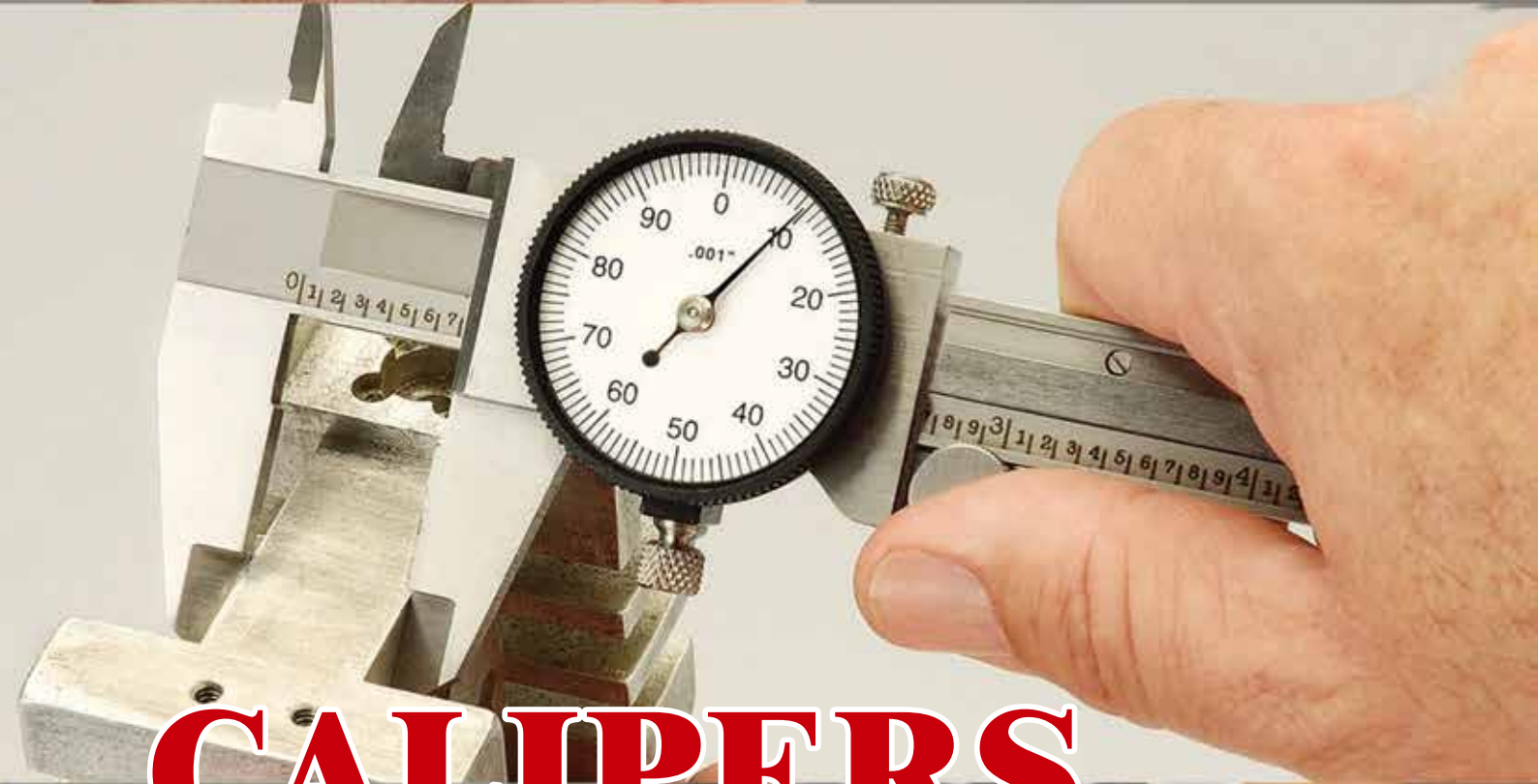
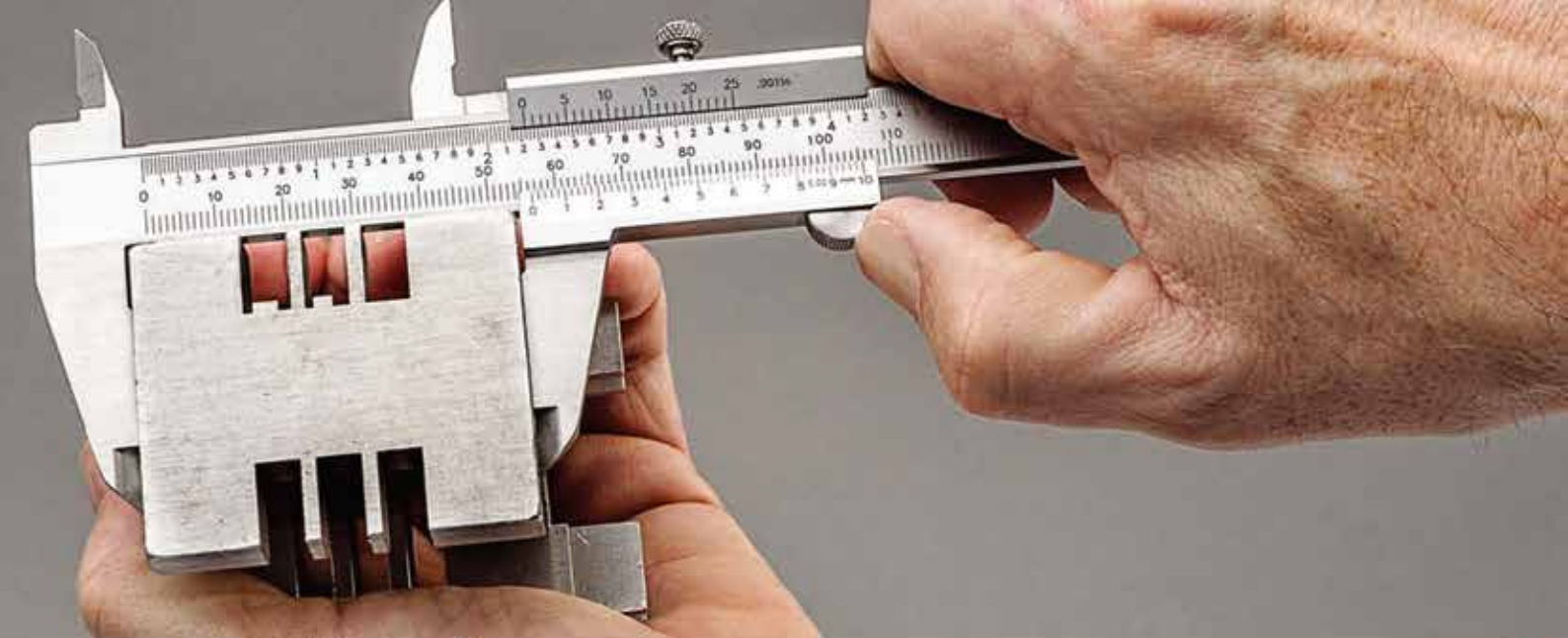


M E A S U R I N G

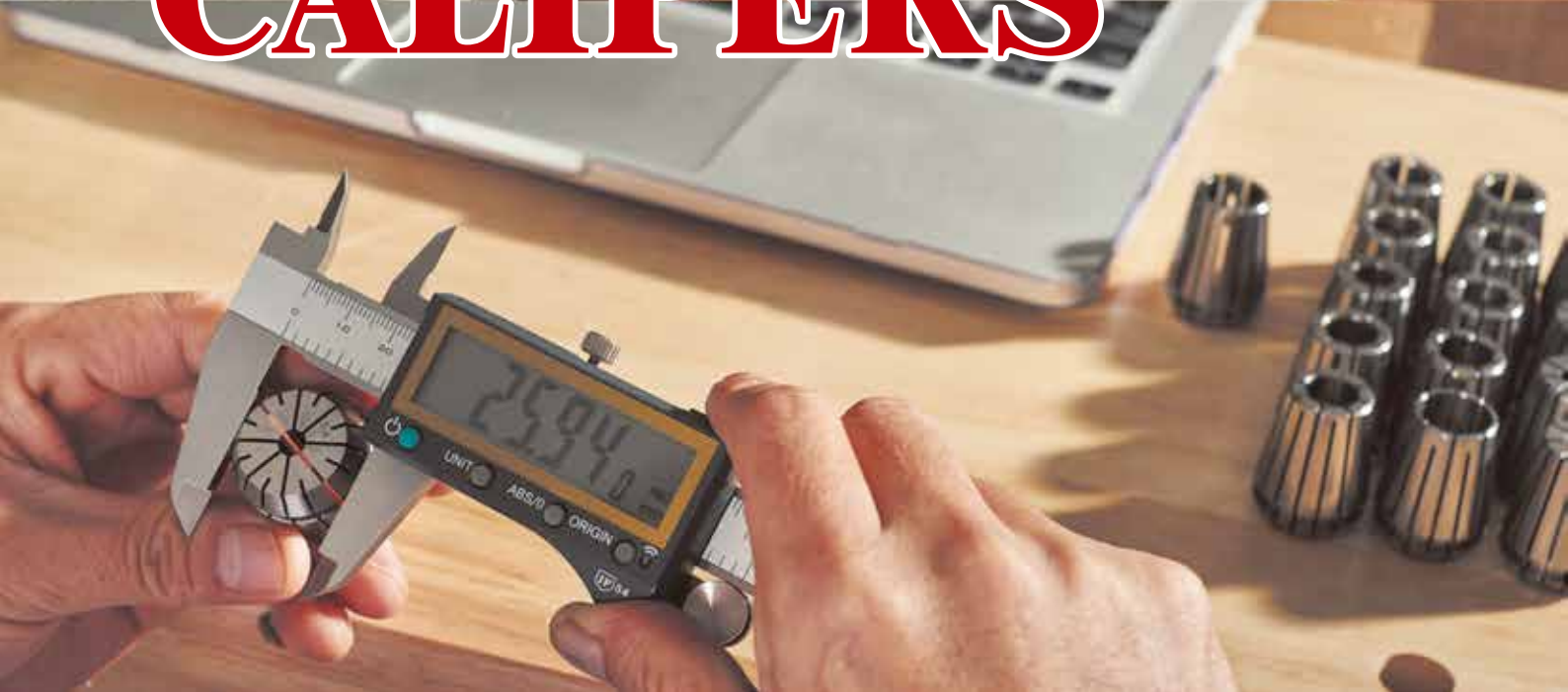
INDEX

01	CALIPERS	PAGE 01~26
02	HEIGHT GAGES	PAGE 27~31
03	MICROMETERS	PAGE 32~52
04	INDICATOR	PAGE 53~79
05	MACHINE MEASURING TOOLS	PAGE 80~91
06	MEASURE STAND/BLOCK	PAGE 92~116
07	HARDNESS TESTER	PAGE 117~144
08	SPECIAL DIY MEASURING TOOLS	PAGE 145~156
09	VISION MEASURE	PAGE 157~161
10	AUTO AND OTHERS	PAGE 162~179



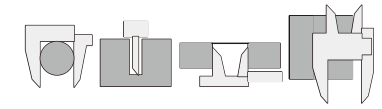


CALIPERS



IP67 DIGITAL CALIPER WITH BUILT-IN WIRELESS TRANSMISSION

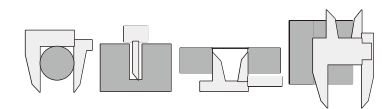
- Built-in wireless transmission.
- Inductive measurement system, suitable for measuring abundant objects.
- Industrial grade and protection grade IP67, ensure the caliper can work reliably in hard environment.
- Large easy-to-read display.
- Automatically power off.
- Measuring speed: • • • • •



RANGE	GRADUATION	ORDER NO.
0-100mm/0-4"	0.01mm/0.0005"	30-400-005
0-150mm/0-6"	0.01mm/0.0005"	30-400-010
0-200mm/0-8"	0.01mm/0.0005"	30-400-015

USB RECHARGEABLE DIGITAL CALIPER

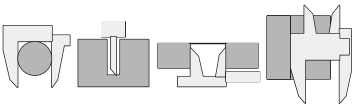
- New generation rechargeable digital caliper.
- Battery charging jack (under rubber cover).
- Accepts Micro-USB plug. Charge the battery for at least two hours before using the caliper for the first time, and after replacing the battery.
- Large easy-to-read display.
- Battery charge LED. Glows red while battery is charging. Turns green when battery is charged.
- Extinguishes when charging cable is unplugged.
- Measuring speed: • • • • •



RANGE	GRADUATION	ORDER NO.
0-100mm/0-4"	0.01mm/0.0005"	30-400-105
0-150mm/0-6"	0.01mm/0.0005"	30-400-110
0-200mm/0-8"	0.01mm/0.0005"	30-400-115

ABSOLUTE IP54 WATER RESISTANT DIGITAL CALIPER

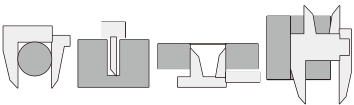
- Sturdy quality, with Absolute function.
- With glass rail for more accuracy.
- Protection against spray water,oil,dust and any other liquid.
- SPC data output.



RANGE	GRADUATION	ORDER NO.
0-100mm/0-4"	0.01mm/0.0005"	30-024-421
0-150mm/0-6"	0.01mm/0.0005"	30-024-422
0-200mm/0-8"	0.01mm/0.0005"	30-024-423
0-300mm/0-12"	0.01mm/0.0005"	30-024-424

IP67 WATER PROOF DIGITAL CALIPER

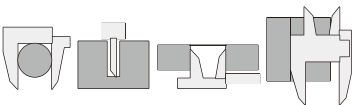
- Top model for industry purposes.
- IP67 protection against water,oil dust or any other liquid.
- Sturdy quality, stainless steel,hardened.
- Large LCD display with clear reading.
- SPC data output.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-315-001
0-200mm/0-8"	0.01mm/0.0005"	30-315-002
0-300mm/0-12"	0.01mm/0.0005"	30-315-003

LARGE SCREEN ELECTRONIC DIGITAL CALIPER

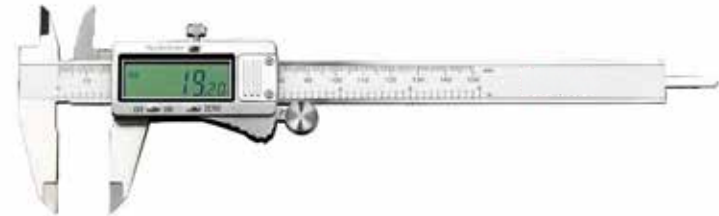
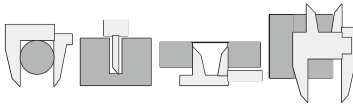
- Auto power of or manual on/off key.
- Stainless steel, hardened.
- Buttons according to request.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-023-302
0-200mm/0-8"	0.01mm/0.0005"	30-023-303
0-300mm/0-12"	0.01mm/0.0005"	30-023-304

METAL COVER DIGITAL CALIPER

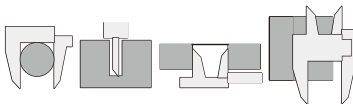
- Metal housing design for professional use, more stability and precise repeatability.
- Super big screen.
- Stainless steel, hardened.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-302-001
0-200mm/0-8"	0.01mm/0.0005"	30-302-002
0-300mm/0-12"	0.01mm/0.0005"	30-302-003

LEFT-HANDED DIGITAL CALIPER

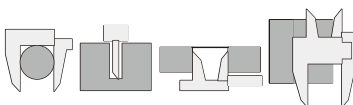
- Easy use for left-handed user.
- Zero-setting at any position, convenient for relatice and absolute measure conversion.
- Jaws finely ground and lapped.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-023-302L
0-200mm/0-8"	0.01mm/0.0005"	30-023-303L
0-300mm/0-12"	0.01mm/0.0005"	30-023-304L

CARBIDE TIPPED JAW BIG SCREEN DIGITAL CALIPER

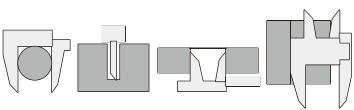
- With durable carbide tips.
- Sturdy quality, stainless steel, hardened.
- Zero-setting at any position, convenient for relative and absolute measure conversion.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-182-001
0-200mm/0-8"	0.01mm/0.0005"	30-182-002
0-300mm/0-12"	0.01mm/0.0005"	30-182-003

HEAVY DUTY DIGITAL CALIPER WITH UPPER JAW

- Nib shaped jaws for ID and OD measurement, carrying upper jaws for OD measurements.
- Zero-setting at any position, convenient for relative and absolute measurement.
- With fine adjustment.
- LONG JAW available.



RANGE	GRADUATION	JAW LENGTH	JAW WIDTH	ORDER NO.
0-500mm/0-20"	0.01mm/0.0005"	100mm	10mm	30-024-005
0-600mm/0-24"	0.01mm/0.0005"	100mm	10mm	30-024-007
0-800mm/0-32"	0.01mm/0.0005"	125mm	20mm	30-024-0085
0-1000mm/0-40"	0.01mm/0.0005"	150mm	20mm	30-024-009
0-1500mm/0-60"	0.01mm/0.0005"	150mm	20mm	30-024-011
0-2000mm/0-80"	0.01mm/0.0005"	150mm	20mm	30-024-013

HEAVY DUTY DIGITAL CALIPER WITHOUT UPPER JAW

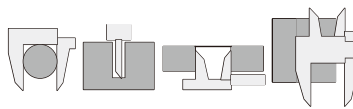
- Nib shaped jaws for ID and OD measurement.
- Zero-setting at any position, convenient for relative and absolute measurement.
- With fine adjustment.
- LONG JAW available.



RANGE	GRADUATION	JAW LENGTH	JAW WIDTH	ORDER NO.
0-500mm/0-20"	0.01mm/0.0005"	100mm	10mm	30-025-010
0-600mm/0-24"	0.01mm/0.0005"	100mm	10mm	30-025-011
0-800mm/0-32"	0.01mm/0.0005"	125mm	20mm	30-025-012
0-1000mm/0-40"	0.01mm/0.0005"	150mm	20mm	30-025-013
0-1500mm/0-60"	0.01mm/0.0005"	150mm	20mm	30-025-014
0-2000mm/0-80"	0.01mm/0.0005"	200mm	20mm	30-025-015
0-2500mm/0-100"	0.01mm/0.0005"	200mm	20mm	30-025-016
0-3000mm/0-120"	0.01mm/0.0005"	200mm	20mm	30-025-017

PLASTIC DIGITAL CALIPER

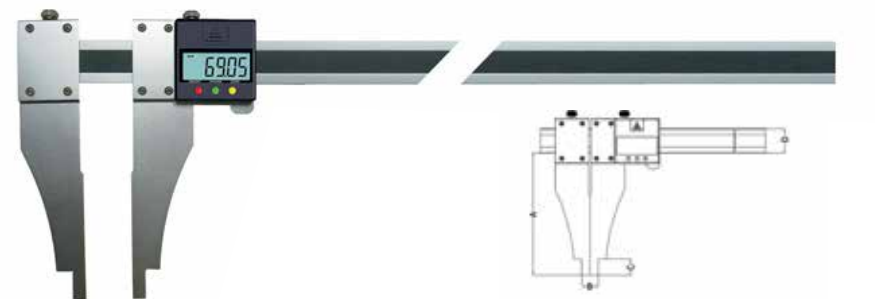
- Made of light weight, high strength, wear-resistant engineering plastic.
- Auto power off, with zero setting, metric/inch conversion function.
- Blister card packing.



