



# Precision & Laboratory Equipment

### Product Grading



#### Production

High performance industrial tooling designed for continuous use applications on machine tools where repeatability and long tool life are of critical importance.



#### Professional

Industrial tooling that has enhanced features and benefits demanded by craftsmen and professional users.



#### Industrial

Designed for regular use in industrial applications. Manufactured to stringent quality levels and international standards.



#### Workshop

Standard quality tooling for use by tradesmen and generally industrial use.



#### Maintenance

Products designed for general maintenance of machines, workshops, garages and some household applications.



#### Home Improver

DIY quality tooling. Designed for home use and light industrial applications.



## Product Groups 300 - 372

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**OXFORD PRECISION**

**Easy Read Dial Gauges Plunger Type**

**58mm (2¼") Diameter Dial**  
Matt finish chromed housing 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 <b>KEN-301</b>
Anvil - mm	<b>-9400K</b>
Anvil - inch	<b>-9410K</b>

Resolution	Travel	Reading	Weight each	Order Code <b>OXD-300</b>
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 housing 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 <b>KEN-301</b>
Anvil - mm	<b>-9400K</b>

Resolution	Travel	Reading	Weight each	Order Code <b>OXD-300</b>
0.01mm	10mm	0-100	440g	<b>-5500K</b>
0.01mm	25mm	0-100	440g	<b>-5520K</b>

**KENNEDY QUALITY INDUSTRIAL TOOLING**

**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 housing 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 <b>KEN-301</b>
Anvil - mm	<b>-9400K</b>
Anvil - inch	<b>-9410K</b>

Resolution	Travel	Reading	Weight each	Order Code <b>KEN-300</b>
0.001"	0.5"	0-50-0	440g	<b>-7100K</b>
0.001"	0.5"	0-100	440g	<b>-7110K</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>

**Smile Dial Gauges Plunger Type**

**58mm (2¼") Diameter Dial**  
Matt finish chromed housing and black oxidised limit hands. Jewelled. 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 <b>KEN-301</b>
Anvil - mm	<b>-9400K</b>

Resolution	Travel	Reading	Weight each	Order Code <b>KEN-300</b>
0.01mm	10mm	0-100	440g	<b>-5000K</b>

**KENNEDY QUALITY INDUSTRIAL TOOLING**

**Dovetail Mounting Accessories**

**Spigot**  
¼" standard type.

Stem Diameter	Weight each	Order Code <b>KEN-398</b>
4mm	20g	<b>-0330K</b>
6mm	20g	<b>-0340K</b>
8mm	20g	<b>-0350K</b>



**Dial Gauge Accessories**

**Replacement Anvils**  
For all Kennedy plunger type dial gauges. Steel.

Type	Weight each	Order Code <b>KEN-301</b>
Metric	.082g	<b>-9400K</b>
Inch	.082g	<b>-9410K</b>



**Universal Spigot**

For lever type (not easy read).



Type	Weight each	Order Code <b>KEN-301</b>
¼" ID	20g	<b>-9840K</b>

**Replacement Stylus**

Carbide steel. Replacement stylus for all Kennedy lever type dial test indicators (except dual reading stylus for KEN-300-4000K).



Suitable for use with	Order Code <b>KEN-301</b>
New Style Easy Read DTI's	<b>-9630K</b>

**32mm Diameter Dial Lever Type**  
Supplied with dovetail fitting and 6 and 8mm spigot.  
Matt finish chromed housing.



**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>

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

**1 1/4" Dial Diameter**



**Spares to suit  
Oxford Dial Test Indicators**

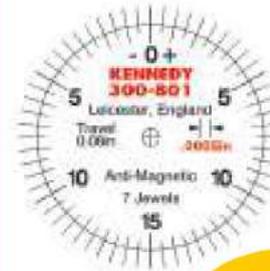
Description	Order Code
Replacement Stylus	<b>-9630K</b>
Universal Holder	<b>-9840K</b>
	Order Code
	<b>KEN-398</b>
1/4" Spigot - 6mm Stem	<b>-0340K</b>
1/4" Spigot - 8mm Stem	<b>-0350K</b>

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

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**



**32mm (1 1/4") Diameter Dial Lever Type**  
Supplied with dovetail fitting and 6 and 8mm spigot.  
Matt finish chromed housing. Jewelled.



**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>

Resolution	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  
PRECISION** **Vertical Lever Dial Gauge**

Anti-magnetic lever dial gauge with jewelled movement for a smooth and precise operation. Measuring direction automatically adapts on contact. Supplied with basic set of mounting accessories and case.



Range	Accuracy	Graduation	Measuring Force	Reading	Order Code
0.8mm	±0.01mm	0.01mm	0.1N-0.5N	0-40-0	<b>-9100K</b>

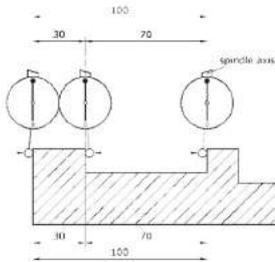


**KENNEDY** 3D Axis Gauging  
QUALITY INDUSTRIAL TOOLS

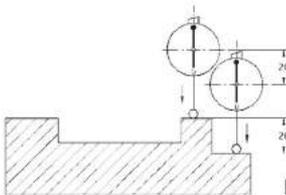
The New Generation of NC axis gauging equipment, for quick, accurate setting of all three axes (X, Y, Z) by analogue differential indicator. Suitable for all machine tools with CNC, NC or DRO and also for EDM/spark erosion tools - the stylus is electrically insulated from the spindle. Universal - one tool measures length, height and 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:** 16mm.

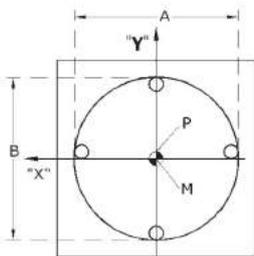
PRECISION EQUIPMENT



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	16mm	89g	<b>KEN-302</b> <b>-2010K</b>

**Styli**

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	4.0	3g	<b>KEN-302</b> <b>-2130K</b>
Long	72	6.0	10g	<b>-2170K</b>

Scale for radial and axial approach



Stylus ball



# OXFORD PRECISION Hardness Testers

## HARDNESS TESTERS

GROUP 303



### Rockwell Hardness Tester

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.

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

### Anvils, Indentors & Test Blocks

To suit Oxford hardness tester.



Large Flat Anvil



Small Flat Anvil



Steel Ball Bearing Indentor



V-Notch Anvil



Diamond Indentor



Test Block



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 Blocks 60 x 40 x 10mm	88 HRA	<b>-9200K</b>
	85 HRB	<b>-9210K</b>
	60 HRC	<b>-9220K</b>
	35 HRC	<b>-9230K</b>
	20 HRC	<b>-9240K</b>

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PRECISION EQUIPMENT

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 Surface Plates**

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



**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>

**Stand - To suit Granite Surface Plate (OXD-306-4060K and -3860K) Only**

L x W x H	Weight each	Order Code
480 x 300 x 650mm	20kg	<b>-4100K</b>

**Granite Squares**

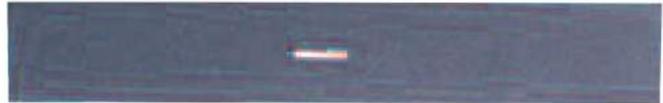
90°. For measuring and inspecting squareness, parallelism and alignment. Made to **BS939 : 1977 Grade A** for flatness, straightness and squareness of working faces.



