

Measuring Examples

External Dimensions

Put the workpiece as close to the reference surface as possible, and have the measuring faces firmly in contact with the workpiece without excessive force.



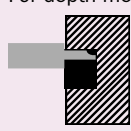
Internal Dimensions

For inside measurement, put the inside jaws as deep as possible and have the measuring faces firmly in contact with the workpiece without excessive force.



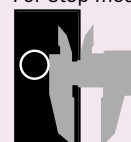
Depth Measurement

For depth measurement, set the depth bar perpendicular to the measured surfaces.



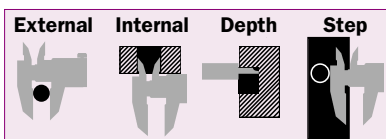
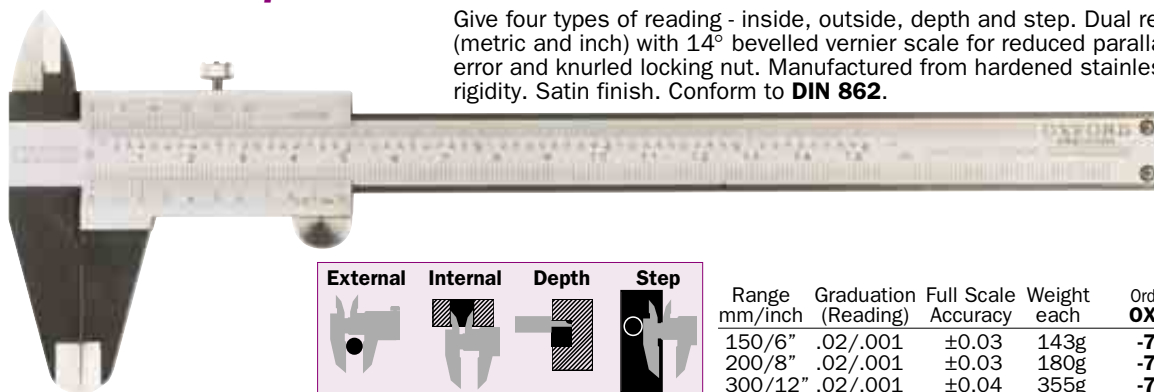
Step Measurement

For step measurement, have the step-measuring-faces firmly in contact with the workpiece.



OXFORD PRECISION Standard Vernier Calipers

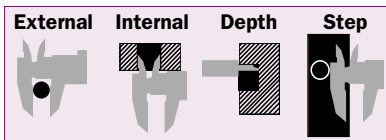
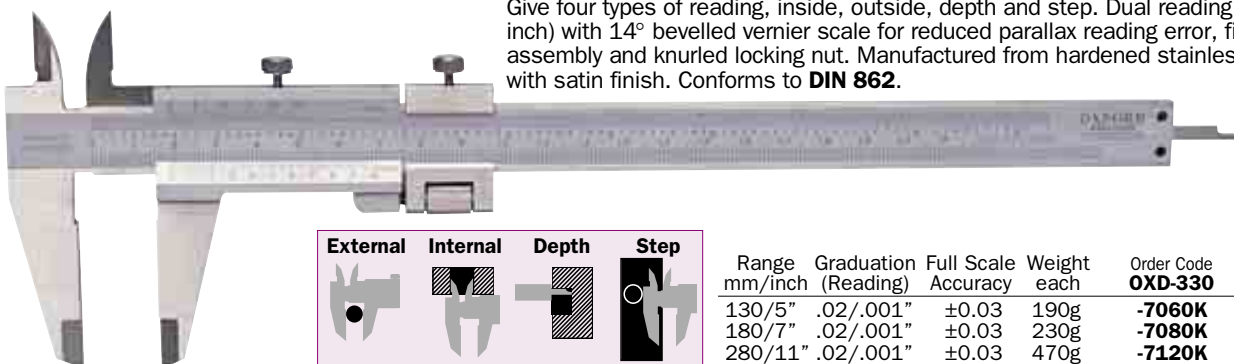
Give four types of reading - inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error and knurled locking nut. Manufactured from hardened stainless steel for rigidity. Satin finish. Conform to **DIN 862**.



Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
150/6"	.02/.001	±0.03	143g	-7360K
200/8"	.02/.001	±0.03	180g	-7380K
300/12"	.02/.001	±0.04	355g	-7420K

Fine Adjustment Vernier Calipers

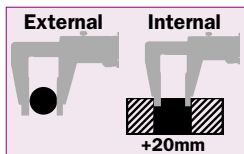
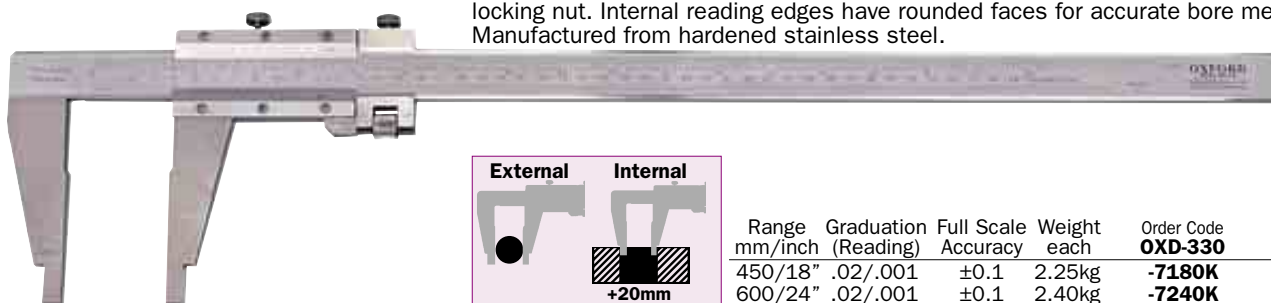
Give four types of reading, inside, outside, depth and step. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error, fine adjustment assembly and knurled locking nut. Manufactured from hardened stainless steel for rigidity with satin finish. Conforms to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



Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
130/5"	.02/.001"	±0.03	190g	-7060K
180/7"	.02/.001"	±0.03	230g	-7080K
280/11"	.02/.001"	±0.03	470g	-7120K

Heavy Duty Vernier Calipers

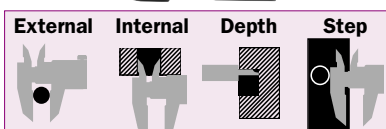
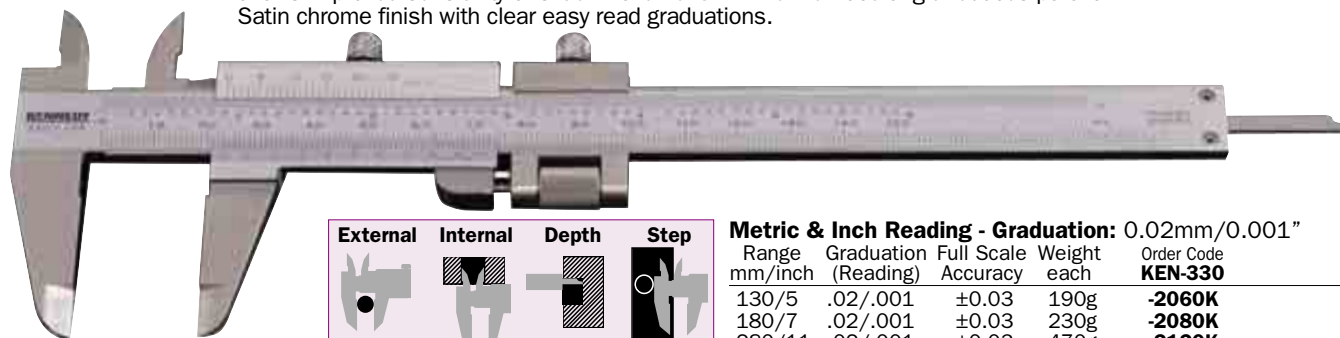
Give inside and outside readings. Dual reading scale (metric and inch) with 14° bevelled vernier scale for reduced parallax reading error, fine adjustment assembly and knurled locking nut. Internal reading edges have rounded faces for accurate bore measurement. Manufactured from hardened stainless steel.



Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
450/18"	.02/.001	±0.1	2.25kg	-7180K
600/24"	.02/.001	±0.1	2.40kg	-7240K

KENNEDY QUALITY INDUSTRIAL TOOLING 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 - Graduation: 0.02mm/0.001"

Range mm/inch	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
130/5	.02/.001	±0.03	190g	-2060K
180/7	.02/.001	±0.03	230g	-2080K
280/11	.02/.001	±0.03	470g	-2120K

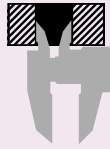
External Dimensions

Put the workpiece as close to the reference surface as possible, and have the measuring faces firmly in contact with the workpiece without excessive force.



Internal Dimensions

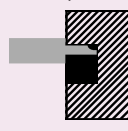
For inside measurement, put the inside jaws as deep as possible and have the measuring faces firmly in contact with the workpiece without excessive force.



Measuring Examples

Depth Measurement

For depth measurement, set the depth bar perpendicular to the measured surfaces.



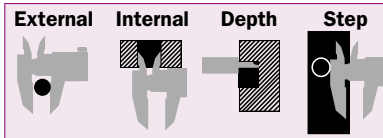
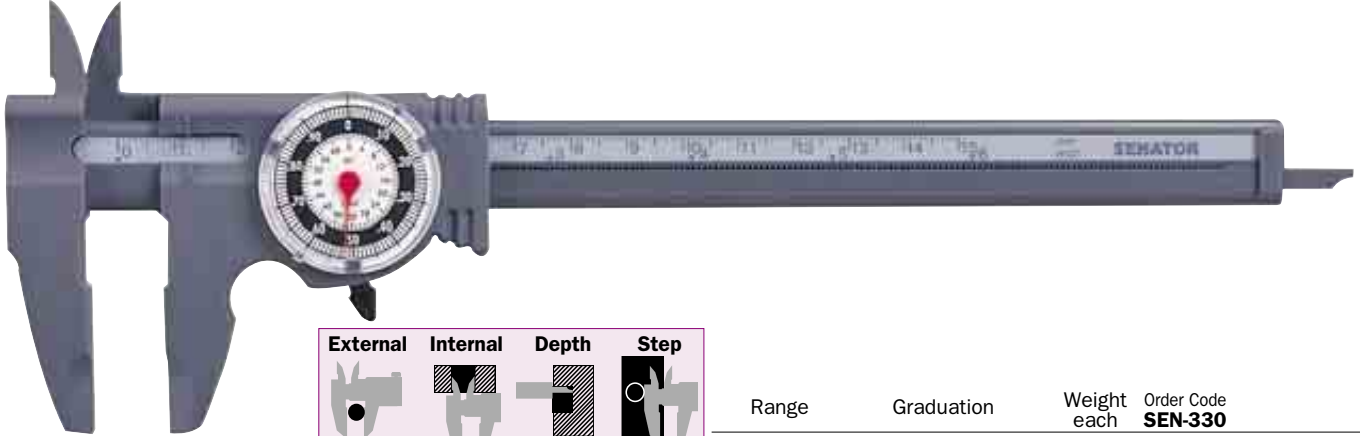
Step Measurement

For step measurement, have the step-measuring-faces firmly in contact with the workpiece.



SENATOR Dial Calipers - Plastic
QUALITY TOOLING

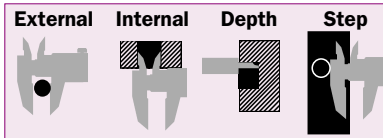
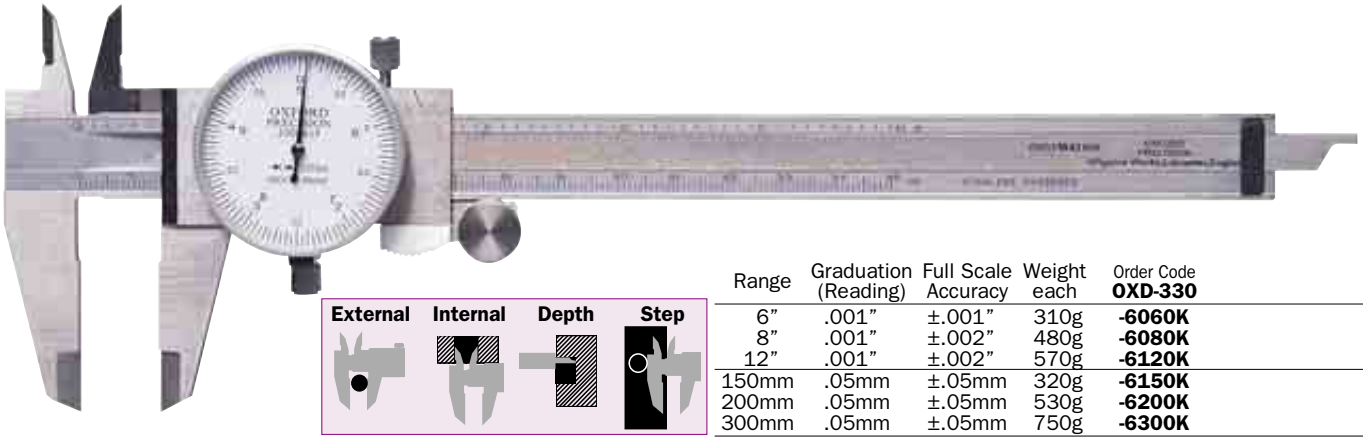
Accurate four way measurement: internal, external, step and depth. Sliding jaw lock. Manufactured from high strength, lightweight polyimide plastic.