RANGE	GRADUATION	ORDER NO.
0-75mm/0-3"	0.01mm/0.0005"	30-278-020
0-100mm/0-4"	0.01mm/0.0005"	30-027-002
0-150mm/0-6"	0.01mm/0.0005"	30-027-001

ALUMINUM DIGITAL CALIPER

- Made of light strong aluminum alloy
- Large LCD display for easy reading.
- Zero Setting at any position .
- Metric/Inch system conversion at any position.
- Power:runs by battery .
- Resolution:.....



RANGE	JAW LENGTH	JAW LENGTH	JAW LENGTH	ORDER NO.
0-500mm/0-20"	150mm	20mm	20mm	30-040-105
0-800mm/0-32"	150mm	20mm	20mm	30-040-110
0-1000mm/0-40"	150mm	20mm	20mm	30-040-115
0-1500mm/0-60"	150mm	20mm	20mm	30-040-120
0-2000mm/0-80"	150mm	20mm	20mm	30-040-125

WIRELESS DATA TRANSMISSION DEVICE WITH 8 CHANNEL

- Transmitter and receiver as set,suitable for various digital measuring tools(caliper,height gauge,micrometer,indicator,etc.).
- High reliability, small size.
- Meter valid distance.
- LED or Buzzer indicating.
- Channel.
- Can use in office system directly, language selection available.



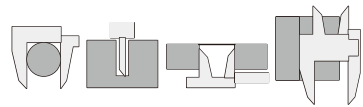
TYPE	ORDER NO.
.....	30-400-205
.....	30-400-210
.....	30-400-215



VERNIER CALIPER



- Satin chrome finish, non-glare.
- With thumb knob.
- Packed in leathery pouch or plastic box.



METRIC SIZE

RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-100mm	31-001-003	31-001-903	31-001-004	31-001-904
0-125mm	31-001-005	31-001-905	31-001-006	31-001-906
0-150mm	31-001-007	31-001-907	31-001-008	31-001-908
0-160mm	31-001-0075	31-001-9075	31-001-0085	31-001-9085
0-200mm	31-001-009	31-001-909	31-001-010	31-001-910
0-300mm	31-001-011	31-001-911	31-001-012	31-001-912

INCH SIZE

RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-4"	32-001-003	32-001-903	32-001-004	32-001-904
0-5"	32-001-005	32-001-905	32-001-006	32-001-906
0-6"	32-001-007	32-001-907	32-001-008	32-001-908
0-8"	32-001-009	32-001-909	32-001-010	32-001-910
0-12"	32-001-011	32-001-911	32-001-012	32-001-912

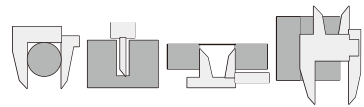
METRIC/INCH DUAL SIZE

RANGE	GRADUATION****0.02mm/0.001"		GRADUATION****0.05mm/1/128"	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-100mm / 4"	30-001-003	30-001-903	30-001-004	30-001-904
0-125mm / 5"	30-001-005	30-001-905	30-001-006	30-001-906
0-150mm / 6"	30-001-007	30-001-907	30-001-008	30-001-908
0-160mm/6.3"	30-001-0075	30-001-9075	30-001-0085	30-001-9085
0-200mm / 8"	30-001-009	30-001-909	30-001-010	30-001-910
0-300mm / 12"	30-001-011	30-001-911	30-001-012	30-001-912

VERNIER CALIPER MONO BLOCK WITH SCREW LOCKING



- Satin chrome finish, non-glare.
- Mono-block vernier with thumb knob.
- Packed in leathery pouch or plastic box.



METRIC SIZE

RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-70mm	31-005-007	31-005-897	31-005-008	31-005-898
0-100mm	31-005-009	31-005-899	31-005-010	31-005-900
0-150mm	31-005-001	31-005-901	31-005-002	31-005-902
0-160mm	31-005-0015	31-005-9015	31-005-0025	31-005-9025
0-200mm	31-005-003	31-005-903	31-005-004	31-005-904
0-300mm	31-005-005	31-005-905	31-005-006	31-005-906

INCH SIZE

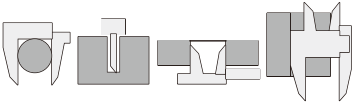
RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-6"	32-005-001	32-005-901	32-005-002	32-005-902
0-8"	32-005-003	32-005-903	32-005-004	32-005-904
0-12"	32-005-005	32-005-905	32-005-006	32-005-906

METRIC/INCH DUAL SIZE

RANGE	GRADUATION****0.02mm/0.001"		GRADUATION****0.05mm/1/128"	
	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL**** ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm / 6"	30-005-001	30-005-901	30-005-002	30-005-902
0-160mm/6.3"	30-005-0015	30-005-9015	30-005-0025	30-005-9025
0-200mm / 8"	30-005-003	30-005-903	30-005-004	30-005-904
0-300mm / 12"	30-005-005	30-005-905	30-005-006	30-005-906

VERNIER CALIPER WITH FINE ADJUSTMENT

- Satin chrome finish, non-glare.
- With fine adjustment.
- Packed in leathery pouch or plastic box.



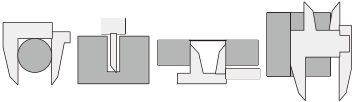
METRIC SIZE					INCH SIZE				
RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm		RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.		CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm	31-002-001	31-002-901	31-002-002	31-002-902	0-6"	32-002-001	32-002-901	32-002-002	32-002-902
0-200mm	31-002-003	31-002-903	31-002-004	31-002-904	0-8"	32-002-003	32-002-903	32-002-004	32-002-904
0-300mm	31-002-005	31-002-905	31-002-006	31-002-906	0-12"	32-002-005	32-002-905	32-002-006	32-002-906

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.02mm/0.001"		GRADUATION 0.05mm/1/128"	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm / 6"	30-002-001	30-002-901	30-002-002	30-002-902
0-200mm / 8"	30-002-003	30-002-903	30-002-004	30-002-904
0-300mm / 12"	30-002-005	30-002-905	30-002-006	30-002-906

VERNIER CALIPER WITH AUTO-LOCKING

- Satin chrome finish, non-glare.
- One hand use with auto clamp lock operate.
- Packed in leathery pouch or plastic box.



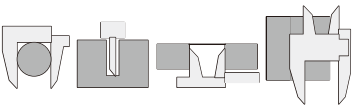
METRIC SIZE					INCH SIZE				
RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm		RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.		CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm	31-003-001	31-003-901	31-003-002	31-003-902	0-6"	32-003-001	32-002-901	32-002-002	32-002-902
0-200mm	31-003-003	31-003-903	31-003-004	31-003-904	0-8"	32-003-003	32-002-903	32-002-004	32-002-904
0-300mm	31-003-005	31-003-905	31-003-006	31-003-906	0-12"	32-003-005	32-002-905	32-002-006	32-002-906

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.02mm/0.001"		GRADUATION 0.05mm/1/128"	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm / 6"	30-002-001	30-002-901	30-002-002	30-002-902
0-200mm / 8"	30-002-003	30-002-903	30-002-004	30-002-904
0-300mm / 12"	30-002-005	30-002-905	30-002-006	30-002-906

VERNIER CALIPER MONO BLOCK WITH AUTO-LOCKING

- Made of hardened stainless steel, satin chrome finish, non-glare.
- Mono-block vernier.
- One hand use with auto clamp lock operation.
- Packed in leathery pouch or plastic box.



BIG LOCKING STYLE



SLIM LOCKING STYLE

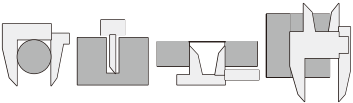
METRIC SIZE					INCH SIZE				
RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm		RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	BIG LOCKING STYLE ORDER NO.	SLIM LOCKING STYLE ORDER NO.	BIG LOCKING STYLE ORDER NO.	SLIM LOCKING STYLE ORDER NO.		BIG LOCKING STYLE ORDER NO.	SLIM LOCKING STYLE ORDER NO.	BIG LOCKING STYLE ORDER NO.	SLIM LOCKING STYLE ORDER NO.
0-150mm	31-004-901	31-004-907	31-004-902	31-003-902	0-6"	32-004-901	32-004-907	32-004-902	32-004-908
0-200mm	31-004-903	31-004-909	31-004-904	31-003-904	0-8"	32-004-903	32-004-909	32-004-904	32-004-910
0-300mm	31-004-905	31-004-911	31-004-906	31-003-906	0-12"	32-004-905	32-004-911	32-004-906	32-004-912

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.02mm/0.001"		GRADUATION 0.05mm/1/128"	
	BIG LOCKING ORDER NO.	SLIM LOCKING ORDER NO.	BIG LOCKING ORDER NO.	SLIM LOCKING ORDER NO.
0-150mm / 6"	30-002-001	30-002-901	30-002-002	30-002-902
0-200mm / 8"	30-002-003	30-002-903	30-002-004	30-002-904
0-300mm / 12"	30-002-005	30-002-905	30-002-006	30-002-906

MONO BLOCK VERNIER CALIPER. NO PARALLEX

- With parallax free reading.
- Mono-block vernier made of hardened stainless steel.
- Satin chrome finish, non-glare.



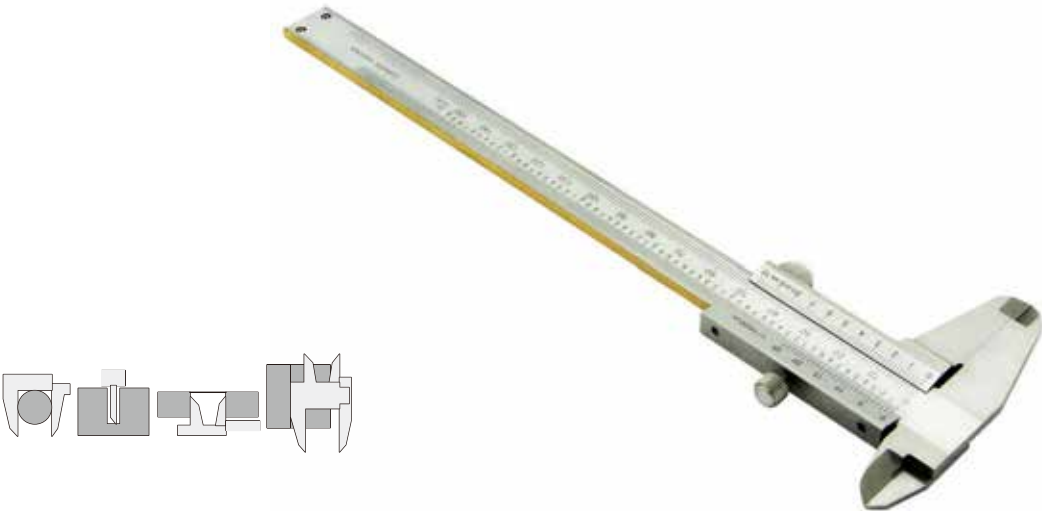
METRIC SIZE				INCH SIZE		
RANGE	GRADUATION 0.02mm	GRADUATION 0.05mm	RANGE	GRADUATION 0.001"	GRADUATION 1/128"	
	STAINLESS STEEL ORDER NO.	STAINLESS STEEL ORDER NO.		STAINLESS STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	
0-150mm	31-006-901	31-006-902	0-6"	32-006-901	32-006-902	
0-200mm	31-006-903	31-006-904	0-8"	32-006-903	32-006-904	

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.02mm/0.001"		GRADUATION 0.05mm/1/128"	
	STAINLESS STEEL ORDER NO.		STAINLESS STEEL ORDER NO.	
0-150mm	30-006-901		30-006-902	
0-200mm	30-006-903		30-006-904	

TITANIUM-PLATED STAINLESS STEEL CALIPER

- The guides are coated with titanium for long time use.
- Made of hardened stainless steel,satin chrome finish, non-glare.



METRIC SIZE

RANGE	GRADUATION 0.02mm	GRADUATION 0.05mm
	STAINLESS STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm	31-007-901	31-007-902
0-200mm	31-007-903	31-007-904
0-300mm	31-007-905	31-007-906

INCH SIZE

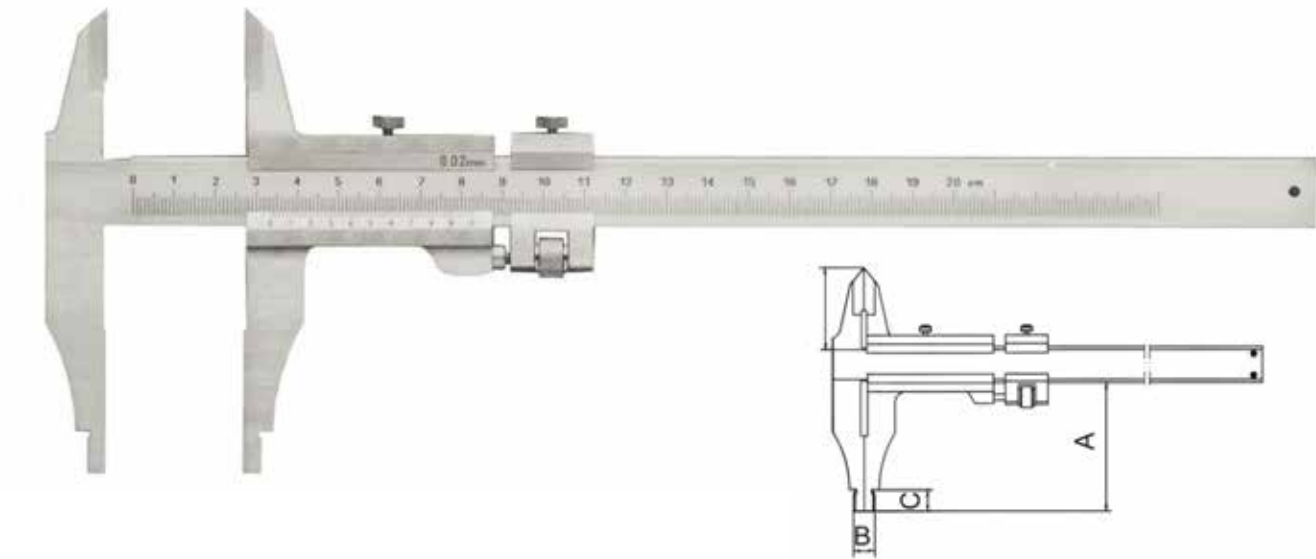
RANGE	GRADUATION 0.001"	GRADUATION 1/128"
	STAINLESS STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-6"	32-007-901	32-007-902
0-8"	32-007-903	32-007-904
0-12"	32-007-905	32-007-906

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.02mm/0.001"	GRADUATION 0.05mm/1/128"
	STAINLESS STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm / 6"	30-007-901	30-007-902
0-200mm / 8"	30-007-903	30-007-904
0-300mm / 12"	30-007-905	30-007-906

MONO BLOCK VERNIER CALIPER WITH UPPER JAW

- For standard workshop purpose.
- Mono-block vernier, stainless steel, hardened.
- Finely ground jaws for ID and OD measurement,carrying upper jaw for OD measurement.
- With fine adjustment.

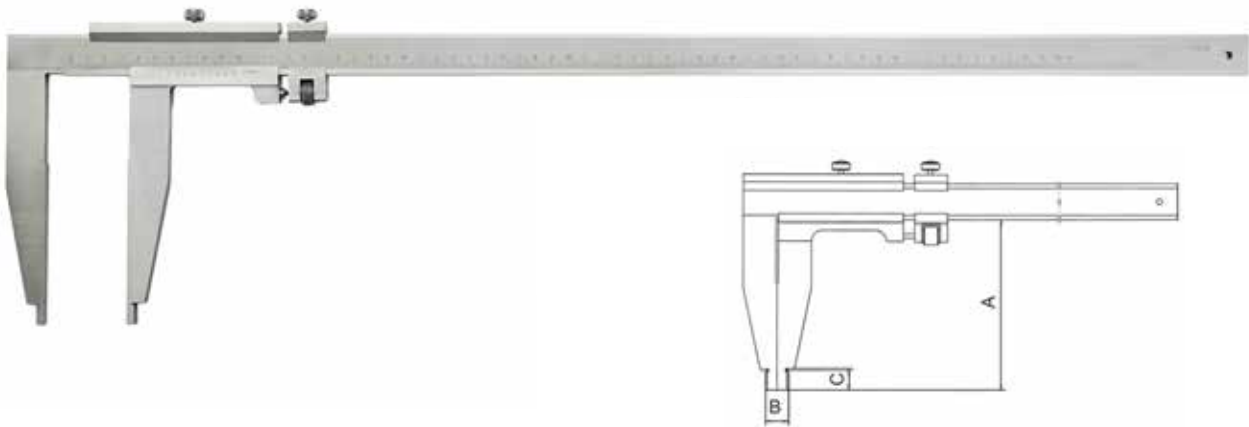


MATERIAL: Stainless steel

RANGE	GRADUATION	JAW LENGTH A	B• MM• •	C• MM• •	BODY WIDTH	ORDER NO.
0-200mm / 8"	0.02mm/0.001"	60	10	10	17	30-009-901
		90				30-009-902
0-300mm/12"		60				30-009-903
		90				30-009-904
0-500mm/20"		100	10	12	25	30-009-905
		125				30-009-906
		150				30-009-907
0-600mm/24"		100				30-009-908
		125				30-009-909
		150				30-009-910
0-800mm/32"		125	20	18	32	30-009-911
		150				30-009-912
		200				30-009-913
0-1000mm/40"		125				30-009-914
		150				30-009-915
		200				30-009-916
0-1500mm/60"		125		20	48	30-009-917
		150				30-009-918
		200				30-009-919
0-2000mm/80"		150				30-009-920
		200				30-009-921
		300				30-009-922

MONO BLOCK HEAVY DUTY CALIPER WITHOUT UPPER JAW.

- For standard workshop purpose.
- Mono-block vernier, stainless steel, hardened.
- Finely ground jaws jaws for ID and OD measurement.
- With fine adjustment.



RANGE	GRADUATION	JAW LENGTH A	B• MM• •	C• MM• •	BODY WIDTH	ORDER NO.
0-200mm / 8"	0.02mm/0.001"	60	10	10	17	30-009-901
		90				30-009-902
0-300mm/12"		60				30-009-903
		90				30-009-904
0-500mm/20"		100		12	25	30-009-905
		125				30-009-906
		150				30-009-907
0-600mm/24"		100				30-009-908
		125				30-009-909
		150				30-009-910
0-800mm/32"		125	20	18	32	30-009-911
		150				30-009-912
		200				30-009-913
0-1000mm/40"		125				30-009-914
		150				30-009-915
		200				30-009-916
						30-009-917
0-1500mm/60"		125		20	48	30-009-918
		150				30-009-919
		200				30-009-920
0-2000mm/80"		150				30-009-921
		200				30-009-922
		300				

HEAVY DUTY VERNIER CALIPER WITH FINE ADJUSTMENT

- For workshop use.
- With fine adjustment thumb screw.
- Satin chrome finish, non-glare.