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

**Granite Straight Edges**

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



L x W x H	Weight each	Order Code
630 x 100 x 50mm	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.



L x W x H	Weight each	Order Code
160 x 25 x 16mm	0.55kg	<b>-3020K</b>
250 x 40 x 25mm	1.83kg	<b>-3040K</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 in pairs.



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

## EDISON Airflow, Velocity & Thermometer

### TVA150

Ideally used to measure the air speed at ventilation outlets and to test temperatures in residential and commercial environments. Conforms with **EN61326-6: 2006** and **EN61326-2-2: 2006**.

#### Meter capabilities:

- Airflow: m/s, km/h, fpm, mph, kts.
- Beaufort scale.
- Temperature in both °C and °F.
- 4 digit display with optional back light.
- Data hold function.
- Auto power 'OFF' and low power indicator.
- 3x AAA battery included.

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

Model Number	Order Code
TVA150	<b>-4020K</b>



## Relative Humidity & Temperature Tester

### THM150

This multimeter is ideal for temperature, humidity and dew point testing in residential and commercial environments such as offices, storerooms, greenhouses and places where a controlled environment is essential. Conforms with **EN61326-6: 2006** and **EN61326-2-2: 2006**.

#### Meter capabilities:

- Temperature: -10 - 50°C (14 to 122°F).
- Testing humidity: 0 - 100%RH.
- 4 digit clear LCD display with optional back light.
- Data hold function.
- Auto power 'OFF' and low power indicator.
- 3x AAA battery included

Model Number	Order Code
THM150	<b>-4040K</b>



## 5-in-1 Multimeter & Environmental Tester

### MET060

Relative measurement function. Diode testing facility. Clear display with LED back light and data hold function. Auto power OFF' and low power indicator. Digital display count up to 3999. Supplied with test probes, clamp-on test leads, temperature sensor probe, 9V battery, and Instructions manual. Conforms with **IEC 1010, CAT II 1000V** and **CAT III 600V**.

**Temperature:** from -20 to 1000°C.  
**Humidity:** 30 - 90%. Sound: 35 - 100db.  
**Illumination:** 4000 - 40000 Lux.  
**AC/DC:** 600V. AC/DC: 10A.  
**Resistance:** 40MW. Capacitance: 200mF.  
**Frequency:** 1Hz to 200KHz.  
**Dimensions (W x D x H):** 165 x 65 x 230mm.

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



## Mini Laser Thermometer

Pocket sized infrared thermometer employing single dot infrared laser technology to instantly display surface temperatures. °C/°F selectable with a measurement range of between -20°C to 270°C (-4° to 518°F). Features ambient temperature (TAMB) measurement, back light, hold function and low battery indication. Supplied with wrist lanyard and 2x AAA batteries.

<b>6:1</b> Distance to Spot	<b>-20°C</b> <b>+270°C</b>	
Model Number	Order Code	
EMT960	<b>-3960K</b>	



## Infrared Laser Thermometer

A high resolution infrared laser thermometer suitable for a wide range of industrial applications, HVAC and automotive diagnostics. Laser targeting enables accurate readings by guiding the user to the optimum measuring distance. Suited for work in confined spaces. Simply aim, pull the trigger and read the current surface temperature. Laser can be activated via the laser button for more accurate targeting. Temperature is displayed on back-lit LCD display.

**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).

**Distance to spot ratio:** 12:1.

**Emissivity:** 0.95.  
Celsius/Fahrenheit 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.

**Range:** -20°C to +537°C

**BEST  
SELLER**



**12:1**  
Distance to Spot

**-20°C**  
**+537°C**

Model Number	Order Code
IRT537	<b>-4000K</b>



## Infrared & Probe Thermometer

Features two measurement modes - probe for internal temperature and infrared single dot laser for surface temperature. °C/°F selectable, it has a measurement range of between -20°C to 270°C (-4° to 518°F). With back light, auto power 'OFF' and low power indicator, and a carry case. Requires 3 x AAA batteries (included).

**6:1**  
Distance to Spot

**-20°C**  
**+270°C**

Model Number	Order Code
EPT980	<b>-3980K</b>



**GROUP 314 STOPWATCHES & COUNTERS**

**RUTLAND III SPORT 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. Daily alarm. Hourly chime. Supplied complete with 1.5V battery.



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

**RUTLAND III PROFESSIONAL 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**

PRECISION EQUIPMENT

**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)	Order Code <b>OXD-314</b>
30 x 15 x 60mm	<b>-5820K</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	60g	<b>-5500K</b>
Desk Tally	70g	<b>-5520K</b>

**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	91g	<b>OXD-314</b> <b>-6100K</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)	Order Code
30 x 15 x 60mm	<b>OXD-314</b> <b>-5830K</b>

**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 (153/4") 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**.

**Pack includes:**

Digital tachometer.  
Wrist strap.  
2x 30cm reflective strips.  
Hard carry case.  
DC1.5V 3x AAA batteries (installed).  
Instruction manual.



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



Actual size of LCD



Test for regular rotary speed



Laser beam accuracy



Complete with protective head cover


**OXFORD PRECISION Folding Pocket Magnifier**
**15mm Diameter**

The original 'Linen tester'. Although deriving its name from the textile industry it is also suitable for inspecting paper, photographs, printed documents etc. 15mm diameter glass lens. 7x magnification. 1" working distance. 1/2" square field. Inch graduation. 1/8" divisions. Self-standing to free your hands. Folds flat when not in use. Black powder coated body.



Order Code  
**OXD-316**  
**-1600K**

**Folding Pocket Magnifier**
**30mm Diameter**

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



Order Code  
**OXD-316**  
**-1620K**

**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.


**Double**

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



Type	Magnification	Order Code
Triplet	10x	<b>-1500K</b>
Double	20x	<b>-1520K</b>

**LED Light Magnifier**
**30mm Diameter**

10x magnification. 5mm diameter LED light. 30mm diameter integral 2x optical glass lens. Powered by 3x AAA batteries (not supplied). LED lasts 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.



Order Code  
**OXD-316**  
**-2010K**

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**



**OXFORD  
PRECISION**

**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**

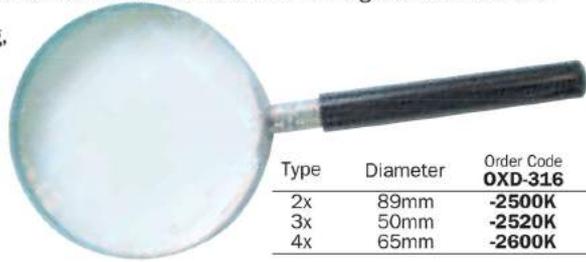
Cast horseshoe type stand provides stability and convenience.



Type	Order Code <b>OXD-316</b>
Clamp	<b>-1100K</b>
Stand	<b>-1120K</b>

**Hand Magnifier**

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.



