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# SECTION 3 Contents



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**GROUP 300 DIAL GAUGES**

**PRECISION EQUIPMENT**

**OXFORD PRECISION Easy Read Dial Gauges Plunger Type**

**58mm (2¼") Diameter Dial**  
Matt finish chromed housings and black oxidised limit hands. Fitted with ¼" inside diameter stem. Manufactured to **BS 907**.



**58mm Diameter**

**Spares to suit Oxford Plunger Type Gauges**

Description	Order Code
Anvil - mm	<b>-9400K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.001"	0.5"	0-50-0	440g	<b>-8100K</b>
0.01mm	5mm	0-50-0	350g	<b>-7850K</b>
0.01mm	10mm	0-100	440g	<b>-8500K</b>
0.01mm	25mm	0-100	440g	<b>-8520K</b>

**Easy Read Dial Gauge Plunger Type**

**58mm (2¼") Diameter Dial**  
**6 Jewel**  
Matt finish chromed housings and black oxidised limit hands. Shockproof mechanism. Fitted with ¼" inside diameter stem. Manufactured to **BS 907**.



**JEWELLED**

**58mm Diameter**

**Spares to suit Oxford Plunger Type Gauges**

Description	Order Code
Anvil - mm	<b>-9400K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.01mm	10mm	0-100	440g	<b>-5500K</b>
0.01mm	25mm	0-100	440g	<b>-5520K</b>

**KENNEDY QUALITY INDUSTRIAL TOOLING Smile Dial Dial Gauges Plunger Type**

**58mm (2¼") Diameter Dial**  
Matt finish chromed housings and black oxidised limit hands. Jewelled. and 5/16" diameter stem. Fitted with ¼" inside diameter centre back lug and 5/16" diameter stem. Manufactured to **BS 907**.



**JEWELLED**

**58mm Diameter**

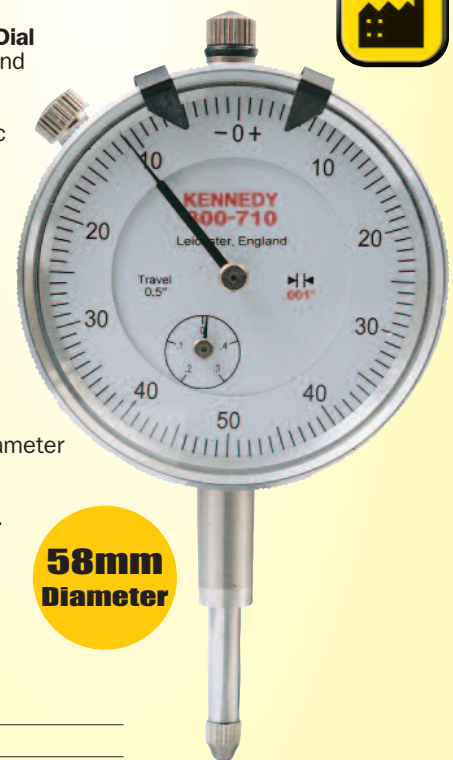
**Spares to suit Kennedy Plunger Type Gauges**

Description	Order Code
Anvil - mm	<b>-9400K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.01mm	10mm	0-100	440g	<b>-5000K</b>

**Easy Read Dial Gauges Plunger Type**

**58mm (2¼") Diameter Dial**  
Easy Read Dial Gauges and DTI's are designed for countless applications and available in two basic styles. With shockproof mechanisms and clear, 'Easy Read' dial for zero setting. All models are operational in both directions. Supplied in fitted cases with accessories storage space. Matt finish chromed housings and black oxidised limit hands. Fitted with ¼" inside diameter centre back lug and 5/16" diameter stem. Manufactured to **BS 907**.



**58mm Diameter**

**Spares to suit Kennedy Plunger Type Gauges**

Description	Order Code
Anvil - mm	<b>-9400K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.001"	0.5"	0-50-0	440g	<b>-7100K</b>
0.001"	0.5"	0-100	440g	<b>-7110K</b>
0.0005"	0.5"	0-25-0	440g	<b>-7120K</b>
0.001"	1.0"	0-100	440g	<b>-7160K</b>
0.0005"	1.0"	0-50	440g	<b>-7170K</b>
0.01mm	10mm	0-100	440g	<b>-7500K</b>
0.01mm	25mm	0-100	440g	<b>-7520K</b>



**KENNEDY** *Easy Read Anti-Magnetic Dial Test Indicators*  
QUALITY INDUSTRIAL TOOLING

**Lever Type - Dual Reading**  
**43mm (1<sup>11</sup>/<sub>16</sub>" ) Diameter Dial**  
 Matt finish chromed housing and black oxidised limit hands. Supplied with dovetail fitting and 1/4" spigot. Jewelled. Manufactured to **BS2795**.



**JEWELLED**

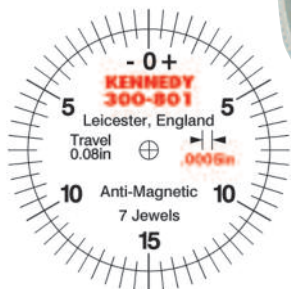
**Spares to suit Kennedy Dial Test Indicators**

Description	Order Code
Replacement Stylus	<b>-9420K</b>
	Order Code <b>KEN-398</b>
1/4" Spigot - 6mm Stem	<b>-0340K</b>
1/4" Spigot - 8mm Stem	<b>-0350K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.0005"	0.3"	0-25-0	180g	<b>-4000K</b>
0.01mm	0.6mm	30-0-30		

**Lever Type**  
 Supplied with dovetail fitting and 6 and 8mm spigot. Matt finish chromed housing. Jewelled.

**32mm (1<sup>1</sup>/<sub>4</sub>" ) Diameter Dial**



**JEWELLED**

**Spares to suit Kennedy Dial Test Indicators**

Description	Order Code
Replacement Stylus	<b>-9630K</b>
	Order Code <b>KEN-398</b>
1/4" Spigot - 6mm Stem	<b>-0340K</b>
1/4" Spigot - 8mm Stem	<b>-0350K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.0005"	0.03"	0-15-0	170g	<b>-8010K</b>
0.01mm	0.8mm	0-40-0	170g	<b>-8020K</b>

**OXFORD** *Easy Read Dial Test Indicators*  
PRECISION

**Lever Type**  
 Supplied with dovetail fitting and 6 and 8mm spigot. Matt finish chromed housing.

**32mm Diameter Dial**

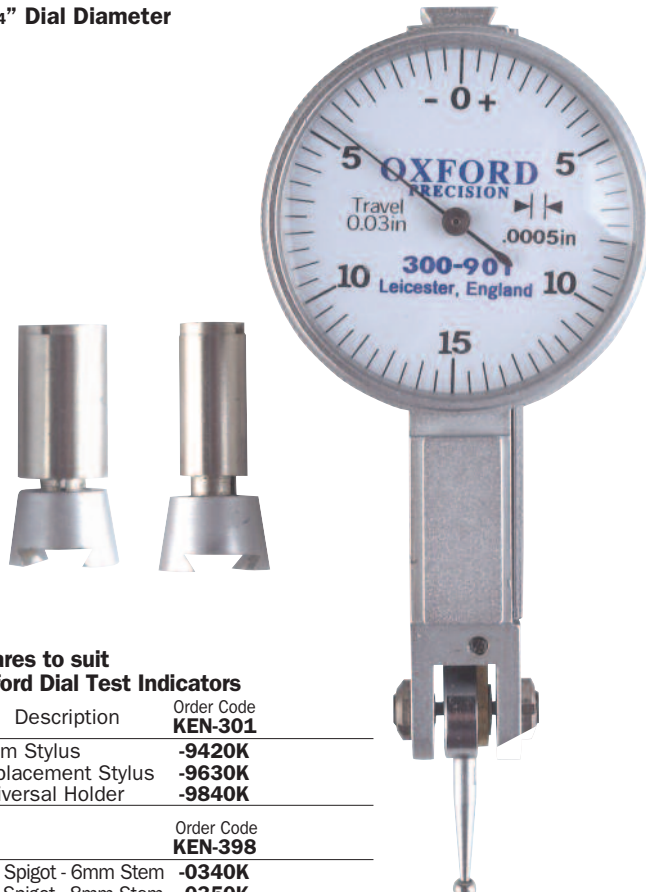


**Spares to suit Oxford Dial Test Indicators**

Description	Order Code
Replacement Stylus	<b>-9630K</b>
Universal Holder	<b>-9840K</b>
	Order Code <b>KEN-398</b>
1/4" Spigot - 6mm Stem	<b>-0340K</b>
1/4" Spigot - 8mm Stem	<b>-0350K</b>

Graduation	Travel	Reading	Weight each	Order Code
0.01mm	0.8mm	0-40-0	170g	<b>-9020K</b>

**1<sup>1</sup>/<sub>4</sub>" Dial Diameter**



**Spares to suit Oxford Dial Test Indicators**

Description	Order Code
2mm Stylus	<b>-9420K</b>
Replacement Stylus	<b>-9630K</b>
Universal Holder	<b>-9840K</b>
	Order Code <b>KEN-398</b>
1/4" Spigot - 6mm Stem	<b>-0340K</b>
1/4" Spigot - 8mm Stem	<b>-0350K</b>

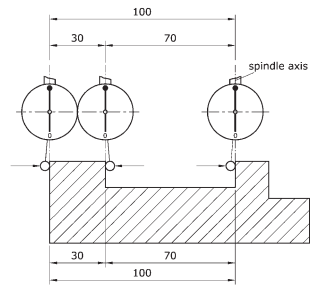
Graduation	Travel	Reading	Weight each	Order Code
0.0005"	0.03"	0-15-0	170g	<b>-9010K</b>

The New Generation of NC axis gauging equipment, for quick, accurate setting of all three axes (X, Y, Z) by analogue differential indicator. Suitable for all machine tools with CNC, NC or DRO and also for EDM/spark erosion tools - the stylus is electrically insulated from the spindle. Universal - one tool measures length, height, diameter and centre. The synchronous single needle allows greater needle displacement before reaching '12 o'clock'. A positive reading is given regardless of direction of axis movement. No calculations and no 'trial and error' involved. Increases production and efficiency, reduces job time and operator requirement. The stylus is designed to break on a 'nominal fracture' before the workpiece or tester can be damaged. Three plug in styli types can be changed in seconds without the use of special tools. Pre-adjusted to a concentricity of 0.01mm maximum.

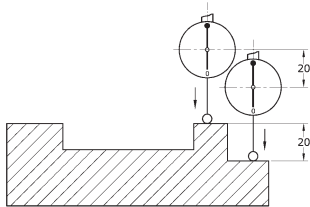
**Indicator diameter: 50mm. Clamping shank diameter: 20mm.**



**PRECISION EQUIPMENT**



**a. Measuring length**

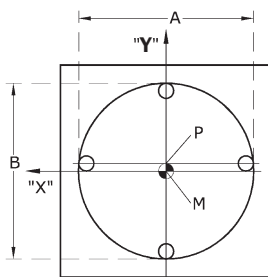


**b. Measuring height**

**c. Establishing true centre and diameter of bores.**

Insert stylus roughly in centre of bore, measure distance A and divide by 2 (P). Measure distance B in Y direction, across point P and divide by 2.

Result: true centre point (M). Repeat measuring of distance A.



**3D Axis Gauge**

Indicator Dia.	Effective Length	Shank Dia.	Weight each	Order Code
50mm	125mm	20mm	89g	<b>KEN-302</b> <b>-2000K</b>

**Stylii**

Conical precision plug-in mechanism. Insulated, no electrical conductivity. Designed-in nominal fracture point.

Type	Length mm	Anvil Dia.	Weight each	Order Code
Short	33	3.0	3g	<b>KEN-302</b> <b>-2030K</b>
Standard	46	4.0	5g	<b>-2050K</b>
Long	72	6.0	10g	<b>-2100K</b>

**OXFORD PRECISION Hardness Testers**

**Rockwell Hardness Tester Model 150R**

For testing the hardness of hard alloys, quenched and unquenched steels, using steel ball or diamond penetrators to measure Rockwell A, B & C units of measurement. Supplied with test block, flat large, small and V notch anvils, steel ball bearing indenter and diamond indenter.

Manufactured in accordance with **ISO 6508-2:1999 & ASTM E18.**

**Measuring ranges:**

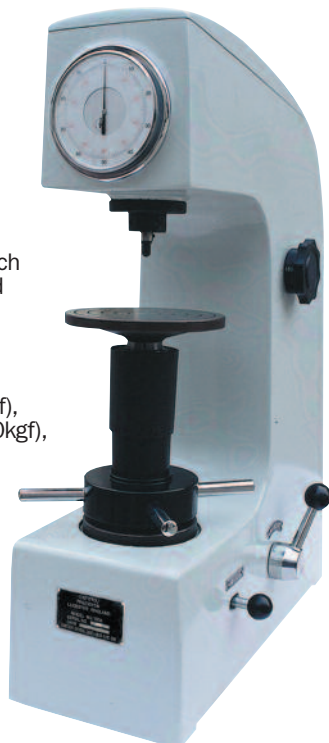
20-88HRA (Test force: 588.4N/60kgf),  
20-100HRB (Test force: 980.7N/100kgf),  
20-70HRC (Test force: 1471N/150kgf).

Max height of test piece: 80mm with screw protective jacket, 170mm without.

**Depth of throat: 135mm.**

**Dimensions:**

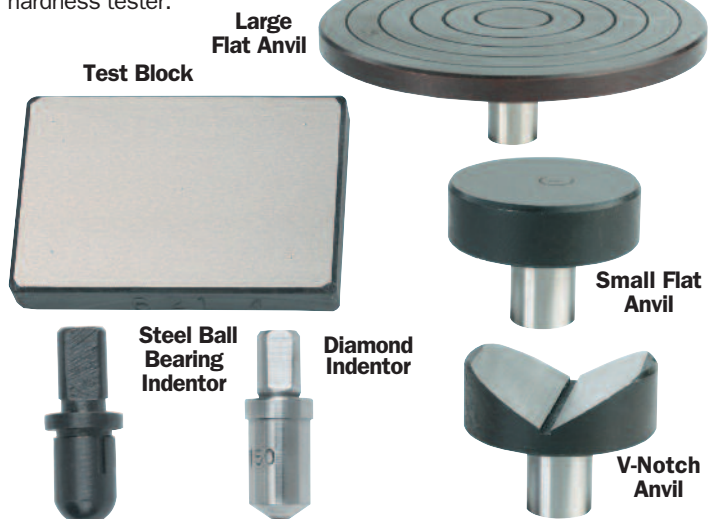
466 x 238 x 630mm.



Model Number	Weight each	Order Code
150R	65kg	<b>OXD-303</b> <b>-1000K</b>

**Anvils, Indentors & Test Blocks**

To suit Oxford hardness tester.



Description	Size	Order Code
Large Flat Anvil	150mm	<b>-9100K</b>
Small Flat Anvil	58mm	<b>-9110K</b>
V-Notch Anvil	-	<b>-9120K</b>
Diamond Indentor	ø1.588mm	<b>-9150K</b>
Steel Ball Bearing Indentor	ø1.588mm	<b>-9160K</b>
Rockwell Std. Test Block	85 HRB	<b>-9210K</b>
Rockwell Std. Test Block	60 HRC	<b>-9220K</b>
Rockwell Std. Test Block	35 HRC	<b>-9230K</b>
Rockwell Std. Test Block	20 HRC	<b>-9240K</b>



**OXFORD PRECISION** *Oxford Precision Granite Products*

Precision granite products are manufactured to the highest quality standards to provide an accurate surface from which final measurements can be taken. More dimensionally stable than steel or cast iron, with a low thermal expansion co-efficient. Does not burr, is corrosion free and easy to maintain.

**Granite Straight Edges**

Used for checking surfaces for straightness, drawing and scribing straight lines. Made to **BS5204 : Grade A**. Supplied with calibration certificate.



L x W x H	Weight each	Order Code
630 x 100 x 35mm	7kg	<b>-6020K</b>
1000 x 160 x 50mm	10kg	<b>-6040K</b>

**Granite Parallels**

Used for setting up work on machine tables and surface plates. Made to **BS906 : Part 1 : Grade B** for flatness and parallelism of working faces. Supplied in pairs with UKAS certificate.



L x W x H	Weight each	Order Code	Price/Pr
160 x 25 x 16mm	0.55kg	<b>-3020K</b>	
400 x 63 x 40mm	6.97kg	<b>-3060K</b>	

**Granite Vee Blocks**

90°. Used for handling and inspecting round work. Also used for layout work. Made to **BS3731 : Grade 2**. Supplied with UKAS certificate.



L x W x H	Weight each	Order Code	Price/Pr
62 x 62 x 62mm	2.0kg	<b>-7020K</b>	

**Granite Surface Plates**

Accurate bases which are used for mounting sensitive measuring, mechanical and electronic equipment. Made to **BS817**. Supplied with calibration certificate.



**Stand**

**Grade 1 - Inspection Grade**

L x W x H	Weight each	Order Code
400 x 250 x 70mm	27kg	<b>-4020K</b>
630 x 400 x 100mm	90kg	<b>-4040K</b>
800 x 500 x 100mm	140kg	<b>-4060K</b>

**Accessories - Stand**

L x W x H	Weight each	Order Code
800 x 500 x Stand	20kg	<b>-4100K</b>

**Granite Squares**

90°. For measuring and inspecting squareness, parallelism and alignment. Made to **BS939 : 1977 Grade A** for flatness, straightness and squareness of working faces. Supplied with UKAS certificate.



L x W x H	Weight each	Order Code
250 x 160mm	2.26kg	<b>-5060K</b>

**EDISON Infrared Laser Thermometer**

A high resolution infrared laser thermometer suitable for a wide range of industrial applications, HVAC and automotive diagnostics. The laser targeting enables accurate readings by guiding the user to the optimum measuring distance. Ideally suited for work in confined spaces and where accuracy is required such as on circuit boards, air-con units or in engine compartments. Simply aim at the target object, pull the trigger mechanism and read the current surface temperature from the LCD display. If necessary the laser can be activated via the laser button for more accurate targeting. Temperature is displayed on back-lit LCD display and features hold function for ease of use.

- Measurement range:** -20°C to 537°C.
- Accuracy:** -20°C to 50°C /- 2.5°C 51°C to 537°C /- (Reading x 1% 1°C).
- D/S ratio:** 12:1.
- Emissivity:** 0.95.
- Celsius/Fahrenheit display selection.
- Back light display.
- Power source:** 9V battery.
- Average/maximum/minimum/maximum-minimum mode selection.
- Complies with EN61326:1997/A1:1998/A2:2001/A3:2003.**
- Dimensions (L x W x H):** 162 x 56 x 190mm.
- Nett weight:** 270g.