METRIC SIZE

RANGE	GRADUATION 0.02mm		GRADUATION 0.05mm	
	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.
0-300mm	31-012-001	31-012-901	31-012-002	31-012-902
0-450mm	31-012-003	31-012-903	31-012-004	31-012-904
0-500mm	31-012-005	31-012-905	31-012-006	31-012-906
0-600mm	31-012-007	31-012-907	31-012-008	31-012-908
0-1000mm	31-012-009	31-012-909	31-012-010	31-012-910
0-1500mm	31-012-011	31-012-911	31-012-012	31-012-912
0-2000mm	31-012-013	31-012-913	31-012-014	31-012-914

INCH SIZE

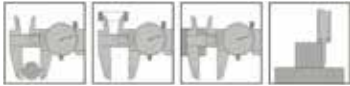
RANGE	GRADUATION 0.001"		GRADUATION 1/128"	
	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.
0-12"	32-012-001	32-012-901	32-012-002	32-012-902
0-18"	32-012-003	32-012-903	32-012-004	32-012-904
0-20"	32-012-005	32-012-905	32-012-006	32-012-906
0-24"	32-012-007	32-012-907	32-012-008	32-012-908
0-40"	32-012-009	32-012-909	32-012-010	32-012-910
0-60"	32-012-011	32-012-911	32-012-012	32-012-912
0-80"	32-012-013	32-012-913	32-012-014	32-012-914

METRIC/INCH DUAL SIZE

RANGE	GRADUATION••••0.02mm/0.001"		GRADUATION••••0.05mm/1/128"	
	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL•••• ORDER NO.	STAINLESS STEEL ORDER NO.
0-300mm / 12"	30-012-001	30-012-901	30-012-002	30-012-902
0-450mm / 18"	30-012-003	30-012-903	30-012-004	30-012-904
0-500mm / 20"	30-012-005	30-012-905	30-012-006	30-012-906
0-600mm / 24"	30-012-007	30-012-907	30-012-008	30-012-908
0-1000mm / 40"	30-012-009	30-012-909	30-012-010	30-012-910
0-1500mm / 60"	30-012-011	30-012-911	30-012-012	30-012-912
0-2000mm / 80"	30-012-013	30-012-913	30-012-014	30-012-914

DIAL CALIPER

- Made of special steel, hardened.
- Finely grounded and lapped measuring surfaces.
- With thumb roll for fine adjustment and fixing screw.



METRIC SIZE

RANGE	GRADUATION	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-100mm	0.02mm	31-019-001	31-019-901
0-150mm	0.02mm	31-019-002	31-019-902
0-200mm	0.02mm	31-019-003	31-019-903
0-300mm	0.02mm	31-019-004	31-019-904
0-150mm	0.01mm	31-019-005	31-019-905
0-200mm	0.01mm	31-019-006	31-019-906
0-300mm	0.01mm	31-019-011	31-019-915

INCH SIZE

RANGE	GRADUATION	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-4"	0.001"	32-019-001	32-019-901
0-6"	0.001"	32-019-002	32-019-902
0-8"	0.001"	32-019-003	32-019-903
0-12"	0.001"	32-019-004	32-019-904

DUST & SHOCK PROOF DIAL CALIPER

- Finely grounded and lapped measuring surfaces.
- Tough shock-proof gearing, dust proof.
- With thumb roll for fine adjustment.



METRIC SIZE

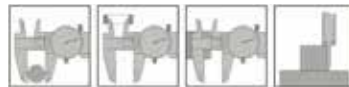
RANGE	GRADUATION	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-100mm	0.02mm	31-019-007	31-019-907
0-150mm	0.02mm	31-019-008	31-019-908
0-200mm	0.02mm	31-019-009	31-019-909
0-300mm	0.02mm	31-019-010	31-019-910

INCH SIZE

RANGE	GRADUATION	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-4"	0.001"	32-019-005	32-019-905
0-6"	0.001"	32-019-006	32-019-906
0-8"	0.001"	32-019-007	32-019-907
0-12"	0.001"	32-019-008	32-019-908

DUST & SHOCK PROOF DIAL CALIPER WITH TITANIUM-PLATED

- Solid stainless steel construction with Titanium-plated for long time use.
- Finely grounded and lapped measuring surfaces.
- Tough shock-proof gearing, dust proof.
- With thumb roll for fine adjustment.



METRIC SIZE

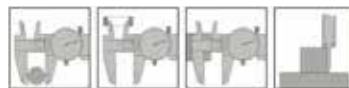
RANGE	GRADUATION	ORDER NO.
0-100mm	0.02mm	31-019-911
0-150mm	0.02mm	31-019-912
0-200mm	0.02mm	31-019-913
0-300mm	0.02mm	31-019-914

INCH SIZE

RANGE	GRADUATION	ORDER NO.
0-4"	0.001"	32-019-911
0-6"	0.001"	32-019-912
0-8"	0.001"	32-019-913
0-12"	0.001"	32-019-914

DOUBLE DIAL INCH/METRIC COMBINED DIAL CALIPER

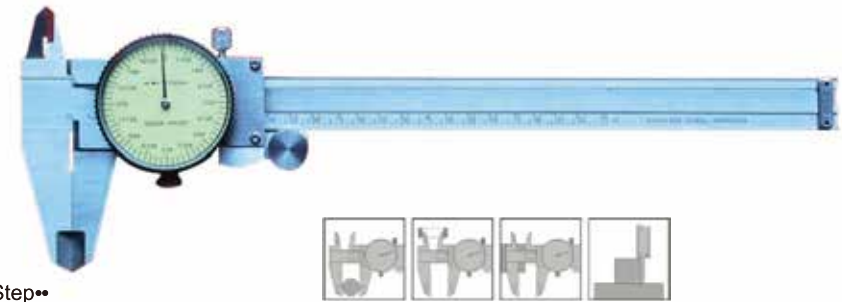
- Made of Stainless steel.
- Support both Metric and British system.
- All measuring faces are treated through hardening and tuning process.
- Adjustable dial, easy for zero setting.



RANGE	GRAD.	RANGE PER REY	ORDER NO.
6"/150mm	0.001"/0.02mm	.100"/2mm	30-021-901
8"/200mm	0.001"/0.02mm	.100"/2mm	30-021-902
12"/300mm	0.001"/0.02mm	.100"/2mm	30-021-903

6" FRACTIONAL DIAL CALIPER

- Stainless Steel Construction
- Graduations: .0005"
- Accuracy: .0005"
- Measurements: SAE Fractions Range per Revolution: easy to measure the dia of the pipe
- Easy-to-read large dial Fractional & Decimal two way reading
- 4-Way Measurement: Inside | Outside | Depth | Step
- Knurled Thumb Roller Positive Lock



ORDER NO. 32-308-902

HEAVY DUTY LONG DIAL CALIPER

- Ideal for industrial use.
- Tough shock-proof gearing.
- Hardened, grounded and lapped measuring surfaces.
- Solid stainless steel construction, satin chrome finish.
- Extra rigid main beam.



METRIC SIZE

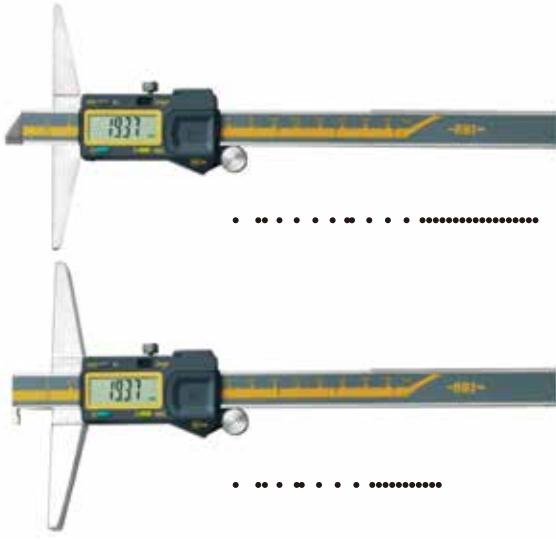
RANGE	GRADUATION VALUE DIAL OF PER REV	ACCURACY	ORDER NO.
0-300mm	0.02/2mm	0-100±0.02mm	31-020-901
0-450mm	0.02/2mm	>100-200±0.03mm	31-020-902
0-500mm	0.02/2mm	>200-300±0.04mm	31-020-903
0-600mm	0.02/2mm	>300-600±0.05mm	31-020-904
0-1000mm	0.02/2mm	>600-1000±0.07mm	31-020-905

INCH SIZE

RANGE	GRADUATION VALUE DIAL OF PER REV	ACCURACY	ORDER NO.
0-12"	0.001"/0.1"	0-6"±0.001"	32-020-901
0-18"	0.001"/0.1"	>6"-12"±0.0015"	32-020-902
0-20"	0.001"/0.1"	>12"-24"±0.002"	32-020-903
0-24"	0.001"/0.1"	>12"-24"±0.002"	32-020-904
0-40"	0.001"/0.1"	>24"-40"±0.003"	32-020-905

DIGITAL DEPTH GAUGE

- Hardened stainless steel body for long life.
- With glass rail for more accuracy.
- Silky smooth movement throughout.
- IP67 protection against water,oil,dust or any other liquid.



RANGE	GRADUATION	WITHOUT HOOK ORDER NO.	WITH HOOK ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-028-001	30-028-002
0-200mm/0-8"	0.01mm/0.0005"	30-028-003	30-028-004
0-300mm/0-12"	0.01mm/0.0005"	30-028-005	30-028-006
0-500mm/0-20"	0.01mm/0.0005"	30-028-007	30-028-008
0-600mm/0-24"	0.01mm/0.0005"	30-028-009	30-028-010
0-1000mm/0-40"	0.01mm/0.0005"	30-028-011	30-028-012
0-1500mm/0-60"	0.01mm/0.0005"	30-028-013	30-028-014
0-2000mm/0-80"	0.01mm/0.0005"	30-028-015	30-028-016

ELECTRONIC DIGITAL DEPTH MICROMETER

- Interchangeable rods provide a wide measuring range
- High accuracy interchangeable rods enable that reading does not have to be reset when changing rods
- LCD display with clear reading
- Measuring pins and surface hardened and ground.



RANGE	GRADUATION	NO.OF RODS	GRADUATION 0.05mm	
			•63MM(2-1/2"")BASE"	•101.5MM(4"")BASE"
0-25mm / 0-1"	0.001mm/0.00005"	1	30-207-001	30-207-002
0-50mm / 0-2"	0.001mm/0.00005"	2	30-207-003	30-207-004
0-100mm / 0-4"	0.001mm/0.00005"	4	30-207-005	30-207-006
0-150mm / 0-6"	0.001mm/0.00005"	6	30-207-007	30-207-008
0-200mm / 0-8"	0.001mm/0.00005"	8	30-207-009	30-207-010
0-300mm / 0-12"	0.001mm/0.00005"	12	30-207-011	30-207-012

DEPTH VERNIER GAUGE

- Mono-block vernier, surface finely ground with fixing screw.
- Stainless steel, hardened.
- Scale matt chrome finish.



METRIC SIZE

RANGE	GRADUATION 0.02mm				GRADUATION 0.05mm			
	WITHOUT HOOK		WITH HOOK		WITHOUT HOOK		WITH HOOK	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm	31-011-001	31-011-901	31-011-009	31-011-909	31-011-002	31-011-902	31-011-010	31-011-910
0-200mm	31-011-003	31-011-903	31-011-011	31-011-911	31-011-004	31-011-904	31-011-012	31-011-912
0-300mm	31-011-005	31-011-905	31-011-013	31-011-913	31-011-006	31-011-906	31-011-014	31-011-914
0-500mm	31-011-007	31-011-907	31-011-015	31-011-915	31-011-008	31-011-908	31-011-016	31-011-916

INCH SIZE

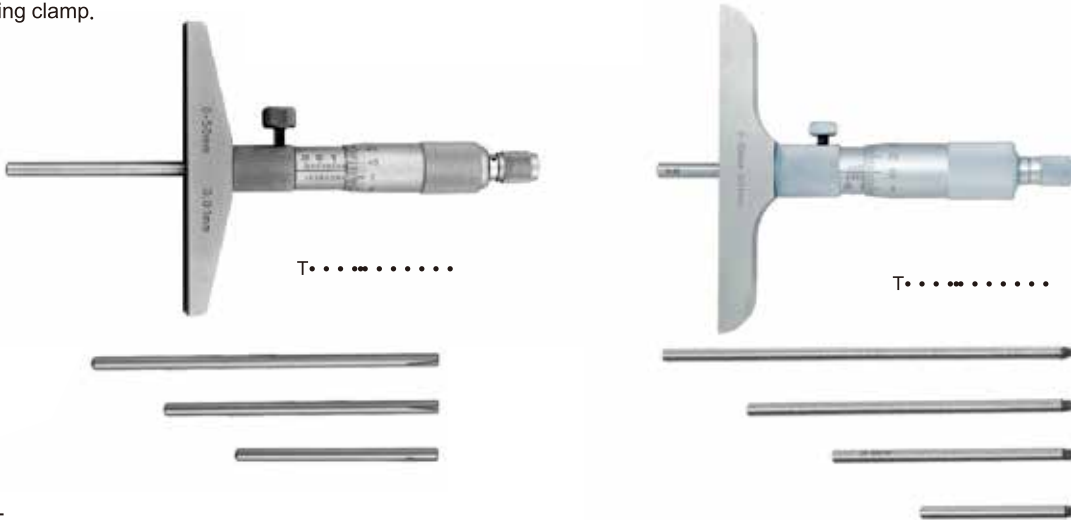
RANGE	GRADUATION 0.001"				GRADUATION 1/128"			
	WITHOUT HOOK		WITH HOOK		WITHOUT HOOK		WITH HOOK	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-6"	32-011-001	32-011-901	32-011-009	32-011-909	32-011-002	32-011-902	32-011-010	32-011-910
0-8"	32-011-003	32-011-903	32-011-011	32-011-911	32-011-004	32-011-904	32-011-012	32-011-912
0-12"	32-011-005	32-011-905	32-011-013	32-011-913	32-011-006	32-011-906	32-011-014	32-011-914
0-20"	32-011-007	32-011-907	32-011-015	32-011-915	32-011-008	32-011-908	32-011-016	32-011-916

METRIC/INCH DUAL SIZE

RANGE	GRADUATION 0.001"				GRADUATION 1/128"			
	WITHOUT HOOK		WITH HOOK		WITHOUT HOOK		WITH HOOK	
	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.	CARBON STEEL ORDER NO.	STAINLESS STEEL ORDER NO.
0-150mm / 6"	30-011-001	30-011-901	30-011-009	30-011-909	30-011-002	30-011-902	30-011-010	30-011-910
0-200mm / 8"	30-011-003	30-011-903	30-011-011	30-011-911	30-011-004	30-011-904	30-011-012	30-011-912
0-300mm / 12"	30-011-005	30-011-905	30-011-013	30-011-913	30-011-006	30-011-906	30-011-014	30-011-914
0-500mm / 20"	30-011-007	30-011-907	30-011-015	30-011-915	30-011-008	30-011-908	30-011-016	30-011-916

DEPTH MICROMETER

- For measuring depth of holes or parts with grooved or elevated surfaces.
- Satin chrome finish.
- Ratchet thimble, threads are hardened ground and lapped for consistent repeatability and accuracy.
- Spherical end standard supplied (flat end available on requested).
- Positive locking clamp.



METRIC SIZE

RANGE	GRADUATION	NO.OF RODS	TYPE A ORDER NO.	TYPE B ORDER NO.
0-25mm	0.01mm	1	31-073-021	31-073-027
0-50mm	0.01mm	2	31-073-022	31-073-028
0-100mm	0.01mm	4	31-073-023	31-073-029
0-150mm	0.01mm	6	31-073-024	31-073-030
0-200mm	0.01mm	8	31-073-025	31-073-031
0-300mm	0.01mm	12	31-073-026	31-073-032

INCH SIZE

RANGE	GRADUATION	NO.OF RODS	TYPE A ORDER NO.	TYPE B ORDER NO.
0-1"	0.001"	1	32-073-021	32-073-027
0-2"	0.001"	2	32-073-022	32-073-028
0-4"	0.001"	4	32-073-023	32-073-029
0-6"	0.001"	6	32-073-024	32-073-030
0-8"	0.001"	8	32-073-025	32-073-031
0-12"	0.001"	12	32-073-026	32-073-032

DIAL DEPTH GAUGE

- Hardened base with fine lapped contact surface.
- Great depths can be measured using extension rods of different lengths.
- Dial indicator securely clamped by collet.

RANGE	GRADUATION	DEPTH	ORDER NO.
0-10mm	0.01mm	up to 100mm	31-208-S01
0-1"	0.001"	up to 6"	32-208-S01



ARC OUTSIDE DIGITAL CALIPER

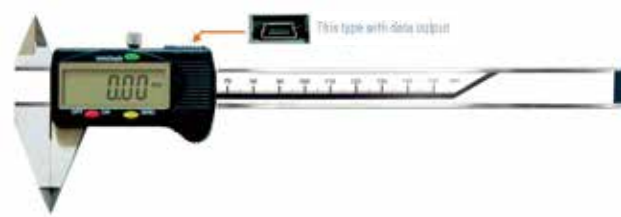
- Use for measuring the radius of a workpiece whose circumferential angle is smaller than 90°
- Zero-setting at any position, convenient for relative and absolute measure conversion



RANGE	GRADUATION	ORDER NO.
3-150mm/0.12-6"	0.01mm/0.0005"	30-183-001
3-200mm/0.12-8"	0.01mm/0.0005"	30-183-002

POINTED JAW DIGITAL CALIPER

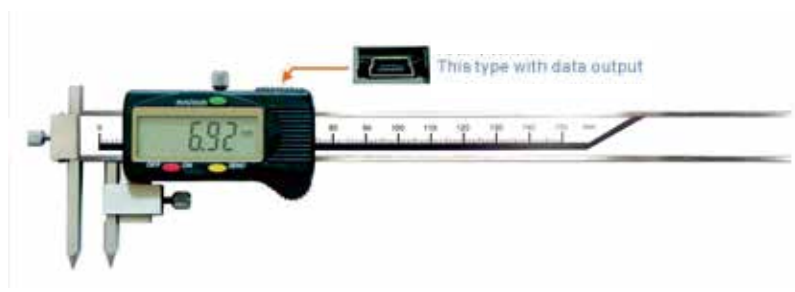
- To measure narrow groove width etc., making it easier to measure some hard to reach place.
- Zero-setting at any position, convenient for relative and absolute measure conversion.



RANGE	GRADUATION	ORDER NO.
0-100mm/0-4"	0.01mm/0.0005"	30-184-001
0-150mm/0-6"	0.01mm/0.0005"	30-184-002
0-200mm/0-8"	0.01mm/0.0005"	30-184-003
0-300mm/0-12"	0.01mm/0.0005"	30-184-004

CENTER DISTANCE DIGITAL CALIPER

- Exchangeable conical tips for measuring center distances between bores, and between plane to bore.
- Zero-setting at any position, convenient for relative and absolute measure conversion.