Type	Diameter	Order Code <b>OXD-316</b>
2x	89mm	<b>-2500K</b>
3x	50mm	<b>-2520K</b>
4x	65mm	<b>-2600K</b>

**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.



**Illuminated Magnifier**

Diameter	Order Code <b>OXD-316</b>
127mm	<b>-1030K</b>

**Accessories**

Type	Order Code <b>OXD-398</b>
Fluorescent Tube 22W	<b>-8600K</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 | Working Distance |
|---------------|------------------|
| 1.2x          | 520 - 620mm      |
| 1.8x          | 230 - 320mm      |
| 2.5x          | 150 - 250mm      |
| 3.5x          | 80 - 120mm       |

Order Code  
**OXD-316**  
**-2560K**

**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.



Diameter	Order Code <b>OXD-316</b>
127mm	<b>-1010K</b>

**RUTLAND  
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.


*Diopter measurement*

**10 x  
25**

**CR1025R**

Product Number	Magnification x Lens Dia. (mm)	Order Code
CR1025R	10 x 25	RTL-318 -1620K

**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.


**7 x  
50**

**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.

*Tripod use*

*Fold down eye cup*

*Diopter measurement*


Product Number	Magnification x Lens Dia. (mm)	Order Code
TP0750	7 x 50	RTL-318 -1370K

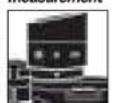
**Traditional Style Binoculars**
**TP1050**

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 x Lens Dia. (mm)	Order Code
TP1050	10 x 50	RTL-318 -1010K

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**



**Traditional Binoculars 10 x 42**

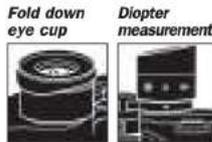
These Rutland Pro binoculars have a powerful 10 x magnification using a Porro prism, a 6° wide angle of view and a 42mm objective lens. These binoculars are powerful, yet have a narrow pupil distance making them ideal for the smaller user. The outer casing of the binoculars is designed for your comfort 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.



**10 x 42**

**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 (mm)	Order Code
TP1042	10 x 42	-1600K

**Traditional Binoculars 10 x 60**

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.



**10 x 60**



**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 (mm)	Order Code
TP1060	10 x 60	-1400K



PRECISION EQUIPMENT

**Spotting Scope 18-36 x 50**

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.



**18 - 36 x 50**



**Prism type:** Porro. **Exit pupil:** 1.5 - 4mm.  
**Magnification:** 18 - 36x. **Focusing method:** Manual.  
**Objective lens:** 50mm. **Dimensions:** (W x H x D)  
380 x 360 x 330mm.  
**Angle of view:** 26 - 43°. **Weight:** 1190g.  
**Field of view at 1000m:** 23 - 38m.

Product Number	Magnification x Lens Diameter (mm)	Order Code
SS3650	18-36 x 50	-3100K



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.

**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	Magnification	Order Code
BCM400	400x	<b>OXD-318</b> -4100K

### Dissecting Stereo Metallurgical Microscope

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.

**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.



Product Number	Magnification	Order Code
DSM040	40x	<b>OXD-318</b> -4400K

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

GROUP  
**330**

## BEVEL PROTRACTORS/COMBINATION SETS/HEIGHT GAUGES



### OXFORD PRECISION 300mm/12" Multi-function Combination Set

Fully hardened and ground datum faces. Precision rules with deeply etched graduations. Protractor has full 360° scale plate, graduated 0 - 180° - 0, includes vial. Square head offers the following fixed angles: 45° and 90°. Centre head offers a fixed 90° angle, for finding the centre of round bar stock up to 120mm diameter.



Order Code  
**OXD-330**  
**-3850K**

#### Spares

Description	Order Code
	<b>OXD-330</b>
Square Head	<b>-3860K</b>
Centre Head	<b>-3870K</b>
Protractor Head	<b>-3880K</b>
12"/300mm Rule	<b>-3890K</b>
24"/600mm Rule	<b>-3900K</b>

### KENNEDY QUALITY INDUSTRIAL TOOLING 300mm/12" Multi-function Combination Set

#### KCS300

Can be used as a square, mitre, depth and height gauge.

**Set Contains:** 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°. Centre head offers a fixed 90° angle, for finding the centre of round bar stock up to 120mm diameter. 300/12" hardened stainless steel rule, metric and inch measurements with graduations in 1.0mm and 1/32".



Order Code  
**KEN-330**  
**-3250K**

#### Spares

Description	Order Code
	<b>KEN-330</b>
Square Head	<b>-3260K</b>
Centre Head	<b>-3270K</b>
Protractor Head	<b>-3280K</b>
12"/300mm Rule	<b>-3290K</b>

### OXFORD PRECISION Bevel Protractor Set

Made of polished and hardened stainless steel with magnifying lens for easy reading of vernier scale. Range is 4x 90° and accuracy is +1/2° or 5 minutes.

#### Set includes:

protractor head, 150mm (6"), 200mm (8") & 300mm (12") plain rules, height gauge and acute angle attachments.



Order Code  
**OXD-330**  
**-9500K**

### 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.



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



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

## DIAL DEPTH & THICKNESS GAUGES/DIAL CALIPERS

**OXFORD PRECISION**

### 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	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.  
**Resolution:** 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**  
QUALITY INDUSTRIAL TOOLING

### 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	Resolution	Accuracy (mm)	Weight each	Order Code
150mm	0.05mm	±.05mm	320g	<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**.



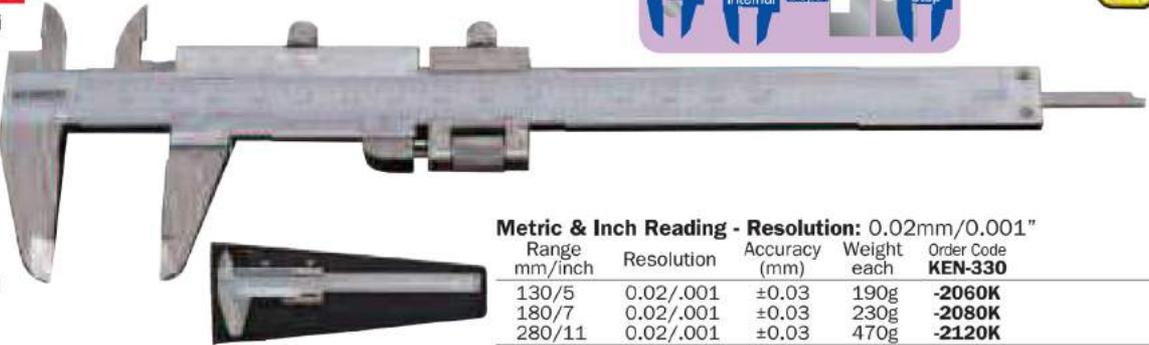
Range	Resolution	Accuracy (mm)	Weight each	Order Code
6"	0.001"	±.001"	310g	<b>-6060K</b>
8"	0.001"	±.002"	480g	<b>-6080K</b>
12"	0.001"	±.002"	570g	<b>-6120K</b>
150mm	0.05mm	±.05mm	320g	<b>-6150K</b>
200mm	0.05mm	±.05mm	530g	<b>-6200K</b>
300mm	0.05mm	±.05mm	750g	<b>-6300K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**



**Fine Adjustment Vernier Calipers**

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.