Range	Graduation	Weight each	Order Code
6"	0.01" / 1/64"	220g	SEN-330

OXFORD Dial Calipers
PRECISION

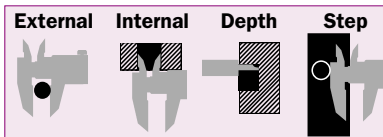
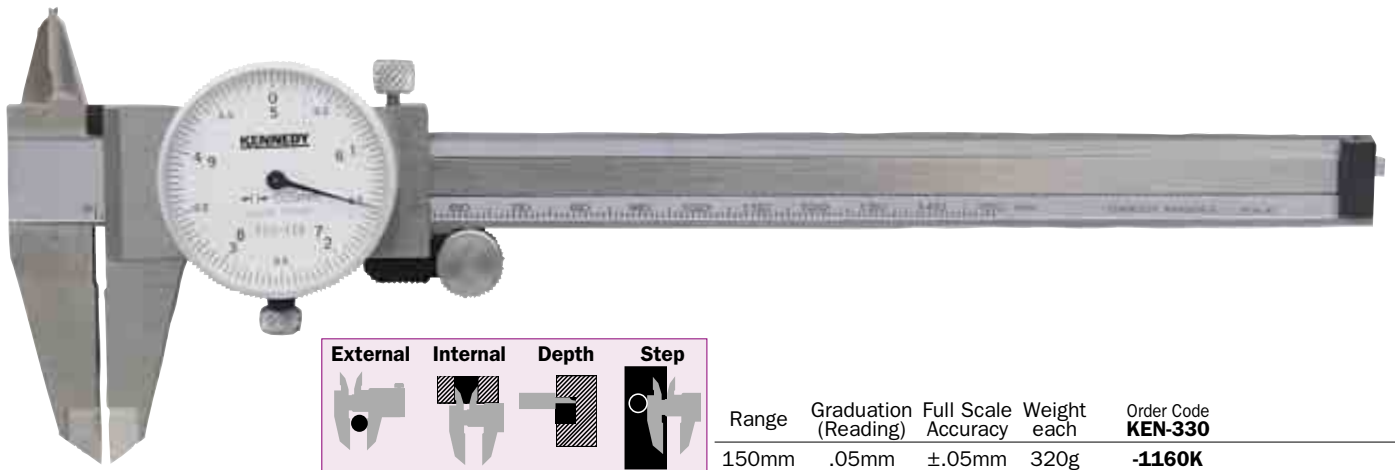
Rack covers prevent dust from fouling teeth of racks. All measuring faces are precision ground and micro lapped for absolute inside, outside, depth and step readings. Manufactured to **DIN 862**.



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

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**.



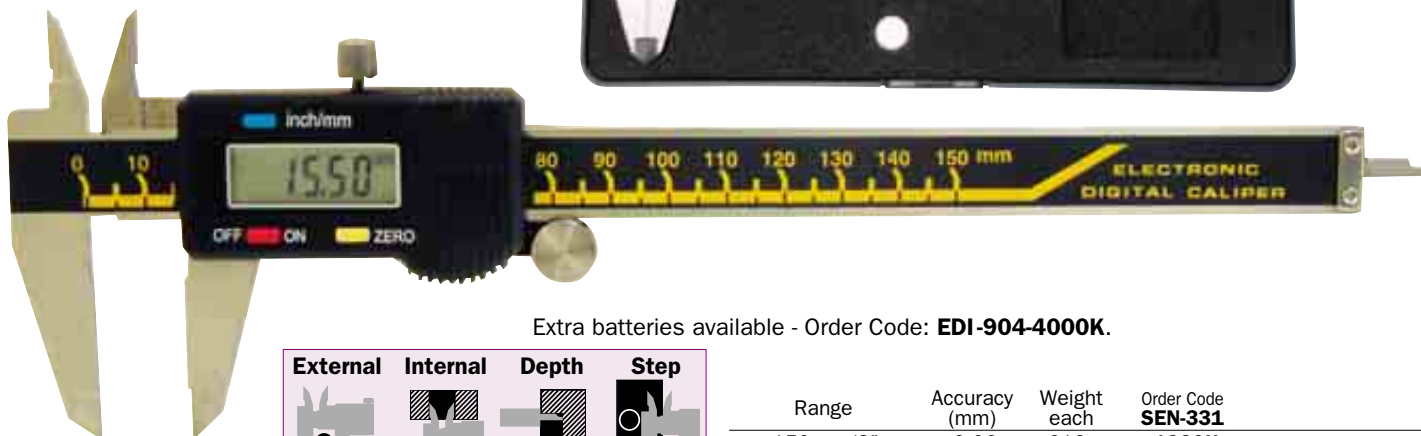
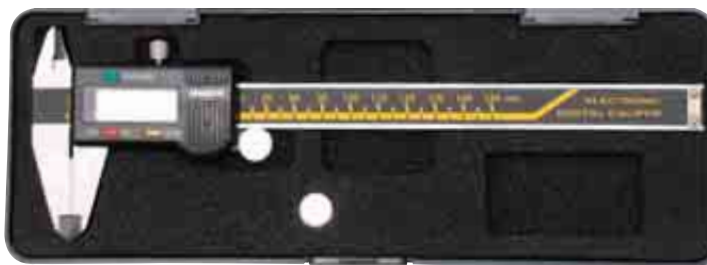
Range	Graduation (Reading)	Full Scale Accuracy	Weight each	Order Code
150mm	.05mm	±.05mm	320g	-1160K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

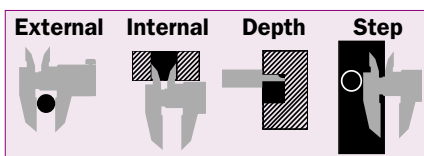
GROUP 331 DIGITAL CALIPERS

SENATOR Economy Digital Calipers

Suitable for taking inside and outside precision readings. Zero reset. Inch/metric conversion. Supplied with plastic case. Conforms to **DIN 862**. **Resolution 0.01mm/0.0005"**



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

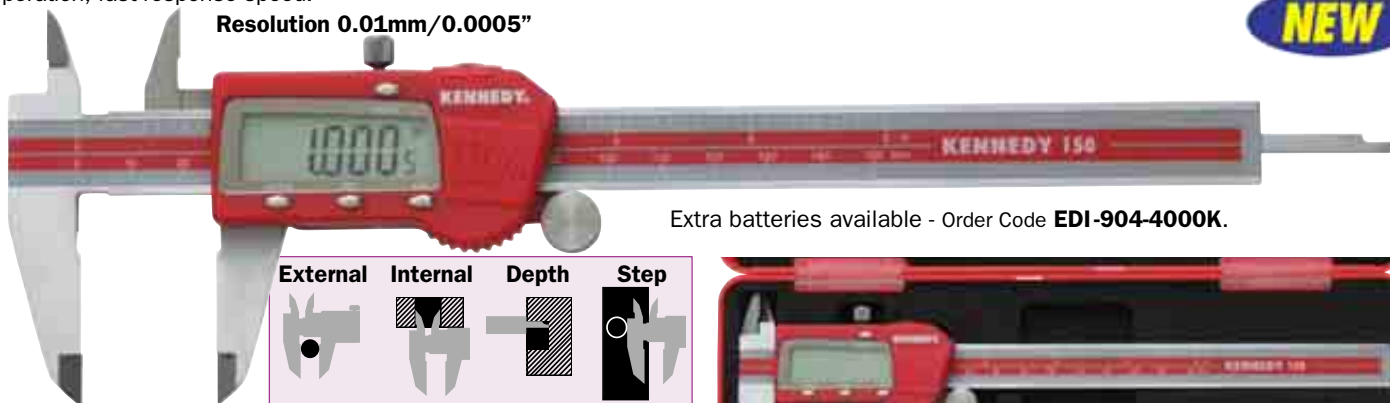


Range	Accuracy (mm)	Weight each	Order Code SEN-331
150mm/6"	±0.03	310g	-1330K
200mm/8"	±0.03	310g	-1360K
300mm/12"	±0.03	310g	-1400K

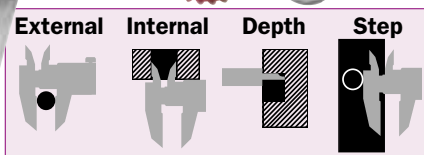
KENNEDY ABSolute Digital Electronic Calipers

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.