RANGE	GRADUATION	ORDER NO.
5-150mm/0.2-6"	0.01mm/0.0005"	30-188-001
5-200mm/0.2-8"	0.01mm/0.0005"	30-188-002
5-300mm/0.2-12"	0.01mm/0.0005"	30-188-003

TUBE DIGITAL CALIPERS

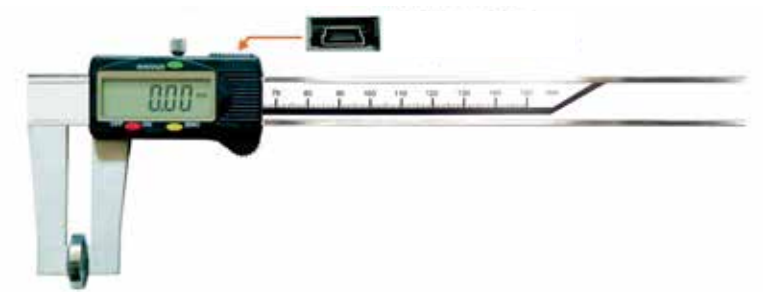
- Used for measuring the tube wall thickness (tube internal diameter is 4mm or more).
- Zero-setting at any position, convenient for relative and absolute measure conversion.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-186-001
0-200mm/0-8"	0.01mm/0.0005"	30-186-002
0-300mm/0-12"	0.01mm/0.0005"	30-186-003

PLATE ANVIL DIGITAL CALIPER

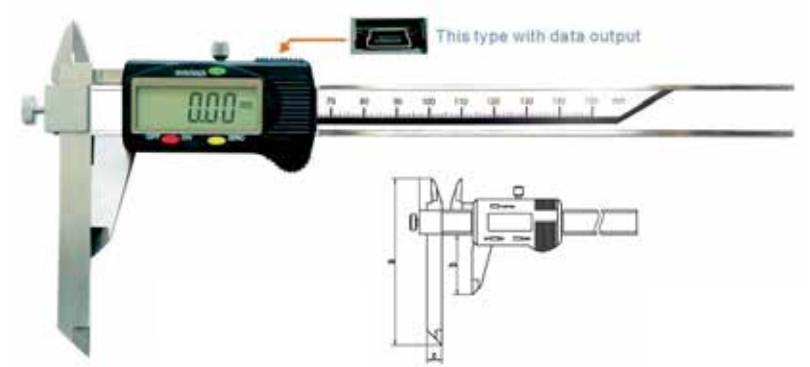
- Used for measuring the thickness of half-soft board (like foam, plastic, sponge, plank).
- Zero-setting at any position, convenient for relative and absolute measure conversion.



RANGE	GRADUATION	ORDER NO.
0-150mm/6"	0.01mm/0.0005"	30-185-004
0-200mm/8"	0.01mm/0.0005"	30-185-005
0-300mm/12"	0.01mm/0.0005"	30-185-006
0-500mm/20"	0.01mm/0.0005"	30-185-007

OFFSET DIGITAL CALIPER

- Main scale jaw can be slid up and down to measure the stepped parts
- Zero-setting at any position, convenient for relative and absolute measure conversion



RANGE	GRADUATION	A	B	C	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	110	40	10	30-187-001
0-200mm/0-8"	0.01mm/0.0005"	120	50	10	30-187-002
0-300mm/0-12"	0.01mm/0.0005"	130	60	10	30-187-003
0-500mm/0-20"	0.01mm/0.0005"	210	100	22	30-187-004

MARKING GAUGE

- Flat type, hardened edges•
- Graduation Mat Finished•
- Made of stainless steel, hardened•
- With large locking screw•



RANGE	GRADUATION	WIDTH	ORDER NO.
0-150mm/0-6"	1/1mm	40mm	31-010-901
0-200mm/0-8"	1/1mm	40mm	31-010-902
0-300mm/0-12"	1/1mm	40mm	31-010-903

UNIVERSAL MARKING VERNIER CALIPER

- Made of stainless steel,hardened•
- With carbide tips•
- Packed in leathery pouch•



RANGE	GRADUATION	ORDER NO•
0-200mm/0-8"	0.1mm/1/128"	30-008-901
0-200mm/0-8"	0.05mm/1/128"	30-008-9015
0-400mm/0-16"	0.1mm/1/128"	30-008-902
0-400mm/0-16"	0.05mm/1/128"	30-008-9025

COMPASS VERNIER CALIPER

- Made of stainless steel, hardened•
- Packed in wooden box•



RANGE	GRADUATION	JAW	ORDER NO.
0-150mm	0.1mm	40mm	31-172-901
0-200mm	0.1mm	40mm	31-172-902
0-250mm	0.1mm	40mm	31-172-903
0-300mm	0.1mm	40mm	31-172-904

•T" SHAPE VERNIER CALIPER

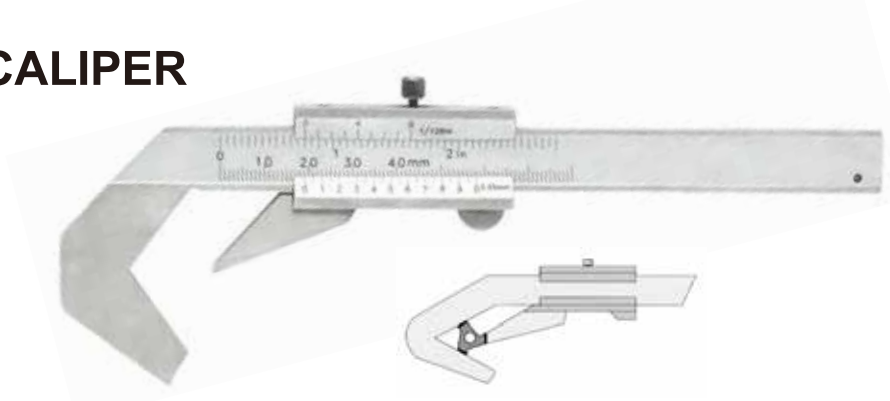
- Made of stainless steel, hardened•
- With locking clamp and fine adjustment•



RANGE	GRADUATION	BRIDGE	ORDER NO.
0-160mm	0.05mm	101mm	31-173-901
0-250mm	0.05mm	141mm	31-173-902
0-300mm	0.05mm	161mm	31-173-903
0-400mm	0.05mm	161mm	31-173-904
0-500mm	0.05mm	161mm	31-173-905

V-ANVIL VERNIER CALIPER

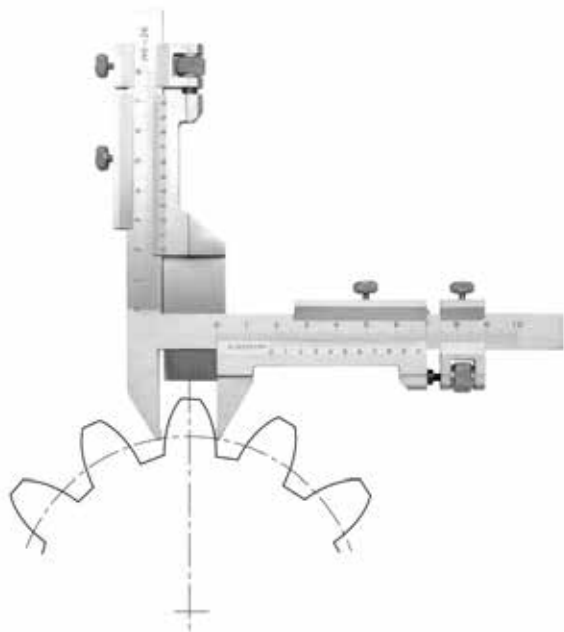
- Measure diameter of cylinder (such as taps, reamers, end mills)with odd number of flutes•
- Made of hardened stainless steel•
- Scale and vernier satin chrome finish, laser engraved scale•



RANGE	GRADUATION	POINTS	ORDER NO.
4-40mm	0.05mm/1/1000"	3 POINTS	31-174-901
1-40mm	0.05mm/1/1000"	5 POINTS	31-174-902

GEAR TOOTH VERNIER CALIPER

- Used for measuring the gear teeth at front and helical gears etc.
- Made of stainless steel, hardened.
- With fine adjustment.



RANGE	GRADUATION	ORDER NO•
M1-16mm	0.02mm±0.02	31-038-001
M1-25mm	0.02mm±0.02	31-038-002
M1-26mm	0.02mm±0.02	31-038-003
M5-50mm	0.02mm±0.02	31-038-004

SPLINE GAUGE

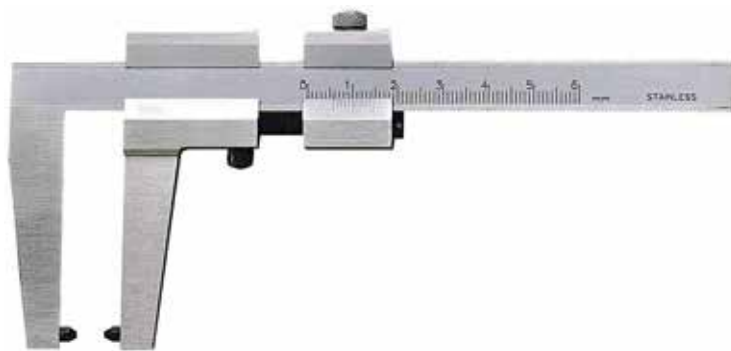
- To measure the depth of keyway.
- Made of hardened stainless steel.



RANGE	GRADUATION	ORDER NO.
5-80mm	0.05mm	31-177-901
6-120mm	0.05mm	31-177-902
7-160mm	0.05mm	31-177-903
8-200mm	0.05mm	31-177-904

POINTED VERNIER CALIPER

- Suitable for measuring the disc brake and measuring in dark place.
- Adjustable slide jaw/locking device for easy taking out the caliper to avoid damaging the workpiece.
- Made of stainless steel, hardened.
- With drag pointer



RANGE	GRADUATION	LENGTH OF JAW	ORDER NO.
0-60mm	0.1mm	55mm	31-010-901
0-60mm	0.1mm	80mm	31-010-902
0-90mm	0.1mm	120mm	31-010-903

DEPTH BASE ATTACHMENT

- For depth measuring
- For all vernier caliper up to 300mm
- Made of stainless steel, hardened



SIZE	ORDER NO.
75x6mm	30-019-004
80x8mm	30-019-005

10PCS CALIPER ACCESSORY KIT

- Designed for vernier, dial and electronic calipers.
- For different applications and configurations on hard-to-reach places.
- Measuring slot, step, grooves etc.

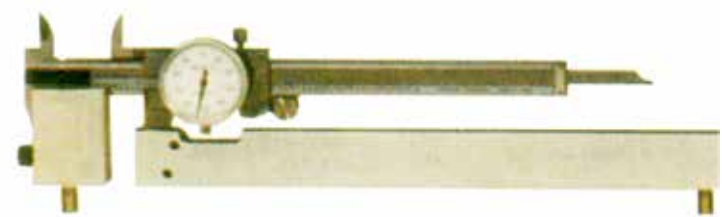
INCLUDING• a pair of clamps,
• ball contact points,
• point contact points,
• flat contact points,
• spline contact points



ORDER NO. 30-026-901

CALIPER EXTENDER ATTACHMENT

- An economical attachment to extend the range of the 6" dial caliper or electronic caliper up to 91"



SPEC.	ORDER NO.	AVAILABLE ACCESSORISE	ORDER NO.
26" Extension kit	30-026-902	½" Projections Pins(pair)	30-026-907
36" Extension kit	30-026-903	1" Projection Pins(pair)	30-026-908
51" Extension kit	30-026-904	1-1/2" Projection Pins(pair)	30-026-909
71" Extension kit	30-026-905	layout kit (2 pcs)	30-026-910
91" Extension kit	30-026-906	Centerline Gage Pins(pair)	30-026-911
		6" Calibration standard	30-026-912

CENTER LINE GAGE SETS

- Designed for dial, vernier and digital calipers, to measure centerline distance.
- The 60° conical probe snugly fits into the holes and takes guesswork away from center distance measurements



DESCRIPTION	DIAMETER	LENGTH	JAW THICKNESS	ORDER NO.
For 4" 6" 8" calipers	0.375"	2.195"	0.155"	30-026-S04
For 10" 12" calipers	0.500"	2.750"	0.188"	30-026-S05

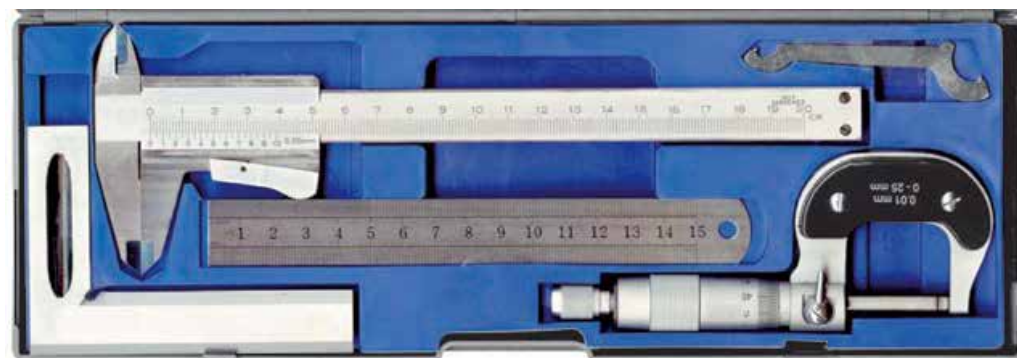
CALIPER CALIBRATION GAUGE BLOCK SET

- Strictly made in acc.DIN861. Grade 1.
- Made of high-grade steel, lapped measuring faces.
- Hardened with slightly bevelled edges.
- One each gauge block: 41.3mm/131.4mm/243.5mm/281.2mm.
- Setting ring dimension: 20/4mm.
- Grade "0 & 00" optional.



ORDER NO. 31-056-S05

4PC GENERAL PURPOSE MEASURING KIT SET



.....

- PC Vernier Caliper..... 1PC Micrometer.....
- *..... *0.25mm x0.01mm.....
- *stainless, hardened *with carbide surfaces*

- PC Square,bevelled edge 1PC Stainless Steel Rule.....
- *100x70mm, chromed *150mm/6", stainless
- *graduation mm/inch

ORDER NO. 31-053-003

INCH SET:

- PC Vernier Caliper..... • PC Micrometer
- *..... *.....
- *stainless, hardened *with carbide surfaces

- PC Square,bevelled edge • PC Stainless Steel Rule
- *....., chromed *....., stainless
- *graduation mm*inch

ORDER NO. 32-053-003

9PC MACHINISTS PRECISION MEASURING TOOL



INCLUDING• •

- 1pc Metric 90°Machinist knife edge square DIN 875 II 100X70mm.
- 1pc Metric Machinist straight edge DIN874 II 100mm.
- 1pc Electronic digital micrometer 0–25mm Graduation: 0.001mm.
- 1pc Stainless steel straight rule 300mm.
- 1pc Electronic digital caliper 0–150mm.
- 1pc Spring type divider 150mm.
- 1pc Machinist straight scribe 150mm.
- 1pc Depth attachment for caliper.
- 1pc Center punch.
- With Exquisite wooden case

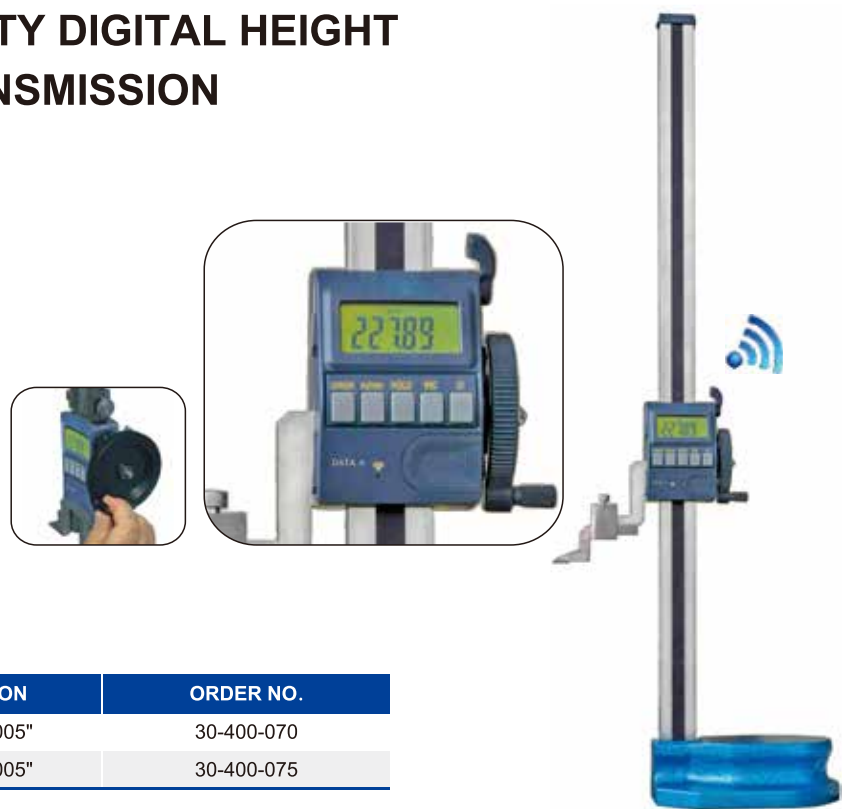
ORDER NO. 31-053-007

HEIGHT GAUGES



ABSOLUTE HEAVY DUTY DIGITAL HEIGHT WITH WIRELESS TRANSMISSION

- Absolute measuring system.
- Heavy duty main beam and base.
- No measuring speed limit.
- Direct inch/metric conversion.
- Large, easy-to-read digital display.
- With built-in Integrated wireless transmission.
- Carbide tipped scriber for sharp, clean lines.
- Class A for electrostatic discharge.
- Zero-setting at any position.
- Built-in external power port.



RANGE	GRADUATION	ORDER NO.
0-300mm/0-12"	0.01mm/0.0005"	30-400-070
0-600mm/0-24"	0.01mm/0.0005"	30-400-075

SINGLE COLUMN DIGITAL HEIGHT GAUGE

- Used for height measurement and scribing.
- Stainless steel guideway.
- Back gear rack driving for better precisim and quick adjustment.
- Zero-setting at any position, convenient for relative and absolute measure conversion.
- Cast iron made sturdy base.
- Carbide-tipped scriber facilitates fine scribing on work pieces.



RANGE	GRADUATION	ORDER NO.
0-300mm/0-12"	0.01mm/0.0005"	30-029-001
0-450mm/0-18"	0.01mm/0.0005"	30-029-003
0-500mm/0-20"	0.01mm/0.0005"	30-029-005
0-600mm/0-24"	0.01mm/0.0005"	30-029-007
0-1000mm/0-40"	0.01mm/0.0005"	30-029-009
0-1500mm/0-60"	0.01mm/0.0005"	30-029-011
0-2000mm/0-80"	0.01mm/0.0005"	30-029-013

ABSOLUTE ELECTRONIC DIGITAL HEIGHT GAUGE

- Absolute function.
- With USB data output, top model.
- Stainless steel guideway, with fine adjustment.
- Large LCD display.
- Carbide tipped scriber.
- Floating zero.
- Base made of stable cast iron.