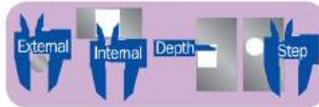
**Metric & Inch Reading - Resolution: 0.02mm/0.001"**

Range mm/inch	Resolution	Accuracy (mm)	Weight each	Order Code
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>



**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**.

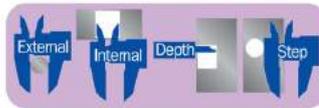
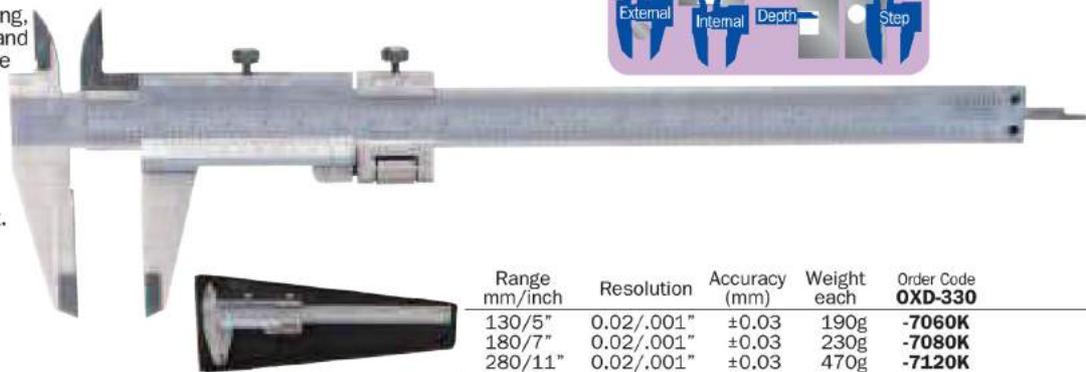


Range mm/inch	Resolution	Accuracy (mm)	Weight each	Order Code
150/6"	0.02/.001	±0.03	143g	<b>-7360K</b>
200/8"	0.02/.001	±0.03	180g	<b>-7380K</b>
300/12"	0.02/.001	±0.04	355g	<b>-7420K</b>

PRECISION EQUIPMENT

**Fine Adjustment Vernier Calipers**

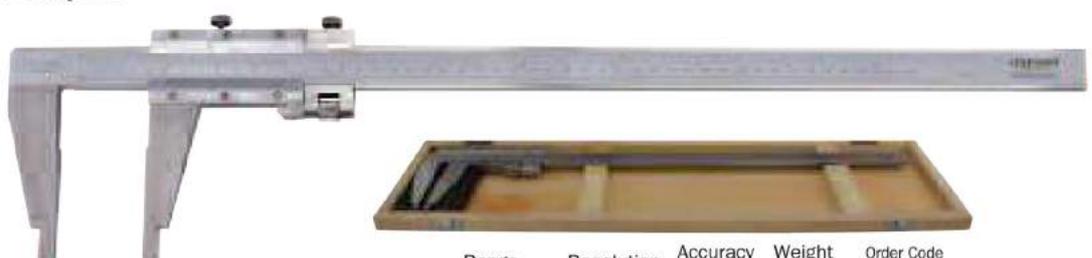
Give four types of reading, inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error, fine adjustment assembly and knurled locking nut. Manufactured from hardened stainless steel for rigidity with satin finish. Conforms to **DIN 862**.



Range mm/inch	Resolution	Accuracy (mm)	Weight each	Order Code
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	Resolution	Accuracy (mm)	Weight each	Order Code
450mm/18"	0.02/0.001	±0.1	2.25kg	<b>-7180K</b>
600mm/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.

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





### SENATOR QUALITY TOOLING

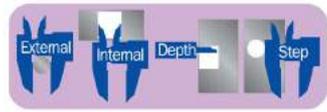
Large display for clarity. Fast response speed. Zero reset. Dual readout mm/inch. Knurled thumb grip for precise movement.

**Conforms to:**  
EN 61000-6-3:2007  
EN 61000-6-1:2007

**Resolution:**  
0.01mm/0.0005"

**Accuracy:**  
±0.03mm/±0.001"

### Digital Calipers



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

Range	Resolution	Accuracy (mm)	Weight each	Order Code
150mm/6"	0.01mm	±0.03	360g	<b>-1230K</b>
200mm/8"	0.01mm	±0.03	425g	<b>-1250K</b>
300mm/12"	0.01mm	±0.03	805g	<b>-1290K</b>

### Polycal Digital Caliper

For taking outside, inside, step and depth measurements. Measurement conversion in inches, millimetres and fractions. Uses one CR2032 3V battery. Conforms to **EN 61000-6-3: 2007** and **EN 61000-6-1:2007**.

**Measuring range:**  
0-150mm/0-6"  
**Resolution:**  
0.01mm/0.0005"  
**Accuracy:**  
±0.02mm/±0.008"



Battery Replacement  
Order Code:  
**EDI-904-3240K**

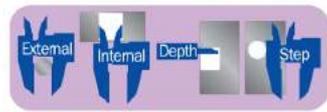
Range	Resolution	Accuracy (mm)	Weight each	Order Code
150mm/6"	0.01mm	±0.2	150g	<b>-1700K</b>

### KENNEDY QUALITY INDUSTRIAL TOOLING

### Absolute Digital Electronic Calipers

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	Resolution	Accuracy (mm)	Weight each	Order Code
150mm/ 6"	0.01mm	±0.03	360g	<b>-2260K</b>
200mm/ 8"	0.01mm	±0.03	425g	<b>-2280K</b>
300mm/12"	0.01mm	±0.03	805g	<b>-2320K</b>

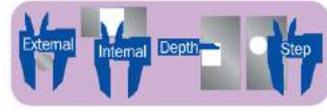
### OXFORD PRECISION

### 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	Resolution	Accuracy (mm)	Weight each	Order Code
150mm/ 6"	0.01mm	±0.03	360g	<b>-2260K</b>
200mm/ 8"	0.01mm	±0.03	460g	<b>-2280K</b>
300mm/12"	0.01mm	±0.03	810g	<b>-2320K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

PRECISION EQUIPMENT

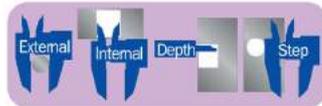
GROUP  
**331**

## DIGITAL CALIPERS/DIGITAL DEPTH GAUGES



### **KENNEDY** Coolant-Proof IP67 Digital Caliper

Available in a range of sizes, this digital caliper is coolant, water and dust proof to IP67 level. It has a large LCD display, fast response speed, dual readout (mm/inch) and can be used for inside, outside, depth and step measuring. Also enables absolute and relative reading.



PRECISION EQUIPMENT

**IP67**

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

Range	Accuracy (mm)	Weight each	Order Code
150mm/6"	±0.03	400g	<b>-1200K</b>
200mm/8"	±0.03	500g	<b>-2270K</b>
300mm/12"	±0.04	750g	<b>-2310K</b>

### **OXFORD 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



**Water Resistant**

**inch mm**  
CONVERTIBLE

**ZERO RESET**

READING  
.01mm  
.0005"

**SPARE BATTERY**

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

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**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.

**Resolution:** 0.001mm/0.00005".  
**Measuring force:** 5 - 10N.  
**Accuracy:** -0.004mm.

**IP54**

Protected against dust ingress and fluid splash


**Water Resistant**


Range	Order Code
0 - 25mm/0 - 1"	<b>OXD-331</b> <b>-5010K</b>

**External Digital Micrometer**

Oxford external digital micrometer with large digital display, quick response speed and zero set at any point. Metric/inch measurement. Can be connected to a PC serial port via the SPC cable (supplied separately). **IP65** rating.