**PRECISION EQUIPMENT**

Description	Order Code
Infrared Thermometer	<b>EDI-312 -4000K</b>

**Airflow, Velocity & Temperature Tester**

**NEW**

**VA8020**  
Ideal for environmental testing of airflow and temperature in residential & commercial environments.

**Airflow testing** in m/s, km/h, fpm, mph, kts and Beaufort scale.

**Temperature** in °C and °F.

**Range:**  
0.4 - 20m/s, 80- 4000fpm.  
-10 - 50°C, 14 - 122°F.

**Resolution:**  
0.1m/s, 1fpm. 0.1°C, 0.1°F.

**Functions:**  
Data hold, LCD display with optional backlight and Auto power-off.

**Pack includes:**  
Meter, head cover, wrist strap, carry case, DC1.5V x 3 AAA batteries (installed).  
Instruction manual.

**Dimensions (W x D x H):**  
60 x 30 x 121mm.

**Gross weight:**  
140g.



Model Number	Order Code
VA8020	<b>-4020K</b>

**Relative Humidity & Temperature Tester**

**NEW**

**VA8010**  
Ideal for environmental testing where humidity and temperature need to be regulated to ensure a controlled environment, such as paper stores, offices, greenhouses, warehouses etc.

**Humidity testing** in %RH.

**Temperature** in °C and °F.

**Range:** 0 - 100%RH. 10 - 50°C, 14 - 122°F.

**Functions:**  
Data hold, LCD display with optional backlight and Auto power-off.

**Pack includes:**  
Meter, head cover, wrist strap, carry case, DC1.5V x 3 AAA batteries (installed).  
Instruction manual.

**Dimensions (W x D x H):**  
60 x 30 x 121mm.

**Gross weight:**  
140g.



Model Number	Order Code
VA8010	<b>-4040K</b>

**5-in-1 Multimeter & Environmental Tester**

**NEW**

**VA19A**  
Ideal for electrical troubleshooting and straightforward environmental testing in residential and commercial environments. The 5-in-1 digital multimeter is capable of testing the following:

**Temperature:** from -20 to 1000°C.

**Humidity:** 30 to 90%.

**Sound level:** 35 to 100db.

**Illumination:** 4000 to 40000 Lux.

**AC/DC voltage:** 600V.

**AC/DC current:** 10A.

**Resistance:** 40MW.

**Capacitance:** 200mF.

**Frequency:** 1Hz to 200KHz.

Relative measurement function. Diode testing facility. Clear display with LED back light & data hold function. Auto power OFF & low power indicator. Digital display count up to 3999. Conforms to **IEC 1010, CAT II 1000V** and **CAT III 600V**.

**Pack includes:**  
environment digital multimeter, test probes, clamp-on test leads, temperature sensor probe, 9V battery (installed).  
Instruction manual.

**Dimensions (W x D x H):**  
165 x 65 x 230mm.

**Gross weight:**  
618g.



Model Number	Order Code
MET060	<b>-3460K</b>



**Multi Function Digital Stopwatch - Standard**

Water and shock resistant design. Supplied with nylon neck cord.

**Specification:**  
1/100 second precision with split times. Calendar and time display 12hr or 24hr format. Fastest, slowest and average lap calculation. Daily alarm. Hourly chime. Supplied complete with 1.5V battery.



Order Code  
**RTL-314**  
**-3020K**

**Multi Function Digital Stopwatch - Professional**

Water and shock resistant design, slim line contour case fits comfortably in the hand. Supplied with nylon neck cord.

**Specification:**  
1/100 second precision with split times. Calendar and time display 12hr or 24hr format. Fastest, slowest and average lap calculation. Daily alarm. Hourly chime. Supplied complete with 1.5V battery.

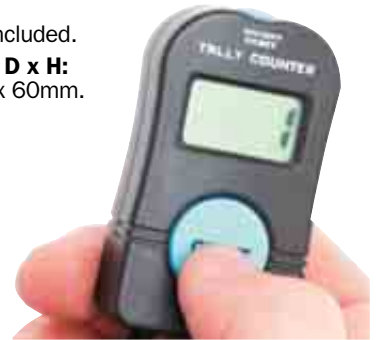


Order Code  
**RTL-314**  
**-3040K**

**OXFORD PRECISION Electronic Tally Counter - Up**

Electronic tally counter counts up to 9999. Four-digit LCD with large push-buttons. High-impact construction with comfortable rubber keys. Optional audible counting indicator. Battery included.

**Size W x D x H:**  
30 x 15 x 60mm.



Order Code  
**OXD-314**  
**-5820K**

**OXFORD PRECISION Mechanical Stroke Counter**

Five digit mid-range mechanical stroke counter. Tough plastic case. Excellent value.

**Overall length:** 80mm.  
**Height:** 30mm.



Spindle Rotation	Weight each	Order Code
Right Hand		<b>OXD-314</b> <b>-6100K</b>

**Chrome Tally Counters**

Four digit (0-9999) metal body mechanical counters with push button actuator and reset button. Sturdy chrome plated steel construction.

**Hand Tally** comfortably fits in the palm of your hand, audible click, finger ring and recommended for applications where operator must be mobile.

**Desk Tally** features a special mounting base designed for desk, bench or clipboard mounting. Recommended for fixed applications.



Description	Weight each	Order Code
Hand Tally		<b>OXD-314</b> <b>-5500K</b>
Desk Tally		<b>-5520K</b>

**Electronic Tally Counter - Up/Down**

Electronic tally counter counts up to 9999. Four-digit LCD with large push-buttons. Reverse function to count down as well as up. High-impact construction with comfortable rubber keys. Optional audible counting indicator. Battery included.

**Size W x D x H:**  
30 x 15 x 60mm.



Order Code  
**OXD-314**  
**-5830K**

**EDISON Electronic Tachometer**

Precise red LED light source (laser beam) together with a reflective strip, non-contact measurements can be made safely up to 40cm (15 3/4") from the target.

For measuring in rpm and rps.

**Testing range:**  
100 to 30000rpm/1.7 to 500rps.  
6 digit clear LCD display with optional back light.  
Data hold function.  
Auto power 'OFF' and low power indicator.  
Battery operated: DC1.5V 3x AAA (included).  
Conforms with **EN61326-6: 2006** and **EN61326-2-2: 2006**.

**NEW**

**Pack includes:**  
Digital Tachometer.  
Wrist strap.  
2x 30cm Reflective Strips.  
Hard carry case.  
DC1.5V x3 AAA batteries (installed).  
Instruction manual.



Test for regular rotary speed



Actual size of LCD



Laser beam accuracy



Complete with protective head cover



Testing Range  
100 to 30000rpm



Order Code  
**EDI-315**  
**-4200K**

**OXFORD PRECISION Folding Pocket Magnifiers**

Although deriving its name from the textile industry it is also suitable for inspecting paper, photographs, printed documents etc. Self-standing to free your hands. Folds flat when not in use. Black powder coated body. The original 'Linen tester'.

**15mm Diameter**

15mm diameter glass lens. 7x magnification. 1" working distance. 1/2" square field. Inch graduation. 1/8" divisions.



Diameter	Order Code
15mm	<b>-1600K</b>

**30mm Diameter**

30mm diameter glass lens. 6x magnification. 38mm (1 1/2") working distance. 25mm (1") square field. Metric and inch graduations. 1mm and 1/8" divisions. Complete with plastic wallet.



Diameter	Order Code
30mm	<b>-1620K</b>

**LED Light Magnifier**

10x magnification. 5mm diameter LED light. 30mm diameter integral 2x optical glass lens. Powered by 3x AAA batteries (not supplied). LED last around 40,000 hours under normal use. Battery life = 40/50 hours under continuous use. Compared to a conventional bulb the LED diode lives up to 1000 times longer with 90% less power consumption. Complete with plastic case with belt loop.



Diameter	Order Code
30mm	<b>-2010K</b>

**Magnifying Loupes**

Suitable for precision engineers, instrument makers, watch repairers, jewellers etc.



**Triplet**

Provides sharp images with minimum distortion. Three separate lenses bonded together to form one compound lens. Chrome plated finish. Complete with leather case.



Type	Magnification	Order Code
Triplet	10x	<b>-1500K</b>

**Doublet**

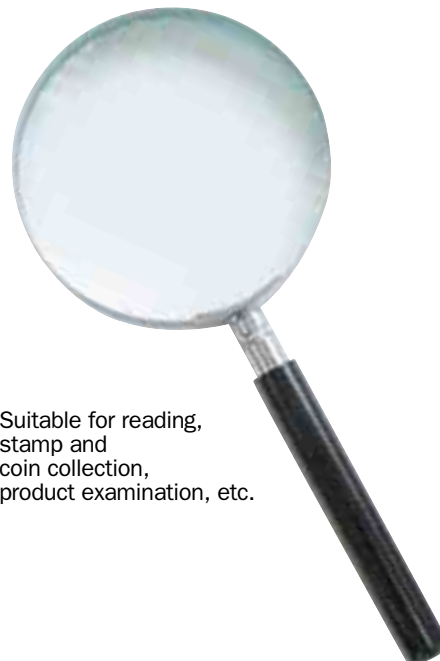
21mm diameter double lenses bonded together to form one compound lens. Provides a sharp magnified image with virtually no distortion.



Type	Magnification	Order Code
Double	20x	<b>-1520K</b>

**Hand Magnifiers**

Available in 2x, 3x and 4x deluxe high power magnifications. 2x, 3x have chrome-plated brass frame and bakelite handle. 4x deluxe has a gilt-effect frame and hardwood handle.



Suitable for reading, stamp and coin collection, product examination, etc.

Mag. Factor	Diameter	Order Code
2x	89mm	<b>-2500K</b>
3x	50mm	<b>-2520K</b>
4x	65mm	<b>-2600K</b>

**KENNEDY Eye Loupes**

Manufactured from shock resistant plastic. Shatterproof lens. Ideal for jewellers, watchmakers, electronics and model makers.



**Clear**



Mag. Factor	Focal Length (mm)	Order Code
10x	31 (1 1/4")	<b>-6000K</b>

**Solid**



Mag. Factor	Focal Length (mm)	Order Code
10x	31 (1 1/4")	<b>-5290K</b>
4.0x	63 (2 1/2")	<b>-5300K</b>
3.5x	75 (3")	<b>-5310K</b>
3.0x	90 (3 1/2")	<b>-5320K</b>

**Hand Magnifiers**

Plastic lightweight magnifiers. Used to provide a clear crisp enlarged image. Used for inspection of finished parts, enlarging small text and pictures etc.



**UP TO 100mm DIAMETER**

Mag. Factor	Diameter	Order Code
5x	50mm	<b>-6040K</b>
4x	75mm	<b>-6060K</b>
2x	100mm	<b>-6080K</b>

**Bench Magnifiers**



89mm (3½") diameter lens. 2x magnification. Chrome plated brass frame. 180mm flexible hose length permits viewing at any angle. Suitable for viewing work requiring high precision, reading, sewing, quality control, hobbies etc

**With Clamp**

Black powder coated clamp provides stability and convenience. Portable and easy to clip onto a bench or table.

**Clamping capacity:** 55mm.

**With Stand**

Cast horseshoe type stand provides stability and convenience.



Mag. Factor	Type	Order Code
		<b>OXD-316</b>
2x	Clamp	<b>-1100K</b>
2x	Stand	<b>-1120K</b>

**LED Head Loupe with Removable LED Light & Interchangeable Lenses**

This head loupe has a detachable LED light which can be removed to provide an independent source of light that has two magnets for attaching to steel objects. It can be worn with spectacles and has an adjustable headband for greater comfort and integral visor to cut out ambient light. It comes with four interchangeable lenses supplied with their own storage case. The lenses stay firmly in position when raised or lowered, leaving both hands free to work. Suitable for electrical service and assembly, model making and other applications where both hands are required to carry out finely detailed work.



**Contents:**

1x Head Loupe with removable LED light (batteries not included).

1x Blanking plate for visor when LED is removed.

1x Box of four lenses:

Magnification for Working Distance

1.2x 520 - 620mm, 1.8x 230 - 320mm  
2.5x 150 - 250mm, 3.5x 80 - 120mm.

Description	Order Code
LED Head Loupe	<b>OXD-316</b>
	<b>-2560K</b>

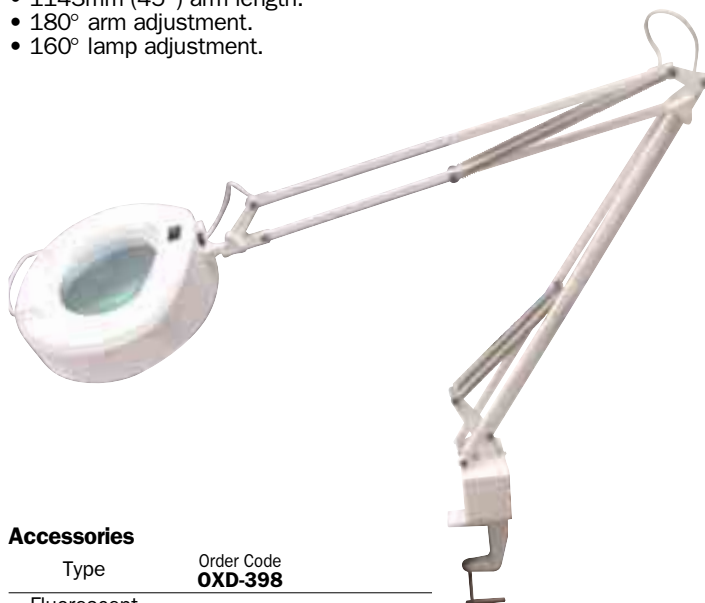
**EYE LOUPES & MAGNIFIERS**

**Illuminated Bench Magnifier - Adjustable Arm Type**



Illuminated bench magnifier fitted with long life high efficiency 22W circular fluorescent daylight tube which provides perfect colour matching, low heat emission and greater eye comfort. Suitable for the workplace, hobbies or for people with limited vision.

- 127mm (5") diameter lens.
- 3x magnification.
- 1143mm (45") arm length.
- 180° arm adjustment.
- 160° lamp adjustment.



**Accessories**

Type	Order Code
Fluorescent Tube 22W	<b>OXD-398</b>
	<b>-8600K</b>

**Illuminated Magnifier**

Mag. Factor	Diameter	Order Code
3x	127mm (5")	<b>OXD-316</b>
		<b>-1030K</b>

**Illuminated Adjustable Stand Magnifier**

With the lens tilted, small hand-held objects can be worked on or inspected. When the lens is parallel to the work surface anything laid beneath is in focus. Fitted with a long life high efficiency 22W circular daylight tube which provides perfect colour matching, low heat emission and greater eye comfort. Suitable for the workplace, hobbies or for people with limited vision.

- 127mm (5") diameter lens.
- 3x magnification.
- Fully adjustable.
- 220V.
- 170mm height adjustment.

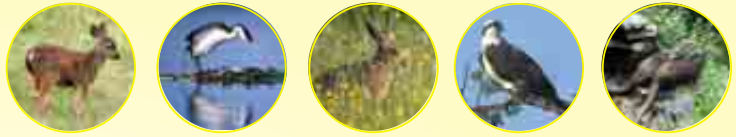


Mag. Factor	Diameter	Order Code
3x	127mm (5")	<b>OXD-316</b>
		<b>-1010K</b>

**GROUP 318 BINOCULARS**

**RUTLAND III SPORT Compact Style Binoculars**

Compact folding design for easy storage and transport. The high quality roof prisms and UV protective coated ocular lenses are housed in a polyurethane body coated in a shock absorbing high grip rubber armour. Diopter adjustment for improved image clarity and sharpness. To allow use with spectacles the soft rubber eye cups fold down. Accurate focusing of the binoculars is controlled by fingertip movement of the central focusing wheel. Integral neck strap eyelets and tripod mounting threaded recess point. Supplied complete with neck strap and cleaning cloth. Suitable for camping/hiking, outdoor spectator sports, nature viewing, theatre. Lead- and arsenic-free glass.



**10 x 25**



CR1025R

Diopter measurement



**10 x 25**

Product Number	Magnification	Order Code
CR1025R	10 x 25	<b>RTL-318 -1620K</b>



CR1025

Fold down eye cup



Diopter measurement



Product Number	Magnification	Order Code
CR1025	10 x 25	<b>RTL-318 -1230K</b>

**Ultra Compact Binoculars**

**CP0821**

The ultra compact design makes them ideal for use when storage space is at a premium. The high quality porro prism coated lenses are housed in a tough polyurethane body which is comfortable to hold. The diopter adjustment is easy to use and improves the image clarity and sharpness. Simple yet accurate focusing is achieved using fingertip control of the central focusing wheel. Supplied complete with case, neck strap and cleaning cloth.



**8 x 21**

Diopter measurement



Product Number	Magnification	Order Code
CP0821	8 x 21	<b>RTL-318 -1660K</b>

**Traditional Style Binoculars**

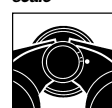
**TP1050**

The high quality porro prisms and UV protecting ruby coated ocular lenses are housed in a polyurethane body coated in a shock absorbing high grip rubber armour. Diopter adjustment for improved image clarity and sharpness. To allow use with spectacles the soft rubber eye cups fold down. Accurate focusing of the binoculars is controlled by fingertip movement of the central focusing wheel. Integral neck strap eyelets and tripod mounting threaded recess point. Supplied complete with lens cap, case, neck strap, and cleaning cloth. Suitable for camping/hiking, outdoor spectator sports, nature viewing. Lead- and arsenic-free glass.



**10 x 50**

Pupil distance scale



Tripod use



Fold down eye cup



Diopter measurement



Product Number	Magnification	Order Code
TP1050	10 x 50	<b>RTL-318 -1010K</b>

**PRECISION EQUIPMENT**

**RUTLAND PRO Traditional Binoculars 7 x 50**

**TP0750**

High quality lenses. Ocular objective lens caps. Diopter adjustment ring with index. Neck strap eyelets underneath. Central focusing wheel, tripod mounting with thread cover. Comfortable ergonomic design. Rubber armoured grip. Tripod mounting point.

**Includes:** lens caps, case, neck strap and cleaning cloth.



**Prism type:** Porro.  
**Magnification:** 7x.  
**Objective lens:** 50mm.  
**Angle of view:** 6.8°.  
**Field of view at 1000m:** 119m.  
**Exit pupil:** 7mm.  
**Focusing method:** Manual.  
**Closest focusing distance:** 9m.  
**Dimensions:** (W x H x D) 176 x 191 x 82mm.  
**Weight:** 900g.



Product Number	Magnification x Lens Diameter	Order Code
TP0750	7 x 50	<b>-1370K</b>

**Traditional Binoculars 10 x 60**

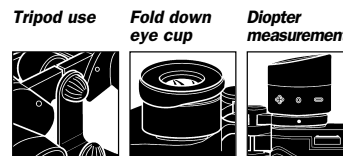
**TP1060**

Ruby coated high quality precision lenses. Double diopter adjustment ring with index. Neck strap eyelets. Ocular lens caps. Central focusing wheel, tripod mounting thread cover. Objective lens caps. Rubber armoured ergonomically designed grip. Tripod mounting point.