Resolution 0.01mm/0.0005"



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



Range	Accuracy (mm)	Weight each	Order Code KEN-331
150mm/ 6"	±0.03		-2260K
200mm/ 8"	±0.03		-2280K
300mm/12"	±0.03		-2320K



ABSolute Calipers with SPC Output

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.



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"

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

Connecting Cables

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

Pin Type	Length	Weight each	Order Code KEN-331
Sub-D-Jack 9 Pin	1m	40g	-9010K
	2m	60g	-9020K



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

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

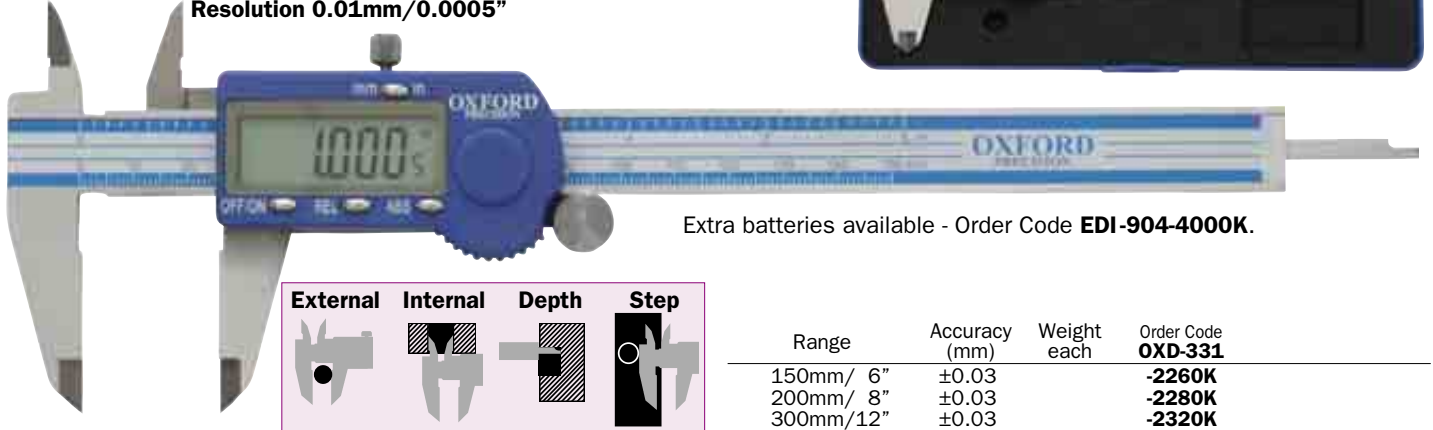


OXFORD PRECISION Precision ABS Digital Caliper

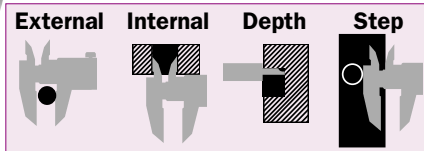
Precision ABSolute digital calipers have a thumb wheel for precise movement and a useful locking screw for checking repeat measurements. A measurement can be converted between inch/metric at the touch of a button.

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**.

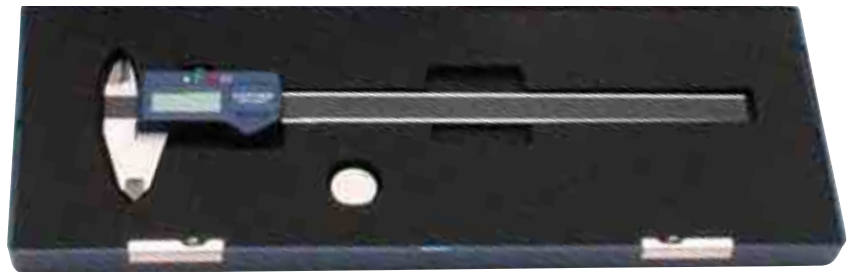


Range	Accuracy (mm)	Weight each	Order Code
150mm/ 6"	±0.03		OXD-331
200mm/ 8"	±0.03		-2260K
300mm/12"	±0.03		-2280K
			-2320K

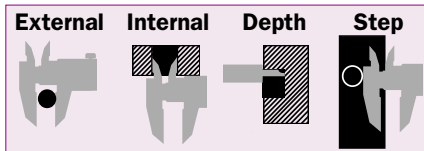
Standard Model with Data Output

Supplied in deluxe case with two batteries. Data cables sold separately.

Resolution 0.01mm/0.0005"



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



Range	Accuracy (mm)	Weight each	Order Code
200mm/8"	±0.03	500g	OXD-331
300mm/12"	±0.03	750g	-3080K
			-3120K

Data Connecting Cables

With 4 pin jack and data hold button.

Pin Type	Length	Weight each	Order Code
Sub-D-Jack 9 Pin	1m	40g	OXD-331
Flat Plug 10 Pin	2m	60g	-9010K
			-9020K

