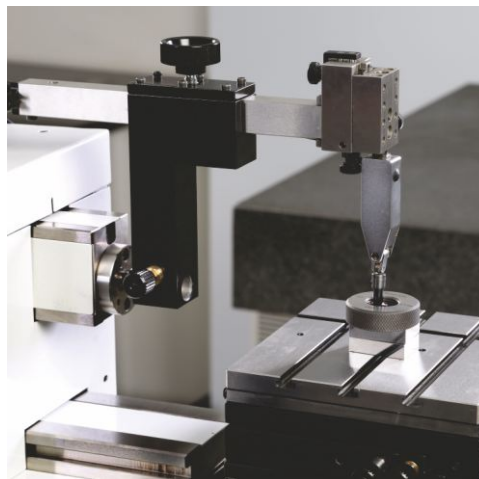
We have a well equipped Lab accredited as per ISO/IEC 17025 by NABL. Our lab is strictly maintained in terms of physical conditions like temperature, humidity, illumination etc.

Lab Accredited By NABL
As Per ISO / IEC 17025

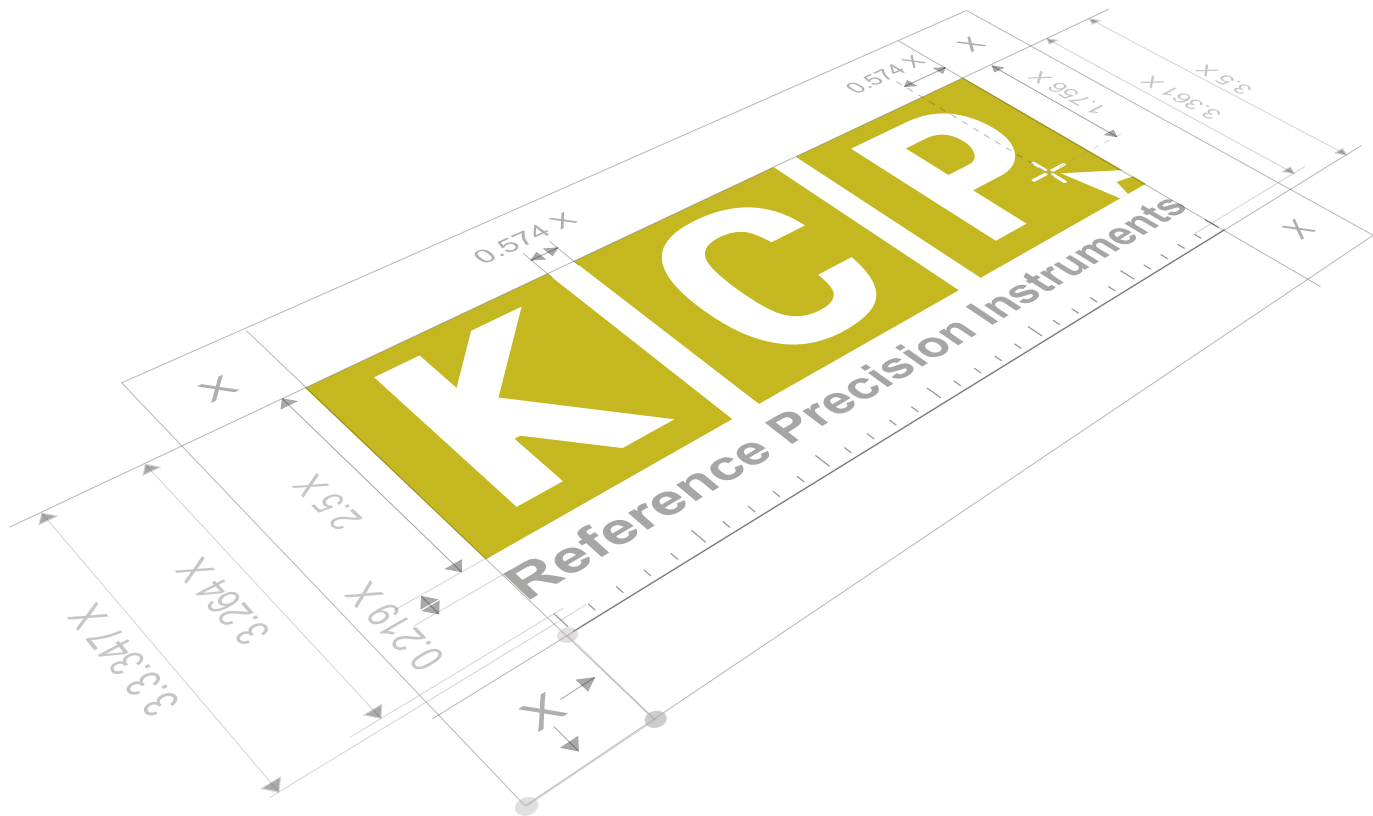
 **NABL**
Certificate No. : CC 2323



An ISO 9001 : 2015 Company



Usually all Quality Management Systems concentrate over 'Must Have' which is the minimum thing needed for survival. But in the today's competitive world to be a step ahead of others, KCP not just believes but practices - 'More Than Must Have'.



precision begins here...

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