**Includes:** lens caps, case, neck strap and cleaning cloth.



**Prism type:** Porro.  
**Magnification:** 10x.  
**Objective lens:** 60mm.  
**Angle of view:** 6.4°.  
**Field of view at 1000m:** 108m.  
**Exit pupil:** 6mm.  
**Focusing method:** Manual.  
**Closest focusing distance:** 10m.  
**Dimensions:** (W x H x D) 200 x 200 x 85mm.  
**Weight:** 1175g.



Product Number	Magnification x Lens Diameter	Order Code
TP1060	10 x 60	<b>-1400K</b>

**Traditional Binoculars 10 x 42**

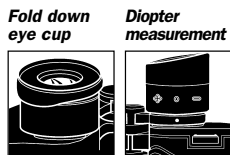
**TP1042**

These Rutland Pro binoculars have a powerful 10 x magnification using a Porro prism, a 6° wide angle of view and a 42mm objective lens. These binoculars are powerful, yet have a narrow pupil distance making them ideal for the smaller user. The outer casing of the binoculars is designed for your comfort and covered with a protective rubber coating, to prevent damage from the occasional bump that may occur whilst in use. The point of focus is smoothly controlled with the central focusing wheel.

**Includes:** lens caps, case, neck strap and cleaning cloth.



**Prism type:** Porro.  
**Magnification:** 10x.  
**Objective lens:** 42mm.  
**Angle of view:** 6°.  
**Field of view at 1000m:** 105m.  
**Exit pupil:** 4.2mm.  
**Focusing method:** Manual.  
**Closest focusing distance:** 4m.  
**Dimensions:** (W x H x D) 110 x 168 x 65mm.  
**Weight:** 775g.



Product Number	Magnification x Lens Diameter	Order Code
TP1042	10 x 42	<b>-1600K</b>

**Spotting Scope 18-36 x 50**

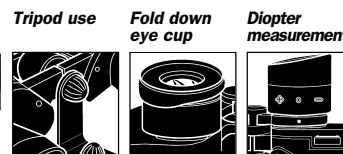
**SS3650**

High quality precision lenses. Dust caps for ocular and objective lenses. Rubber armoured body protection. Complete with tripod and mounting point.

Includes case with shoulder strap, and cleaning cloth. Bag has integral divider which separates the scope from the tripod to eliminate undue wear and tear.



**Prism type:** Porro.  
**Magnification:** 18 - 36x.  
**Objective lens:** 50mm.  
**Angle of view:** 26 - 43°.  
**Field of view at 1000m:** 23 - 38m.



**Exit pupil:** 1.5 - 4mm.  
**Focusing method:** Manual.  
**Dimensions:** (W x H x D) 380 x 360 x 330mm.  
**Weight:** 1190g.

Product Number	Magnification x Lens Diameter	Order Code
SS3650	18-36 x 50	<b>-3100K</b>



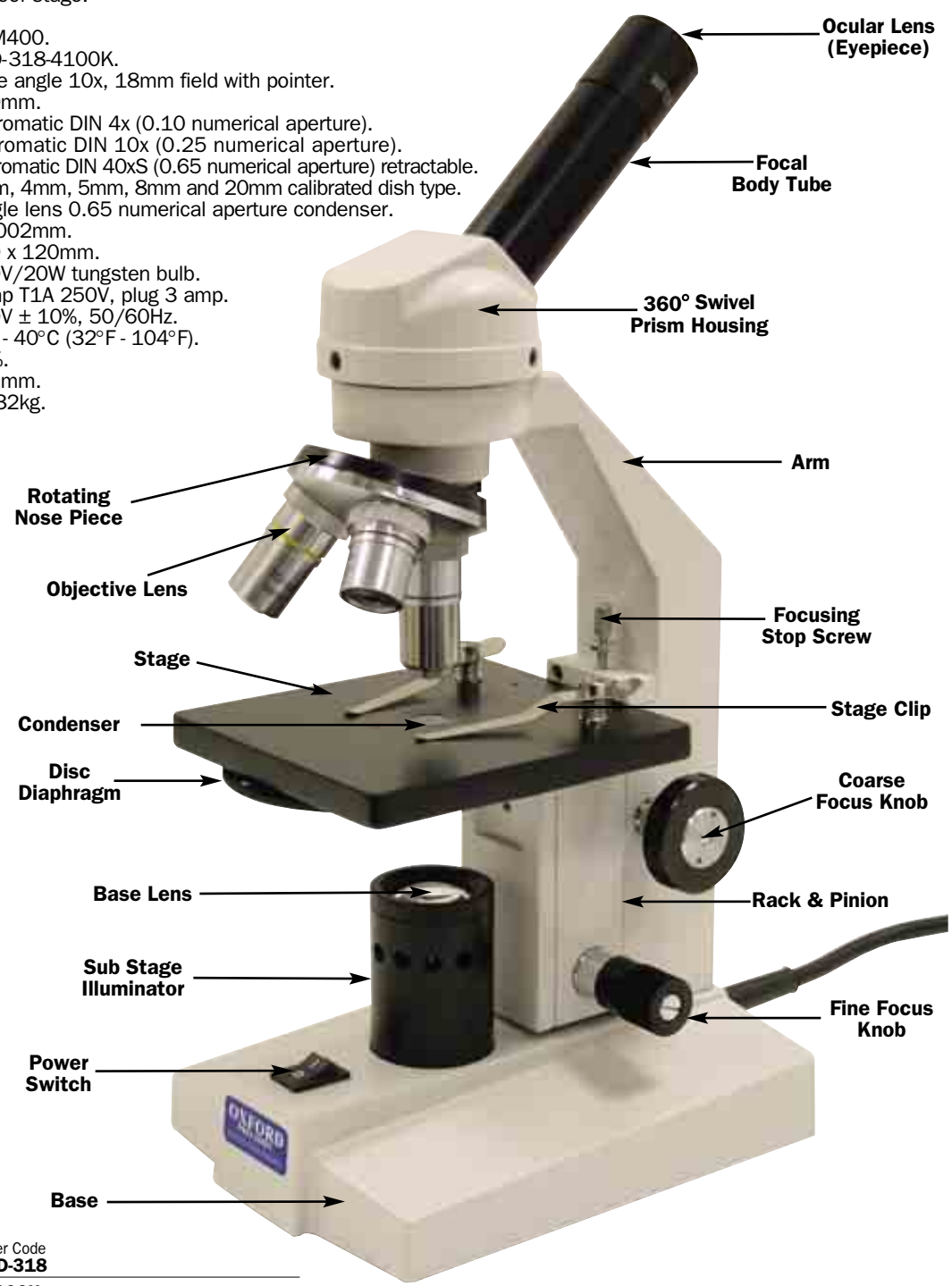
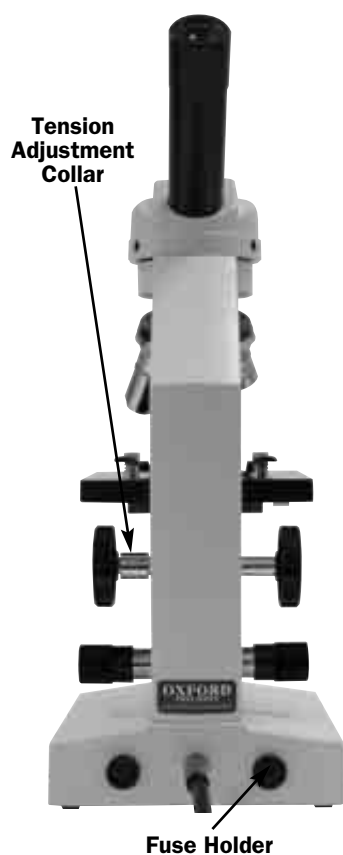
**PRECISION EQUIPMENT**

**BCM400**

Constructed to high optical and mechanical standards, the Oxford Biological Compound Microscope produces a clear and well defined two dimensional image.

- Designed for clinical examination and teaching demonstrations in laboratories, scientific research, colleges and the medical field.
- An ideal instrument for biological, bacteriological, pathological and pharmaceutical research.
- High quality prism providing a magnification of up to 400x.
- Fully coated optical system for improved light transmission and overall image quality.
- Objective lenses are of DIN standard, colour coded and click into position.
- Eyepiece with pointer.
- Monocular head which is inclined at 45° and can be rotated 360°.
- Separate fine and coarse focus by rack and pinion with a built-in slip clutch and tension adjustment.
- Built in illuminator with a blue filter and a built in condenser lens ensuring optimal light effect for comfortable and clear viewing.
- Large die cast acid and reagent proof stage.

- Model number:** . . . . . BCM400.  
**Order Code:** . . . . . OXD-318-4100K.  
**Eyepiece:** . . . . . Wide angle 10x, 18mm field with pointer.  
**Tube length:** . . . . . 160mm.  
**Objective lenses:** . . . . . Achromatic DIN 4x (0.10 numerical aperture).  
**Objective lenses:** . . . . . Achromatic DIN 10x (0.25 numerical aperture).  
**Objective lenses:** . . . . . Achromatic DIN 40xS (0.65 numerical aperture) retractable.  
**Disc diaphragm:** . . . . . 3mm, 4mm, 5mm, 8mm and 20mm calibrated dish type.  
**Stage condenser:** . . . . . Single lens 0.65 numerical aperture condenser.  
**Fine focusing:** . . . . . 0.0002mm.  
**Stage:** . . . . . 110 x 120mm.  
**Lamp:** . . . . . 220V/20W tungsten bulb.  
**Fuse type:** . . . . . Lamp T1A 250V, plug 3 amp.  
**Voltage:** . . . . . 220V ± 10%, 50/60Hz.  
**Indoor working temperature:** . . . . . 0°C - 40°C (32°F - 104°F).  
**Maximum relative humidity:** . . . . . 85%.  
**Overall height:** . . . . . 355mm.  
**Net weight:** . . . . . 2.832kg.



Part Number	Order Code
BCM400	<b>OXD-318-4100K</b>

**Accessory**

Description	Order Code
Slide	<b>OXD-398-5300K</b>



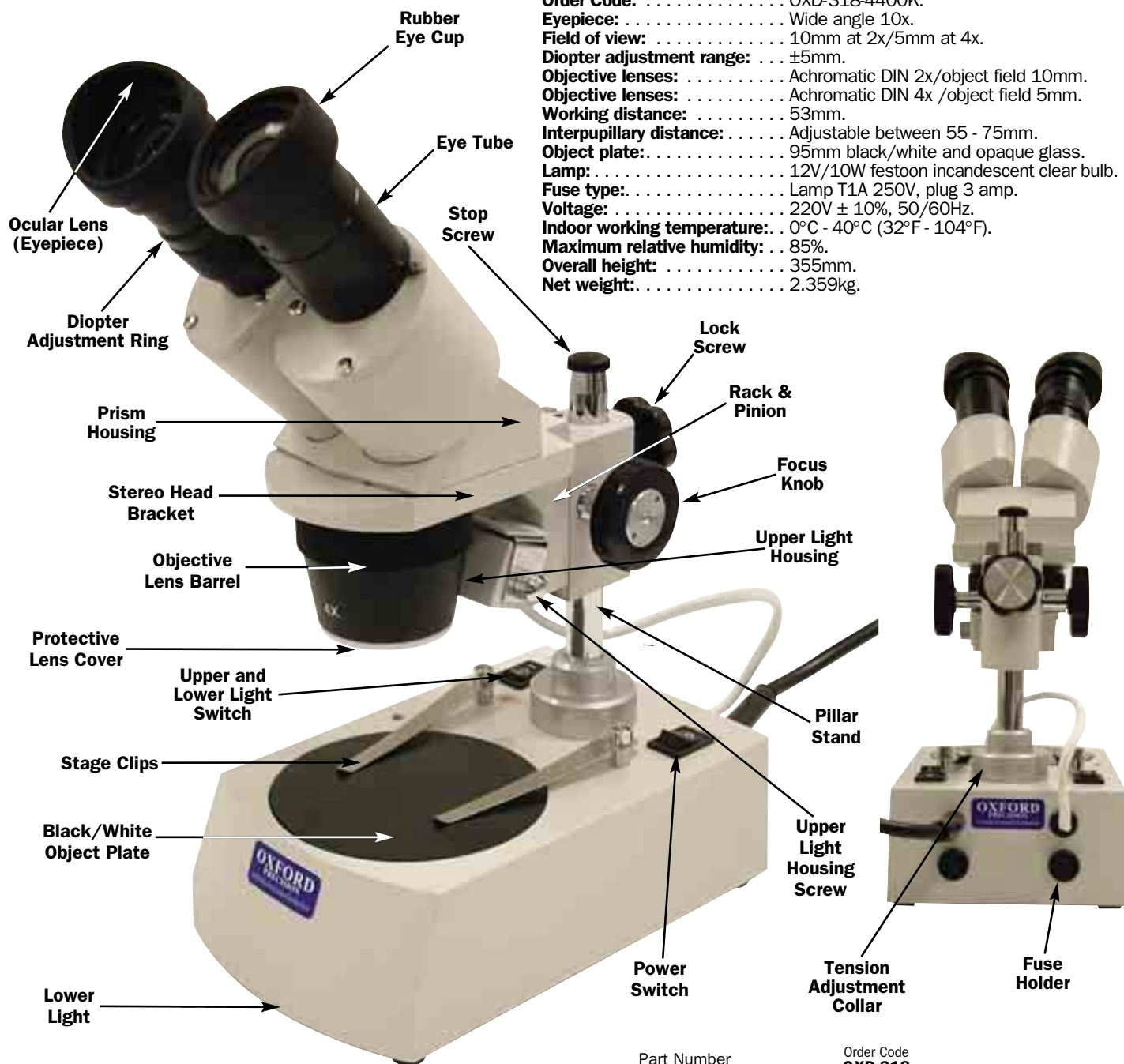
**OXFORD PRECISION** *Dissecting Stereo Metallurgical Microscope*

**DSM040:**

Constructed to high optical and mechanical standards, the Oxford Dissecting Stereo Microscope produces a clear and well defined three dimensional image.

- Designed for clinical examination and teaching demonstrations in laboratories, scientific research, colleges and the medical field.
- Provides true colour.
- High quality prism providing a magnification of up to 40x.
- Fully coated optical system for improved light transmission and overall image quality.
- Objective lenses are of DIN standard and click into position.
- Rubber eyecups and a diopter adjustment ring for clear and comfortable viewing.
- Rack and pinion focusing with built in slip clutch system.
- A choice of either upper or lower illumination or both.
- Pillar mounted body rotates 360° and can be removed and mounted on machine tools or laboratory apparatus.
- Binocular head which is inclined at 45°.
- Built in illuminator.

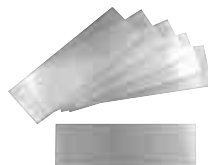
**Model number:** . . . . . DSM040.  
**Order Code:** . . . . . OXD-318-4400K.  
**Eyepiece:** . . . . . Wide angle 10x.  
**Field of view:** . . . . . 10mm at 2x/5mm at 4x.  
**Diopter adjustment range:** . . . ±5mm.  
**Objective lenses:** . . . . . Achromatic DIN 2x/object field 10mm.  
**Objective lenses:** . . . . . Achromatic DIN 4x /object field 5mm.  
**Working distance:** . . . . . 53mm.  
**Interpupillary distance:** . . . . . Adjustable between 55 - 75mm.  
**Object plate:** . . . . . 95mm black/white and opaque glass.  
**Lamp:** . . . . . 12V/10W festoon incandescent clear bulb.  
**Fuse type:** . . . . . Lamp T1A 250V, plug 3 amp.  
**Voltage:** . . . . . 220V ± 10%, 50/60Hz.  
**Indoor working temperature:** . . 0°C - 40°C (32°F - 104°F).  
**Maximum relative humidity:** . . 85%.  
**Overall height:** . . . . . 355mm.  
**Net weight:** . . . . . 2.359kg.



Part Number	Order Code
DSM040	<b>OXD-318-4400K</b>

**Accessories**

Description	Order Code
Slides	<b>OXD-398</b>
Microscope Bulb	<b>-5300K</b>
	<b>-5320K</b>



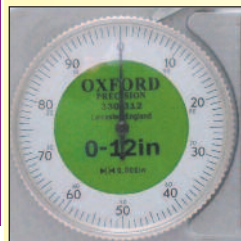
**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

**OXFORD PRECISION Dual Counter Height Gauges**

Used in conjunction with a granite or metal surface plate, the Oxford dual counter height gauge will give you the accuracy you need when laying out work prior to machining. The height gauge can also be used in much the same way as a caliper to help you determine the dimensions of a workpiece.

- Designed for accurate marking out and taking precise measurements.
- Measuring head positioned on sturdy twin columns providing highly repeatable height measurements and stability.
- Easy reading with dual directional negative and positive reading mechanical digital counters.
- Rotating dial face.
- Independently set the counters, to zero at any position.
- Large feed wheel for rapid and precise adjustment.
- Tungsten carbide tipped scriber for accurate marking out.
- Manufactured from durable stainless steel.

**PRECISION EQUIPMENT**



**Reading**  
Inch: 0.001"/0.1"  
Metric: 0.01mm/1mm



Range	Product Number	Range/ Rev	Weight each	Order Code
12"	DHG000	0.1in	4.25kg	<b>-3120K</b>
24"	DHG000	0.1in	10kg	<b>-3240K</b>
300mm	DHG000	1mm	4.25kg	<b>-3620K</b>
600mm	DHG000	1mm	10kg	<b>-3740K</b>

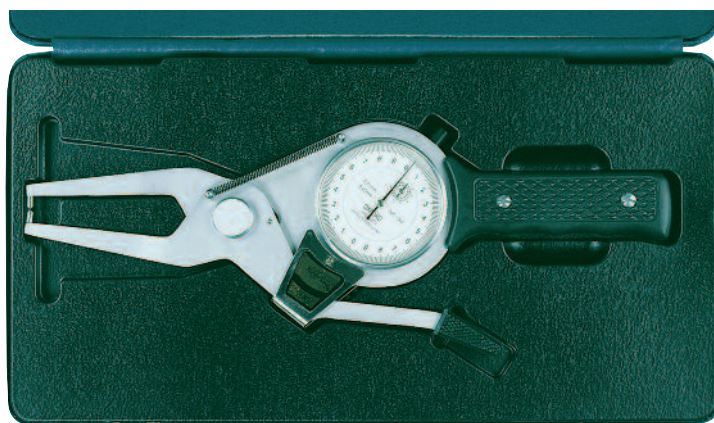
**Leg Type Dial Calipers**

Leg type dial calipers used for measuring diameters and narrow grooves in hard to reach places.