RANGE	GRADUATION	ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-029-021
0-200mm/0-8"	0.01mm/0.0005"	30-029-022
0-300mm/0-12"	0.01mm/0.0005"	30-029-023
0-500mm/0-12"	0.01mm/0.0005"	30-029-024
0-600mm/0-12"	0.01mm/0.0005"	30-029-025
0-1000mm/0-12"	0.01mm/0.0005"	30-029-026

DOUBLE COLUMN DIGITAL HEIGHT GAUGE

- With precise fine adjustment, function by feeding wheel.
- Quick change positioning scriber.
- Heavy duty for industry use.
- Zero-setting at any position.
- Double stainless beams assure high accuracy.
- Base is hardened, ground and lapped for maximum flatness.
- Carbide tipped scriber for sharp, clean lines.



FEED WHEEL, for moving Measurement Slider upward or downward, switchable to FINE or COARSE movement. Large diameter helps precise movement.

RANGE	GRADUATION	ORDER NO.
0-300mm/0-12"	0.01mm/0.0005"	30-029-002
0-450mm/0-18"	0.01mm/0.0005"	30-029-004
0-500mm/0-20"	0.01mm/0.0005"	30-029-006
0-600mm/0-24"	0.01mm/0.0005"	30-029-008
0-1000mm/0-40"	0.01mm/0.0005"	30-029-010

PLASTIC DIGITAL HEIGHT GAUGE

- Design for woodworker.
- Made of light weight,high strength, wear-resistant plastic.
- With built-in magnetic base.
- Stainless hardened scriber.

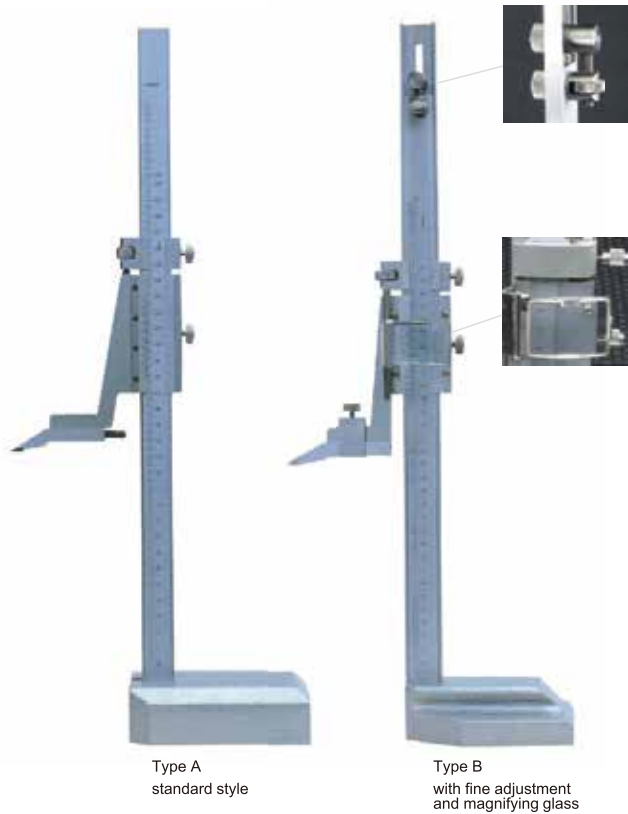


RANGE	GRADUATION	ACCURACY	ORDER NO.
0-150MM/6"	0.01mm/0.0005"	• 0.2mm	30-029-020

VERNIER HEIGHT GAUGE

- Used for height measurements and scribing.
- Carbide tipped scriber facilitates fine scribing on work pieces,exchangeable.
- Reading parts matt chrome finish.

RANGE	GRADUATION	TYPE A ORDER NO.	TYPE B ORDER NO.
0-200mm/0-8"	0.02mm / 0.001"	30-015-001	30-015-902
0-300mm/0-12"	0.02mm / 0.001"	30-015-003	30-015-904
0-450mm/0-18"	0.02mm / 0.001"	30-015-005	30-015-906
0-500mm/0-20"	0.02mm / 0.001"	30-015-007	30-015-908
0-600mm/0-24"	0.02mm / 0.001"	30-015-009	30-015-910
0-1000mm/0-40"	0.02mm / 0.001"	30-015-011	30-015-912
0-1500mm/0-60"	0.02mm / 0.001"	30-015-013	30-015-914

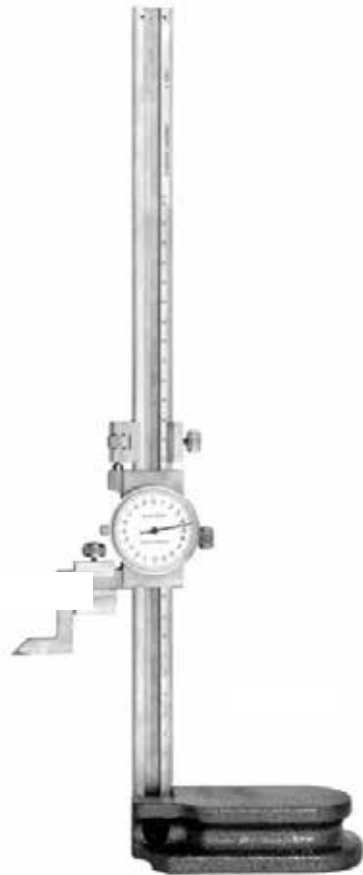


DIAL HEIGHT GAUGE

- Easy to measure height of the workpiece, used for measuring shape position tolerance size and for marking.
- Shockproof dial indicator, adjustable bezel with locking screw.
- Carbide-tipped scriber facilitates fine scribing on workpieces.
- With fine adjustment.

METRIC SIZE		
RANGE	GRADUATION VALUE DIAL OF PER REV	ORDER NO.
0-150mm	0.01/1mm	31-016-001
0-200mm		31-016-002
0-300mm		31-016-003
0-150mm	0.02/2mm	31-016-004
0-200mm		31-016-005
0-300mm		31-016-006

INCH SIZE		
RANGE	GRADUATION VALUE DIAL OF PER REV	ORDER NO.
0-6"	0.001"/0.1"	32-016-001
0-8"		32-016-002
0-12"		32-016-003



DOUBLE BEAM DIAL HEIGHT GAUGE

- Used for measuring shape position tolerance size and for marking.
- With precise fine adjustment, function by feeding wheel, quick change positioning scriber.
- Both digit counter and dial reading.
- Carbide tipped scriber, hardened bease and clamped working face.

METRIC SIZE		
RANGE	GRADUATION	ORDER NO.
0-300mm	0.01mm	31-017-001
0-450mm	0.01mm	31-017-002
0-500mm	0.01mm	31-017-003
0-600mm	0.01mm	31-017-004

INCH SIZE		
RANGE	GRADUATION	ORDER NO.
0-12"	0.001"	32-017-001
0-18"	0.001"	32-017-002
0-20"	0.001"	32-017-003
0-24"	0.001"	32-017-004



MICROMETERS



ABSOLUTE IP65 DIGITAL MICROMETER WITH BUILT-IN WIRELESS TRANSMISSION

- No rotating spindle avoiding scratch workpiece.
- Absolute origin.
- Water protected for heavy-duty work with coolants and lubricants, protection rating IP65 according to IEC 60529, even connected.
- SPC data output.
- Quick measuring with lever.
- With built-in Integrated wireless transmission.
- Maximum speed of displacement : 2.5 m/sec.
- The inside bluetooth module will power off automatic when over 15 minutes no data sending out or no any operation in order to save power.

**NEW
PRODUCT**



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	30-400-020
25-50mm/1-2"	0.001mm/0.00005"	0.003mm/0.00015"	30-400-025
50-75mm/2-3"	0.001mm/0.00005"	0.004mm/0.00015"	30-400-030
75-100mm/3-4"	0.001mm/0.00005"	0.004mm/0.00015"	30-400-035

ELECTRONIC DIGITAL MICROMETER

- Large easy-to-read digital display.
- Carbide tipped anvils.
- Measuring spindle hardened and ground.
- Extremely hardened stable one-piece spindle.
- Ratchet stop.

BEST SELLER



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-25mm/0-1"	0.001mm/0.00005"	0.004mm/0.00016"	30-202-001
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.00016"	30-202-002
50-75mm/2-3"	0.001mm/0.00005"	0.005mm/0.00020"	30-202-003
75-100mm/3-4"	0.001mm/0.00005"	0.005mm/0.00020"	30-202-004
100-125mm/4-5"	0.001mm/0.00005"	0.006mm/0.00024"	30-202-005
125-150mm/5-6"	0.001mm/0.00005"	0.006mm/0.00024"	30-202-006
150-175mm/6-7"	0.001mm/0.00005"	0.007mm/0.00028"	30-202-007
175-200mm/7-8"	0.001mm/0.00005"	0.007mm/0.00028"	30-202-008

WATER RESISTANT ELECTRONIC DIGITAL MICROMETER

- Water protected for heavy-duty work with coolants and lubricants, protection rating IP65 according to IEC 60529, even connected.
- Large LCD display, clear reading.
- Sturdy quality, frame lacquered with insulation plates.
- Carbide tipped anvils.
- Locking wheel for quick and precise fixing.



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-25mm/0-1"	0.001mm/0.00005"	0.004mm/0.00016"	30-202-001
25-50mm/1-2"	0.001mm/0.00005"	0.004mm/0.00016"	30-202-002
50-75mm/2-3"	0.001mm/0.00005"	0.005mm/0.00020"	30-202-003
75-100mm/3-4"	0.001mm/0.00005"	0.005mm/0.00020"	30-202-004
100-125mm/4-5"	0.001mm/0.00005"	0.006mm/0.00024"	30-202-005
125-150mm/5-6"	0.001mm/0.00005"	0.006mm/0.00024"	30-202-006
150-175mm/6-7"	0.001mm/0.00005"	0.007mm/0.00028"	30-202-007
175-200mm/7-8"	0.001mm/0.00005"	0.007mm/0.00028"	30-202-008

4PC ELECTRONIC DIGITAL MICROMETERS SET

- Each set include:
 -
 -
- Absolute measurement system.
- Large easy-to-read digital display.
- Sturdy quality, frame lacquered with insulation plates.



ORDER NO. 30-202-S01

4PC WATER RESISTANT ELECTRONIC DIGITAL MICROMETERS SET

- Each set include:
 -
 -
- Can meet most workshop request.
- Water and coolant proof according to DIN 40050/IEC 60529.
- Sturdy quality, frame lacquered with insulation plates.



ORDER NO. 30-203-S01

ELECTRONIC DIGITAL INTERCHANGEABLE ANVIL OUTSIDE MICROMETER

- Interchangeable anvils for different measuring range.
- High accuracy interchangeable anvils enable that reading does not have to reset after changing anvils.
- Protection level IP54.
- Resolution: 0.001mm/0.00005".



RANGE	GRADUATION	NO. OF ANVILS	ELECTRONIC ORDER NO.
0-50mm / 0-2"	0.004mm / 0.00016"	2	30-201-001
50-100mm / 2-4"	0.005mm / 0.00020"	2	30-201-002
0-150mm / 0-6"	0.006mm / 0.00024"	6	30-201-003
150-300mm / 6-12"	0.009mm / 0.00035"	6	30-201-004
0-100mm / 0-4"	0.005mm / 0.00020"	4	30-201-005
100-200mm / 4-8"	0.007mm / 0.00028"	4	30-201-006
200-300mm / 8-12"	0.009mm / 0.00035"	4	30-201-007
300-400mm / 12-16"	0.011mm / 0.00037"	4	30-201-008
400-500mm / 16-20"	0.013mm / 0.00043"	4	30-201-009
500-600mm / 20-24"	0.015mm / 0.00050"	4	30-201-010
600-700mm / 24-28"	0.016mm / 0.00054"	4	30-201-011
700-800mm / 28-32"	0.018mm / 0.00060"	4	30-201-012
800-900mm / 32-36"	0.02mm / 0.00067"	4	30-201-013
900-1000mm / 36-40"	0.02mm / 0.00074"	4	30-201-014

ELECTRONIC DIGITAL GEAR TOOTH MICROMETERS (DISC TYPE)

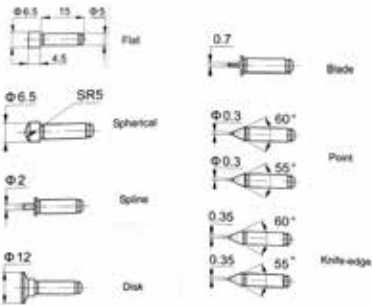
- Disk measuring faces for measuring gears and paper thickness.
- Non-rotating spindle.
- Auto power off.



RANGE	GRADUATION	ORDER NO.
0-25mm / 0-1"	0.001mm / 0.0005"	30-066-001
25-50mm / 1-2"	0.001mm / 0.0005"	30-066-002
50-75mm / 2-3"	0.001mm / 0.0005"	30-066-003
75-100mm / 3-4"	0.001mm / 0.0005"	30-066-004
100-125mm / 4-5"	0.001mm / 0.0005"	30-066-005
125-150mm / 5-6"	0.001mm / 0.0005"	30-066-006
150-175mm / 6-7"	0.001mm / 0.0005"	30-066-007
175-200mm / 7-8"	0.001mm / 0.0005"	30-066-008

UNIVERSAL ELECTRONIC DIGITAL MICROMETER

- With 7 different pairs of anvils(flat,spherical,blade,disk,blade,point 60° , knife-edge 60°.
- Possible to measure a variety of dimensions
- By one tool.
- Direct inch metric conversion.



RANGE	GRADUATION	ORDER NO.
0-25mm/0-1"	0.001mm/0.00005"	30-209-S01
25-50mm/1-2"	0.001mm/0.00005"	30-209-S02
50-75mm/2-3"	0.001mm/0.00005"	30-209-S03
75-100mm/3-4"	0.001mm/0.00005"	30-209-S04
100-125mm/4-5"	0.001mm/0.00005"	30-209-S05
125-150mm/5-6"	0.001mm/0.00005"	30-209-S06
150-175mm/6-7"	0.001mm/0.00005"	30-209-S07
175-200mm/7-8"	0.001mm/0.00005"	30-209-S08

DIGITAL DISK BRAKE MICROMETER

- Great for auto-preparing work.
- For measuring wear dimension of the brake rotors.
- Large easy-to-read digital display.



RANGE	GRADUATION	ORDER NO.
7-32mm/0.3-1.3"	0.001mm/0.00005"	30-202-301
18-43mm/0.7-1.7"	0.001mm/0.00005"	30-202-302

OUTSIDE MICROMETERS

- Spindle thread hardened, ground and ultimate accuracy.
- Carbide tips.
- Ratchet stop.
- With zero setting wrench.

BEST SELLER



METRIC SIZE

RANGE	GRADUATION	TYPE A ORDER NO.	TYPE B ORDER NO.
0-25mm	0.01mm	31-054-001	31-054-017
25-50mm	0.01mm	31-054-002	31-054-018
50-75mm	0.01mm	31-054-003	31-054-019
75-100mm	0.01mm	31-054-004	31-054-020
100-125mm	0.01mm	31-054-005	31-054-021
125-150mm	0.01mm	31-054-006	31-054-022
150-175mm	0.01mm	31-054-007	31-054-023
175-200mm	0.01mm	31-054-008	31-054-024
200-225mm	0.01mm	31-054-009	31-054-025
225-250mm	0.01mm	31-054-010	31-054-026
250-275mm	0.01mm	31-054-011	31-054-027
275-300mm	0.01mm	31-054-012	31-054-028
0-25mm	0.001mm	31-054-013	31-054-029
25-50mm	0.001mm	31-054-014	31-054-030
50-75mm	0.001mm	31-054-015	31-054-031
75-100mm	0.001mm	31-054-016	31-054-032

INCH SIZE

RANGE	GRADUATION	TYPE A ORDER NO.	TYPE B ORDER NO.
0-1"	0.001"	32-054-001	32-054-017
1-2"	0.001"	32-054-002	32-054-018
2-3"	0.001"	32-054-003	32-054-019
3-4"	0.001"	32-054-004	32-054-020
4-5"	0.001"	32-054-005	32-054-021
5-6"	0.001"	32-054-006	32-054-022
6-7"	0.001"	32-054-007	32-054-023
7-8"	0.001"	32-054-008	32-054-024
8-9"	0.001"	32-054-009	32-054-025
9-10"	0.001"	32-054-010	32-054-026
10-11"	0.001"	32-054-011	32-054-027
11-12"	0.001"	32-054-012	32-054-028
0-1"	0.00005"	32-054-013	32-054-029
1-2"	0.00005"	32-054-014	32-054-030
2-3"	0.00005"	32-054-015	32-054-031
3-4"	0.00005"	32-054-016	32-054-032

MINI-MICROMETER

- For mini size use.
- Ratchet stop, carbide tips.

	RANGE	GRADUATION	ORDER NO.
METRIC	MM	WITH	31-055-001
	RANGE	GRADUATION	ORDER NO.
INCH			32-055-001



OUTSIDE MICROMETER SET

- For standard requirements in measuring.
- Different shapes available.
- Carbide surfaces, lapped, spindle hardened and ground.



METRIC SIZE

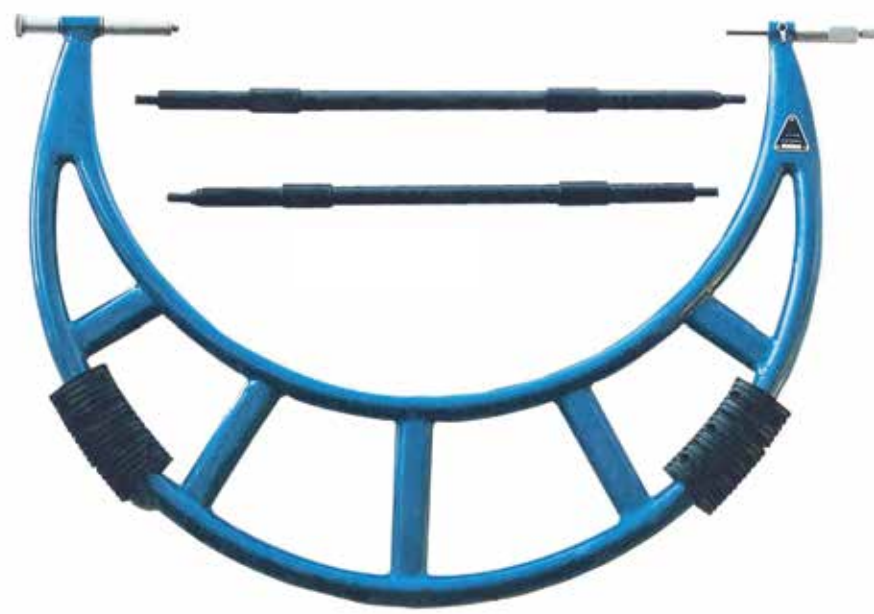
RANGE	PIECES	CLASS OF ACCURACY	GRADUATION	ORDER NO.
0-75mm	3	1	0.01	31-057-S01
0-100mm	4	1	0.01	31-057-S02
0-150mm	6	1	0.01	31-057-S03
150-300mm	6	1	0.01	31-057-S04
0-300mm	12	1	0.01	31-057-S05

INCH SIZE

RANGE	PIECES	CLASS OF ACCURACY	GRADUATION	ORDER NO.
0-3"	3	1	0.001"	32-057-S01
0-4"	4	1	0.001"	32-057-S02
0-6"	6	1	0.001"	32-057-S03
6-12"	6	1	0.001"	32-057-S04
0-12"	12	1	0.001"	32-057-S05

BIG SIZE MICROMETER WITH EXTENSION ANVIL

- Wide measuring range with adjustable anvil.
- Carbide surfaces, lapped, spindle hardened and ground.
- High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Standard collars: 25mm/1" 50mm/2" within 1000mm/40" and over 1000mm/40"
- Pipe combined frame for light weight and high rigidity.