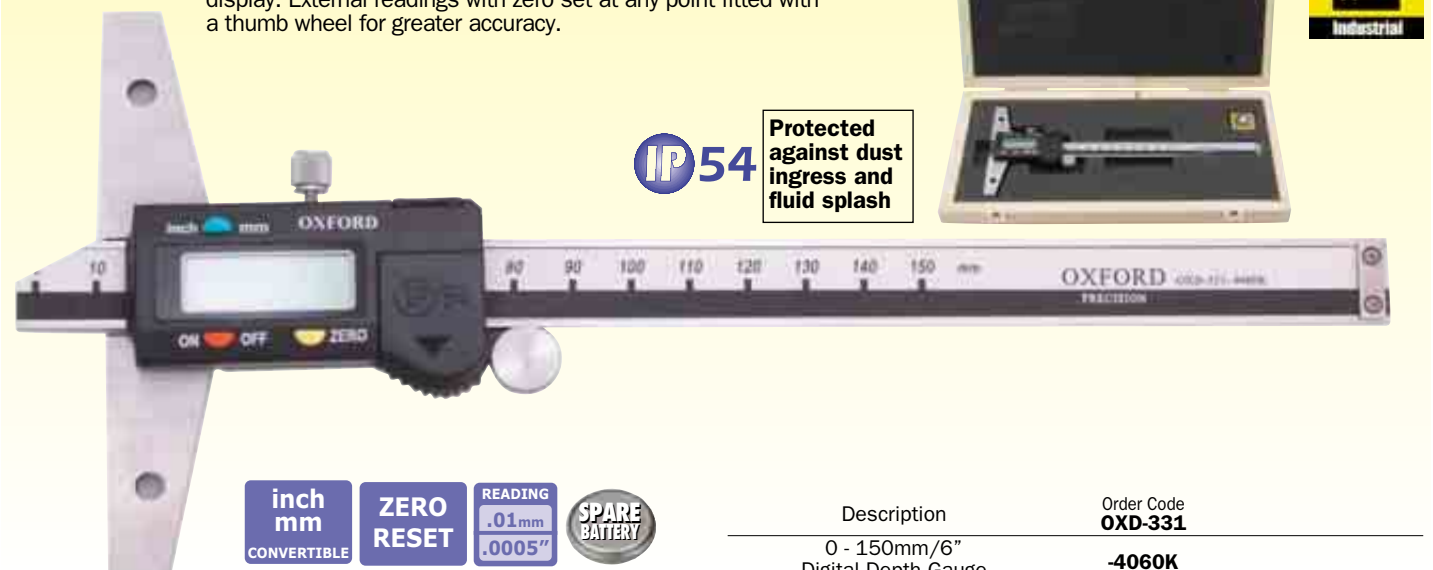
DATA OUTPUT

0 - 150mm/0 - 6" Digital Depth Gauge

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

IP 54

Protected against dust ingress and fluid splash



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

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

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.

IP54

Protected against dust ingress and fluid splash

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



Range	Resolution	Order Code
0 - 25mm/0 - 1"	0.001mm/0.0005"	OXD-331

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. Power supply: 1x SR44 battery, Order Code **PAN-904-5020K** supplied.

Accuracy: ±0.001mm"/0.00005".
Measuring Force: 5-10N.
Supplied in fitted bench case.



IP65

Protected against dust ingress and fluid splash

Resolution: 0.001mm/0.00005"

Range	Weight each	Order Code
0 - 25mm/0 - 1"	270g	KEN-331

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.

NEW



Range	Weight each	Order Code
360° (4 x 90° Quadrants)		KEN-331

OXFORD PRECISION *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
 .001mm
 .00005"

IP54

Protected against dust ingress and fluid splash

Description	Order Code
IDS Digital Indicator	OXD-331

Data Connecting Cables

Pin Type	Length	Weight each	Order Code
Sub-D-Jack 9 Pin	1m	40g	-9010K
Flat Plug 10 Pin	2m	60g	-9020K

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.



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	OXD-331



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 KEN-333
1/4" I/D Lug, Stem/Spigot Dia. 5/16"	90g	-2500K
1/4" I/D Lug only	21g	-3200K

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



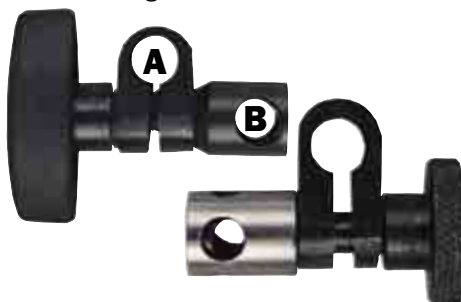
Column:
12 x 175mm.

Cross bar:
10 x 165mm with fine adjustment.

Threaded:
M8 x 1.25mm.

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

Spare Knuckle Assemblies
For connecting columns and crossbars



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

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 KEN-333
1/4" I/D Lug, Stem/Spigot Dia. 5/16"	420g	-2460K
1/4" I/D Lug only	21g	-3200K

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 KEN-333
1/4" I/D Lug, Stem/Spigot Dia. 1/8", 1/4", 5/16" & 3/8"	400g	-2420K

Crossbar Assembly
With lug adaptor, reduced sleeve
Fits over a 10mm bar.



Accepts	Weight each	Order Code KEN-333
6, 8 & 10mm Spigot 1/4" I/D Lug	85g	-3020K

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 KEN-333
1/4" I/D Lug, Dovetails Stem/Spigot Dia. 5/16"	312g	-2480K

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 KEN-333
1/4" I/D Lug, Stem/Spigot Dia. 1/8", 1/4", 5/16" & 3/8"	1450g	-2440K

Crossbar Assembly
With lug adaptor, reduced sleeve.
Fits over a 12mm bar.



Accepts	Weight each	Order Code KEN-333
6, 8 & 10mm Spigot 1/4" I/D Lug	85g	-3040K

GROUP 333 MAGNETIC BASES & COMPARATOR STANDS

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:

120mm x 6.3mm.

Magnetic pull:

14.75kg.

Base dimensions:

30 x 35mm.



Overall Height	Weight each	Order Code
150mm	380g	KEN-333 -2010K

OXFORD Mini-Mag Stand
PRECISION

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	OXD-333 -7010K

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.

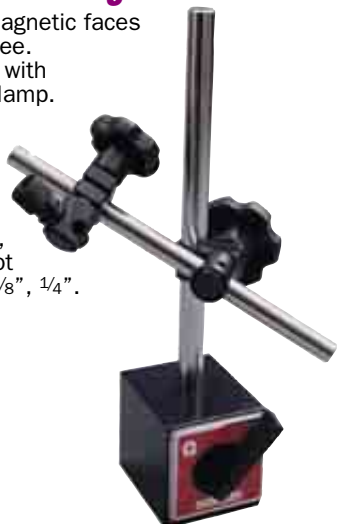
Overall Height	Weight each	Order Code
230mm	1.20kg	OXD-333 -7100K

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	KEN-333 -2030K

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.

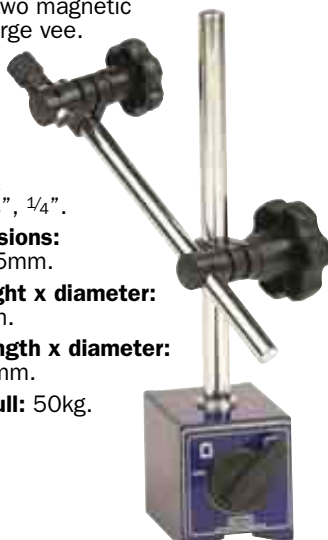
Column height x diameter:

175 x 12mm.

Crossbar length x diameter:

160 x 10.0mm.

Magnetic pull: 50kg.



Overall Height	Weight each	Order Code
230mm	1.20kg	OXD-333 -7030K

Lever Switchable Fine Adj. 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.

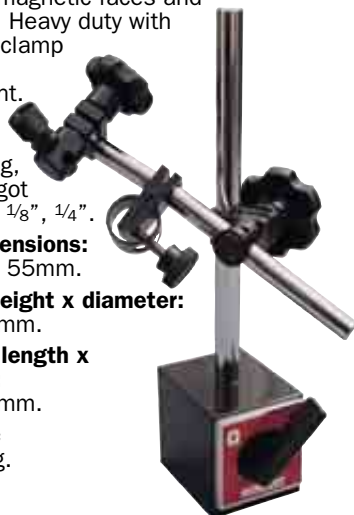
Column height x diameter:

175 x 12mm.

Crossbar length x diameter:

165 x 10mm.

Magnetic pull: 50kg.



Overall Height	Weight each	Order Code
230mm	1.2kg	KEN-333 -2050K

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.