**Internal specifications:** range: 55 - 75mm, graduation: .01mm, groove depth: 8mm, groove width: 3mm, maximum reach: 100mm.

**External specifications:** range: 0 - 20mm, graduation: 0.01mm, groove depth: 6mm, groove width: 3mm, throat depth: 60mm.

Type	Groove Depth	Reach/ Depth	Weight each	Order Code
External	6mm	60mm		<b>-0600K</b>
Internal	8mm	100mm		<b>-0750K</b>



**Dial Thickness Gauge**

For quickly measuring the thickness of paper, film, leather, rubber etc. The spindle is moved using the thumb lever. With adjustable bezel. Measuring faces are made of high grade tool steel, hardened, ground and lapped for accuracy. Thumb lever raises spindle to allow for workpiece insertion.

**Range:** 0 - 10mm.  
**Graduations:** 0.01mm.  
**Throat depth:** 30mm.  
**Accuracy:** +/-0.02mm.



Type	Groove Depth	Reach/ Depth	Weight each	Order Code
External	6mm	60mm	236g	<b>-0100K</b>

**KENNEDY Pocket Type Dial Thickness Gauges**

Designed for carrying convenience. Lightweight - metric only 68g and inch 98g. Supplied in leather wallet.

**Spindle diameter:** 6mm flat.  
**Anvil diameter:** 6.5mm flat.  
**Parallelism:** 5µm or less.  
Conversion chart printed on back of gauge.  
**Accuracy:** +/-0.02mm.



Range	Graduation	Throat	Weight each	Order Code
0-10mm	0.01mm	19mm	136g	<b>-4020K</b>



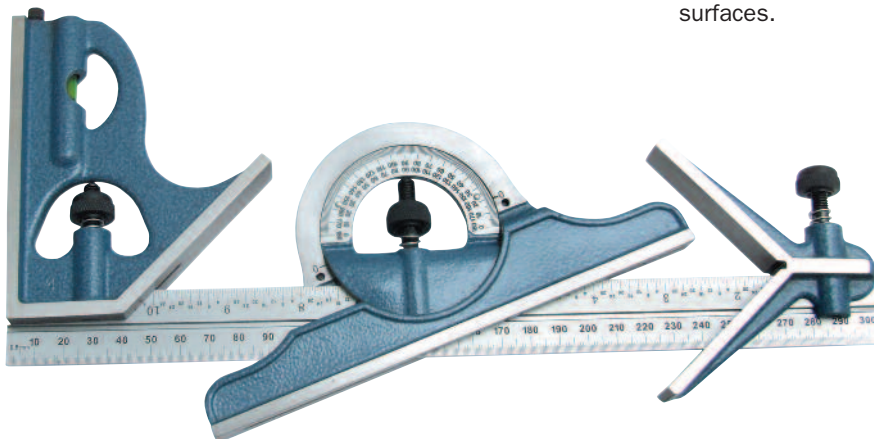
**KENNEDY** *Combination Set*  
QUALITY INDUSTRIAL TOOLING

Multi-function, can be used as a square, mitre, depth and height gauge. Each set consists of rule, square head, centre head, and protractor.

**Square head:**  
with accurate machined faces, fixed angles of 45° and 90°, built-in spirit level, adjusting nut and scriber.

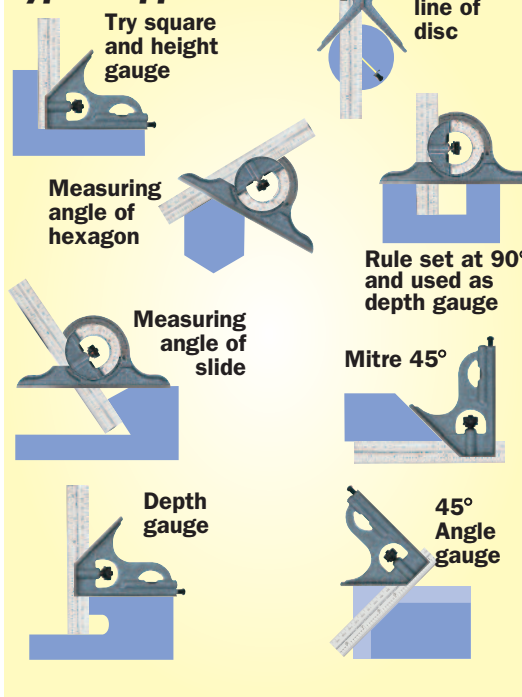
**Protractor head:**  
for measuring angles up to 180°, graduated to 1° with one machined face, three knurled securing/adjusting nuts and built-in spirit level.

**Centre head:**  
for locating the centre of round bars, with a fixed angle of 90° and two accurately machined internal surfaces.



**Rule:** 300mm/12" hardened stainless steel, metric and inch measurements with graduations in 0.5mm and 1/64".

**Typical Applications:**



**Combination Sets & Rules**

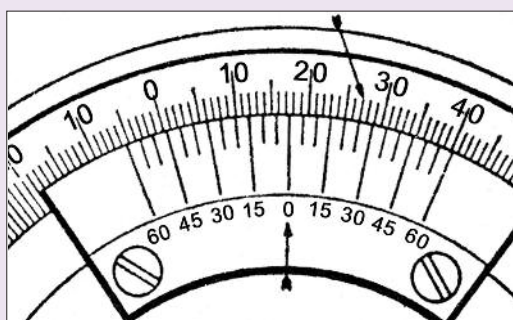
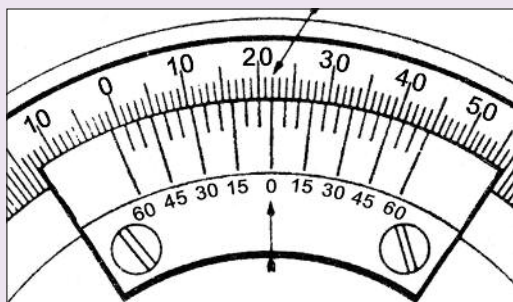
Type	Weight each	Order Code
Combi set with 300mm/12" rule	890g	<b>-3040K</b>
Replacement 300mm/12" rule	110g	<b>-3120K</b>
Optional 600mm/24" rule	220g	<b>-3240K</b>

Description	Weight each	Order Code
Square Head, Level & Scriber	320g	<b>-3070K</b>
Centre Head with Lock Nut	190g	<b>-3080K</b>
Protractor Head Graduated 0 - 180°	490g	<b>-3090K</b>

**How to Read a Universal Bevel Protractor**

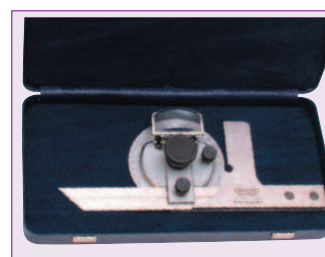
Whole numbers of degrees can be read by simply taking readings with the zero line on the vernier. Where this line coincides with a line on the main scale, an exact number of whole degrees is indicated. The vernier on a bevel protractor enables readings to be taken to five minutes or 1/12 of a degree. One division on the vernier is this amount shorter than the two divisions on the main scale.

If the zero line on the vernier does not coincide exactly with a line on the main scale, it is necessary to find the vernier line which does coincide with a main scale line; and this indicates the number of five minutes or 1/12 of a degree to be added to the whole of degrees. To take a reading, therefore, note the number of whole degrees, and then count in the same direction, the number of divisions on the vernier scale from the zero line to the first line on the vernier scale that coincides with a line on the main scale. As each of these is five minutes, multiply by five and the number of minutes to be added to the whole number of degrees will be indicated.



**OXFORD PRECISION Vernier Bevel Protractor**

**106UF**  
Suitable for measuring and marking out angles. Fully hardened and ground stainless steel. Bevelled blade ends. Scale plate is graduated 0 - 90° - 0, in both directions through 360°. Magnifying lens for easy reading of vernier scale to 5 minutes of degree (1/12th of a degree).



Blade Size	Weight each	Order Code
150mm		<b>OXD-330 -9050K</b>

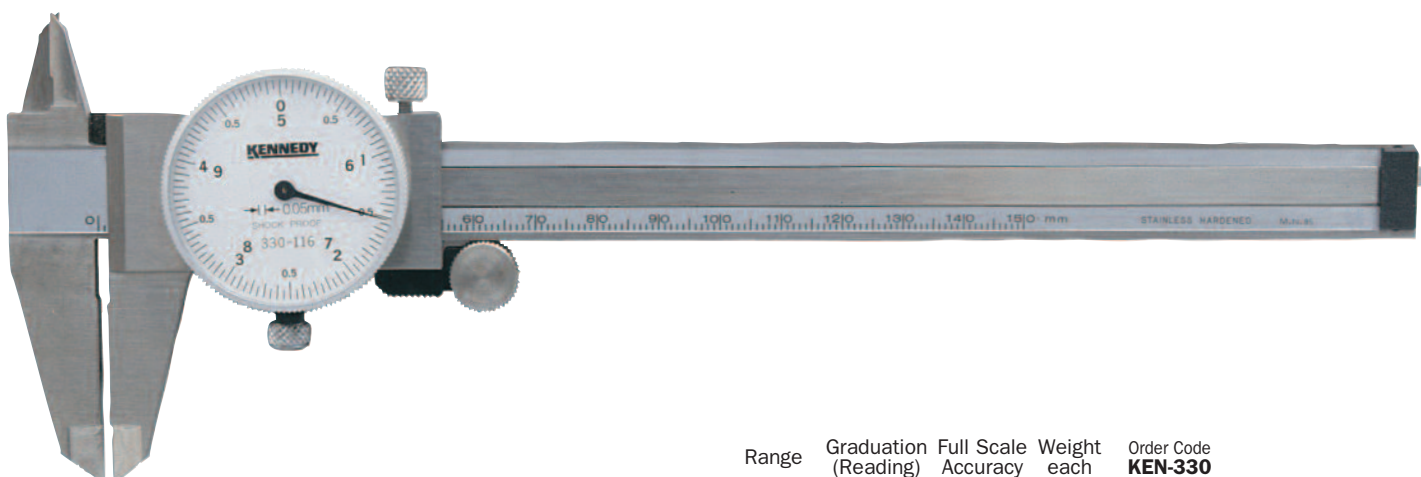
**GROUP 330 DIAL CALIPERS**

**KENNEDY** *Dial Calipers*  
QUALITY INDUSTRIAL TOOLING

Rack covers prevent dust from fouling teeth of racks. All measuring faces are precision ground and micro lapped for absolute inside, outside, depth and step readings. Manufactured to **DIN 862**.



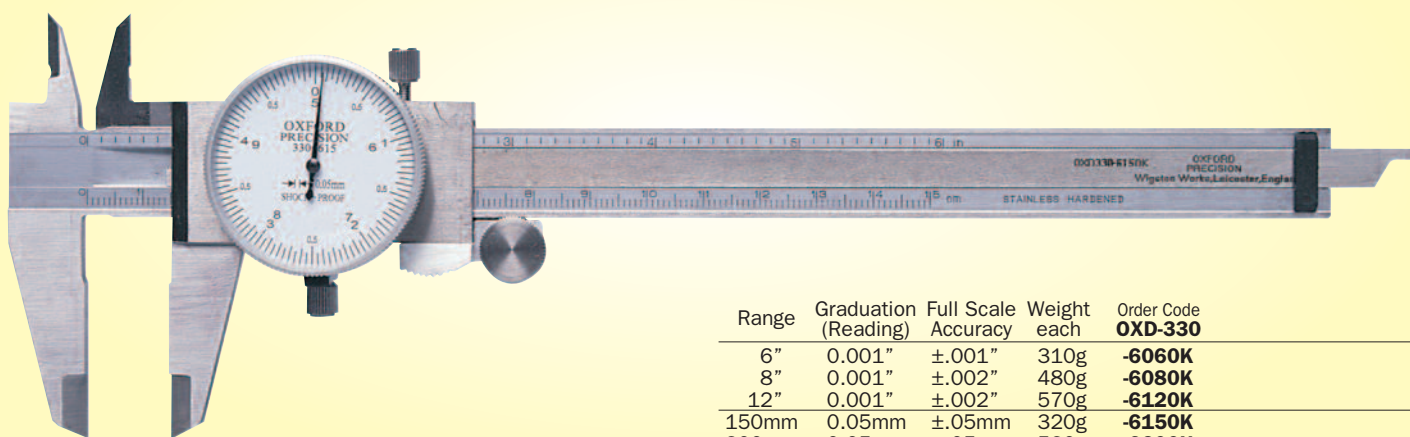
**PRECISION EQUIPMENT**



Range	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
150mm	0.05mm	±.05mm	320g	<b>KEN-330</b> <b>-1160K</b>

**OXFORD PRECISION** *Dial Calipers*

Rack covers prevent dust from fouling teeth of racks. All measuring faces are precision ground and micro lapped for absolute inside, outside, depth and step readings. Manufactured to **DIN 862**.

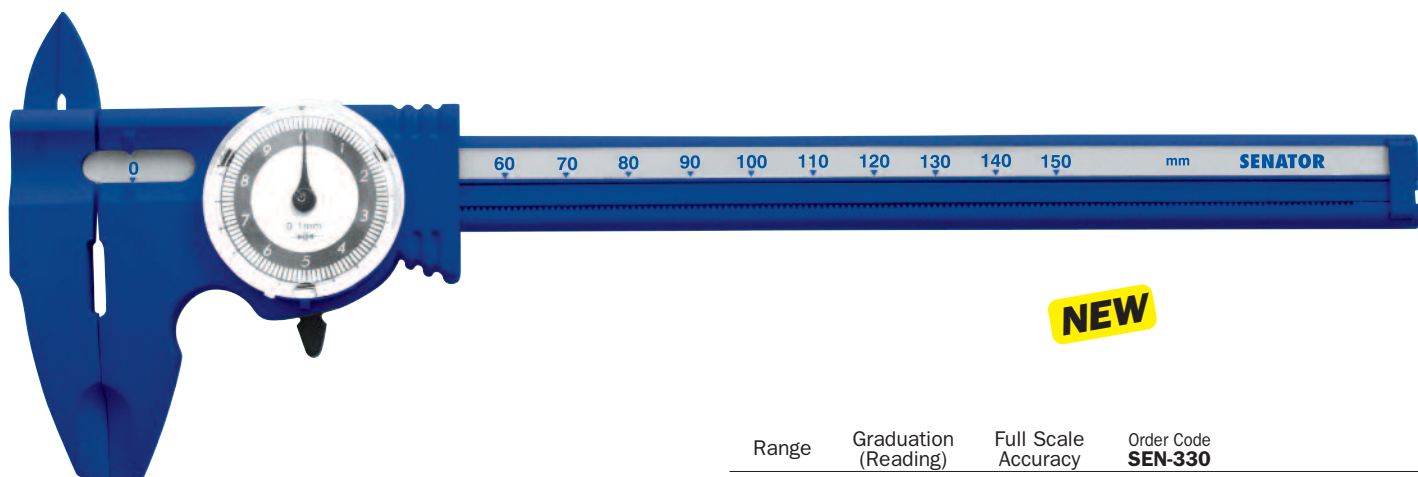


Range	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
6"	0.001"	±.001"	310g	<b>-6060K</b>
8"	0.001"	±.002"	480g	<b>-6080K</b>
12"	0.001"	±.002"	570g	<b>-6120K</b>
150mm	0.05mm	±.05mm	320g	<b>-6150K</b>
200mm	0.05mm	±.05mm	530g	<b>-6200K</b>
300mm	0.05mm	±.05mm	750g	<b>-6300K</b>

**SENATOR** *Plastic Dial Caliper - Metric*  
QUALITY TOOLING

Accurate four way measurement: internal, external, step and depth. Sliding jaw lock. Manufactured from high strength, lightweight polymide plastic.

**Range:** 150mm. **Accuracy:** ±0.1mm. **Reading:** 0.1mm.



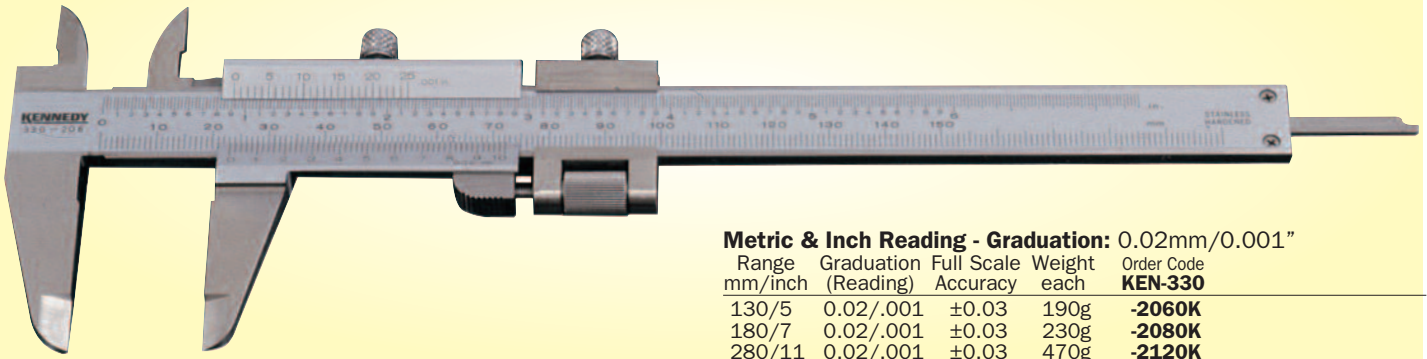
**NEW**

Range	Graduation (Reading)	Full Scale Accuracy	Order Code
150mm	0.1mm	±.0.1mm	<b>SEN-330</b> <b>-6100K</b>

**KENNEDY** *Fine Adjustment Vernier Calipers*  
QUALITY INDUSTRIAL TOOLING



Incorporating Quadri feature - gives outside, inside, depth and step readings. Fine adjustment feature allows improved sensitivity of slider movement. 14° vernier face angle reduces parallax. Satin chrome finish with clear easy read graduations.