- Easy handling
- mm/Inch measurements
- Ball end cap for measuring curved surfaces
- Large digital display
- Quick response speed
- Zero set at any point
- IP65 rating

**IP65**

**Water Resistant**


Range	Order Code
0 - 25mm/0 - 1"	<b>OXD-331</b> <b>-6110K</b>

**Digital External Micrometers**

Featuring large digital display and carbide tipped measuring faces. With ball end cap for measuring curved surfaces, auto power on/off and mm/inch conversion. Ratchet stop for consistent measurement and locking device. Complete with case, spanner and battery.

**IP65**


Range	Order Code
0-25mm/0-1"	<b>OXD-331</b> <b>-3500K</b>
25-50mm/1-2"	<b>-3510K</b>
50-75mm/2-3"	<b>-3520K</b>
75-100mm/3-4"	<b>-3530K</b>

**OXFORD PRECISION 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.

**IP54**

**Water Resistant**

Protected against dust ingress and fluid splash


 inch mm  
 CONVERTIBLE  
**ZERO RESET**

 TRAVEL  
 12.7mm  
 0.5"  
 READING  
 0.001mm  
 .00005"

 Order Code  
**OXD-331**  
**-6020K**
**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.

**IP54**

**Water Resistant**

Protected against dust ingress and fluid splash


 inch mm  
 CONVERTIBLE  
**ZERO RESET**

 TRAVEL  
 12.7mm  
 0.5"  
 READING  
 0.01mm  
 .0005"

 Order Code  
**OXD-331**  
**-6010K**
**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

**KENNEDY** Permanent  
Mag Stand

**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 dia.:**  
120 x 6.3mm.  
**Clamp hole:** 8mm.  
**Magnetic pull:**  
14.75kg.  
**Base dimensions:**  
30 x 35mm.



Overall Height	Weight each	Order Code
150mm	320g	<b>KEN-333</b> <b>-2010K</b>

**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:  
4mm, 8mm,  
3/8" without bush.  
**Column height x dia.:**  
175 x 12mm.  
**Crossbar length x dia.:**  
165 x 10mm.  
**Clamp ring:** 6.35mm.  
**Magnetic pull:** 50kg.  
**Base dimensions:**  
60 x 50 x 55mm.

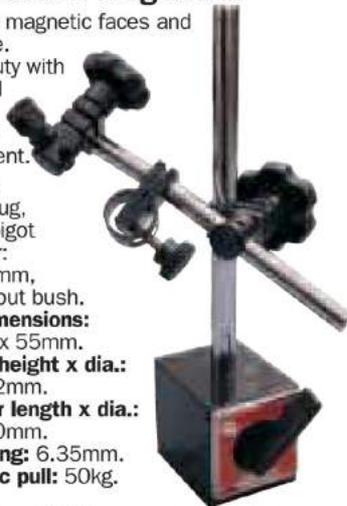


Overall Height	Weight each	Order Code
230mm	1.2kg	<b>KEN-333</b> <b>-2030K</b>

**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:  
4mm, 8mm,  
3/8" without bush.  
**Base dimensions:**  
60 x 50 x 55mm.  
**Column height x dia.:**  
175 x 12mm.  
**Crossbar length x dia.:**  
165 x 10mm.  
**Clamp ring:** 6.35mm.  
**Magnetic pull:** 50kg.



Overall Height	Weight each	Order Code
230mm	1.2kg	<b>KEN-333</b> <b>-2050K</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:  
4mm, 8mm,  
3/8" without bush.  
**Base dimensions:**  
60 x 50 x 55mm.  
**Column height x dia.:**  
175 x 12mm.  
**Crossbar length x dia.:**  
165 x 10.0mm.  
**Clamp ring:** 6.35mm.  
**Magnetic pull:** 50kg.



Overall Height	Weight each	Order Code
230mm	1.20kg	<b>OXD-333</b> <b>-7030K</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:  
4mm, 8mm,  
3/8" without bush.  
**Base dimensions:**  
60 x 50 x 55mm.  
**Column height x dia.:**  
175 x 12mm.  
**Crossbar length x dia.:**  
150 x 10.0mm.  
**Clamp ring:**  
6.35mm.  
**Magnetic pull:** 50kg.



Overall Height	Weight each	Order Code
230mm	1.20kg	<b>OXD-333</b> <b>-7050K</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:**  
48 x 44 x 51mm.  
**Column height x dia.:**  
175 x 12mm.  
**Crossbar x dia.:**  
165 x 10.0mm.  
**Clamp ring:** 6.35mm.  
**Magnetic pull:** 30kg.



**Group 425**

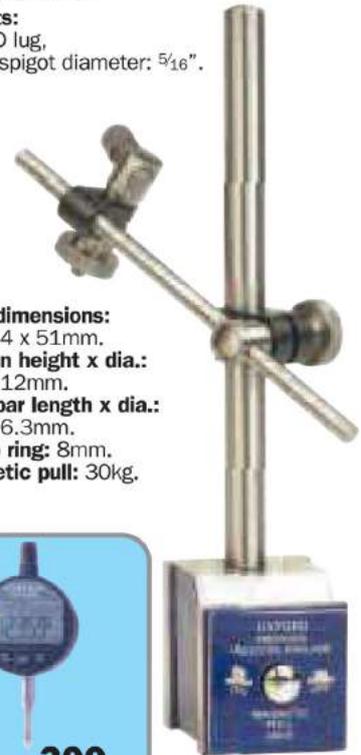
Overall Height	Weight each	Order Code
230mm	1.20kg	<b>OXD-333</b> <b>-7100K</b>

**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:**  
48 x 44 x 51mm.  
**Column height x dia.:**  
185 x 12mm.  
**Crossbar length x dia.:**  
165 x 6.3mm.  
**Clamp ring:** 8mm.  
**Magnetic pull:** 30kg.



**Group 300**

Overall Height	Weight each	Order Code
280mm	1.90kg	<b>OXD-333</b> <b>-7080K</b>

## MAGNETIC BASES & COMPARATOR STANDS



**KENNEDY**  
QUALITY INDUSTRIAL TOOLING

### Lever Switchable Mini Elbow Joint 2 Mag Stand

Compact in design, this stand has a magnetic pull of 30kg with positive switching, fully adjustable joints and slotted 'V' groove.

**Mounts:** 1/4" I/D lug, dovetail stem/spigot diameter: 5/16".  
**Base dimensions:** 36 x 30 x 35mm.  
**Column height x diameter:** Up to 150 x 12mm.  
**Magnetic pull:** 30kg.



Mini Elbow Joint	Weight each	Order Code
2 Mag	420g	<b>-2140K</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.  
**Clamp ring:** 6.35mm.  
**Magnetic pull:** 50kg.



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

### Lever Switchable Large Elbow Joint 2 Mag Stand

Large stand with two powerful magnetic faces producing a magnetic pull of 80kg. Positive switching, fully adjustable joints and slotted 'V' groove for versatility.