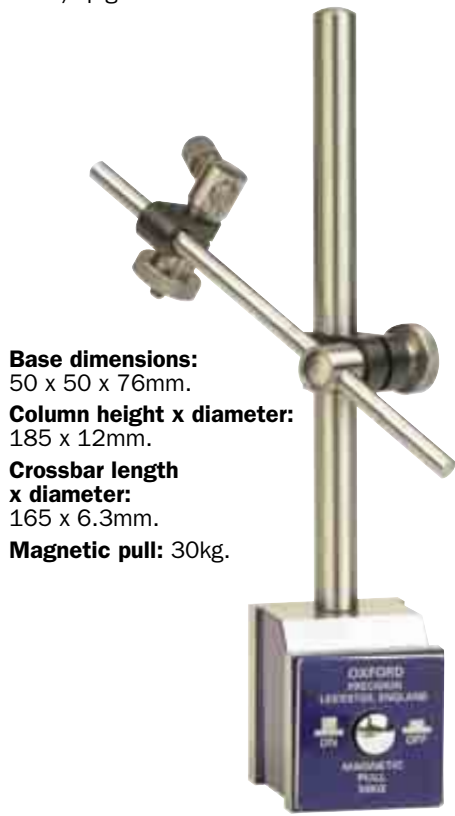
Overall Height	Weight each	Order Code
230mm	1.20kg	OXD-333 -7050K

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.

Overall Height	Weight each	Order Code
280mm	1.90kg	OXD-333 -7080K



Precision & Laboratory Equipment



KENNEDY
QUALITY INDUSTRIAL TOOLING

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	-2110K

Major 4 Mag Stand

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

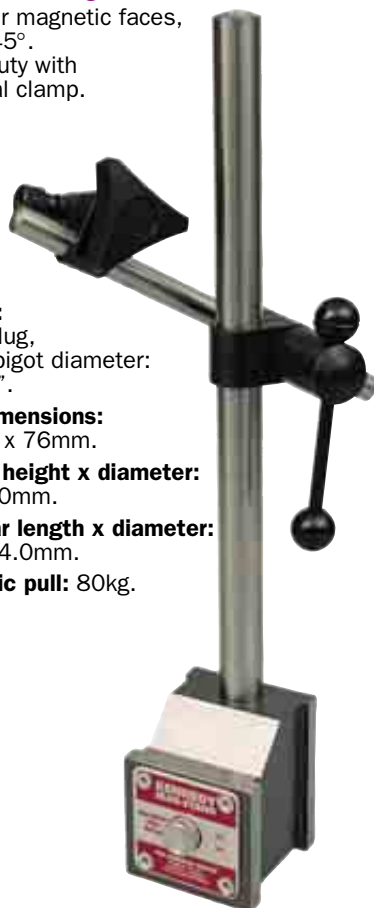
Mounts:
1/4" I/D lug, stem/spigot diameter: 1/4", 5/16".

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	-2070K

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	-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 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	-2100K

Compact 4 Mag Stand

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

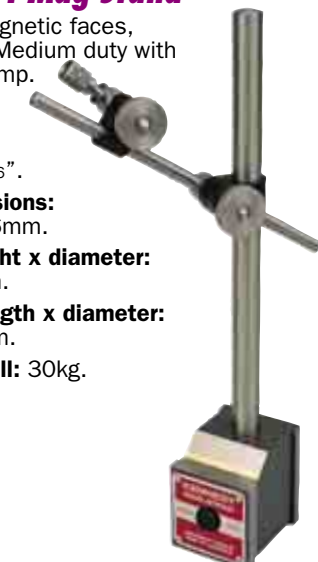
Mounts:
1/4" I/D lug, stem/spigot diameter: 5/16".

Base dimensions:
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
2273	0.89kg	-2080K

Lever Type Base - 50kg

Fitted as standard to **KEN-333-2030K**, **-2050K** and **-2110K** two magnetic 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	-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.

Threaded: M8 x 1.25mm.

Magnetic pull: 30kg.



Magnetic Pull	Weight each	Order Code
30kg	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.



Magnetic Pull	Weight each	Order Code
80kg	850g	-2200K

GROUP 335 MICROMETERS - BORE

OXFORD PRECISION 3 Point Bore Micrometer Sets

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



Precision & Laboratory Equipment

OXD-335-2490K - Contents:

Micrometers: 6 - 8mm, 8 - 10mm, 10 - 12mm.
 Calibration rings: 8 and 10mm.
 Slotted screwdrivers, 2 x spanners, extension bar.



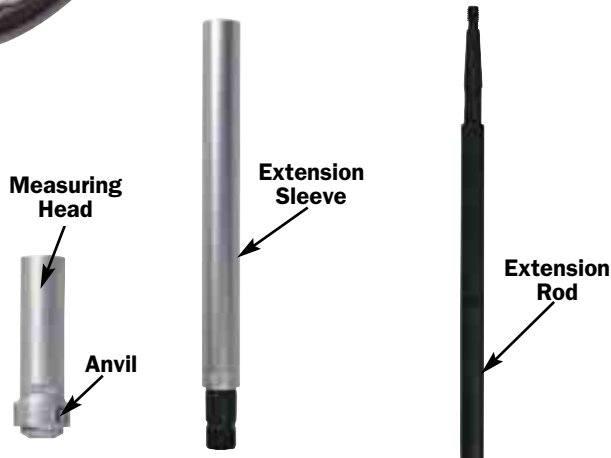
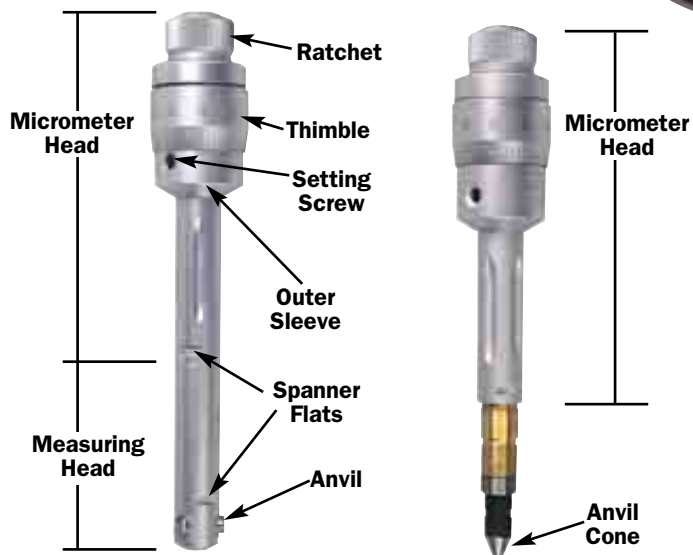
OXD-335-2500K - Contents:

Micrometers: 11 - 14mm, 14 - 17mm, 17 - 20mm.
 Slotted screwdrivers, 2 x spanners, extension bar for measuring 170mm deep. Calibration rings: 14 and 17mm.