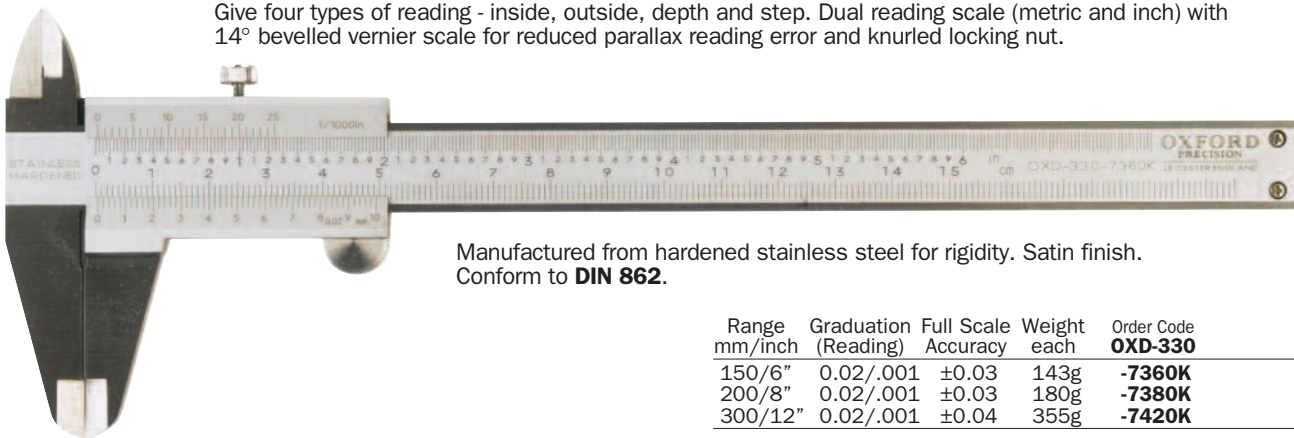
**Metric & Inch Reading - Graduation: 0.02mm/0.001"**

Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code <b>KEN-330</b>
130/5	0.02/.001	±0.03	190g	<b>-2060K</b>
180/7	0.02/.001	±0.03	230g	<b>-2080K</b>
280/11	0.02/.001	±0.03	470g	<b>-2120K</b>

**OXFORD PRECISION** *Standard Vernier Calipers*



Give four types of reading - inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error and knurled locking nut.



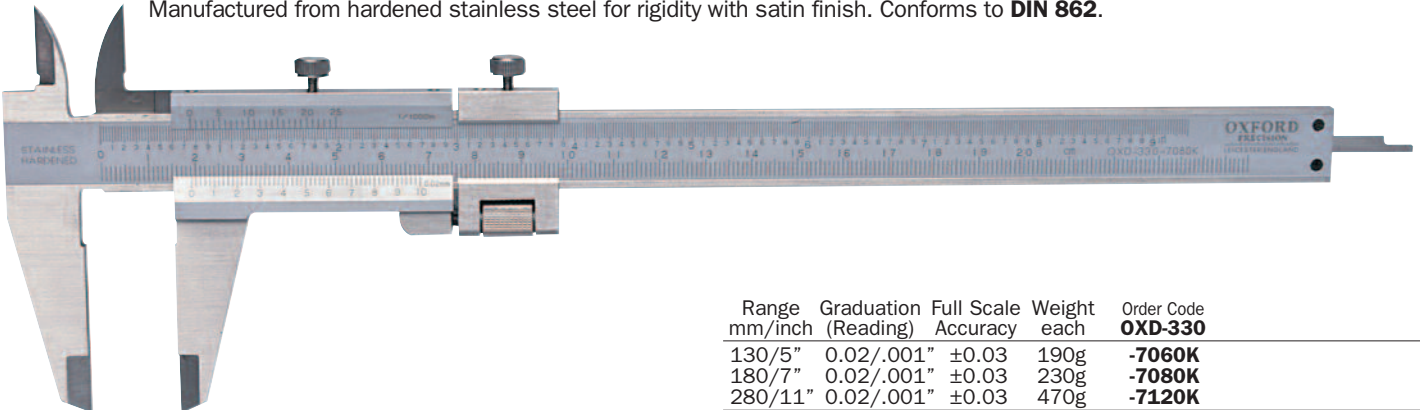
Manufactured from hardened stainless steel for rigidity. Satin finish. Conform to **DIN 862**.

Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code <b>OXD-330</b>
150/6"	0.02/.001	±0.03	143g	<b>-7360K</b>
200/8"	0.02/.001	±0.03	180g	<b>-7380K</b>
300/12"	0.02/.001	±0.04	355g	<b>-7420K</b>

*Fine Adjustment Vernier Calipers*

Give four types of reading, inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error, fine adjustment assembly and knurled locking nut.

Manufactured from hardened stainless steel for rigidity with satin finish. Conforms to **DIN 862**.



Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code <b>OXD-330</b>
130/5"	0.02/.001"	±0.03	190g	<b>-7060K</b>
180/7"	0.02/.001"	±0.03	230g	<b>-7080K</b>
280/11"	0.02/.001"	±0.03	470g	<b>-7120K</b>

*Heavy Duty Vernier Calipers*

Give inside and outside readings. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error, fine adjustment assembly and knurled locking nut. Internal reading edges have rounded faces for accurate bore measurement. Manufactured from hardened stainless steel.

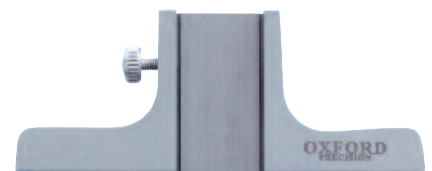


Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code <b>OXD-330</b>
450/18"	0.02/0.001	±0.1	2.25kg	<b>-7180K</b>
600/24"	0.02/0.001	±0.1	2.40kg	<b>-7240K</b>

*Depth Gauge Attachment*

Stainless steel depth gauge attachment for use with 150 and 200mm (6" and 8") depth gauges. 16mm vernier recess width with knurled locking nut.

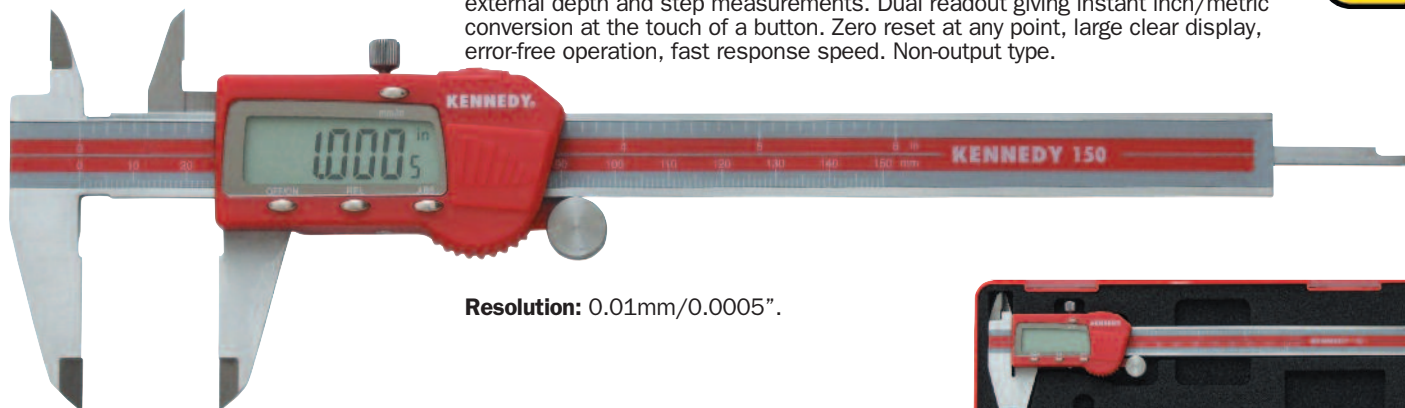
**NEW**



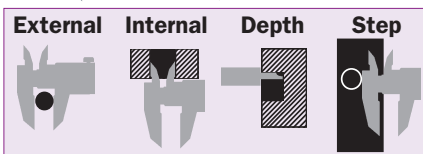
Size	Models suited (mm)	Weight each	Order Code <b>OXD-330</b>
75mm	150/200	45g	<b>-9600K</b>

**KENNEDY** *ABSolute Digital Electronic Calipers*  
QUALITY INDUSTRIAL TOOLING

Modern design with a knurled thumb wheel for easy use when taking internal and external depth and step measurements. Dual readout giving instant inch/metric conversion at the touch of a button. Zero reset at any point, large clear display, error-free operation, fast response speed. Non-output type.



**Resolution:** 0.01mm/0.0005".

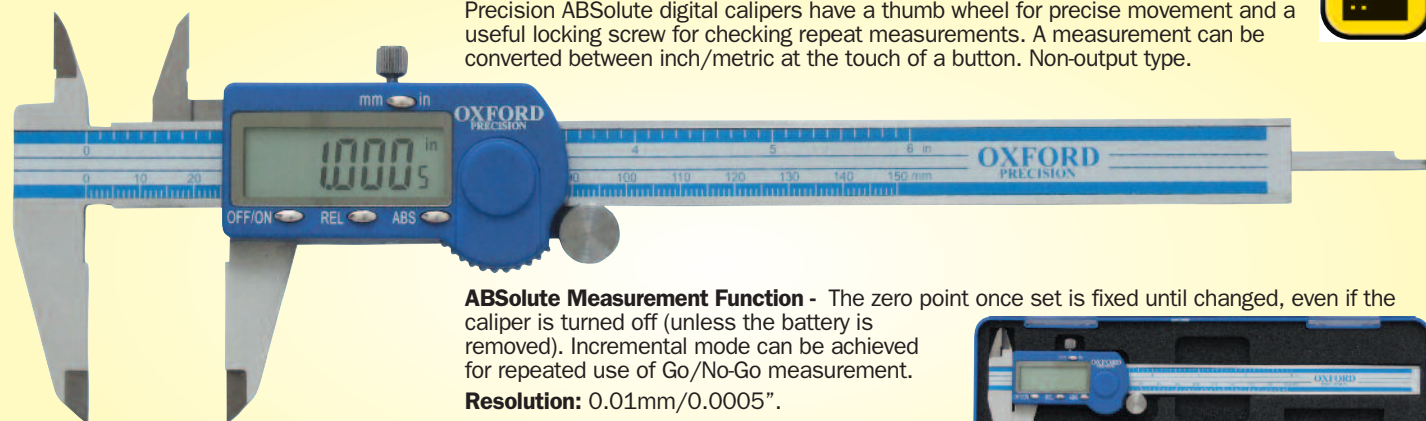


Extra batteries available -  
 Order Code **EDI-904-4000K.**

Range	Accuracy (mm)	Weight each	Order Code
150mm/ 6"	±0.03		<b>-2260K</b>
200mm/ 8"	±0.03		<b>-2280K</b>
300mm/12"	±0.03		<b>-2320K</b>

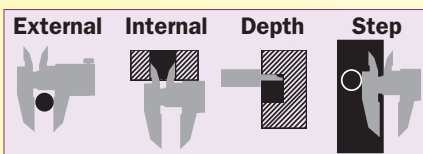
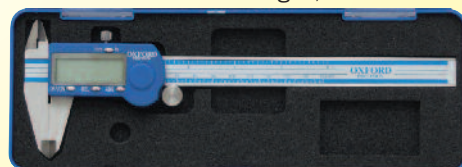
**OXFORD PRECISION** *Precision ABS Digital Calipers*

Precision ABSolute digital calipers have a thumb wheel for precise movement and a useful locking screw for checking repeat measurements. A measurement can be converted between inch/metric at the touch of a button. Non-output type.



**ABSolute Measurement Function** - The zero point once set is fixed until changed, even if the caliper is turned off (unless the battery is removed). Incremental mode can be achieved for repeated use of Go/No-Go measurement.

**Resolution:** 0.01mm/0.0005".

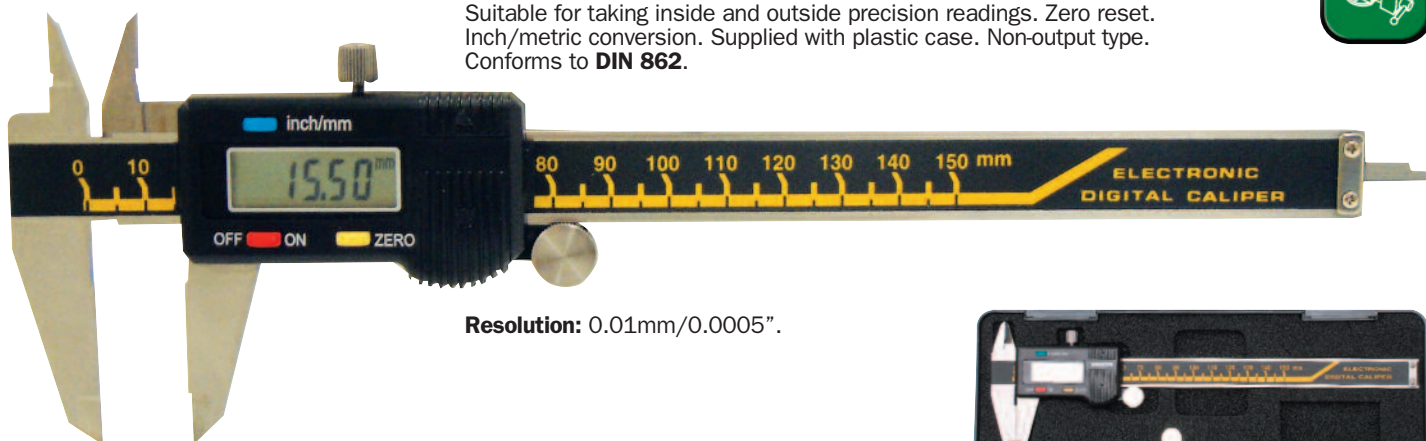


Extra batteries available -  
 Order Code **EDI-904-4000K.**

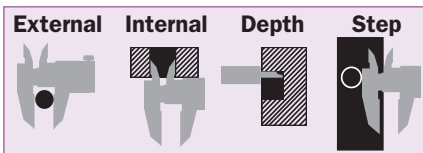
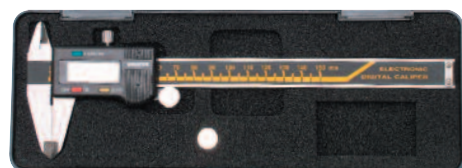
Range	Accuracy (mm)	Weight each	Order Code
150mm/ 6"	±0.03		<b>-2260K</b>
200mm/ 8"	±0.03		<b>-2280K</b>
300mm/12"	±0.03		<b>-2320K</b>

**SENATOR QUALITY TOOLING** *Economy Digital Calipers*

Suitable for taking inside and outside precision readings. Zero reset. Inch/metric conversion. Supplied with plastic case. Non-output type. Conforms to **DIN 862.**



**Resolution:** 0.01mm/0.0005".



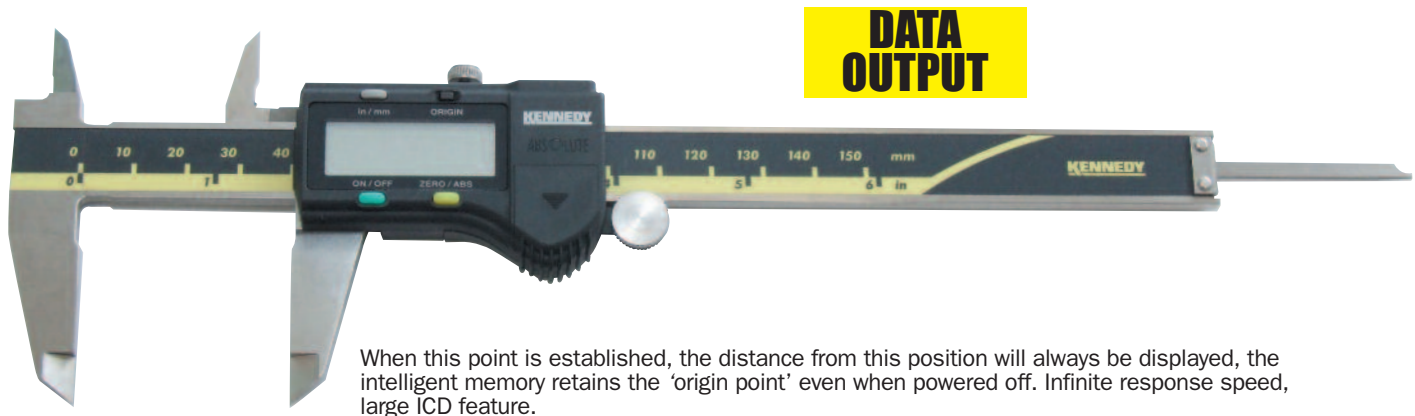
Extra batteries available -  
 Order Code: **ENR-904-4000K.**

Range	Accuracy (mm)	Weight each	Order Code
150mm/6"	±0.03	310g	<b>-1330K</b>
200mm/8"	±0.03	310g	<b>-1360K</b>
300mm/12"	±0.03	310g	<b>-1400K</b>



**KENNEDY** **ABSolute Calipers with SPC Output**  
QUALITY INDUSTRIAL TOOLING

With SPC data output (compatible with Mitutoyo SPC equipment), inch/metric conversion, On/off switch and zero set at any point. The absolute zero feature enables an (ABS) 'origin point' to be set anywhere within the measuring range.



**DATA OUTPUT**

When this point is established, the distance from this position will always be displayed, the intelligent memory retains the 'origin point' even when powered off. Infinite response speed, large ICD feature.

**Resolution:** 0.01mm/0.0005".

Extra batteries available - Order Code **EDI-904-4000K**.