**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 300 x 17mm.  
**Magnetic pull:** 80kg.



Large Elbow Joint	Weight each	Order Code
2 Mag	1.62kg	<b>-2150K</b>

### KENNEDY Surface Gauges

Used for marking out lines parallel to a true edge or groove, and also to mark the centre of round bars. Machined base, two pillars, a double ended scriber and an adjustable attachment for holding scribes up to 1/4" diameter on to the pillar. The base has a machined V-groove for use on pipes and round bar and two frictionally held pins which are used as a guide when sliding along the true edge or groove. The angle of the pillar can be finely adjusted with the use of a knurled thumb screw. Supplied with two pillars.

**Base dimensions:** 80 x 30mm.



Pillar Height (mm)	Order Code
230 & 305	<b>KEN-518</b> <b>-4300K</b>

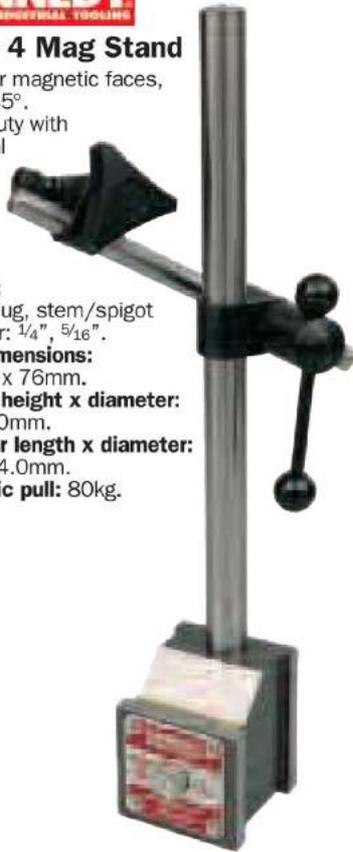
PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



**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 KEN-333
380mm	3.00kg	-2070K

**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: 3/8", 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 KEN-333
280mm	1.90kg	-2060K

**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 44 x 51mm.  
**Column height x diameter:**  
175 x 12mm.



**Crossbar length x diameter:**  
165 x 10.0mm.  
**Clamp ring:** 8mm.  
**Magnetic pull:** 30kg.

Overall Height	Weight each	Order Code KEN-333
227mm	0.90kg	-2100K

**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:** 48 x 44 x 51mm.



**Column height x diameter:**  
185 x 12mm.  
**Crossbar length x diameter:**  
150 x 6.3mm.  
**Clamp ring:** 8mm.  
**Magnetic pull:** 30kg.

Overall Height	Weight each	Order Code KEN-333
273mm	0.89kg	-2080K

**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.



Weight each	Order Code KEN-333
850g	-2240K

**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.

**Base dimensions:** 48 x 44 x 51mm.  
**Threaded:** M8 x 1.25mm.  
**Magnetic pull:** 30kg.



Weight each	Order Code KEN-333
850g	-2220K

**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.



Weight each	Order Code KEN-333
850g	-2200K



**KENNEDY**  
QUALITY INDUSTRIAL TOOLING

**Magnetic Stand Fittings**

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**. (See page 264).

**Column:** 6.3 x 120mm.  
**Clamp hole:** 8mm.  
**Threaded:** M5.



6.3mm Standard Clamp To Suit	Weight each	Order Code
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**. (See pages 266 and 264).



**Column:** 12 x 175mm.  
**Cross bar:** 10 x 150mm with fine adjustment.  
**Threaded:** M8 x 1.25mm.

10mm Universal Clamp To Suit	Weight each	Order Code
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 (dia.)	Weight each	Order Code
12 & 10mm	60g	<b>-2920K</b>

**MAGNETIC BASES & COMPARATOR STANDS**

**GROUP 333**



**Medium Duty Fitment - Plain**  
Fitted as standard to **KEN-333-2080K**. (See page 266).



**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
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**. (See pages 266 and 264).



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

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

**Crossbar Assemblies**

With lug adaptor. 1/4" I/D lug.



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

**Medium Duty Fitment - 3 Point**  
Fitted as standard to **KEN-333-2110K**. (See page 265).

**3 point adjustable column:** 15 x 280mm max.  
**Clamp hole:** 8mm.  
**Threaded:** M8 x 1.25mm.



3 Point Special Clamp To Suit	Weight each	Order Code
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**. (See page 266).



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

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

**Crossbar Assemblies**

With lug adaptor. 1/4" I/D lug.



Accepts	Weight each	Order Code
5/16" & 1/4" Spigot To Fit 10mm Bar	50g	<b>-3000K</b>

PRECISION EQUIPMENT

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

**OXFORD PRECISION** 3 Point Bore  
Micrometer Sets



Designed to self-centre, for accurate measuring of bores. Satin finish, fitted with knurled ratchet stop.

**OXD-335-2520K**

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



**OXD-335-2530K**

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



Range (mm)	Number of Micrometers	Weight each	Order Code
11 - 20mm	3	1.05kg	<b>-2520K</b>
20 - 40mm	4	2.60kg	<b>-2530K</b>

PRECISION EQUIPMENT

## 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 inter-changeable anvils to cover a range of bore sizes.



Supplied in a tough hard case.



Type	Resolution	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>

## OXFORD PRECISION Fixed Rod Depth Micrometers

Ideal for low-range measurements, this non-digital depth micrometer has a 63 or 100mm hardened tool steel base and satin chrome finish. Includes a 'constant force attachment' for use when fitting the interchangeable rods and supplied in a handy case.



Accuracy	Range	Base Size	Order Code
4 µm (microns)	0 - 25mm	63mm	<b>-3310K</b>
4 µm (microns)	0 - 25mm	100mm	<b>-3330K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

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.**



Range	Resolution	Weight each	Order Code
<b>OXD-335</b>			
<b>Metric</b>			
0 - 25mm	0.01mm	230g	<b>-5010K</b>
25 - 50mm	0.01mm	300g	<b>-5020K</b>
50 - 75mm	0.01mm	400g	<b>-5030K</b>
75 - 100mm	0.01mm	530g	<b>-5040K</b>
100 - 125mm	0.01mm	770g	<b>-5050K</b>
125 - 150mm	0.01mm	800g	<b>-5060K</b>
150 - 175mm	0.01mm	-	<b>-5070K</b>
175 - 200mm	0.01mm	-	<b>-5080K</b>
200 - 225mm	0.01mm	-	<b>-5090K</b>
225 - 250mm	0.01mm	-	<b>-5100K</b>
250 - 275mm	0.01mm	-	<b>-5110K</b>
275 - 300mm	0.01mm	-	<b>-5120K</b>
<b>Inch</b>			
0 - 1"	0.001"	230g	<b>-6010K</b>
1 - 2"	0.001"	300g	<b>-6020K</b>
2 - 3"	0.001"	400g	<b>-6030K</b>
3 - 4"	0.001"	530g	<b>-6040K</b>
4 - 5"	0.001"	770g	<b>-6050K</b>
5 - 6"	0.001"	800g	<b>-6060K</b>

**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	Size	Weight each	Order Code
<b>OXD-335</b>					
25mm	10g	<b>-7010K</b>	1"	10g	<b>-7110K</b>
50mm	10g	<b>-7020K</b>	2"	10g	<b>-7120K</b>
75mm	20g	<b>-7030K</b>	3"	20g	<b>-7130K</b>
100mm	30g	<b>-7040K</b>	4"	30g	<b>-7140K</b>
125mm	40g	<b>-7050K</b>	5"	40g	<b>-7150K</b>
150mm	62g	<b>-7060K</b>	-	-	-
175mm	76g	<b>-7065K</b>	-	-	-
200mm	86g	<b>-7070K</b>	-	-	-
225mm	95g	<b>-7075K</b>	-	-	-
250mm	105g	<b>-7080K</b>	-	-	-
275mm	115g	<b>-7085K</b>	-	-	-
300mm	268g	<b>-7090K</b>	-	-	-



Enamelled frame and tungsten carbide tipped anvils.  
Manufactured to **BS 870**. Supplied in a durable plastic case.