OXD-335-2510K - Contents:

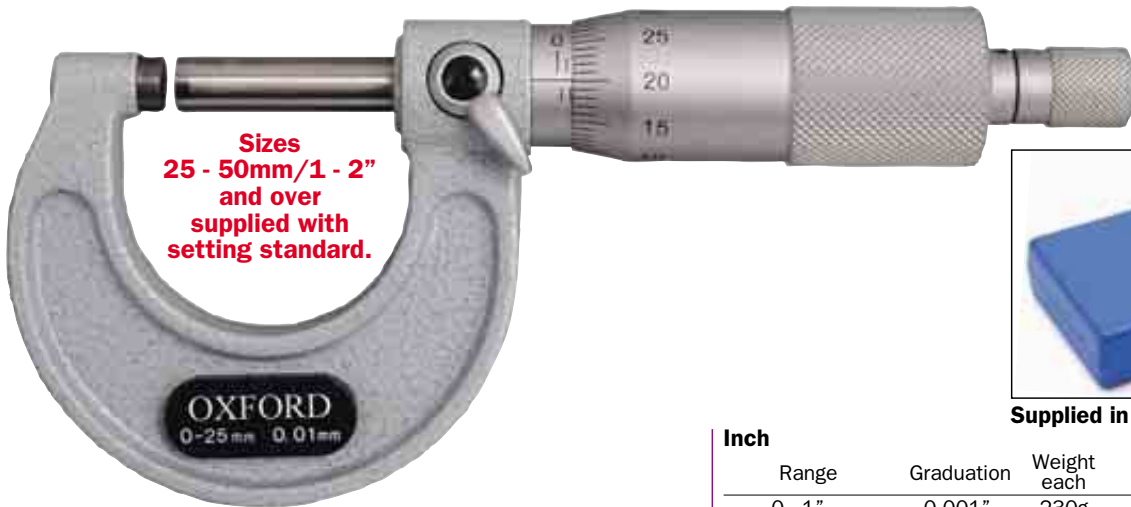
Micrometers: 20 - 25mm, 25 - 30mm, 30 - 35mm, 35 - 40mm.
 Slotted screwdrivers, 2 x spanners, extension bar for measuring 220mm deep.
 Calibration rings: 25 and 35mm.



Range (mm)	Number of Micrometers	Weight each	Order Code
6 - 12mm	3		OXD-335-2490K
11 - 20mm	3		-2500K
20 - 40mm	4		-2510K

OXFORD Enamelled Frame
PRECISION 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	-7130K
100mm	30g	-7040K	4"	30g	-7140K
125mm	40g	-7050K	5"	40g	-7150K

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 Enamelled Frame
QUALITY INDUSTRIAL TOOLING 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 MICROMETERS - EXTERNAL

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 & Laboratory Equipment

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

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.



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

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.



Precision & Laboratory Equipment

Description	Weight each	Order Code
10 Pce Engineers Tool Set		OXD-335 -9200K

Multi Anvil Micrometer Set

An external micrometer with seven pairs of interchangeable anvils. For measuring grooves, threads, bearings, tube and sheet.

Anvils Included:

12mm disc, 5.5mm blade, 60° cone and blade, 6.5mm radius, 6.5 and 2mm flat.



Range	Graduation	Weight each	Order Code
0 - 25mm	0.01mm		OXD-335 -3250K

PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR

GROUP 335 MICROMETERS - EXTERNAL

OXFORD PRECISION Interchangeable Anvil Micrometer

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: ± 0.6 mm.

Parallelism: $(2+L/100)$ mm.



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

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's perforated for lightness.



NEW

Range	Graduation	Weight each	Order Code
300 - 400mm	0.01mm		OXD-335 -3100K
400 - 500mm	0.01mm		-3120K
500 - 600mm	0.01mm		-3140K

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.



Range	Graduation	Weight each	Order Code
0 - 25mm	0.01		OXD-335 -4100K

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	OXD-335 -3520K

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	OXD-200 -2000K

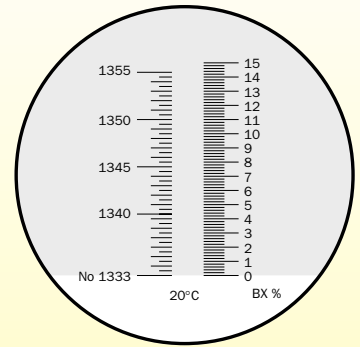
GROUP 336/338 REFRACTOMETERS/STEEL GAUGE BLOCKS

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.



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: $\pm 0.0003 \pm 0.2\%$

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	OXD-336 -1010K

Spares

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

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**.



Grade 2: For Workshop Use

No. of Pieces	Range (inclusive)	Increments	Weight each	Order Code
36 Piece Inch				
(2)	.05"-.10"	.05"	2.4kg	-3360K
(9)	.1001-.1009"	.0001"		
(9)	.101-.109"	.001"		
(9)	.110-.190"	.010"		
(4)	.2-.5"	.10"		
(3)	1, 2 & 4"			
81 Piece Inch				
(9)	.1001-.1009"	.0001"	4.0kg	-3810K
(49)	.101-.149"	.001"		
(19)	.05-.95"	.05"		
(4)	1-4"	1"		
47 Piece Metric				
(1)	1.005mm		2.1kg	-4470K
(9)	1.01-1.09mm	.01mm		
(9)	1.1-1.9mm	.1mm		
(24)	1-24mm	1mm		
(4)	25-100mm	25mm		
88 Piece Metric				
(1)	1.0005mm		2.8kg	-4880K
(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
81 Piece Inch				
(9)	.1001-.1009"	.0001"	4.0kg	-4810K
(49)	.101-.149"	.001"		
(19)	.05-.95"	.05"		
(4)	1-4"	1"		
47 Piece Metric				
(1)	1.005mm		2.4kg	-5470K
(9)	1.01-1.09mm	.01mm		
(9)	1.1-1.9mm	.10mm		
(24)	1-24mm	1mm		
(4)	25-100mm	25mm		
88 Piece Metric				
(1)	1.0005		2.8kg	-5880K
(9)	1.001-1.009mm	.001mm		
(49)	1.01-1.49mm	.01mm		
(20)	.5-10mm	.5mm		
(9)	20-100mm	10mm		



Precision & Laboratory Equipment

KENNEDY Engineer's Squares
QUALITY INDUSTRIAL TOOLING



Manufactured from hardened and tempered steel.



The edges are ground parallel to give the square an exact right angle on both the inside and outside of the stock and blade.

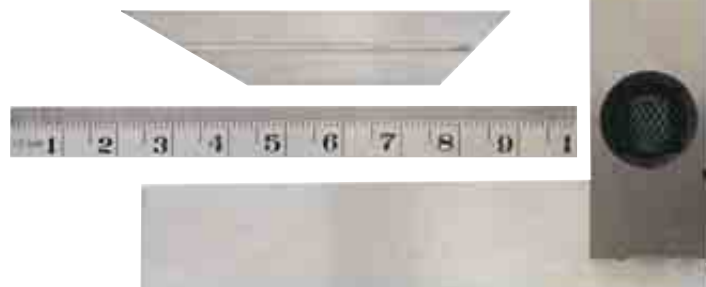
Made to BS 939. Grade B.

***Supplied in robust case.**

Size (mm)	Weight each	Order Code KEN-518
75 (3")*	140g	-4030K
100 (4")*	270g	-4040K
150 (6")*	320g	-4060K
225 (9")	1400g	-4090K
300 (12")	2000g	-4120K

Adjustable Steel Squares

Made from hardened steel ,precision ground, with three blades, one plain, parallel blade for use as an engineer's square, 30° and 45° bevel edged blade for checking angles, and a narrow blade graduated metric and inch.