Range	Accuracy (mm)	Weight each	Order Code <b>KEN-331</b>
150mm/6"	±.02	310g	<b>-1710K</b>
200mm/8"	±.02	500g	<b>-1720K</b>
300mm/12"	±.02	750g	<b>-1730K</b>

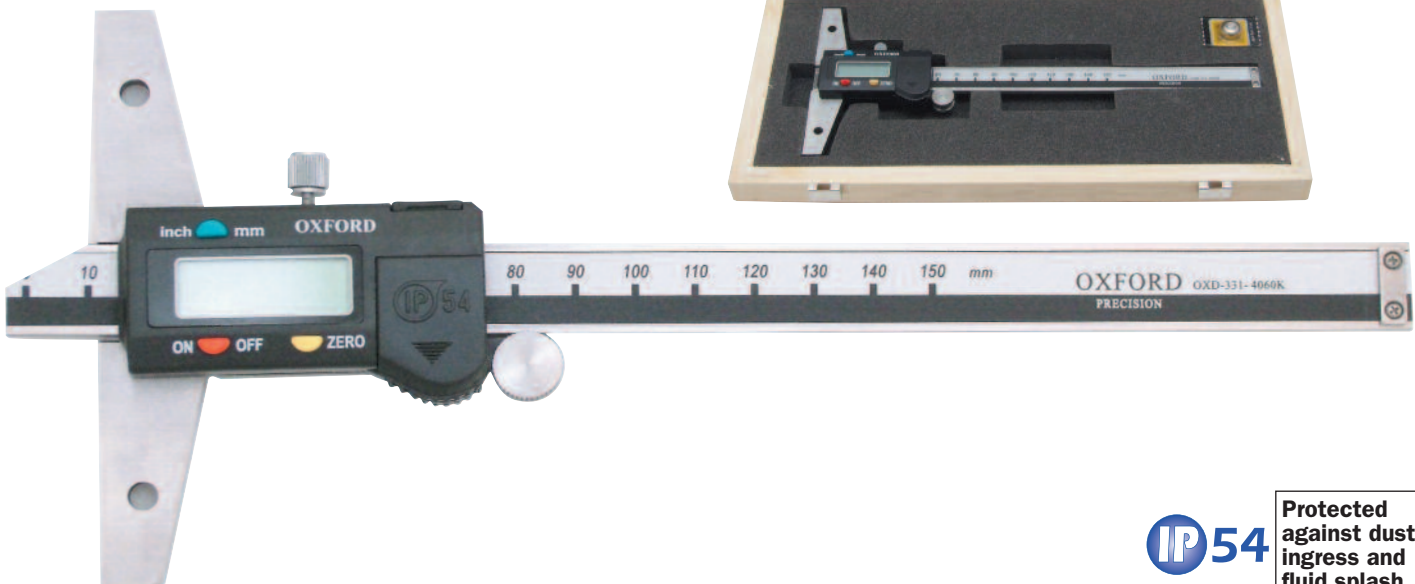
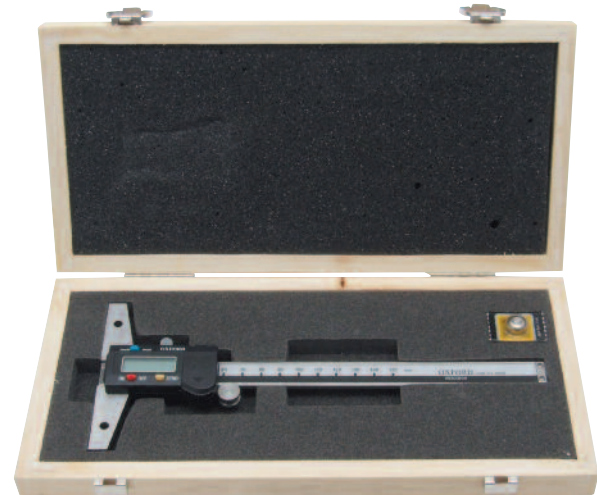
**Connecting Cable**

For SPC data output compatible calipers. Complete with data hold switch.

Product Number	Length	Weight each	Order Code <b>KEN-331</b>
959149	1m	40g	<b>-9010K</b>
959150	2m	60g	<b>-9020K</b>

**OXFORD** **0 - 150mm/0 - 6"**  
PRECISION **Digital Depth Gauge**

Easy handling with mm/inch measurement, large digital display. External readings with zero set at any point fitted with a thumb wheel for greater accuracy.



**IP54**

Protected against dust ingress and fluid splash

inch mm **CONVERTIBLE**    **ZERO RESET**    **READING .01mm .0005"**    **SPARE BATTERY**

Description	Order Code <b>OXD-331</b>
0 - 150mm/6" Digital Depth Gauge	<b>-4060K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

**OXFORD PRECISION Digital Electronic External Micrometer**

Easy handling with a large digital display, quick response speed and zero set at any point. Metric/inch measurement. The micrometer can be connected to a PC serial port by the SPC cable provided.

**IP54** rating.  
**Range:** 0 - 25mm/0 - 1".  
**Resolution:** 0.001mm/0.00005".  
**Measuring force:** 5 - 10N.  
**Accuracy:** -0.004mm.

**IP54**

**Protected against dust ingress and fluid splash**



Extra batteries are available, Order Code **EDI-904-4000K**.

Range	Resolution	Order Code
0 - 25mm/0 - 1"	0.001mm/0.0005"	<b>-5010K</b>

**KENNEDY QUALITY INDUSTRIAL TOOLING Digital Electronic External Micrometer**

Features one touch preset, lightweight design, LCD display, inch/metric conversion at the touch of a button, origin setting and error alarm, ratchet thimble type adjustment and carbide tipped measuring faces. IP65 coolant proof. Supplied in fitted bench case.

**Measuring force:** 5 - 10N.  
**Resolution:** 0.001mm/0.00005".  
**Accuracy:** ±0.001mm"/0.00005".



**IP65**

**Protected against dust ingress and fluid splash**



Extra batteries are available, Order Code **EDI-904-4000K**.

Range	Weight each	Order Code
0 - 25mm/0 - 1"	270g	<b>-3010K</b>

**Digital Protractor**

This digital protractor has a range of 360° split into 4 x 90° quadrants. It is simple to calibrate and the intelligent display changes orientation at 90° and 270° to remain readable. It has a 'V' groove on the top and bottom for easy placement on acute angled or cylindrical objects. 3V lithium battery gives up to 2000 hours use. Complete with a leatherette pouch That has a belt loop.



Extra batteries are available, Order Code **EDI-904-3240K**.

Range	Weight each	Order Code
360° (4 x 90° Quadrants)		<b>-4020K</b>

**IDS Digital Indicator**

**Features:**  
 Easy to use with clear digital LCD display. Large, easy-read 7.5mm LCD display. Soft-key touch for operator comfort. Superior construction quality.  
**Response speed:** ≤0.5m/s.  
 Auto power off.



**inch mm**  
**CONVERTIBLE**

**ZERO RESET**

**TRAVEL**  
 12.7mm  
 0.5"

**READING**  
 .01mm  
 .0005"

**IP54**

**Protected against dust ingress and fluid splash**

Description	Order Code
IDS Digital Indicator	<b>OXD-331 -6010K</b>

**IDM Digital Indicator**

**Features:**  
 Easy to use with clear digital LCD display. Large, easy-read 7.5mm LCD display. Soft-key touch for operator comfort. Superior construction quality.  
**Response speed:** ≤0.5m/s.  
 Auto power off.

**Type IDM:**  
 Inch/metric conversion, zero reset, data hold, min. max display, fast display, auto power off.

Extra batteries are available, Order Code **EDI-904-4000K**.



**inch mm**  
**CONVERTIBLE**

**ZERO RESET**

**TRAVEL**  
 12.7mm  
 0.5"

**READING**  
 .001mm  
 .00005"

**IP54**

**Protected against dust ingress and fluid splash**

Description	Order Code
IDM Digital Indicator	<b>OXD-331 -6020K</b>



**KENNEDY** *Magnetic Stand Fitments*  
QUALITY INDUSTRIAL TOOLING

All main columns are threaded M8 x 1.25mm and are interchangeable with Kennedy, Oxford, Mitutoyo etc. base units except mini-mag (M6 x 1mm) also suitable for incorporating into special fixtures or threaded pot magnets.

**Light Duty Fitment - Plain**

Fitted as standard to **KEN-333-2010K**.  
**Column:** 6.3 x 120mm.  
**Threaded:** M6 x 1mm.



6.3mm Standard Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 5/16"	90g	<b>-2500K</b>

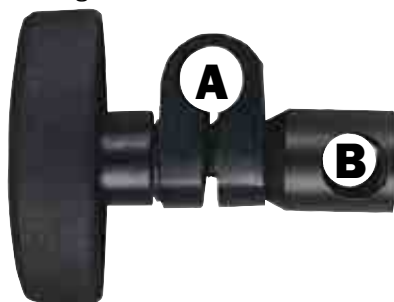
**Heavy Duty Fitment - Fine Adjusting**  
Fitted as standard to **KEN-333-2060K** and **KEN-333-2050K**.



**Column:** 12 x 175mm.  
**Cross bar:** 10 x 165mm with fine adjustment.  
**Threaded:** M8 x 1.25mm.

10mm Universal Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 1/8", 1/4", 5/16" & 3/8"	442g	<b>-2400K</b>

**Spare Knuckle Assemblies**  
For connecting columns and crossbars



Accepts A & B	Weight each	Order Code <b>KEN-333</b>
1/4" & 5/16" O/D	50g	<b>-3000K</b>
10 & 10mm O/D	55g	<b>-3010K</b>
12 & 8mm O/D	58g	<b>-2900K</b>
12 & 10mm O/D	60g	<b>-2920K</b>

**MAGNETIC BASES & COMPARATOR STANDS**

**Medium Duty Fitment - Plain**  
Fitted as standard to **KEN-333-2080K**.

**Column:** 12 x 185mm.  
**Cross bar:** 6.3 x 150mm.  
**Threaded:** M8 x 1.25mm.



6.3mm Standard Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 5/16"	420g	<b>-2460K</b>

**Heavy Duty Fitment - Plain**  
Fitted as standard to **KEN-333-2100K** and **KEN-333-2030K**.



**Column:** 12 x 175mm.  
**Cross bar:** 10 x 165mm.  
**Threaded:** M8 x 1.25mm.

10mm Universal Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 1/8", 1/4", 5/16" & 3/8"	400g	<b>-2420K</b>

**Crossbar Assembly**  
With lug adaptor. 1/4" I/D lug



Accepts	Weight each	Order Code <b>KEN-333</b>
6, & 8mm Spigot To Fit 10mm Bar	85g	<b>-3020K</b>
4, 6 & 8mm Spigot To Fit 12mm Bar	85g	<b>-3040K</b>

**Medium Duty Fitment - 3 Point**  
Fitted as standard to **KEN-333-2110K**.  
**3 point adjustable column:** 15 x 280mm max.  
**Threaded:** M8 x 1.25mm.



3 Point Special Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Dovetails Stem/Spigot Dia. 5/16"	312g	<b>-2480K</b>

**Heavy Duty Fitment - Plain**  
Fitted as standard to **KEN-333-2070K**.



**Column:** 20 x 266mm.  
**Cross bar:** 12 x 200mm.  
**Threaded:** M8 x 1.25mm.

14mm Universal Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 1/8", 1/4", 5/16" & 3/8"	1450g	<b>-2440K</b>

**Crossbar Assembly**  
With lug adaptor.



6.3mm Standard Clamp To Suit	Weight each	Order Code <b>KEN-333</b>
1/4" I/D Lug, Stem/Spigot Dia. 6mm	21g	<b>-3200K</b>

**KENNEDY Permanent Mag Stand**  
QUALITY INDUSTRIAL TOOLING

**Mini-Mag Stand**

With one magnetic face. Light duty with standard clamp, 30mm diameter keeper.

**Mounts:** 1/4" I/D lug, stem/spigot diameter: 5/16".

**Column height x diameter:** 120 x 6.3mm.

**Magnetic pull:** 14.75kg.

**Base dimensions:** 30 x 35mm.



Overall Height	Weight each	Order Code
150mm	380g	<b>-2010K</b>

**OXFORD Precision Mini-Mag Stand**

One magnetic face. Standard clamp. 30mm diameter base.

**Mounts:** 1/4" I/D lug, stem/spigot diameter: 5/16" and dovetail clamp.

**Base dimensions:** 30 x 35mm.

**Column height x diameter:** 150 x 6.3mm.

**Crossbar length x diameter:** 120 x 6.3mm.

**Magnetic pull:** 14kg.



Overall Height	Weight each	Order Code
150mm	0.38kg	<b>-7010K</b>

**Universal 4 Mag Stand**

With four magnetic faces, one at 45°. Universal clamp.

**Mounts:** 1/4" I/D lug, stem/spigot diameter: 1/8", 5/16" and 3/8".

**Base dimensions:** 60 x 50 x 55mm.

**Column height x diameter:** 175 x 12mm.

**Crossbar x diameter:** 160 x 10.0mm.

**Magnetic pull:** 30kg.



**Lever Switchable Universal 2 Mag Stand**

With two magnetic faces and large vee.



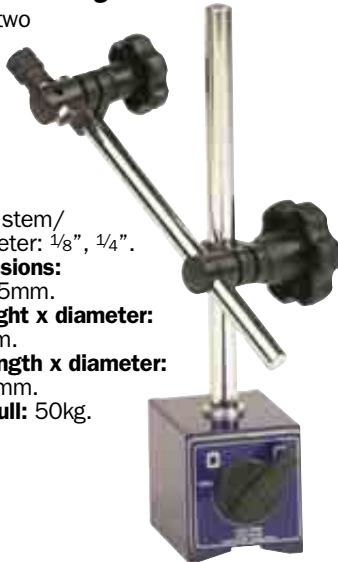
Heavy duty with universal clamp.

**Mounts:** 1/4" I/D lug, stem/spigot diameter: 1/8", 1/4".

Overall Height	Weight each	Order Code
230mm	1.2kg	<b>-2030K</b>

**Universal 2 Mag Stand**

Lever type, two magnetic faces and large vee. With universal clamp.



**Mounts:** 1/4" I/D lug, stem/spigot diameter: 1/8", 1/4".

**Base dimensions:** 60 x 65 x 55mm.

**Column height x diameter:** 175 x 12mm.

**Crossbar length x diameter:** 160 x 10.0mm.

**Magnetic pull:** 50kg.

Overall Height	Weight each	Order Code
230mm	1.20kg	<b>-7030K</b>

**Group 425**

Overall Height	Weight each	Order Code
230mm	1.20kg	<b>-7100K</b>

**Lever Switchable Fine Adjustable 2 Mag Stand**

With two magnetic faces and large vee. Heavy duty with universal clamp and fine adjustment.



**Mounts:** 1/4" I/D lug, stem/spigot diameter: 1/8", 1/4".

**Base dimensions:** 60 x 50 x 55mm.

**Column height x diameter:** 175 x 12mm.

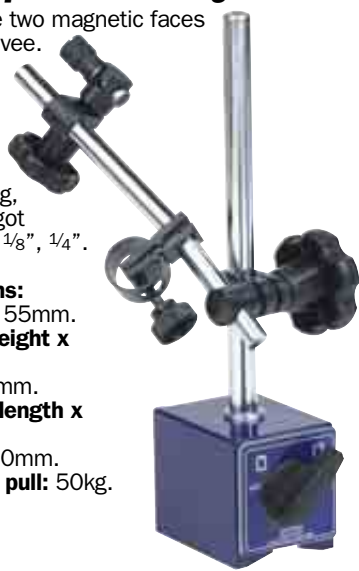
**Crossbar length x diameter:** 165 x 10mm.

**Magnetic pull:** 50kg.

Overall Height	Weight each	Order Code
230mm	1.2kg	<b>-2050K</b>

**Fine Adjustment 2 Mag Stand**

Lever type two magnetic faces and large vee. Universal clamp.



**Mounts:** 1/4" I/D lug, stem/spigot diameter: 1/8", 1/4".

**Base dimensions:** 60 x 50 x 55mm.

**Column height x diameter:** 175 x 12mm.

**Crossbar length x diameter:** 160 x 10.0mm.

**Magnetic pull:** 50kg.

Overall Height	Weight each	Order Code
230mm	1.20kg	<b>-7050K</b>

**Compact 4 Mag Stand**

With four magnetic faces, one at 45°. Standard clamp.

**Mounts:** 1/4" I/D lug, stem/spigot diameter: 5/16".

**Base dimensions:** 50 x 50 x 76mm.

**Column height x diameter:** 185 x 12mm.

**Crossbar length x diameter:** 165 x 6.3mm.

**Magnetic pull:** 30kg.



**Group 300**

Overall Height	Weight each	Order Code
280mm	1.90kg	<b>-7080K</b>



**Lever Switchable  
Elbow Joint 2 Mag Stand**

With two magnetic faces and large vee. Medium duty special clamp with fine adjustment.

**Mounts:**  
1/4" I/D lug, dovetail stem/spigot diameter: 5/16".

**Base dimensions:**  
60 x 50 x 55mm.  
**Column height x diameter:**  
Up to 280 x 15mm.  
**Magnetic pull:** 50kg.



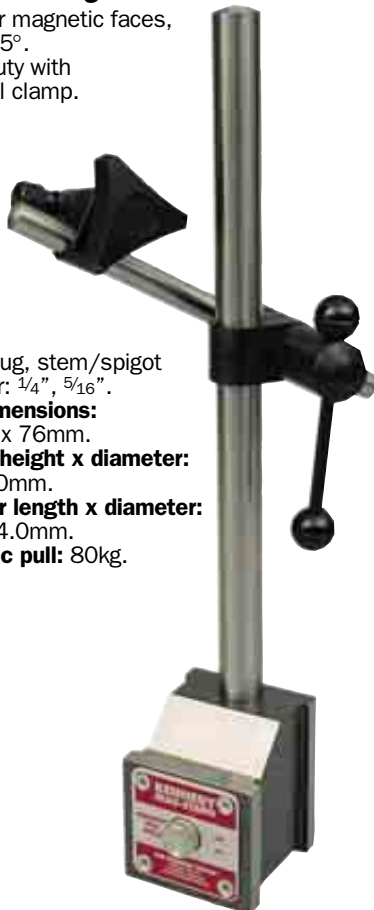
Elbow Joint	Weight each	Order Code
2 Mag	1.2kg	<b>-2110K</b>

**Major 4 Mag Stand**

With four magnetic faces, one at 45°. Heavy duty with universal clamp.

**Mounts:**  
1/4" I/D lug, stem/spigot diameter: 1/4", 5/16".

**Base dimensions:**  
64 x 64 x 76mm.  
**Column height x diameter:**  
266 x 20mm.  
**Crossbar length x diameter:**  
200 x 14.0mm.  
**Magnetic pull:** 80kg.



Overall Height	Weight each	Order Code
380mm	3.00kg	<b>-2070K</b>

**MAGNETIC BASES & COMPARATOR STANDS**

**Fine Adjusting 4 Mag Stand**

With four magnetic faces, one at 45°. Heavy duty with universal clamp and fine adjustment.

**Mounts:**  
1/4" I/D lug, stem/spigot diameter: 1/8", 1/4".

**Base dimensions:**  
64 x 64 x 76mm.  
**Column height x diameter:**  
175 x 12mm.  
**Crossbar length x diameter:**  
165 x 10.0mm.  
**Magnetic pull:** 80kg.



Overall Height	Weight each	Order Code
280mm	1.90kg	<b>-2060K</b>

**Universal 4 Mag Stand**

With four magnetic faces, one at 45°. Heavy duty with universal clamp.

**Mounts:**  
1/4" I/D lug, stem/spigot diameter: 1/8", 5/16" and 3/8".

**Base dimensions:**  
48 x 40 x 50mm.  
**Column height x diameter:**  
175 x 12mm.  
**Crossbar length x diameter:**  
165 x 10.0mm.  
**Magnetic pull:** 30kg.



Overall Height	Weight each	Order Code
227mm	0.90kg	<b>-2100K</b>

**Compact 4 Mag Stand**

With four magnetic faces, one at 45°. Medium duty with standard clamp.

**Mounts:**  
1/4" I/D lug, stem/spigot diameter: 5/16".

**Base dimensions:**  
50 x 50 x 76mm.  
**Column height x diameter:**  
185 x 12mm.  
**Crossbar length x diameter:**  
150 x 6.3mm.  
**Magnetic pull:** 30kg.



Overall Height	Weight each	Order Code
273mm	0.89kg	<b>-2080K</b>

**Lever Type Base - 50kg**

Fitted as standard to **KEN-333-2030K**, **-2050K** and **-2110K** two magnetic faces, bottom and back face. Large vee for curved surfaces.