**Accuracy:**  
**Flatness:** 0.6mm.  
**Parallelism:** (2 + L/100) µm (fraction rounded down).  
**Instrumental error:** ±(1 + L/75) µm (fraction rounded up).  
L = maximum measuring length.



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

**KENNEDY  
QUALITY INDUSTRIAL TOOLING** **Micrometer Stand**



**SMS230**  
Made of cast iron, it is designed for use with most standard micrometers up to 100mm (4"). The clamp has positive angular and padded parallel clamping jaws. 90° pivoting in the vertical plane.



Product Number	Weight each	Order Code
SMS230	980g	<b>-7230M</b>



**OXFORD PRECISION Interchangeable Anvil Micrometers**

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	Resolution	Weight each	Order Code
0 - 100mm	0.01mm	850g	<b>OXD-335</b> <b>-3000K</b>

Range	Resolution	Weight each	Order Code
0 - 150mm	0.01mm	990g	<b>OXD-335</b> <b>-3020K</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	Resolution	Weight each	Order Code
0 - 10mm	0.002mm	150g	<b>OXD-335</b> <b>-2000K</b>

**Interchangeable Anvil Micrometers**

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



Product Number	Range	Order Code
2425-0400	300 - 400mm	<b>-3100K</b>
2425-0500	400 - 500mm	<b>-3120K</b>
2425-0600	500 - 600mm	<b>-3140K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

GROUP  
**335**

**EXTERNAL MICROMETERS/MICROMETER HEADS**



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



Order Code  
**OXD-335**  
**-4100K**

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

**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.

**Measuring range:** 0 - 25mm.  
**Resolution:** 0.01mm.



Order Code  
**OXD-335**  
**-3520K**



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PRECISION EQUIPMENT

**Blade Micrometers**

Combining lightweight workshop design with enamel finished frame and blade-shaped anvil. Ratchet stop for consistent measurement. Complete with case.

**Resolution:** 0.01mm.



Range	Resolution	Weight each	Order Code
0 - 25mm	0.01mm	0.46kg	<b>-5310K</b>
25 - 50mm	0.01mm	0.60kg	<b>-5320K</b>
75 - 100mm	0.01mm	1.12kg	<b>-5330K</b>

**Micrometer Head**

**Spherical Face**  
Supplied with setting keys.  
**Spindle diameter:** 5mm.  
**Spindle housing diameter:** 9.5mm.  
**Main body diameter:** 14mm.  
**Accuracy:** 0.004mm.  
**Range:** 0 - 13mm.  
**Resolution:** 0.01mm.

Order Code  
**OXD-335**  
**-8200K**





# OXFORD PRECISION 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.

**10  
PIECES**



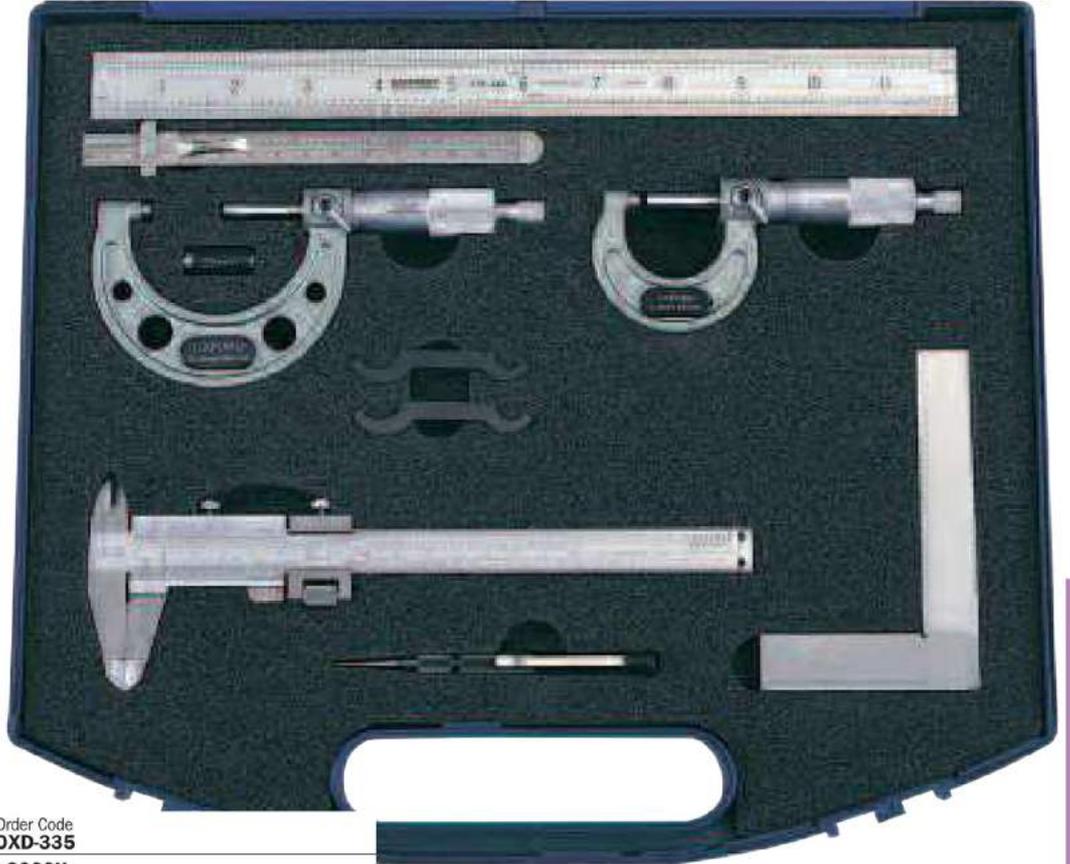
Group **331**

Weight each  
150g

Order Code  
**OXD-335**  
-9000K

## EXTERNAL MICROMETERS

GROUP **335**



### External Micrometer Sets

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

**Contents:**  
**-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.

**4  
PIECES**



Range	Resolution	Weight each	Order Code
0 - 100mm	0.01mm	1.90kg	<b>-5500K</b>
0 - 4"	0.0001"	1.90kg	<b>-6600K</b>