Measured Length	Weight each	Order Code KEN-518
100mm/4"	340g	-4150K
150mm/6"	410g	-4160K

OXFORD Engineer's Squares
PRECISION



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 OXD-340
75 (3")	-0030K
100 (4")	-0040K
150 (6")	-0060K
225 (9")	-0090K
300 (12")	-0120K

200mm Precision Prism Level

Two plastic knobs insulate the level from the hand's heat. Reading: 0.0005" per foot (10 seconds) (0.05mm/m). V-grooved base allows levelling cylindrical surfaces. Two graduated vials allow for transverse and horizontal settings. Packed in strong, wooden, fitted case.

Dimensions:
Level: 200 x 50 x 40mm.
Case: 235 x 80 x 50mm.



Dimensions (W x D x Hmm)	Base	Weight each	Order Code OXD-340
200 x 50 x 40	200mm	1.9kg	-5000K

KENNEDY Screw Plug Gauges
QUALITY INDUSTRIAL TOOLING

EXTENDED RANGE

Double Ended Go & No Go



Thread Size	Weight each	Order Code KEN-360
Metric Coarse — Class 6H Tolerance		
M2.0 x 0.40	4g	-0810K
M2.5 x 0.45	4g	-0830K
M3.0 x 0.50	4g	-0840K
M4.0 x 0.70	10g	-0860K
M5.0 x 0.80	12g	-0880K
M6.0 x 1.00	14g	-0890K
M7.0 x 1.00	26g	-0900K
M8.0 x 1.25	28g	-0910K
M9.0 x 1.25	28g	-0920K
M10.0 x 1.50	52g	-0930K
M12.0 x 1.75	70g	-0950K
M14.0 x 2.00	108g	-0960K
M16.0 x 2.00	128g	-0970K
M18.0 x 2.50	132g	-0980K
M20.0 x 2.50	148g	-0990K
M24.0 x 3.00	272g	-1010K
M30.0 x 3.50	484g	-1030K
M36.0 x 4.00	622g	-1050K

Screw Ring Gauges

Made from the finest quality steel and are thoroughly hardened, stabilised and thread ground under strict quality control procedures ensuring a high quality product for optimum wear life.

EXTENDED RANGE

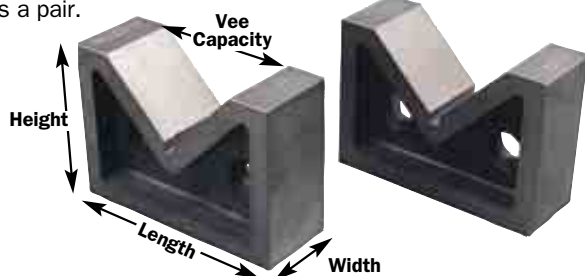


Thread Size	Weight each	Order Code KEN-361
Metric Coarse — Class Tolerance 6G		
M2.0 x 0.40	8g	-0070K
M3.0 x 0.50	8g	-0100K
M4.0 x 0.70	14g	-0120K
M5.0 x 0.80	16g	-0140K
M6.0 x 1.00	50g	-0150K
M8.0 x 1.25	58g	-0170K
M10.0 x 1.50	66g	-0190K
M12.0 x 1.75	96g	-0210K
M16.0 x 2.00	176g	-0230K
M20.0 x 2.50	206g	-0250K
M24.0 x 3.00	244g	-0270K

GROUP 370 STEEL VEE BLOCKS, SQUARES & SURFACE PLATES

OXFORD Vee Blocks
PRECISION

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/ Pair	Order Code OXD-370
75 x 33 x 60mm	45	1.7kg	-2110K
100 x 40 x 65mm	56	2.9kg	-2120K
125 x 50 x 78mm	62	4.8kg	-2130K
150 x 62 x 88mm	78	6.5kg	-2140K
200 x 100 x 140mm	113	11.2kg	-2150K
250 x 125 x 165mm	125	19.0kg	-2160K

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 OXD-370
31.5 x 40 x 31.5mm	1.7kg	-2310K

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 OXD-370
50 x 37 x 37mm	1.0kg	-2300K

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**.

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

Adjustable Swivel Angle Surface Plates

With radial locking hardened and ground pins and plain slotted top, are made from close grained cast iron with a Grade 2 ground finish.



3 - 4 Day Delivery

Type	Dimensions Length x Width	Weight each	Order Code OXD-370
SA1P	150 x 127mm	6kg	-1720K
SA2P	210 x 150mm	12kg	-1740K
SA4P	250 x 200mm	22kg	-1760K

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 OXD-370
3 1/2" x 3" x 2 1/2"	4.60kg	-1310K
4 1/2" x 3 1/2" x 3"		-1320K
6" x 5" x 4 1/2"		-1340K
8" x 6" x 5"		-1350K
10" x 8" x 6"		-1360K
12" x 9" x 8"	-1370K	

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 OXD-370
3 1/2" x 3" x 2 1/2"	1.4kg	-1100K
4 1/2" x 3 1/2" x 3"	1.5kg	-1110K
6" x 5" x 4 1/2"	6.1kg	-1120K
8" x 6" x 5"	10.4kg	-1140K
10" x 8" x 6"	15.6kg	-1160K
12" x 9" x 8"	26.5kg	-1170K



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



PRODUCTS ARE ONLY AVAILABLE VIA YOUR DISTRIBUTOR



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

EXTENDED RANGE



Dimensions Length x Width x Height	Weight/ Pair	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 4 x 150mm		-3800K
14 x 4 x 160mm		-3710K
16 x 4 x 150mm		-3810K
16 x 25 x 150mm		-4160K
18 x 4 x 140mm		-3720K
18 x 4 x 150mm		-3820K
20 x 4 x 150mm		-3830K
20 x 30 x 200mm		-4200L
22 x 4 x 140mm		-3730K
22 x 4 x 150mm		-3840K
24 x 4 x 150mm		-3850K
25 x 40 x 250mm		-4250K
26 x 4 x 140mm		-3740K
26 x 4 x 150mm		-3860K
28 x 4 x 150mm		-3870K
30 x 4 x 140mm		-3750K
30 x 4 x 150mm		-3880K
32 x 4 x 150mm		-3890K
34 x 4 x 140mm		-3760K
35 x 4 x 150mm		-3900K
38 x 4 x 140mm		-3770K
40 x 4 x 150mm		-3910K
42 x 4 x 140mm		-3780K
45 x 4 x 150mm		-3920K
50 x 4 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 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 OXD-372
18 Piece Set	2.8kg	-3620K

16 Piece Set

Contents: eight pairs of the following sizes:

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



16
PIECES

Description	Weight each	Order Code OXD-372
16 Piece Set	12.7kg	-3600K

28 Piece Set

Contents:

Contents: fourteen pairs of the following sizes:

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

Supplied in wooden storage box.

NEW

28
PIECES



Description	Weight each	Order Code OXD-372
28 Piece Set	11.5kg	-3640K