**Threaded:** M8 x 1.25mm.  
**Base dimensions:** 60 x 50 x 55mm.  
**Magnetic pull:** 50kg.



Magnetic Pull	Weight each	Order Code
50kg	850g	<b>-2240K</b>

**Push Button Base - 30kg**

Fitted as standard to **KEN-333-2080K** and **-2100K**. Four magnetic faces, bottom, sides and 45° angle face for curved surfaces.

**Threaded:** M8 x 1.25mm.  
**Magnetic pull:** 30kg.



Magnetic Pull	Weight each	Order Code
30kg	850g	<b>-2220K</b>

**Push Button Base - 80kg**

Fitted as standard to **KEN-333-2060K** and **-2070K**. Four magnetic faces, bottom, sides and 45° angle face for curved surfaces.

**Threaded:** M8 x 1.25mm.  
**Magnetic pull:** 80kg.



Magnetic Pull	Weight each	Order Code
80kg	850g	<b>-2200K</b>

**GROUP 335 MICROMETERS - BORE**

**OXFORD PRECISION Dial Indicating Bore Gauges**

**29mm 1 1/8" Dial Diameter**

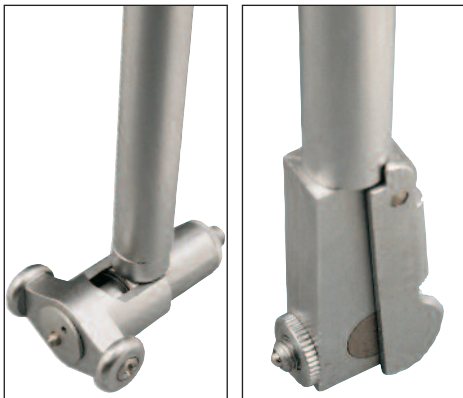
Suitable for rapid, accurate measurement of size, concentricity, wear, taper, etc., in a wide range of bores. For workshop and inspection use. All models have one fixed and one moving anvil and a self-adjusting centre shoe. A 'datum point' can be set by using a setting ring of a known diameter or a micrometer. 'Zero' the gauge to this datum point by rotating the bezel to align 'zero' with the indicator. To check a bore is within tolerance, the limit hands can be fixed as required. All anvils are spring loaded to expand into the bore. For accurate reading ensure the stem of the gauge is parallel to the axis of the bore. This can be checked by 'rocking' the gauge back and forth until the smallest diameter is found. All models have interchangeable anvils to cover a range of bore sizes.



Supplied in a tough hard case



**Spare Anvils**



To Suit Gauge Size	Order Code
18 - 35mm	<b>-5100K</b>
35 - 50mm	<b>-5101K</b>
50 - 160mm	<b>-5102K</b>

Type	Graduation	Face Dial	Reading	Travel Per Rev	Total Travel
Metric	0.01mm	57mm	0-100	1mm	3mm
Inch	0.0005"	2 3/16"	0-25-0	0.050"	0.25"

Range	Bore Depth	Weight each	Order Code
18-35	200	0.58kg	<b>-1400K</b>
35-50	240	0.95kg	<b>-1450K</b>
50-150	240	1.28kg	<b>-1500K</b>
0.7-1.5"	7 1/2"	0.53kg	<b>-1000K</b>
1.4-2.4"	9"	0.90kg	<b>-1050K</b>
2.0-6.0"	9"	1.20kg	<b>-1100K</b>

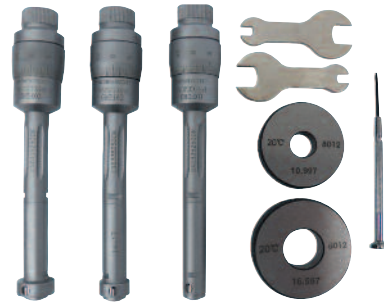
**3 Point Bore Micrometer Sets**

Designed to self-centre, for accurate measuring of bores. Extension rods for measuring 170mm deep on 11 - 20mm and 220mm deep on 20 - 40mm. Satin finish, fitted with knurled ratchet stop.



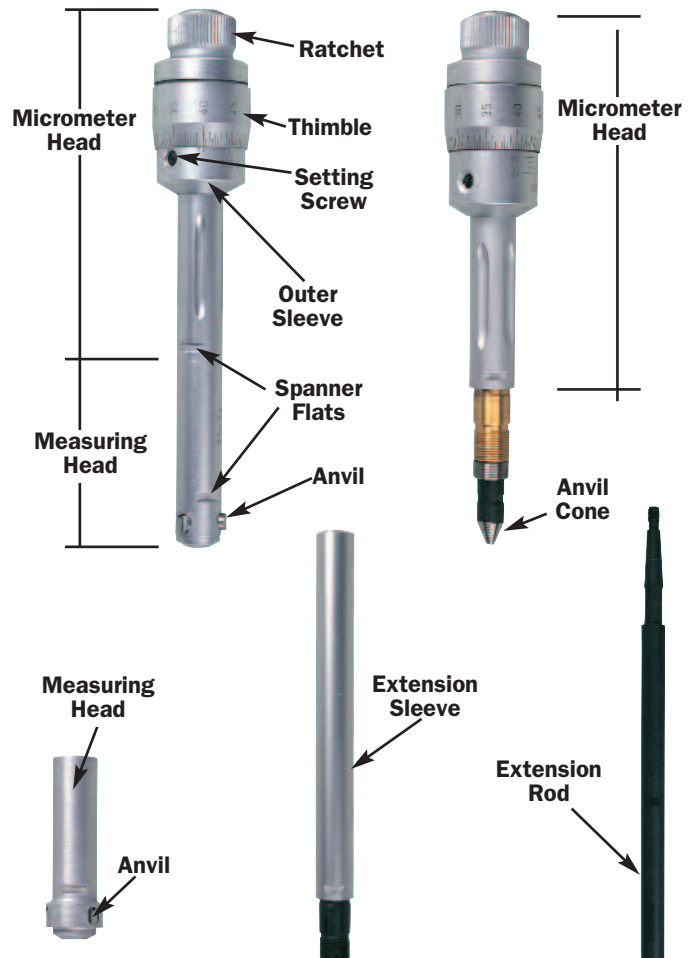
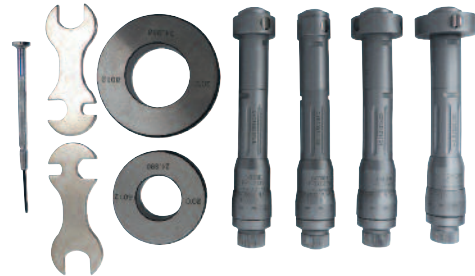
**OXD-335-2500K**

Micrometers: 11 - 14mm, 14 - 17mm, 17 - 20mm. Calibration ring: 14 and 17mm, slotted screwdriver, spanners x2, extension bar.



**OXD-335-2510K**

Micrometers: 20 - 25mm, 25 - 30mm, 30 - 35mm, 35 - 40mm. Calibration ring: 25 and 35mm, slotted screwdriver, spanners x2, extension bar.



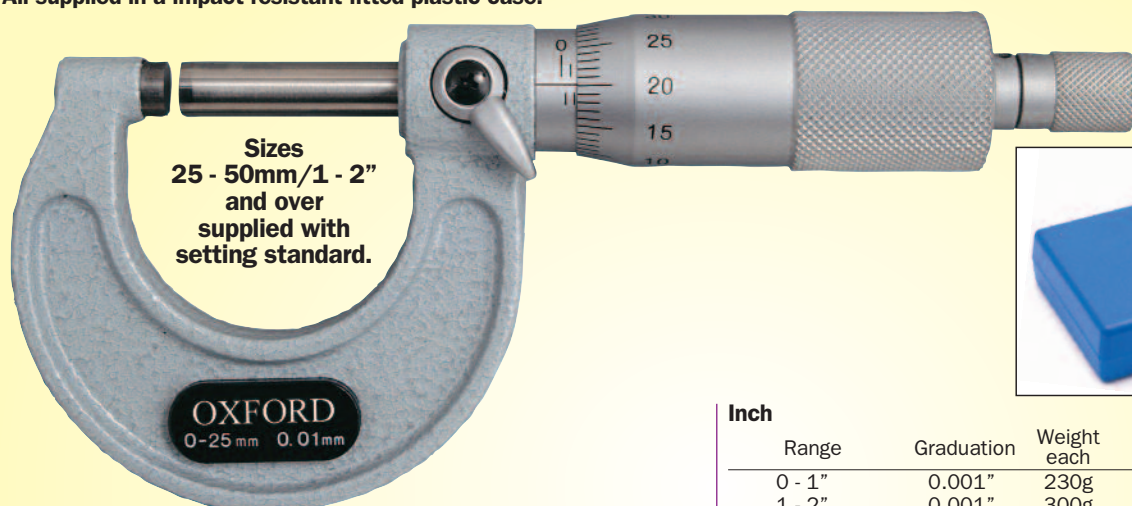
Range (mm)	Number of Micrometers	Weight each	Order Code
11 - 20mm	3		<b>-2500K</b>
20 - 40mm	4		<b>-2510K</b>



**OXFORD PRECISION** Enamelled Frame External Micrometers

With enamelled frame and tungsten carbide tipped anvils. High quality fitted metal case with adjusting spanner. Sizes 25 - 50mm/1 - 2" and over supplied with setting standard. Manufactured to BS 870.

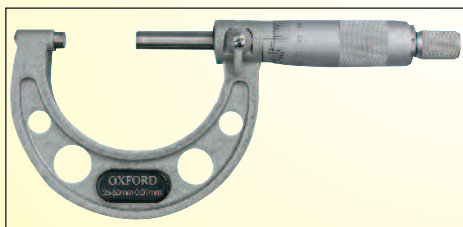
All supplied in a impact resistant fitted plastic case.



Sizes 25 - 50mm/1 - 2" and over supplied with setting standard.



Supplied in case

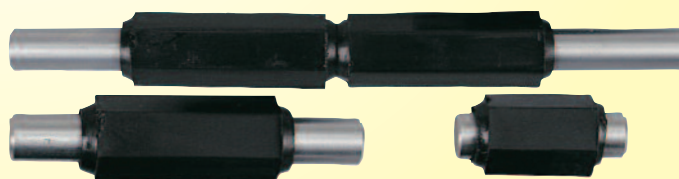


**Inch**

Range	Graduation	Weight each	Order Code OXD-335
0 - 1"	0.001"	230g	-6010K
1 - 2"	0.001"	300g	-6020K
2 - 3"	0.001"	400g	-6030K
3 - 4"	0.001"	530g	-6040K
4 - 5"	0.001"	770g	-6050K
5 - 6"	0.001"	800g	-6060K

**Micrometer Setting Standards**

For setting external micrometers, calipers etc. to zero, providing accurate repeatability of measurements. Flat, lapped measuring ends with fitted heat insulation block. Manufactured to BS 870.



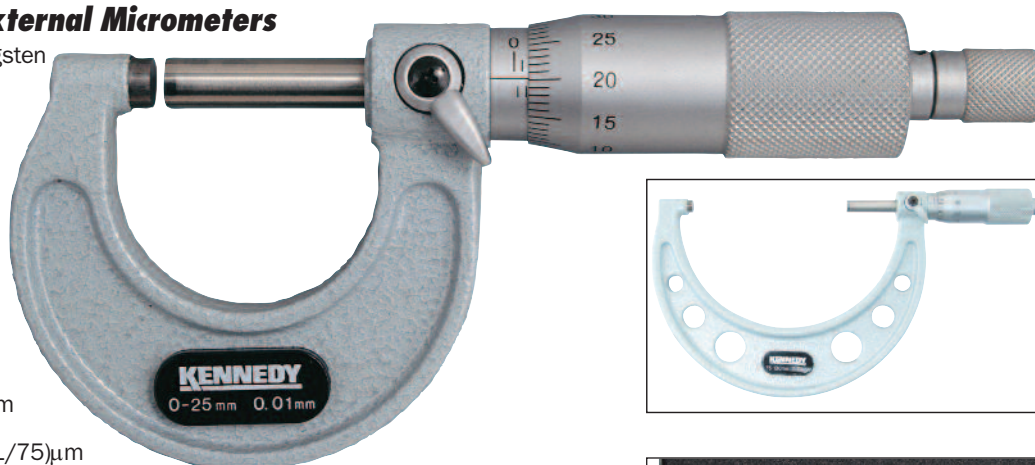
Size	Weight each	Order Code OXD-335	Size	Weight each	Order Code OXD-335
25mm	10g	-7010K	1"	10g	-7110K
50mm	10g	-7020K	2"	10g	-7120K
75mm	20g	-7030K	3"	20g	-
100mm	30g	-7040K	4"	30g	-
125mm	40g	-7050K	5"	40g	-

**Metric**

Range	Graduation	Weight each	Order Code OXD-335
0 - 25mm	0.01mm	230g	-5010K
25 - 50mm	0.01mm	300g	-5020K
50 - 75mm	0.01mm	400g	-5030K
75 - 100mm	0.01mm	530g	-5040K
100 - 125mm	0.01mm	770g	-5050K
125 - 150mm	0.01mm	800g	-5060K
150 - 175mm	0.01mm	-	-5070K
175 - 200mm	0.01mm	-	-5080K
200 - 225mm	0.01mm	-	-5090K
225 - 250mm	0.01mm	-	-5100K
250 - 275mm	0.01mm	-	-5110K
275 - 300mm	0.01mm	-	-5120K

**KENNEDY QUALITY INDUSTRIAL TOOLING** Enamelled Frame External Micrometers

Enamelled frame and tungsten carbide tipped anvils. Manufactured to BS 870.



**Accuracy:**

Flatness: 0.6mm.  
 Parallelism:  $(2 + L/100)\mu\text{m}$  (fraction rounded down).  
 Instrumental error:  $\pm(1 + L/75)\mu\text{m}$  (fraction rounded up).  
 L = maximum measuring length.



Supplied in case.

**Metric**

Range	Graduation	Weight each	Order Code KEN-335
0 - 25mm	0.01mm	230g	-0010K
25 - 50mm	0.01mm	300g	-0020K
50 - 75mm	0.01mm	400g	-0030K
75 - 100mm	0.01mm	530g	-0040K
100 - 125mm	0.01mm	770g	-0050K
125 - 150mm	0.01mm	800g	-0060K

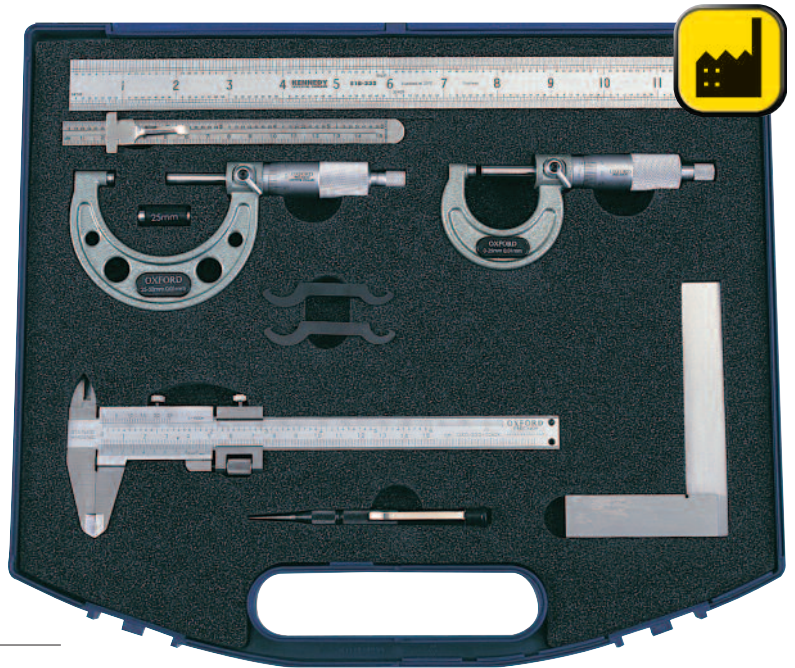
**GROUP 335 EXTERNAL MICROMETERS**

**OXFORD Precision Tool Set**

Multi-purpose precision set supplied in plastic fitted bench case.

**Contents:**

0 - 25mm and 25 - 50mm external micrometer, 25mm setting standard, two micrometer setting spanners, 125mm/5" vernier caliper, 150mm/6" rule with pocket clip, 300mm/12" engineers rule, 100mm engineers square, pocket scriber with clip.



PRECISION EQUIPMENT

Description	Weight each	Order Code
10 Piece Precision Set	150g	<b>OXD-335</b> <b>-9000K</b>

**External Micrometer Sets**

With enamelled frame and tungsten carbide tipped anvils and fine adjustment ratchet. Supplied in plastic fitted bench case.

**-5500K**

0 - 25mm, 25 - 50mm, 50 - 75mm and 75 - 100mm external micrometers, 25mm, 50mm and 75mm micrometer setting standards, two micrometer setting spanners.

**-6600K**

0 - 1", 1 - 2", 2 - 3" and 3 - 4" external micrometers, 1", 2" and 3" micrometer setting standards, two micrometer setting spanners.

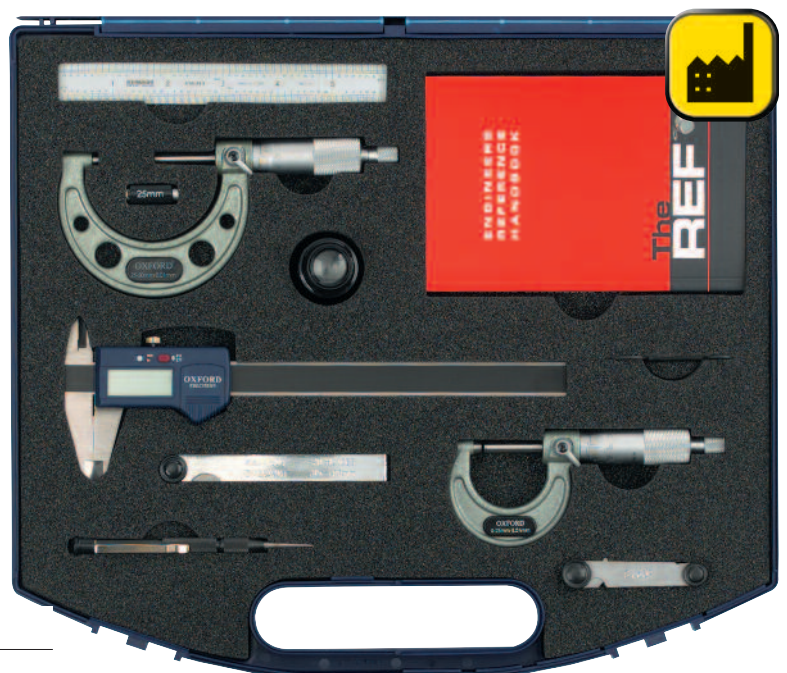


Range	Graduation	Weight each	Order Code
0 - 100mm	0.01mm		<b>OXD-335</b> <b>-5500K</b>
0 - 4"	0.0001"		<b>-6600K</b>

**Apprentice Engineer's Tool Set**

**Contents**

150mm (6") Engineer's rule, 0 - 25 and 25 - 50mm micrometers, 25mm setting standard, 10x magnification eye loupe, 150 (6") digital caliper, 0.5 - 1.0mm 20 blade feeler gauge, 51 metric 60° screw pitch gauge, pocket scriber. Technical data handbook.



Description	Weight each	Order Code
10 Pce Engineers Tool Set		<b>OXD-335</b> <b>-9200K</b>



**Interchangeable Anvil Micrometer**



PRECISION EQUIPMENT

Carbide tipped spindle faces. Hardened and ground anvils. Supplied in metal case with adjusting spanner. Four anvils and three setting standards.

**Accuracy:**  $\pm (4+L/75)$ mm.  
**Measuring faces flatness:**  $\pm 0.6$ mm.  
**Parallelism:**  $(2+L/100)$ mm.



Range	Graduation	Weight each	Order Code
0 - 100mm	0.01mm	850g	<b>OXD-335</b> <b>-3000K</b>
0 - 150mm	0.01mm	990g	<b>-3020K</b>

**Interchangeable Anvil Micrometers**

Oxfords versatile range of micrometers with interchangeable anvils, ratchet top, lock, setting standards and wooden case. Rigid and stable cast iron frame that is perforated for lightness.



Range	Graduation	Weight each	Order Code
300 - 400mm	0.01mm		<b>-3100K</b>
400 - 500mm	0.01mm		<b>-3120K</b>
500 - 600mm	0.01mm		<b>-3140K</b>

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**OXFORD**  
PRECISION

**Mechanical Digital Micrometer - 0 - 25mm**

Direct reading external micrometer for quick and easy reading. With enamelled frame and tungsten carbide precision ground micro finish measuring faces.

**Measuring range:** 0 - 25mm.

**Graduation:** 0.01mm, 0.5mm screw pitch with lock.



Supplied in a robust case with setting key, with fitted heat shield on frame.



Range	Graduation	Weight each	Order Code
0 - 25mm	0.01		<b>-4100K</b>

**30° Anvil Micrometers**

Used for measuring within small grooves or recesses and for quick comparisons of thread accuracy in screw cutting operations. With knurled thimble, ratchet stop and thumb lock. Enamelled frame with satin chromed finish barrel and sleeve.



Range	Graduation	Weight each	Order Code
0 - 25mm	0.01mm	250g	<b>-3520K</b>

**Wire Micrometer**

Specially designed for measuring wire diameters 0 - 10mm. The front of the body is flat to help support the wire when measuring. With knurled thimble, ratchet stop and vernier scale barrel, all over satin chrome finish.



Capacity	Graduation	Weight each	Order Code
0 - 10mm	0.002mm	150g	<b>-2000K</b>

**Micrometer Head**

**Spherical Face**  
**Spindle diameter:** 5mm.  
**Spindle housing diameter:** 9.5mm.  
**Main body diameter:** 14mm.  
**Range:** 0 - 13mm.



**Graduation:** 0.01mm.  
**Accuracy:** 0.004mm.

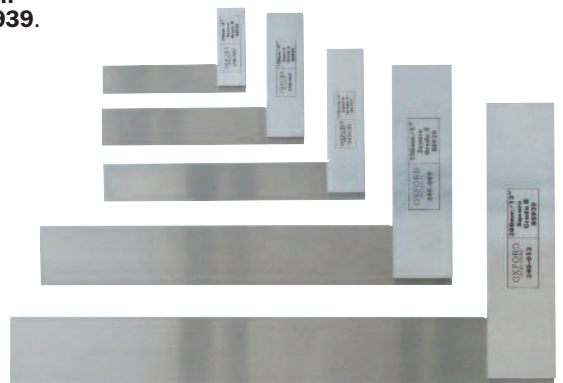
**NEW**

Product Number	Range	Weight each	Order Code
	0 - 13mm	0.01mm	<b>-8200K</b>

**Engineer's Squares**

Engineer's steel squares that are precision manufactured from hardened steel that has been precisely ground to produce parallel edges so that the square has an exact right angle on both the inside and outside of the stock and blade, to ensure accuracy.

Made to **British Standard BS 939.**

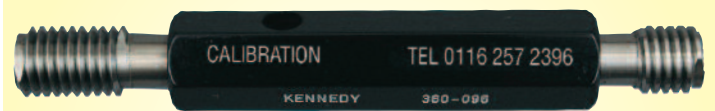


Size (mm)	Order Code
75 (3")	<b>-0030K</b>
100 (4")	<b>-0040K</b>
150 (6")	<b>-0060K</b>
225 (9")	<b>-0090K</b>
300 (12")	<b>-0120K</b>

**KENNEDY** Screw Plug Gauges  
QUALITY INDUSTRIAL TOOLING



**Double-Ended Go & No Go**



Thread Size	Weight each	Order Code
<b>Metric Coarse – Class 6H Tolerance</b>		
M2.0 x 0.40	4g	<b>-0810K</b>
M2.5 x 0.45	4g	<b>-0830K</b>
M3.0 x 0.50	4g	<b>-0840K</b>
M4.0 x 0.70	10g	<b>-0860K</b>
M5.0 x 0.80	12g	<b>-0880K</b>
M6.0 x 1.00	14g	<b>-0890K</b>
M7.0 x 1.00	26g	<b>-0900K</b>
M8.0 x 1.25	28g	<b>-0910K</b>
M9.0 x 1.25	28g	<b>-0920K</b>
M10.0 x 1.50	52g	<b>-0930K</b>
M12.0 x 1.75	70g	<b>-0950K</b>
M14.0 x 2.00	108g	<b>-0960K</b>
M16.0 x 2.00	128g	<b>-0970K</b>
M18.0 x 2.50	132g	<b>-0980K</b>
M20.0 x 2.50	148g	<b>-0990K</b>
M24.0 x 3.00	272g	<b>-1010K</b>
M30.0 x 3.50	484g	<b>-1030K</b>
M36.0 x 4.00	622g	<b>-1050K</b>



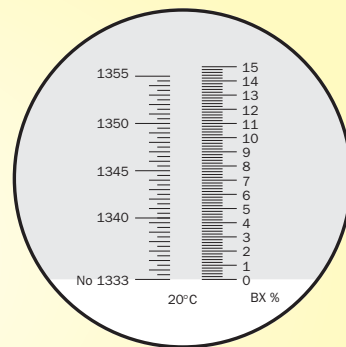
**Portable Optical Refractometer**



For determining the concentration of oil in water emulsions and transparent solutions, such as machine shop coolant. Maintaining the correct mixture in coolant systems is vital to ensure optimum performance from cutting tools. To protect the machine and workpiece from corrosion and to reduce the risk of health hazards arising from incorrect concentrations of water soluble oils. To economise the use of water base cutting fluids and grinding fluids.



**Lens for Portable Refractometer**



**Calibrated Refractive Scale**

**Specifications:**

**Range ND:** 1.333 - 1.356. Bx: 0 - 15%.

**Eyepiece magnification:** 11x.

**Telescopic lens magnification:** 4x.

**Accuracy:** ±0.0003 ±0.2%

**Lattice value:** 0.0005 0.2%

Supplied in high quality fitted metal case complete with calibration screwdriver and operator manual.

**Refractometer**

Dimensions	Weight each	Order Code
38 x 38 x 185mm	30g	<b>OXD-336</b> <b>-1010K</b>

**Spares**

Description	Weight each	Order Code
Lens for Portable Refractometer	10g	<b>OXD-398</b> <b>-3630K</b>

**KENNEDY Steel Gauge Block Sets**

Supplied in high quality wooden bench cases, complete with certificate of calibration. Available in two grades. Manufactured to **BS EN ISO 3650**. Complete with **UKAS** Certificate of Calibration.



**Grade 2: For Workshop Use**

Number of Pieces	Range (inclusive)	Increments	Weight each	Order Code
<b>36 Piece Inch</b>				
(2)	.05"- .10"	.05"	2.4kg	<b>-3360K</b>
(9)	.1001-.1009"	.0001"		
(9)	.101-.109"	.001"		
(9)	.110-.190"	.010"		
(4)	.2-.5"	.10"		
(3)	1, 2 & 4"			
<b>81 Piece Inch</b>				
(9)	.1001-.1009"	.0001"	4.0kg	<b>-3810K</b>
(49)	.101-.149"	.001"		
(19)	.05-.95"	.05"		
(4)	1-4"	1"		
<b>47 Piece Metric</b>				
(1)	1.005mm		2.1kg	<b>-4470K</b>
(9)	1.01-1.09mm	.01mm		
(9)	1.1-1.9mm	.1mm		
(24)	1-24mm	1mm		
(4)	25-100mm	25mm		
<b>88 Piece Metric</b>				
(1)	1.0005mm		2.8kg	<b>-4880K</b>
(9)	1.001 -1.009mm	.001mm		
(49)	1.01-1.49mm	.01mm		
(20)	.5-10mm	.5mm		
(9)	20-100mm	10mm		



**Grade 1: For Inspection Use**

Number of Pieces	Range (inclusive)	Increments	Weight each	Order Code
<b>81 Piece Inch</b>				
(9)	.1001-.1009"	.0001"	4.0kg	<b>-4810K</b>
(49)	.101-.149"	.001"		
(19)	.05-.95"	.05"		
(4)	1-4"	1"		
<b>47 Piece Metric</b>				
(1)	1.005mm		2.4kg	<b>-5470K</b>
(9)	1.01-1.09mm	.01mm		
(9)	1.1-1.9mm	.10mm		
(24)	1-24mm	1mm		
(4)	25-100mm	25mm		
<b>88 Piece Metric</b>				
(1)	1.0005		2.8kg	<b>-5880K</b>
(9)	1.001-1.009mm	.001mm		
(49)	1.01-1.49mm	.01mm		
(20)	.5-10mm	.5mm		
(9)	20-100mm	10mm		

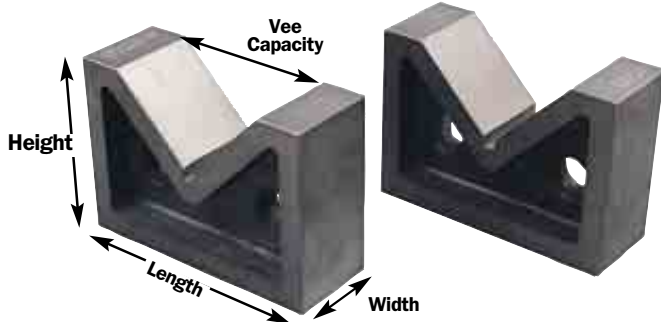


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**PRECISION EQUIPMENT**

**OXFORD PRECISION Vee Blocks**

Matched and numbered pairs of closed grained iron castings accurately machined. Precision 90° vee blocks. Supplied as a pair.



Dimensions L x W x H	Vee Capacity	Weight/ Pr	Order Code <b>OXD-370</b>
75 x 33 x 60mm	45	1.7kg	<b>-2110K</b>
100 x 40 x 65mm	56	2.9kg	<b>-2120K</b>
125 x 50 x 78mm	62	4.8kg	<b>-2130K</b>
150 x 62 x 88mm	78	6.5kg	<b>-2140K</b>
200 x 100 x 140mm	113	11.2kg	<b>-2150K</b>
250 x 125 x 165mm	125	19.0kg	<b>-2160K</b>

**Workshop Grade Hollow Ground Vee Blocks & Clamp**

Designed for checking precision machine parts. Hardened and precision ground steel supplied in matched pairs, each with V-grooves central and parallel to the sides and base ensuring perfect alignment.

Complete set with two V-blocks (one pair) and two clamps. Supplied with malleable iron clamps with steel screws.



Dimensions Length x Width x Height	Weight/ Pr	Order Code <b>OXD-370</b>
31.5 x 40 x 31.5mm	1.7kg	<b>-2310K</b>

**Workshop Vee Blocks & Clamp**

Designed for checking precision machine parts. Hardened and precision ground steel supplied in matched pairs, each with V-grooves central and parallel to the sides and base ensuring perfect alignment.

Complete set with two V-blocks (one pair) and two clamps.



Dimensions Length x Width x Height	Weight/ Pr	Order Code <b>OXD-370</b>
50 x 37 x 37mm	1.0kg	<b>-2300K</b>

**Angle Plates**

**Open End**

Open end angle plates are versatile accessories which can be used to clamp and hold work in a vertical position for planing, milling, or drilling. Work can be clamped and rotated through several planes for measurement or machining without repositioning. The slots allow work to be easily fastened to the plate, and the plate to a fixture base or machine bed.

Manufactured from close grained cast iron. **BS : 5535 Grade B.**



Dimensions Length x Width x Height	Weight each	Order Code <b>OXD-370</b>
3 1/2" x 3" x 2 1/2"	4.60kg	<b>-1310K</b>
4 1/2" x 3 1/2" x 3"		<b>-1320K</b>
6" x 5" x 4 1/2"		<b>-1340K</b>
8" x 6" x 5"		<b>-1350K</b>
10" x 8" x 6"		<b>-1360K</b>
12" x 9" x 8"		<b>-1370K</b>

**Webbed End**

Webbed slotted angle plates can be used for rapid mounting fixtures for machine set-up, layout, or inspection. They are heavily ribbed for strength and rigidity. Sides and ends are machine finished. Manufactured from close grained cast iron.

**BS : 5535 Grade B.**



Dimensions Length x Width x Height	Weight each	Order Code <b>OXD-370</b>
3 1/2" x 3" x 2 1/2"	1.4kg	<b>-1100K</b>
4 1/2" x 3 1/2" x 3"	1.5kg	<b>-1110K</b>
6" x 5" x 4 1/2"	6.1kg	<b>-1120K</b>
8" x 6" x 5"	10.4kg	<b>-1140K</b>
10" x 8" x 6"	15.6kg	<b>-1160K</b>
12" x 9" x 8"	26.5kg	<b>-1170K</b>

**Plain Surface Plates**

Surface plates are used when a precision surface is key. These plates are manufactured from high quality, close grained cast iron and are stress relieved against distortion by heat treatment. Rigidity and long lasting accuracy are ensured by adequate top and side thickness and ribbed construction. The surfaces are free from pin holes, planed and hand scraped. Manufactured to **BS 817.**



Covers and handles are available separately (to order only), details on request.

Product Number	Description	Dimensions Length x Width	Weight each	Order Code <b>OXD-371</b>
SP4	Grade 1	300 x 200mm	11kg	<b>-2000K</b>
SP6		300 x 300mm	18kg	<b>-2020K</b>
SP11		450 x 300mm	39kg	<b>-2040K</b>
SP4	Grade 2	300 x 200mm	11kg	<b>-2200K</b>
SP11		450 x 300mm	39kg	<b>-2240K</b>



Hardened and ground steel parallels for workshop use. Supplied in pairs for packing or levelling components prior to machining in tool rooms or machine shops.

Supplied in Pairs



Hardness: HRC:58 - 62.  
Accuracy: ±0.005mm.

Dimensions Length x Width x Height	Weight/ Pr	Order Code <b>OXD-372</b>
8 x 15 x 100mm		<b>-4080K</b>
10 x 4 x 160mm		<b>-3700K</b>
10 x 20 x 100mm		<b>-4100K</b>
12 x 20 x 100mm		<b>-4120K</b>
14 x 10 x 150mm		<b>-3800K</b>
14 x 4 x 160mm		<b>-3710K</b>
16 x 10 x 150mm		<b>-3810K</b>
16 x 25 x 150mm		<b>-4160K</b>
18 x 4 x 160mm		<b>-3720K</b>
18 x 10 x 150mm		<b>-3820K</b>
20 x 10 x 150mm		<b>-3830K</b>
20 x 30 x 200mm		<b>-4200L</b>
22 x 4 x 160mm		<b>-3730K</b>
22 x 10 x 150mm		<b>-3840K</b>
24 x 10 x 150mm		<b>-3850K</b>
25 x 40 x 250mm		<b>-4250K</b>
26 x 4 x 160mm		<b>-3740K</b>
26 x 10 x 150mm		<b>-3860K</b>
28 x 10 x 150mm		<b>-3870K</b>
30 x 4 x 160mm		<b>-3750K</b>
30 x 10 x 150mm		<b>-3880K</b>
32 x 10 x 150mm		<b>-3890K</b>
34 x 4 x 160mm		<b>-3760K</b>
35 x 10 x 150mm		<b>-3900K</b>
38 x 4 x 160mm		<b>-3770K</b>
40 x 10 x 150mm		<b>-3910K</b>
42 x 4 x 160mm		<b>-3780K</b>
45 x 10 x 150mm		<b>-3920K</b>
50 x 10 x 150mm		<b>-3930K</b>

**18 Piece Set**

Contents: nine pairs of the following sizes:

- 10 x 4 x 160mm,
- 14 x 4 x 160mm,
- 18 x 4 x 140mm,
- 22 x 4 x 140mm,
- 26 x 4 x 140mm,
- 30 x 4 x 140mm,
- 34 x 4 x 140mm,
- 38 x 4 x 140mm,
- 42 x 4 x 140mm.

Supplied in wooden storage box.



**18**  
**PIECES**

Description	Weight each	Order Code <b>OXD-372</b>
18 Piece Set	2.8kg	<b>-3620K</b>

**16 Piece Set**

Contents: eight pairs of the following sizes:

- 5 x 16 x 100mm, 6 x 18 x 100mm, 8 x 24 x 100mm,
- 10 x 30 x 100mm, 12 x 36 x 150mm, 14 x 48 x 150mm,
- 18 x 60 x 150mm, 22 x 62 x 150mm.

And support blocks.



**16**  
**PIECES**

Description	Weight each	Order Code <b>OXD-372</b>
16-Piece Set	12.7kg	<b>-3600K</b>

**28-Piece Set**

Contents: fourteen pairs of the following sizes:

- 14 x 4 x 150mm, 16 x 4 x 150mm, 18 x 4 x 150mm,
- 20 x 4 x 150mm, 22 x 4 x 150mm, 24 x 4 x 150mm,
- 26 x 4 x 150mm, 28 x 4 x 150mm, 30 x 4 x 150mm,
- 32 x 4 x 150mm, 35 x 4 x 150mm, 40 x 4 x 150mm,
- 45 x 4 x 150mm, 50 x 4 x 150mm.

Supplied in wooden storage box.



**28**  
**PIECES**

Description	Weight each	Order Code <b>OXD-372</b>
28 Piece Set	11.5kg	<b>-3640K</b>