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

GROUP

**336****REFRACTOMETERS**
**OXFORD PRECISION** 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.

**10  
PIECES**


Weight each

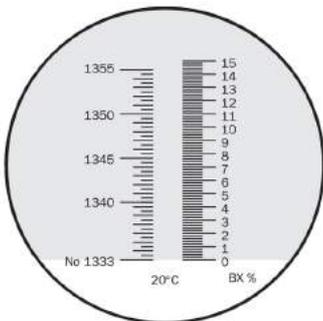
1.75kg

Order Code  
**OXD-335****-9200K**

PRECISION EQUIPMENT

**OXFORD PRECISION** 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.


**Calibrated  
Refractive Scale**
**Specifications:**
**Range ND:** 1.333 - 1.356. Bx: 0 - 15%.

**Eyepiece magnification:** 11x.

**Telescopic lens magnification:** 4x.

**Accuracy:**  $\pm 0.0003 \pm 0.2\%$ .

**Lattice value:** 0.0005 0.2%.

Supplied in fitted plastic 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>

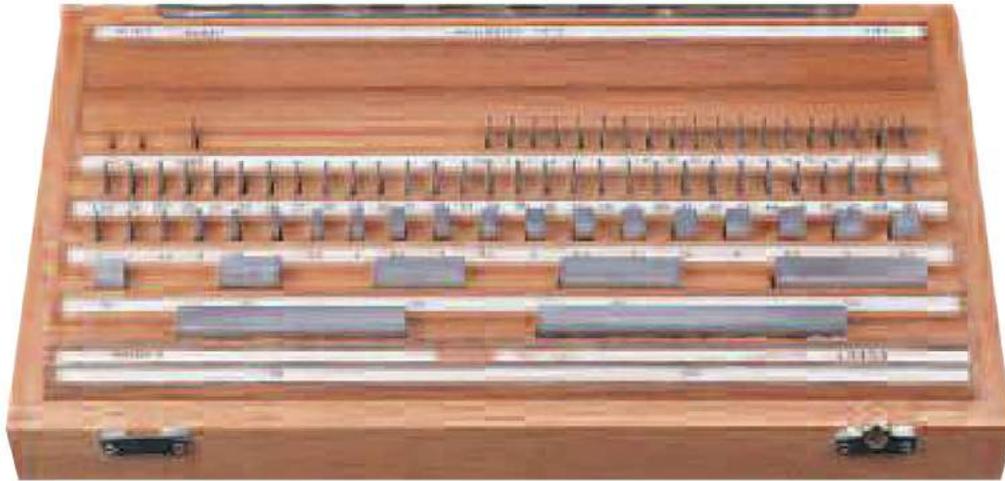
274

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**



**KENNEDY** Steel Gauge  
Block Sets

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



**Grade 2: For Workshop Use**

No. 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"		

No. of Pieces	Range (inclusive)	Increments	Weight each	Order Code
<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**

No. 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"		

No. of Pieces	Range (inclusive)	Increments	Weight each	Order Code
<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		

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**

**KENNEDY** Adjustable Steel Squares

Made from hardened steel and precision ground. Supplied with three fully adjustable blades. One plain, parallel blade for use as a conventional engineer's square, 30° and 45° bevel edged blade for checking angles, and a narrow blade graduated metric and imperial.



Measured Length	Weight each	Order Code
100mm/4"	340g	<b>-4150K</b>
150mm/6"	410g	<b>-4160K</b>

**KENNEDY** 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.



Product Number	Range	Resolution	Weight each	Order Code
PDV360	360° (90° x 4)	0.1°	10.2kg	<b>-4020K</b>

**OXFORD PRECISION** Engineer's Squares

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. Conforms to **BS939 Grade B**.



Size (mm)	tol. (mm)	Order Code
75 ( 3")		<b>-0030K</b>
100 ( 4")	+/- 0.016	<b>-0040K</b>
150 ( 6")		<b>-0060K</b>
225 ( 9")		<b>-0090K</b>
300 (12")	+/- 0.024	<b>-0120K</b>

**OXFORD PRECISION** Engineer's Levels

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. Conforms to **BS939 Grade B**.



Size (mm)	Order Code
165 x 34	<b>-4940K</b>
310 x 36	<b>-4970K</b>

**KENNEDY** Screw Plug Gauges

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>

PRECISION EQUIPMENT



# OXFORD PRECISION Steel Parallels

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

### 18 Piece Set

Contents: nine pairs of the following sizes:

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

Supplied in wooden storage box.



18  
PIECES

Weight each	Order Code OXD-372
2.8kg	-3620K

## STEEL PARALLELS

GROUP  
372



### 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.



16  
PIECES

Weight each	Order Code OXD-372
12.7kg	-3600K

### 28 Piece Set

Contents: fourteen pairs of the following sizes:

- 14 x 10 x 150mm,
- 16 x 10 x 150mm,
- 18 x 10 x 150mm,
- 20 x 10 x 150mm,
- 22 x 10 x 150mm,
- 24 x 10 x 150mm,
- 26 x 10 x 150mm,
- 28 x 10 x 150mm,
- 30 x 10 x 150mm,
- 32 x 10 x 150mm,
- 35 x 10 x 150mm,
- 40 x 10 x 150mm,
- 45 x 10 x 150mm,
- 50 x 10 x 150mm.

Supplied in wooden storage box.



28  
PIECES

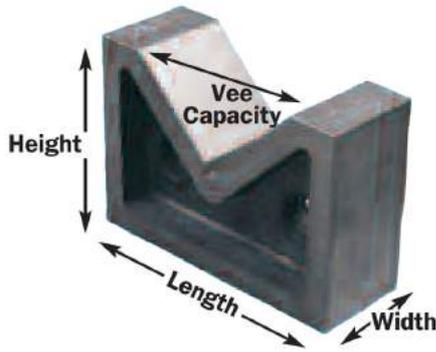
Weight each	Order Code OXD-372
11.5kg	-3640K

PRECISION EQUIPMENT

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

**OXFORD** Precision **Vee Blocks**

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



Dimensions L x W x H	Vee Capacity	Weight/ Pair	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 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/ Pair	Order Code <b>OXD-370</b>
50 x 37 x 37mm	1.0kg	<b>-2300K</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/ Pair	Order Code <b>OXD-370</b>
31.5 x 40 x 31.5mm	1.7kg	<b>-2310K</b>



**OXFORD PRECISION 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>
12½" x 10" x 8"	27.0kg	<b>-1370K</b>

**Electronic Weighing Scales**

Digital display. Designed to run on mains power via the 12Vdc 650mA AC adaptor provided or the 6V4AH rechargeable battery (included). Units will run up to 20 hours on a single full charge. **Capacity:** 15kg/31lb. **Resolution:** 0.002kg/0.005lb.



Model No.	Maximum Capacity	Order Code <b>OXD-844</b>
WS-15E	15kg	<b>-2220K</b>

**SURFACE PLATES/SCALES & MEASURES**

**GROUP 370**



**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>
12½" x 10" x 8"	26.5kg	<b>-1170K</b>

**KENNEDY Liquid Measures**

Chemical and oil resistant polyethylene liquid measures.



Capacity (Litres)	Resolutions	Weight	Order Code <b>KEN-540</b>
¼	¼ ltr - 10ml	45g	<b>-5500K</b>
½	½ ltr - 10ml	75g	<b>-5520K</b>
1	1 ltr - 10ml	100g	<b>-5540K</b>
2	2 ltr - 20ml	180g	<b>-5560K</b>
3	3 ltr - 50ml	260g	<b>-5580K</b>
5	5 ltr - 100ml	360g	<b>-5600K</b>

PRECISION EQUIPMENT

**PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR**