



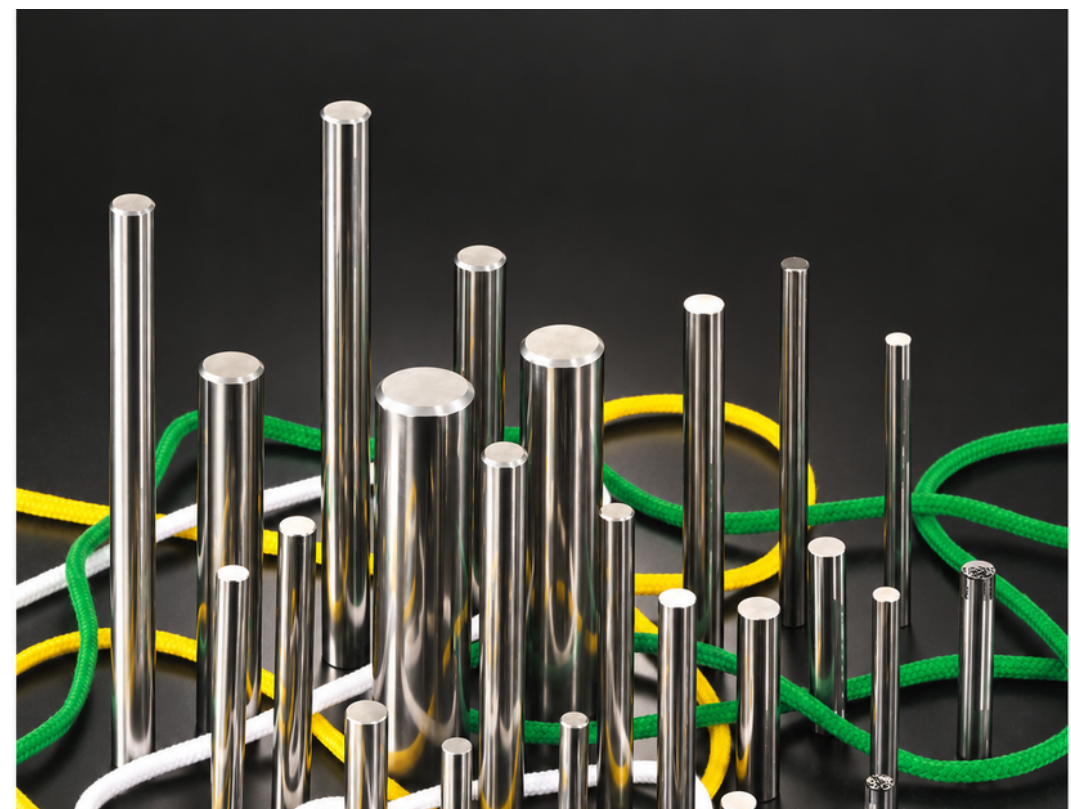
THE KRIS PRECISION RANGE

ENGINEERED FOR ACCURACY

MEASUREMENT • MAGNIFICATION • WORKHOLDING



EXPLORE THE RANGE



PRECISION IS OUR PROFESSION



PIN GUAGES

Precision is our Profession



SIMPLE • SMART • SPEEDY

Internationally Accepted Quality Assured

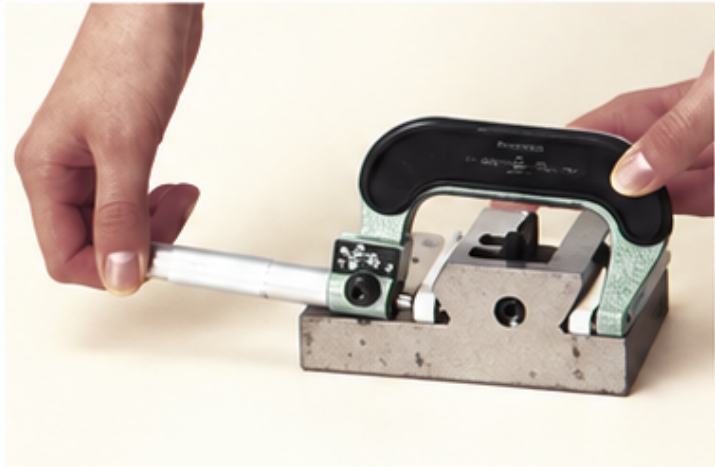
Example of usage of Pin Guages



Checking hole Diameter



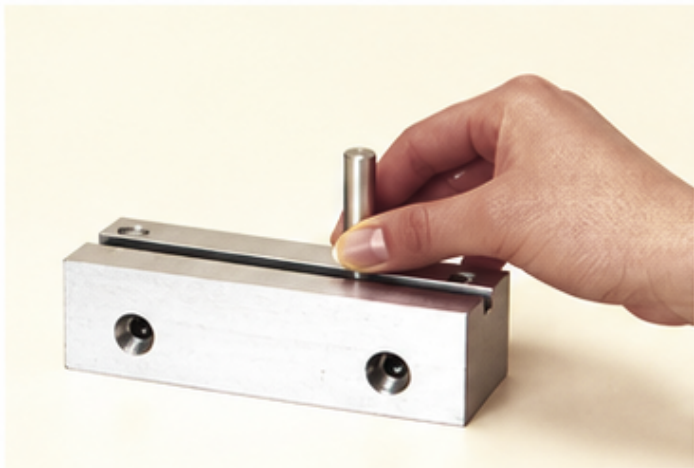
Measuring Distance Between holes



Measuring Dovetail



Measuring Over Pin Diameter of Gear



Measuring width of groove



Checking Right Angle

RANGE IN STEP OF 0.01 mm

SET RANGE IN MM	NO. OF PINS
0.50 – 0.99	50
1.00 – 2.00	101
2.01 – 3.00	100
3.01 – 4.00	100
4.01 – 5.00	100
5.01 – 6.00	100
6.01 – 7.00	100
7.01 – 8.00	100
8.01 – 9.00	100
9.01 – 10.00	100
10.01 – 11.00	100
11.01 – 12.00	100
12.01 – 13.00	100
13.01 – 14.00	100
14.01 – 15.00	100
15.01 – 16.00	100
16.01 – 16.75	75
16.76 – 17.50	75
17.51 – 18.25	75
18.26 – 19.00	75
19.01 – 19.50	50
19.51 – 20.00	50

RANGE IN STEP OF 0.02 mm

SET RANGE IN MM	NO. OF PINS
0.50 – 1.00	26
1.02 – 3.00	100
3.02 – 5.00	100
5.02 – 7.00	100
7.02 – 10.00	150
10.02 – 12.00	100
12.02 – 14.00	100
14.02 – 16.00	100
16.02 – 17.50	75
17.52 – 19.00	75
19.02 – 20.00	50

RANGE IN STEP OF 0.05 mm

SET RANGE IN MM	NO. OF PINS
0.50 – 2.00	31
2.05 – 7.00	100
7.05 – 12.00	100
12.05 – 15.00	60
15.05 – 18.00	60
18.05 – 20.00	40

- Made of High Quality Alloy Steel (EN31)
- Available in steps of 0.01, 0.02 and 0.05 mm.
- Hardness : Heat treated to a hardness Of Rockwell 58 to 63 HRC.
- Lapped to Impart high surface finish.
- Mfg. Tolerance+/- 0.001/0.002mm on diameter.
- Carefully packed in fancy wooden case for
- easy handling.
- For extra safety pins will be provided in individual Plastic Containers upto 7 mm.

Marketed By

FOR MORE INFORMATION PLEASE CONTACT:



BHAGWATI

Hardware & Mill Store Since 1976

Address: 4769, 1ST Floor, Old Post Office Building, Hauz Qazi, Delhi - 110006

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AN ISO 9001 : 2015 CERTIFIED COMPANY



Multifunctional Illuminated Magnifiers (Upto 10x)



K-01



K-02



K-03



K-04

Hands-Free Viewing

Zero Eye Strain

Reveals Finer Details

Enhanced Accuracy & Efficiency

New Generation Magnifiers

Understanding Magnifier Lamps

To many of us, magnification products are an essential part of our daily lives. No matter what the application is for, a magnifier enhances one's ability to perform or enjoy a task or hobby. Some of the more common applications where magnification is critical include:

Reading & Writing, Jewelry Repairs and Production, Electronic Repairs and Production, Eyeglass Repairs and Production, Scientific Studies, Sewing and Needlepoint, Embroidery, Model Building, etc.

- **KRIS** presents the following information to aid professionals as well as the average person in unlocking the secrets of magnification and understanding how magnifier lamps can work for them.

TERMS & DEFINITIONS

- **Instant Start/Flicker-Free Ballast:** Fluorescent light is the energy source of choice for most magnifier lamps. Most lamps on the market today use traditional magnetic coil ballasts. These types of ballasts cannot prevent fluorescent bulbs from flickering at the frequency of the operating voltage, which may cause headaches and fatigue. Our specially designed ballast eliminates these problems. It is an ideal tool for demanding professionals and those who care about their health.
- **Focal Length (f):** The image distance for an object infinitely far away, or the object distance that produces an image infinitely far away. In another way, the focal length is the distance from the centre of the lens to the viewed object that offers maximum magnification without distortion. It is important to remember that as magnification increases, the focal length decreases.
- **Diopter (d):** A unit for measuring the light-bending or refractive power of a lens. It is the reciprocal of the focal length of the lens expressed in metres. To find the diopter of a magnifying lens, keep your eyes approximately 10 inches above the lens and move the object until it is clearly viewed. Measure this distance and divide it into one metre (39.37 inches). The result is the diopter of the lens.

For example, if the object is 13 inches away, it is approximately a 3-diopter lens:

$$39.37 \div 13 = 3d$$

Each diopter increases the size of the viewed object by approximately $\frac{1}{4}$ (25%) when the object is positioned at the lens's full focal length.

- **Field of View:** The distance across the lens surface that can be viewed with both eyes. It is important to note that as magnification increases, the viewing area and focal length decrease.
- **Magnification (x):** The degree to which the viewed object is enlarged. Magnification is usually expressed by a number followed by "x," the symbol used to represent the enlarged size of an object in relation to its actual size.

The formula for calculating magnification power is:

$$MP = \text{Diopter} \div 4 + 1$$

Example: A 40-diopter lens has a magnification power of 11x, meaning the object appears 11 times larger.

Understanding Magnifier Lamps

- **True-Colour Lens:** Many magnifying lenses are made from materials that naturally have a greenish tint, which can distort the object’s natural colour. Our true-colour lens uses a special material that minimises colour changes caused by the glass itself and provides near-perfect colour rendition. This type of lens is particularly suitable for medical and professional applications.

Model	Input Voltage	Magnification	Power	Lens Size
K-01	220V	5×	14W (7 W+ 7W)	175 × 110 mm
K-02		10×	22W	Ø127 mm
K-03		3×	12W	Ø86 mm
K-04		10×	22W	Ø127 mm

Tips for Proper Use of a Magnifier

To get the best results and maximum comfort from an illuminated magnifier, please keep the following points in mind:

- **Use Both Eyes:** Keep both eyes open while using the magnifier for comfortable and natural viewing.
- **Maintain the Correct Distance:** Position the lens at a suitable distance from the work area while keeping it close enough to your eyes—approximately 8 to 10 inches. This provides maximum magnification without distortion. Do not lean backwards away from the lens to increase magnification.
- **Maintain Good Posture:** Adjust the chair height and work surface so that the operator can maintain a comfortable and correct posture while working.

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Magnetic V Blocks

Flatness, Parallelism, Squareness
Within 0.005MM

With Permanent High Power Magnet



KRIS MAGNETIC “V” BLOCKS

Most useful for inspection, tool rooms and standard rooms.

It has a total of three magnetic surfaces—i.e., the top and bottom, each with a 90-degree V-angle, and the end surface opposite the switch. All three magnetic surfaces are accurately ground, and care has been taken so that the blocks can be used in dry as well as wet machining operations.

From a quality perspective, the accuracy for flatness, parallelism and squareness is within 5 microns for V-blocks up to 6 inches and 10 microns for 8-inch V-blocks. All KRIS Magnetic “V” Blocks are supplied with an inspection certificate.

The permanent magnet is housed in such a way that all three magnetic surfaces are activated simultaneously when the knob is in the “ON” position. The high-powered magnetised surfaces hold the workpiece firmly, and the blocks can hold any ferrous surface.

KRIS Magnetic “V” Blocks are equipped with hardened plates on the main V-angle and bottom holding surfaces, ensuring additional wear resistance.

Calibration Certificate: A calibration certificate from an **N.A.B.L.**-accredited laboratory, traceable to national standards, can be provided at an additional cost upon request.

Achieving New Heights in Accuracy



Magnetic V Blocks

Flatness, Parallelism, Squareness
Within 0.005MM

Specifications

Model No.	Size in mm	Nominal Size	Clamping Range	Pull
MRM-475 Soft	40 × 50 × 40	2"	3–25 mm	25 kg
MRM-475 Hard	40 × 50 × 40	2"	3–25 mm	25 kg
MRM-575 Soft	75 × 75 × 56	3"	5–40 mm	75 kg
MRM-575 Hard	75 × 75 × 56	3"	5–40 mm	75 kg
MRM-676 Soft	100 × 95 × 70	4"	5–65 mm	100 kg
MRM-676 Hard	100 × 95 × 70	4"	5–65 mm	100 kg
MRM-856 Soft	150 × 100 × 75	6"	5–70 mm	125 kg
MRM-856 Hard	150 × 100 × 75	6"	5–70 mm	125 kg
MRM-876 Soft	200 × 150 × 125	8"	10–140 mm	175 kg
MRM-876 Hard	200 × 150 × 125	8"	10–140 mm	175 kg

We also manufacture “V” Blocks according to customers’ specifications and with different V-angles.



Hardened V Blocks

Precision is our Power

Quality, Reliability & Value For Money



KRIS HARDENED 'V' BLOCKS

Are Most useful for inspection, Tool Room and Standard Room.

The V Blocks have means of the clamp the work can be held tight in the block. The accuracy of parallelism of the 'V' with the bottom, its squareness to the two end faces, and the maximum permissible variation in height between two V Blocks in a pair, is within ± 3 microns.

All **Kris Hardened 'V' Blocks** are supplied along with inspection certificate.

In Built Features

- 'V' Blocks are Hardened & ground to 60 HRC to 63 HRC.
- Precision 'V' Block for Tool Room, Inspect work, assembly shop.
- All sides precision ground, parallel and square.
- 'V' groove ground central & parallel two sides & base, perfect aligned & matched with ± 3 microns.
- Supplied with clamp for holding job.
- Hold square & round work.
- Permits grinding ends of work square with sides.



Hardened V Blocks

Precision is our Power

Specifications

Model No.	Clamping Range	Size (W × H × L)
HVB-1	3 to 20 mm	20 × 20 × 25 mm
HVB-2	5 to 30 mm	40 × 40 × 25 mm
HVB-3	6 to 50 mm	63 × 63 × 80 mm
HVB-4	6 to 70 mm	80 × 80 × 100 mm

We also Manufacture 'V' Blocks to cutomers specification and with different 'V' angles.

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