METRIC SIZE

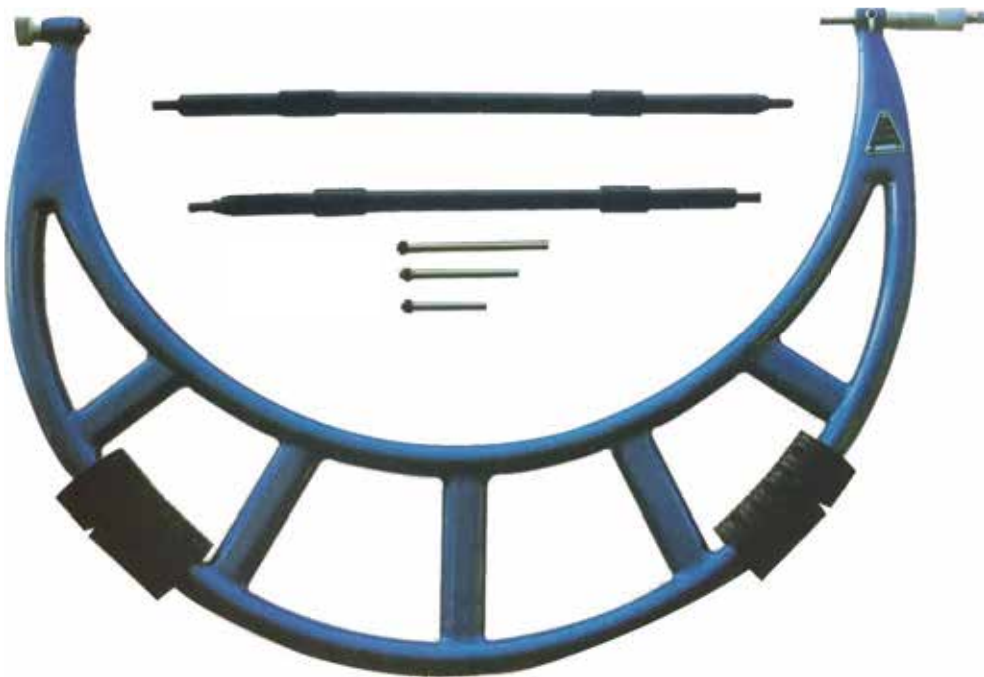
RANGE	GRADUATION	ORDER NO.
300-400mm	0.01mm	31-200-001
400-500mm	0.01mm	31-200-002
500-600mm	0.01mm	31-200-003
600-700mm	0.01mm	31-200-004
700-800mm	0.01mm	31-200-005
800-900mm	0.01mm	31-200-006
900-1000mm	0.01mm	31-200-007
1000-1200mm	0.01mm	31-200-008
1200-1400mm	0.01mm	31-200-009
1400-1600mm	0.01mm	31-200-010
1600-1800mm	0.01mm	31-200-011
1800-2000mm	0.01mm	31-200-012
2000-2200mm	0.01mm	31-200-013
2200-2400mm	0.01mm	31-200-014
2400-2600mm	0.01mm	31-200-015
2600-2800mm	0.01mm	31-200-016
2800-3000mm	0.01mm	31-200-017

INCH SIZE

RANGE	GRADUATION	ORDER NO.
12-16"	.001"	32-200-001
16-20"	.001"	32-200-002
20-24"	.001"	32-200-003
24-28"	.001"	32-200-004
28-32"	.001"	32-200-005
32-36"	.001"	32-200-006
36-40"	.001"	32-200-007
40-48"	.001"	32-200-008
48-56"	.001"	32-200-009
56-64"	.001"	32-200-010
64-72"	.001"	32-200-011
72-80"	.001"	32-200-012
80-88"	.001"	32-200-013
88-96"	.001"	32-200-014
96-104"	.001"	32-200-015
104-112"	.001"	32-200-016
112-120"	.001"	32-200-017

INTERCHANGEABLE ANVIL OUTSIDE MICROMETER

- Wide measuring range with adjustable anvil.
- Carbide surfaces,lapped,spindle hardened and ground.
- High accuracy standard collars enable that reading does not have to be reset when changing collars.
- Steel-plate frame(Within 300mm/12" range).
- Pipe combined frame(Over 300mm/12" range).



METRIC SIZE				INCH SIZE			
RANGE	ACCURACY	NO.OFANVILS	ORDER NO.	RANGE	ACCURACY	NO.OFANVILS	ORDER NO.
0-50mm	0.004mm	2	31-201-001	0-2"	0.00016"	2	32-201-001
50-100mm	0.005mm	2	31-201-002	2-4"	0.00020"	2	32-201-002
0-150mm	0.006mm	6	31-201-003	0-6"	0.00024"	6	32-201-003
150-300mm	0.009mm	6	31-201-004	6-12"	0.00035"	6	32-201-004
0-100mm	0.005mm	4	31-201-005	0-4"	0.00020"	4	32-201-005
100-200mm	0.007mm	4	31-201-006	4-8"	0.00028"	4	32-201-006
200-300mm	0.009mm	4	31-201-007	8-12"	0.00035"	4	32-201-007
300-400mm	0.011mm	4	31-201-008	12-16"	0.00037"	4	32-201-008
400-500mm	0.013mm	4	31-201-009	16-20"	0.00043"	4	32-201-009
500-600mm	0.015mm	4	31-201-010	20-24"	0.00050"	4	32-201-010
600-700mm	0.016mm	4	31-201-011	24-28"	0.00054"	4	32-201-011
700-800mm	0.018mm	4	31-201-012	28-32"	0.00060"	4	32-201-012
800-900mm	0.02mm	4	31-201-013	32-36"	0.00067"	4	32-201-013
900-1000mm	0.02mm	4	31-201-014	36-40"	0.00074"	4	32-201-014

MECHANICAL DIGITAL MICROMETER

- Mechanical digit counter for quick and error-free reading.
- Carbide measuring faces.
- With resolution 0.01mm(metric) and 0.0001" (inch)
- Locking wheel for quick and precise fixing.



METRIC SIZE			INCH SIZE		
RANGE	ACCURACY	ORDER NO.	RANGE	ACCURACY	ORDER NO.
0-25mm	0.004mm	31-063-001	0-1"	0.00016"	32-063-001
25-50mm	0.004mm	31-063-003	1-2"	0.00016"	32-063-003
50-75mm	0.005mm	31-063-005	2-3"	0.00020"	32-063-005
75-100mm	0.005mm	31-063-007	3-4"	0.00020"	32-063-007
100-125mm	0.006mm	31-063-009	4-5"	0.00024"	32-063-009
125-150mm	0.006mm	31-063-011	5-6"	0.00024"	32-063-011
150-175mm	0.007mm	31-063-013	6-7"	0.00028"	32-063-013
175-200mm	0.007mm	31-063-015	7-8"	0.00028"	32-063-015
200-225mm	0.008mm	31-063-017	8-9"	0.00032"	32-063-017
225-250mm	0.008mm	31-063-019	9-10"	0.00032"	32-063-019
250-275mm	0.009mm	31-063-021	10-11"	0.00036"	32-063-021
275-300mm	0.009mm	31-063-023	11-12"	0.00036"	32-063-023

MICROMETER WITH DIAL INDICATOR

- Direct GO/NG judgment for mass-produced parts.
- Anvil retracting range: 8mm.
- Carbide measuring faces.



METRIC SIZE				INCH SIZE			
RANGE	MICROMETER GRADUATION	INDICATOR GRADUATION	ORDER NO.	RANGE	MICROMETER GRADUATION	INDICATOR GRADUATION	ORDER NO.
0-25mm	0.01mm	0.01mm	31-212-001	0-1"	0.0001"	0.0005"	32-212-001
25-50mm	0.01mm	0.01mm	31-212-002	1-2"	0.0001"	0.0005"	32-212-002
50-75mm	0.01mm	0.01mm	31-212-003	2-3"	0.0001"	0.0005"	32-212-003
75-100mm	0.01mm	0.01mm	31-212-004	3-4"	0.0001"	0.0005"	32-212-004
100-125mm	0.01mm	0.01mm	31-212-005	4-5"	0.0001"	0.0005"	32-212-005
125-150mm	0.01mm	0.01mm	31-212-006	5-6"	0.0001"	0.0005"	32-212-006
150-175mm	0.01mm	0.01mm	31-212-007	6-7"	0.0001"	0.0005"	32-212-007

INDICATOR SNAP MICROMETER

- Retractable anvil with an indicator for precision measurement of mass-produced parts.
- Carbide surfaces,lapped,spindle hardened and ground.
- Locking level for quick and precise fixing.



METRIC SIZE

RANGE	GRADUATION OF MICROMETER HEAD	INDICATOR RANGE	INDICATOR ** GRADUATION	ORDER NO.
0-25mm	0.002mm	• 0.04mm	0.001mm	31-076-001
25-50mm	0.002mm	• 0.04mm	0.001mm	31-076-002
50-75mm	0.002mm	• 0.04mm	0.001mm	31-076-003
75-100mm	0.002mm	• 0.04mm	0.001mm	31-076-004

INCH SIZE

RANGE	GRADUATION OF MICROMETER HEAD	INDICATOR RANGE	INDICATOR ** GRADUATION	ORDER NO.
0-1"	0.0001"	• 0.0015"	0.001mm	32-076-001
1-2"	0.0001"	• 0.0015"	0.001mm	32-076-002
2-3"	0.0001"	• 0.0015"	0.001mm	32-076-003
3-4"	0.0001"	• 0.0015"	0.001mm	32-076-004

MICROMETER HEAD

- Drum and sleeve matt chrome finish
- Carbide surfaces,lapped,spindle hardened and ground thread



TYPE A FLAT CARBIDE TIP (SPHERICAL STEEL TIP AVAILABLE)

RANGE	MICROMETER GRADUATION	ACCURACY	ORDER NO.
0-6.5mm	0.01mm	0.04mm	31-058-010
0-13mm	0.01mm	0.04mm	31-058-011
0-25mm	0.01mm	0.04mm	31-058-012
0-50mm	0.01mm	0.04mm	31-058-013
0-0.25"	0.001"	0.0015"	32-058-010
0-0.5"	0.001"	0.0015"	32-058-011
0-1"	0.001"	0.0015"	32-058-012
0-2"	0.001"	0.0015"	32-058-013

TYPE B FLAT CARBIDE TIP (SPHERICAL STEEL TIP AVAILABLE)

RANGE	MICROMETER GRADUATION	ACCURACY	ORDER NO.
0-6.5mm	0.01mm	0.04mm	31-058-014
0-13mm	0.01mm	0.04mm	31-058-015
0-25mm	0.01mm	0.04mm	31-058-016
0-50mm	0.01mm	0.04mm	31-058-017
0-0.25"	0.001"	0.0015"	32-058-014
0-0.5"	0.001"	0.0015"	32-058-015
0-1"	0.001"	0.0015"	32-058-016
0-2"	0.001"	0.0015"	32-058-017

ELECTRONIC DIGITAL MICROMETER HEAD



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-15mm/0-0.5"	0.001mm/0.00005"	0.003mm/0.00015"	30-058-000
0-25mm/0-1"	0.001mm/0.00005"	0.003mm/0.00015"	30-058-001
0-50mm/0-2"	0.001mm/0.00005"	0.003mm/0.00015"	30-058-002

FINE READING MICROMETER HEADS

- The large diameter thimble (49mm) provide high resolution measurement.
- Floating thimble(graduation) can be adjusted with the spindle clamped, allowing zero setting at any spindle position.
- Bi-directional graduation has different fonts for easy reading in both direction.



RANGE	GRADUATION	ACCURACY	TOTAL LENGTH	ORDER NO.
0-25mm	0.002mm	0.003mm	114mm	31-058-008
0-50mm	0.002mm	0.004mm	143mm	31-058-009
0-1"	0.0001"	0.00012"	114mm	32-058-008
0-2"	0.0001"	0.00016"	143mm	32-058-009

GEAR TOOTH MICROMETER(DISC TYPE)

- For measuring the gear teeth,keys,ribs,fins,etc.
- Non-rotating spindle.
- Carbide measuring plates, lapped parallel.
- With ratchet for constant measuring pressure.



METRIC SIZE

RANGE	GRADUATION	ORDER NO.
0-25mm	0.01mm	31-066-001
25-50mm	0.01mm	31-066-002
50-75mm	0.01mm	31-066-003
75-100mm	0.01mm	31-066-004
100-125mm	0.01mm	31-066-005
125-150mm	0.01mm	31-066-006
150-175mm	0.01mm	31-066-007
175-200mm	0.01mm	31-066-008

INCH SIZE

RANGE	GRADUATION	ORDER NO.
0-1"	0.0001"	32-066-001
1-2"	0.0001"	32-066-002
2-3"	0.0001"	32-066-003
3-4"	0.0001"	32-066-004
4-5"	0.0001"	32-066-005
5-6"	0.0001"	32-066-006
6-7"	0.0001"	32-066-007
7-8"	0.0001"	32-066-008

V-ANVIL MICROMETER

- For measuring diameter of cylinder with an odd number flutes: taps,reamers, end mills etc.
- Non-rotating spindle.
- Carbide measuring faces.
- Locking wheel for quick and precise fixing.



METRIC SIZE				INCH SIZE			
RANGE	ACCURACY	REMARKS	ORDER NO.	RANGE	ACCURACY	REMARKS	ORDER NO.
1-15mm	±0.004mm	3 Flutes	31-060-001	0.04-0.6"	± 0.00020"	3 Flutes	32-060-001
5-20mm	±0.004mm	3 Flutes	31-060-002	0.2-0.8"	±0.00020"	3 Flutes	32-060-002
20-35mm	±0.005mm	3 Flutes	31-060-003	0.8-1.4"	±0.00025"	3 Flutes	32-060-003
35-50mm	±0.005mm	3 Flutes	31-060-004	1.4-2.0"	±0.00030"	3 Flutes	32-060-004
50-65mm	±0.006mm	3 Flutes	31-060-005	2-2.6"	±0.00030"	3 Flutes	32-060-005
65-80mm	±0.006mm	3 Flutes	31-060-006	2.6-3.2"	±0.00035"	3 Flutes	32-060-006
80-95mm	±0.007mm	3 Flutes	31-060-007	3.2-3.8"	±0.00035"	3 Flutes	32-060-007
2.3-25mm	±0.004mm	3 Flutes	31-060-008	0.09-1.0"	±0.00020"	3 Flutes	32-060-008
25-50mm	±0.005mm	3 Flutes	31-060-009	1.0-2.0"	±0.00025"	3 Flutes	32-060-009
5-25mm	±0.004mm	5 Flutes	31-060-010	0.2-1.0"	±0.00020"	5 Flutes	32-060-010
25-45mm	±0.005mm	5 Flutes	31-060-011	1.0-1.8"	±0.00025"	5 Flutes	32-060-011
45-65mm	±0.006mm	5 Flutes	31-060-012	1.8-2.6"	±0.00030"	5 Flutes	32-060-012
65-85mm	±0.007mm	5 Flutes	31-060-013	2.6-3.4"	±0.00035"	5 Flutes	32-060-013
85-105mm	±0.008mm	5 Flutes	31-060-014	3.4-4.2"	±0.00040"	5 Flutes	32-060-014
5-25mm	±0.004mm	7 Flutes	31-060-015	0.2-1.0"	±0.00020"	7 Flutes	32-060-015
25-45mm	±0.005mm	7 Flutes	31-060-016	1.0-1.8"	±0.00025"	7 Flutes	32-060-016
45-65mm	±0.006mm	7 Flutes	31-060-017	1.8-2.6"	±0.00030"	7 Flutes	32-060-017
65-85mm	±0.007mm	7 Flutes	31-060-018	2.6-3.4"	±0.00035"	7 Flutes	32-060-018

POINTED OUTSIDE MICROMETER

- Pointed spindle and anvil for measuring drills, grooves and hard-to-reach dimensions.
- With 30°pointed anvil.(15°optional)
- Carbide-tipped measuring faces.



METRIC SIZE			INCH SIZE		
RANGE	GRADUATION	ORDER NO.	RANGE	GRADUATION	ORDER NO.
0-25mm	0.01mm	31-067-001	0-1"	0.0001"	32-067-001
25-50mm	0.01mm	31-067-002	1-2"	0.0001"	32-067-002
50-75mm	0.01mm	31-067-003	2-3"	0.0001"	32-067-003
75-100mm	0.01mm	31-067-004	3-4"	0.0001"	32-067-004

SCREW THREAD MICROMETER

- Measuring pitch diameter of screw threads.
- 60°or 55°V-shaped and knife-edged anvils(interchangeable) are available.
- Dimension of anvil-tail:Φ5x15mm.
- Non-rotating spindle.
- With zero adjusting wrench.



METRIC SIZE			INCH SIZE			
RANGE	GRADUATION	FOR 60°THREAD ORDER NO.	RANGE	GRADUATION	FOR 60°THREAD ORDER NO.	FOR 55°THREAD ORDER NO.
0-25mm	0.01mm	31-074-001	0-1"	0.0001"	32-074-001	32-074-002
25-50mm	0.01mm	31-074-003	1-2"	0.0001"	32-074-003	32-074-004
50-75mm	0.01mm	31-074-005	2-3"	0.0001"	32-074-005	32-074-006
75-100mm	0.01mm	31-074-007	3-4"	0.0001"	32-074-007	32-074-008
100-125mm	0.01mm	31-074-009	4-5"	0.0001"	32-074-009	32-074-010
125-150mm	0.01mm	31-074-011	5-6"	0.0001"	32-074-011	32-074-012
150-175mm	0.01mm	31-074-013	6-7"	0.0001"	32-074-013	32-074-014
175-200mm	0.01mm	31-074-015	7-8"	0.0001"	32-074-015	32-074-016

DEEP THROAT MICROMETER

- Deep throat frame for measuring thickness of sheet metal,paper and sheet plastic,etc.
- Carbide measuring faces.
- Ratchet stop.
- Supplied with standard robs.



METRIC SIZE				INCH SIZE			
RANGE	GRADUATION	THROAT	ORDER NO.	RANGE	GRADUATION	THROAT	ORDER NO.
0-25mm	0.01mm	50mm	31-211-001	0-1"	0.0001"	2"	32-211-001
0-25mm	0.01mm	100mm	31-211-002	0-1"	0.0001"	4"	32-211-002
0-25mm	0.01mm	150mm	31-211-003	0-1"	0.0001"	6"	32-211-003
0-25mm	0.01mm	200mm	31-211-004	0-1"	0.0001"	8"	32-211-004
25-50mm	0.01mm	50mm	31-211-005	1-2"	0.0001"	2"	32-211-005
25-50mm	0.01mm	100mm	31-211-006	1-2"	0.0001"	4"	32-211-006
25-50mm	0.01mm	150mm	31-211-007	1-2"	0.0001"	6"	32-211-007
25-50mm	0.01mm	200mm	31-211-008	1-2"	0.0001"	8"	32-211-008

DISK BRAKE MICROMETER

- Great for auto-preparing work.
- For measuring wear dimension of the brake rotors.
- Carbide measuring face.
- Painted frame.

RANGE	GRADUATION	ORDER NO.
7-32mm	0.01mm	31-202-301
10-45mm	0.01mm	31-202-302
0.3-1.3"	0.0001"	32-202-301
0.3-1.7"	0.0001"	32-202-302



SHEET METAL MICROMETER

- For measuring the sheet metal thickness.
- Big dial acttached to the sleeve for easy and quick reading.
- Carbide measuring faces.

RANGE	GRADUATION	ORDER NO.
0-25mm	0.01mm	31-210-001
0-1"	0.001"	32-210-001



WIRE MICROMETER

- Designed for measuring the diameter of wire or small ball.
- Ratchet stop.
- Carbide measuring faces.



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-10mm	0.01mm	0.004mm	31-059-001
0-0.4"	0.0001"	0.00016"	32-059-001

MULTI FUNCTION MICROMETER

- Measure tube thickness, shoulder-edge distance, rivet head height, etc.
- Measure step height when removing anvils and clamp.
- With interchangeable anvils (flat anvil and rod anvil).
- Ratchet friction thimble, carbide spindle tip.



METRIC SIZE				INCH SIZE			
RANGE	GRADUATION	ACCURACY	ORDER NO.	RANGE	GRADUATION	ACCURACY	ORDER NO.
0-25mm	0.01mm	0.004mm	31-062-001	0-1"	0.0001"	0.00016"	32-062-001
25-50mm	0.01mm	0.004mm	31-062-002	1-2"	0.0001"	0.00016"	32-062-002

ELECTRONIC DIGITAL INSIDE MICROMETER

- For easy and rapid measuring various internal dimensions.
- LCD display with clear reading.
- Zero setting at any position, On/Off switch.
- With ratchet for constant measuring pressure.

RANGE	GRADUATION	ORDER NO.
5-30mm/0.2-1.2" (with setting ring)	0.01mm/0.00005"	30-205-001
25-50mm/1-2" (with setting ring)	0.01mm/0.00005"	30-205-002
50-75mm/2-3"	0.01mm/0.00005"	30-205-003
75-100mm/3-4"	0.01mm/0.00005"	30-205-004
100-125mm/4-5"	0.01mm/0.00005"	30-205-005
125-150mm/5-6"	0.01mm/0.00005"	30-205-006
150-175mm/6-7"	0.01mm/0.00005"	30-205-007
175-200mm/7-8"	0.01mm/0.00005"	30-205-008



INSIDE MICROMETER

- Drum and sleeve are matt chrome finished.
- Carbide measuring tips.
- Clamping screw for quick and precise fixing.
- With ratchet for constant measuring pressure.



METRIC SIZE			INCH SIZE		
RANGE	GRADUATION	ORDER NO.	RANGE	GRADUATION	ORDER NO.
5-30mm(with setting ring)	0.01mm	31-068-001	0.2-1.2"(with setting ring)	0.0001"	32-068-001
25-50mm(with setting ring)	0.01mm	31-068-002	1-2"(with setting ring)	0.0001"	32-068-002
50-75mm	0.01mm	31-068-003	2-3"	0.0001"	32-068-003
75-100mm	0.01mm	31-068-004	3-4"	0.0001"	32-068-004
100-125mm	0.01mm	31-068-005	4-5"	0.0001"	32-068-005
125-150mm	0.01mm	31-068-006	5-6"	0.0001"	32-068-006
150-175mm	0.01mm	31-068-007	6-7"	0.0001"	32-068-007
175-200mm	0.01mm	31-068-008	7-8"	0.0001"	32-068-008

4PC INSIDE MICROMETER SET

- Drum and sleeve are matt chrome finished.
- Carbide measuring tips.

METRIC SET: include 5-30/25-50/50-75/75-100mm, and related setting ring, in plastic case packing. (wooden case optional)

ORDER NO. 31-068-S01

INCH SET: include 0.2-1.2• 1-2• 2-3• 3-4• and related setting ring, in plastic case packing. (wooden case optional)

ORDER NO. 32-068-S01



INSIDE DIAMETER MICROMETER

- The combining of extension rods provides a wide measuring range.
- Supplied with a standard caliper gage for zero setting.
- Diameter of extension rods:Φ15.5mm.
- Carbide measuring faces.



METRIC SIZE

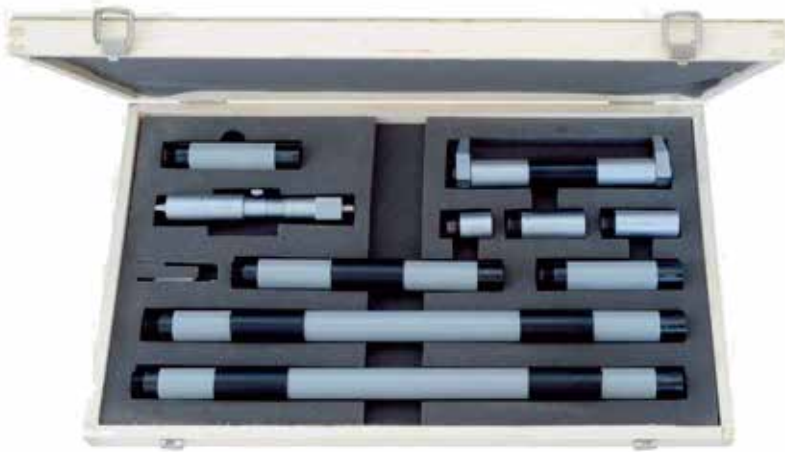
RANGE	GRADUATION	EXTENSION RODS	ORDER NO.
50-63mm	0.01mm	Micrometer head	31-069-001
50-100mm	0.01mm	13,25	31-069-002
50-150mm	0.01mm	13,25,50	31-069-003
50-300mm	0.01mm	13,25,50(2pcs),100	31-069-004
50-500mm	0.01mm	13,25,50(2pcs),100,200	31-069-005
50-1000mm	0.01mm	13,25,50,100(2pcs),150,200,300	31-069-006
50-1500mm	0.01mm	13,25,50,100(2pcs),150,200(2pcs),300(pcs)	31-069-007
50-75mm	0.01mm	13	31-069-008
50-175mm	0.01mm	13,25(2pcs),50	31-069-009
50-250mm	0.01mm	13,25,50,100	31-069-010
50-600mm	0.01mm	13,25,50,100,150,200	31-069-011

INCH SIZE

RANGE	GRADUATION	EXTENSION RODS	ORDER NO.
2-2.5"	0.001"	Micrometer head	32-069-001
2-4"	0.001"	0.5",1"	32-069-002
2-6"	0.001"	0.5",1",2"	32-069-003
2-12"	0.001"	0.5",1",2"(2pcs),4"	32-069-004
2-20"	0.001"	0.5",1",2"(2pcs),4",8"	32-069-005
2-40"	0.001"	0.5",1",2",4"(2pcs),6",8",12"	32-069-006
2-60"	0.001"	0.5",1",2",4"(2pcs),6",8"(2pcs),12"(2pcs)	32-069-007
2-3"	0.001"	0.5"	32-069-008
2-7"	0.001"	0.5",1"(2pcs),2"	32-069-009
2-10"	0.001"	0.5",1",2",4"	32-069-010
2-24"	0.001"	0.5",1",2",4",6",8"	32-069-011

LARGE SIZE INSIDE DIAMETER MICROMETER

- The combining of extension rods provides a wide large measuring range.
- Diameter of extension rods:Φ22mm.
- Carbide measuring faces.



METRIC SIZE

RANGE	GRADUATION	EXTENSION RODS	ORDER NO.
100-125mm	0.01mm	Micrometer head	31-069-012
100-500mm	0.01mm	25,50,100,200	31-069-013
100-900mm	0.01mm	25,50,100,200,400	31-069-014
100-1300mm	0.01mm	25,50,100,200,400(2pcs)	31-069-015
100-1700mm	0.01mm	25,50,100,200,400(3pcs)	31-069-016
100-2100mm	0.01mm	20,50,100,200,400(4pcs)	31-069-017
150-175mm	0.01mm	Micrometer head	31-069-018
150-1400mm	0.01mm	25,50(2pcs),100,200,400(2pcs)	31-069-019
150-2000mm	0.01mm	25,50(2pcs),100,200(2pcs),400(3pcs)	31-069-020
150-2100mm	0.01mm	25,50(2pcs),100(2pcs),200(2pcs),400(3pcs)	31-069-021
1000-1050mm	0.01mm	50,100(2pcs),200,500	31-069-022
1000-2000mm	0.01mm	50,100(2pcs),200,500,1000	31-069-023
1000-3000mm	0.01mm	50,100(2pcs),200,500,1000(2pcs)	31-069-024
1000-4000mm	0.01mm	50,100(2pcs),200,500,1000(3pcs)	31-069-025
1000-5000mm	0.01mm	Micrometer head	31-069-026

INCH SIZE

RANGE	GRADUATION	EXTENSION RODS	ORDER NO.
4-5"	0.001"	Micrometer head	32-069-012
4-20"	0.001"	1",2",4",8"	32-069-013
4-36"	0.001"	1",2",4",8",16"	32-069-014
4-52"	0.001"	1",2",4",8",16"(2pcs)	32-069-015
4-68"	0.001"	1",2",4",8",16"(3pcs)	32-069-016
4-84"	0.001"	1",2",4",8",16"(4pcs)	32-069-017
40-42"	0.001"	Micrometer head	32-069-018
40-80"	0.001"	2",4"(2pcs),8",20"	32-069-019
40-120"	0.001"	2",4"(2pcs),8",20",40"	32-069-020
40-160"	0.001"	2",4"(2pcs),8",20",40"(2pcs)	32-069-021
40-200"	0.001"	2",4"(2pcs),8",20",40"(3pcs)	32-069-022

ELECTRONIC THREE-POINT INTERNAL MICROMETER SET

- Self-centering 3-point for accurate measure of internal diameter.
- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rods.
- Carbide tipped contact points.
- Protection level IP54.
- Criterion: DIN40050/IEC529 RS232 data output.
- Connection cable optional.
- Supplied with setting rings for Zero setting.



METRIC SET

RANGE	SETTING RINGS	EXTENSION RODS	ORDER NO.
6-12mm	• 6,8,10mm	100mm	31-279-S01
12-20mm	Φ16mm	150mm	31-279-S02
20-50mm	Φ25,Φ40mm	150mm	31-279-S03
50-100mm	Φ62,Φ87mm	150mm	31-279-S04

THREE POINT INSIDE MICROMETERS SET

- Measurement can be taken closer to the bottom of the blind bore, and can be taken into a deep hole with an extension rod.
- Chromed finish, self-centering and self-aligning.
- Highly durable because of carbide-tipped contact points.
- Ratchet stop.
- Supplied with setting rings for Zero setting.



METRIC SET

RANGE	GRADUATION	ACCURACY	MEASURING GAUGE NUMBER	FOR THROUGH HOLE ORDER NO.	FOR BLIND HOLE ORDER NO.
3-6.5mm	0.005mm	±0.004mm	3	31-072-S01	31-072-S02
6-12mm	0.005mm	±0.004mm	3	31-072-S03	31-072-S04
11-20mm	0.005mm	±0.004mm	3	31-072-S05	31-072-S06
20-40mm	0.005mm	±0.004mm	4	31-072-S07	31-072-S08
40-100mm	0.005mm	±0.004mm	6	31-072-S09	31-072-S10
100-300mm	0.005mm	±0.004mm	6	31-072-S11	31-072-S12

INCH SET

RANGE	GRADUATION	MEASURING GAUGE NUMBER	FOR THROUGH HOLE ORDER NO.	FOR BLIND HOLE ORDER NO.
0.20-0.48"	0.0002"	3pcs	32-072-S01	32-072-S02
0.44-0.80"	0.0002"	3pcs	32-072-S03	32-072-S04
0.8-1.6"	0.0002"	4pcs	32-072-S05	32-072-S06
1.6-4.0"	0.0002"	6pcs	32-072-S07	32-072-S08

MICROMETER ANVIL ATTACHMENT SET

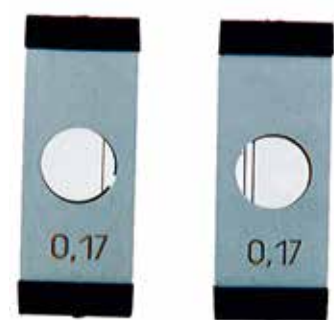
- Turns your micrometer for multi-measuring tool.
- Each set include: spline, knife, super spline, blade, comparator, disc and ball style anvils.
- Fits all micrometers up to 300mm (12")



ORDER NO. 30-056-S01

THREE WIRE INDIVIDUAL HOLDER

- For clamping 3-wire to measure the pitch diameter of screw threads.
- Supporter diameter: 8mm (smaller 6.5mm hole size also available).



3-WIRE DIA. (mm)	ORDER NO. HOLE DIA. 8.0mm	ORDER NO. HOLE DIA. 6.5mm
0.17-0.3	31-213-001	31-213-002
0.3-0.5	31-213-003	31-213-004
0.5-0.8	31-213-005	31-213-006
0.8-1.1	31-213-007	31-213-008
1.2-1.5	31-213-009	31-213-010
1.6-2	31-213-011	31-213-012
2.3-2.6	31-213-013	31-213-014
2.8-3.2	31-213-015	31-213-016
8PC/SET 0.17-3.2	31-213-S01	31-213-S02



MICROMETER STAND.

- With stable base.
- The product is used for holding micrometers for convenient inspection.
- Clamps rotate in axially position.
- Fitting all 0-100mm (0-4")



ALUMINUM STAND
ORDER NO. 30-084-001

CAST IRON STAND
ORDER NO. 30-084-002

MICROMETER CHECKING GAGE SET

- For checking external micrometers.
- Strictly made in accordance with DIN861.
- Made of high-grade steel, lapped measuring faces.
- Mirror-polished.
- Hardend with slightly bevelled edges.
- Packed in aluminium case.



GAGA-BLOCK:
 ORDER NO. 31-056-S04

FUSED QUARTZ OPTICAL FLATS

- Design for inspecting parallelism and flatness of the measuring faces of micrometer.
- Ground and polished on both sides.
- Size: Dia. 30mm x 10mm.
- Flatness: 0.03u.
- Parallelism: 0.1u.



ORDER NO. 31-056-001

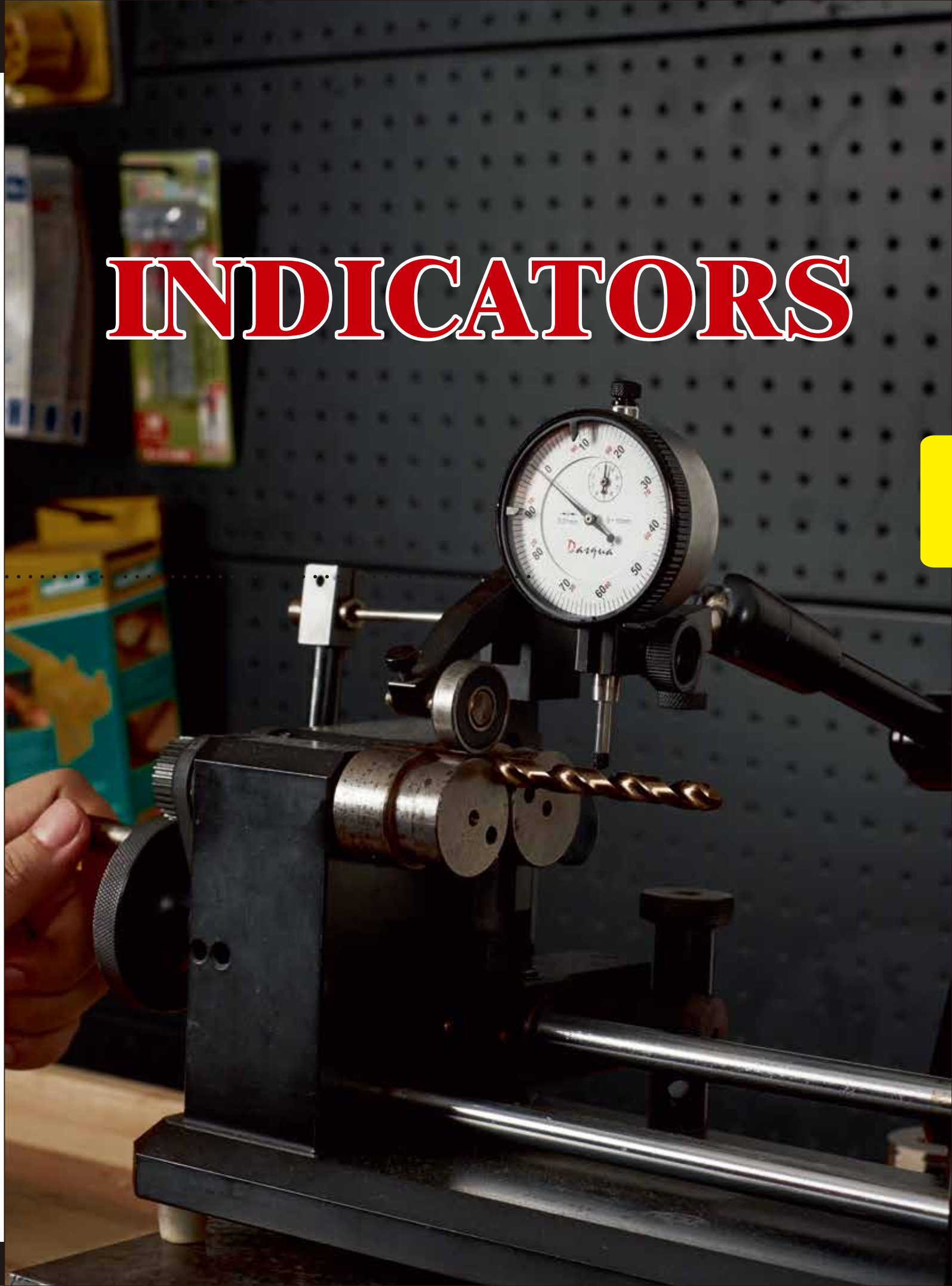
OPTICAL FLATS SET FOR MICROMETER CHECKING

- 4pcs optical flats with 12.00/12.12/12.2/12.37mm.
- (all 30mm dia.) For checking the parallelism depth deviation of.
- Micrometer in four direction (0°, 90°, 180°, and 270°) packed.
- In fitted wooden case.



ORDER NO. 31-056-S03

INDICATORS



ABSOLUTE DIGITAL INDICATOR
(0.01mm/0.0005")
WITH WIRELESS TRANSMISSION

- Absolute function.
- Large easy-to-read digital display.
- Positive, tactile-feel button activation.
- Data out.
- +or- "direction set.
- High precision contact point.
- With built-in Integrated wireless transmission.



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-12.7mm/0-1/2"	0.01mm/0.0005"	0.01mm/0.0005"	30-400-040
0-25.4mm/0-1"	0.01mm/0.0005"	0.01mm/0.0005"	30-400-045
0-50.8mm/0-2"	0.01mm/0.0005"	0.01mm/0.0005"	30-400-050

ABSOLUTE DIGITAL INDICATOR
(0.001mm/0.00005")
WITH WIRELESS TRANSMISSION

- Robust construction.
- Absolute encoder sensor.
- No response speed limit.
- Large easy-to-read digital display.
- Positive, tactile-feel button activation.
- With built-in Integrated Bluetooth transmission.
- +or- "direction set.
- High precision contact point.



RANGE	GRADUATION	ACCURACY	ORDER NO.
0-12.7mm/0-1/2"	0.001mm/0.00005"	0.004mm/0.00016"	30-400-055
0-25.4mm/0-1"	0.001mm/0.00005"	0.004mm/0.00016"	30-400-060
0-50.8mm/0-2"	0.001mm/0.00005"	0.004mm/0.00016"	30-400-065

ABSOLUTE DIGITAL INDICATOR

- The good value model for industry and craft.
- Absolute Function.
- Large easy-to-read digital display.
- Positive, tactile-feel button activation.
- Data out.
- High precision contact point.

BEST SELLER

RANGE	GRADUATION	ACCURACY	ORDER NO.
0-12.7mm ±0.05"	0.01mm ±0.0005"	0.01mm ±0.0005"	30-400-140
0-25.4mm ±0-1.0"	0.01mm ±0.0005"	0.01mm ±0.0005"	30-400-145
0-50.8mm ±0-2.0"	0.01mm ±0.0005"	0.015mm ±0.0005"	30-400-150
0-101.6mm ±0-4.0"	0.01mm ±0.0005"	0.02mm ±0.001"	30-400-155



DIGITAL INDICATOR

- Satin-chrome brass body .
- Large LCD display with 12.5mm character's height.
- Zero setting and metric /inch conversion at any position.
- With date output interface.
- SR-44 battery.



ELECTRONIC DIGITAL INDICATOR

- With large and high-contrast digital display.
- Class A for electrostatic discharge.
- Direct metric and inch conversion.
- Data output.
- High precision contact point.



FLAT BACK

LUG BACK

RANGE	GRADUATION	REPEATABILITY	STANDARD STYLE		NEW STYLE	
			FLAT BACK ORDER NO.	LUG BACK ORDER NO.	FLAT BACK ORDER NO.	LUG BACK ORDER NO.
0-12.7mm/0-0.5"	0.01mm/0.0005"	0.01mm/0.0005"	30-093-001	30-093-002	30-093-011	30-093-012
0-20mm/0-0.8"	0.01mm/0.0005"	0.01mm/0.0005"	30-093-003	30-093-004	30-093-013	30-093-014
0-25.4mm/0-1"	0.01mm/0.0005"	0.01mm/0.0005"	30-093-005	30-093-006	30-093-015	30-093-016
0-30mm/0-1.2"	0.01mm/0.0005"	0.01mm/0.0005"	30-093-007	30-093-008	30-093-017	30-093-018
0-50.8mm/0-2"	0.01mm/0.0005"	0.01mm/0.0005"	30-093-009	30-093-010	30-093-019	30-093-020

METRIC DIAL INDICATORS

- Strictly made in accordance with DIN878.
- Casing diameter: 58mm.
- Shank diameter: 8mm.

BEST SELLER



FLAT BACK

LUG BACK



RANGE	GRADUATION	STYLE	ORDER NO.
0-10mm	0.01mm	Flat back	31-085-001
0-10mm	0.01mm	Lug back	31-085-002

0-10MM DIAL INDICATOR WITH SHOCK PROOF FUNCTION(DIN878)

- Strictly made in accordance with DIN878.
- Shock-proof.
- Jeweled bearing.
- Casing diameter: 58mm.
- Shank diameter: 8mm.



RANGE	GRADUATION	STYLE	ORDER NO.
0-10mm	0.01mm	Flat back	31-085-005
0-10mm	0.01mm	Lug back	31-085-006

0-10MM DIAL INDICATOR WITH WATER/ DUST RESISTANTFUNCTION(DIN878)

- Strictly made in accordance with DIN878.
- Rubber bellows on stem.
- Hardened gears-lasting protection against indicator failure due to shock or wear.
- O-ring seal on safety cap.
- O-ring protection for bezel and rotating dial.
- Sealed back plate.
- Jeweled bearings provide the lowest possible bearing friction.



RANGE	GRADUATION	STYLE	PROTECTION STANDARD	ORDER NO.
0-10mm	0.01mm	Flat back	Ip54	31-085-003
0-10mm	0.01mm	Lug back	IP54	31-085-004
0-10mm	0.01mm	Flat back	IP67	31-085-007
0-10mm	0.01mm	Lug back	Ip67	31-085-008

DIAL INDICATOR WITH 0.001MM RESOLUTION.(DIN878)

- Strictly made in accordance with DIN878.
- Jeweled bearing.
- Casing diameter: 58mm.
- Shank diameter: 8mm.



RANGE	GRADUATION	FLAT STYLE ORDER NO.	LUG STYLE ORDER NO.
0-1mm	0.001mm	31-086-001	31-086-002
0-2mm	0.001mm	31-086-003	31-086-004
0-5mm	0.001mm	31-086-005	31-086-006

INCH SIZE DIAL INDICATOR

- Accuracy meets or exceeds ANSI specifications.
- Stem is made of stainless steel.
- Satin chrome finish.
- Tungsten carbide ball anvil.
- With 2.28" dial diameter.
- Supplied with lug back with 1/4" holes intergral with the dial.



RANGE	GRADUATION	ORDER NO.
0-1"	0.001"	32-087-002
0-1"	0.0005"	32-087-006
0-2"	0.001"	32-087-010
0-0.25"	0.001"	32-087-014
0-0.25"	0.0005"	32-087-018
0-0.5"	0.001"	32-087-022
0-0.5"	0.0005"	32-087-026

LARGE SIZE DIAL INDICATOR (DIN878)

- Strictly made in accordance with DIN878.
- Jeweled bearing.
- Casing diameter: 58mm.
- Shank diameter: 8mm.
- Satin chrome-plated steel case.



RANGE	GRADUATION	FLAT STYLE ORDER NO.	LUG STYLE ORDER NO.
0-30mm	0.01mm	31-215-001	31-215-002
0-50mm	0.01mm	31-215-003	31-215-004
0-100mm	0.01mm	31-215-005	31-215-006

SMALL SIZE DIAL INDICATOR (DIN878)

- Strictly made in accordance with DIN878.
- Jeweled bearing.
- Casing diameter: 40mm.
- Shank diameter: 8mm.



FLAT BACK



LUG BACK



RANGE	GRADUATION	FLAT STYLE ORDER NO.	LUG STYLE ORDER NO.
0-3mm	0.01mm	31-214-001	31-214-002
0-5mm	0.01mm	31-214-003	31-214-004
0-8mm	0.01mm	31-214-005	31-214-006

0-0.05" DIAL INDICATOR WITH 0.0001" RESOLUTION.

- Accuracy meets or exceeds ANSI specifications.
- Stem is made of stainless steel.
- Satin chrome finish.
- Tungsten carbide ball anvil.
- Lug back with 1/4" holes intergral with the dial.
- Resolution:0.0001"



LUG BACK



ORDER NO. 32-216-002

DOUBLE DIAL METRIC & INCH DIAL INDICATOR

- Dial face reads in inch(black) or metric(red)**
- Separated dial for Inch & Metric**
- Rotating bezel with clamp**
- 0-12.7mm/0-0.5" with resolution 0.002/0.0001"



FLAT BACK



LUG BACK



FLAT BACK : ORDER NO.30-217-001

LUG BACK : ORDER NO. 30-217-002

PRECISION DIAL COMPARATOR

- Designed to check parallelism smoothness and through running.
- High accuracy and durability.
- Constant measuring force over the entire range
- accomplished by built-in spring.
- Measuring force: 1N±0.2N.



RANGE	READING	GRADUATION	REPEATABILITY	ORDER NO.
• 0.05mm	50-0-50	0.001mm	0.5µm	31-088-001
±0.002"	2-0-2	0.0005"	0.00001"	32-088-001

22PCS INDICATOR POINTER SET

- Easy access,hi-impact, hinged plastic case
- 22 of the most popular configurations selected for this kit
- Fitting for all dial indicators. turns your indicator into multi function tools



THREAD SIZE

• 1/4-48 ORDER NO. 30-087-001

M2.5 ORDER NO. 30-087-002

MAGNETIC DIAL INDICATOR DIRECT MOUNTING

- Permanent magnet,fitting for all dial indicator.
- Magnetic force: 20kg.



SIZE	ORDER NO.
57mm diameter,with 14mm height	31-115-001
2-1/4" diameter,with 9/16" height	32-115-001

MAGNETIC UNIVERSAL INDICATOR HOLDER

- Powerful magnetic pull.
- Six mounting locations for indicators and accessories.
- Three 1/4" tapped holes.
- One 10-32 tapped hole.
- One 3/8" mounting hole.
- One V-shaped mounting hole.



Base: 4"

ORDER NO. 32-118-001

HALF ROUND STYLE INDICATOR HOLDER

SIZE	ORDER NO.
with 4mm shank	31-234-001
with 1/4" shank	32-234-001



ELECTRONIC DIGITAL DIAL TEST INDICATOR

- Large easy-to-read digital display.
- True metric/inch conversion.
- With on/off, zero setting, metric/inch conversion and tolerance presetting function.
- Measuring range 0-0.5mm/0-0.02"
- With resolution:0.01mm/0.0005"

ORDER NO. 30-220-001



DIAL TEST INDICATOR

- Shock-resistant.
- Precision gear-driven design with smooth movement.
- With steel pointer or ruby pointer.



RANGE	GRADUATION	ACCURACY	RUBY POINTER ORDER NO.	STEEL POINTER ORDER NO.
0-0.8mm	0.01mm	0.008mm	31-089-001	31-089-002
0-0.03"	0.0005"	0.0004"	32-089-001	32-089-002

DIAL TEST INDICATOR (VERTICAL TYPE)

- Shock-resistant.
- Precision gear-driven design with smooth movement.



RANGE	GRADUATION	ACCURACY	STEEL POINTER ORDER NO.
0-0.8mm	0.01mm	0.008mm	31-089-003
0-0.03"	0.0005"	0.0004"	32-089-003

DIAL TEST INDICATOR WITH HIGH 0.002MM/0.0001" RESOLUTION.

- Shock-resistant.
- Jeweled bearing.
- Precision gear-driven design with smooth movement.

RANGE	GRADUATION	ACCURACY	ORDER NO.
0-0.2mm	0.001mm	0.0003mm	31-090-001
0-0.008"	0.0001"	0.00015"	32-090-001



DIAL TEST INDICATORS WITH HIGH 0.002MM/0.0001" RESOLUTION.(VERTICAL TYPE)

- Shock-resistant.
- Jeweled bearing.
- Precision gear-driven design with smooth movement.

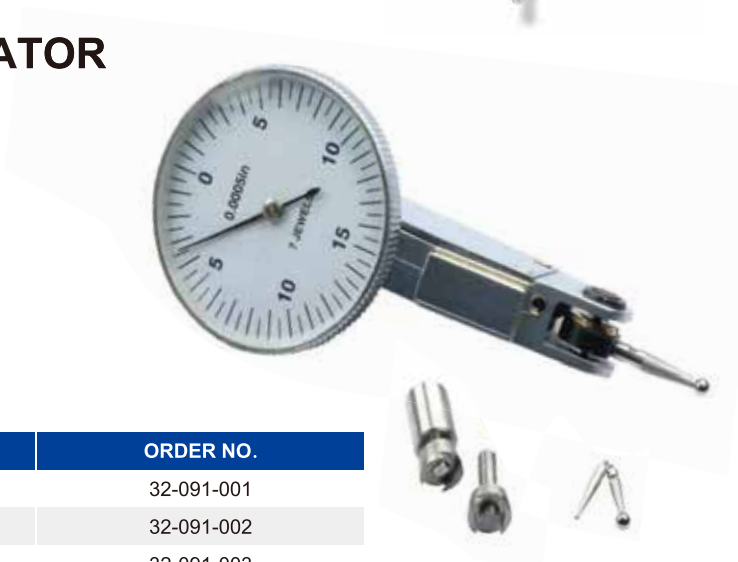
RANGE	GRADUATION	ACCURACY	ORDER NO.
0-0.2mm	0.001mm	0.0003mm	31-090-002
0-0.008"	0.0001"	0.00015"	32-090-002



BI-DIRECTIONAL TEST INDICATOR

- High precision contact.
- Jeweled bearing.
- Auto-reverse.
- Bi-directional constant clockwise rotation.

SIZE	GRADUATION	ORDER NO.
0-0.03"	0.0005"	32-091-001
0-0.02"	0.0005"	32-091-002
0-0.008"	0.0001"	32-091-003
0-0.5mm	0.01mm	31-091-001



TEST INDICATOR WITH TWICE RANGE

- The only one with twice range in industry.
- Easy-to-read tilted dial.
- High precision contact point.
- 210°swivel arc.
- Jeweled bearing.
- Automatic reversal.

NEW
PRODUCT



RANGE	GRADUATION	DIAL	ORDER NO.
0-1.6mm	0.01mm	30/40mm	31-091-004
0-0.06"	0.0005"	1.18"/1.48"	32-091-004

DIAL TEST INDICATOR & HOLDER SET

- Each set include a dial test indicator(metric 0-0.8mm or inch:0-0.03"
- And one piece of indicator holder
- For metric set use 4mm shank, for inch set use 1/ 4" shank) .
- Packed in wooden case packing.



METRIC SET : 31-089-S01
INCH SET : 32-089-S01

LONG REACH DIAL TEST INDICATOR

- Shock-resistant.
- Precision gear-driven design with smooth movement.
- Long probe and carbide contact point.



RANGE	GRADUATION	LENGTH OF MEAS. ROD	ORDER NO.
0-0.8mm	0.01mm	29mm	31-218-001
0-0.03"	0.0005"	7/8"	32-218-001

METRIC & INCH COMBINED DIAL
TEST INDICATOR

- Dial face reads in inch(black) or metric(red).
- Shock-resistant.
- Precision gear-driven design with smooth movement.
- Long probe and carbide contact point.

RANGE	GRADUATION	ORDER NO.
0-0.8mm/0-0.03"	0.01mm/0.0005"	30-219-001



TRUE READING TEST INDICATOR

- The test indicator is designed to provide a true reading when angle between contact point and component surface is 12 degree.
- Any configuration of a angle other than 12 degree need the display value to be corrected.
- For a position of 0 degree,the correct value is displayed value x 1.022".
- Including 2pc dovetail clamps: 5/32" and 3/8" post ,
- Measuring range:0.06",scale interval:0.005"
- Diameter: 1.5",

ORDER NO. 32-272-001



TURE READING TEST INDICATOR AND HOLDER SET

- Including true reading test indicator,universal holder.
- Packed in fitted plastic case.



UNIVERSAL INDICATOR HOLDER FOR DIAL TEST INDICATOR

- Suitable for all dial indicators
- Made of steel ,black burnished

SIZE	ORDER NO.
with 4-1/2" length(from clamping bracket to indicator) and 1-7/8" clamping diameter suitable for all indicators with 5/32"shank or dovetail.	32-117-001
with 113mm length(from clamping bracket to indicator) and 47 clamping diameter.	31-117-001



DIAL TEST INDICATOR WITH MAGNETIC BASE SET

- The only one with twice range in industry.
- Easy-to-read tilted dial.
- High precision contact point.
- 210°swivel arc.
- Jeweled bearing.
- Automatic reversal.



DESCRIPTION	ORDER NO.
• 1 pcs dial test indicator 0-0.8mm 1 pcs mini magnetic base"	31-221-S01
"1 pcs dial test indicator 0-0.03"" 1 pcs mini magnetic base"	32-221-S01

MINI UNIVERSAL FLEXIBLE MAGNETIC BASE HOLDER STAND & DIAL TEST INDICATOR TOOL

- Including A magnetic stand with a switchable permanent magnet for convenient mounting onto flat iron or steel surfaces.
- The arm can be hydraulically locked in any position using the knob on the upright, useful for holding dial indicators or dial test indicators during alignment operations.
- It will be your ideal tool in the measurement of precision workpiece field.
- Magnetic base with on/off switch.
- Overall stem length: 150mm.
- Dovetail groove for test indicator.
- Clamp hole 8mm (optional: hole 3/8").
- Tapped hole: M5 x 0.8mm.
- Magnetic force: 30kg.
- Base(LxWxH): 36x30x35mm.



- Dial test indicator.
- Shock-resistant.
- Jeweled bearing.
- Clamping shank diameter: 8mm.
- Probe length 13.5mm/0.53".
- With two clamping spigot: 4mm and 8mm.
- Measuring range: 0-0.4mm.
- Clamping diameter: 29mm.

ORDER NO. 31-221-S02



POCKET DIGITAL THICKNESS GAUGE

BEST SELLER

- Pocket size, with spindle lifting knob.
- Large LCD display with clear reading, easy to quick measure.
- Thickness: 0-10mm (0.4").
- Resolution: 0.01mm (0.0005").
- Throat depth: 11MM.
- Zero setting and metric /inch conversion at any position.
- Patent design promise constant measuring force on measuring face, hardened and ground stainless steel.
- 6R-44 battery.



ORDER NO. 30-276-001

POCKET DIAL THICKNESS GAUGE

- Design for carrying convenience and ideally suited for quick inspection of paper, leather, wire, plastic, sheet metal and similar material.
- Aluminum main body, stainless steel or ceramic contact point and anvil.

RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.01mm	10mm	31-101-001
0-0.5"	0.001"	0.69"	32-101-001



THICKNESS GAUGE

- With adjustable scale.
- Measure surfaces hardened, ground and lapped.
- Spindle and probe made of stainless steel.

RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.1mm	15mm	31-095-001
0-20mm	0.1mm	15mm	31-095-002
0-0.5"	0.005"	15mm	32-095-001
0-1"	0.005"	15mm	32-095-002



PRECISION THICKNESS GAUGE

- Integrative main body machined from aluminum.
- Ergonomical lifting handle.
- Upward shockproof.
- Steel contact point and anvil.



RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.01mm	26mm	31-222-001
0-0.5"	0.001"	1.02"	32-222-001

PRECISION THICKNESS GAUGE WITH CERAMIC CONTACT ANVIL

- Helpful for measuring on hot materials or electronic parts.
- Sturdy light metal frame, with spindle lifting lever.
- Ceramic measuring surfaces, non conducting.



RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.01mm	26mm	31-223-001
0-0.5"	0.001"	1.18"	32-223-001

DIAL THICKNESS GAUGE WITH DEEP THROAT

- The deep throat helps to measure the hard to reach point.
- Integrative main body machined from aluminum.
- Ergonomical lifting handle.
- Upward shockproof.
- Steel contact point and anvil.



RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.01mm	120mm	31-098-001
0-20mm	0.01mm	120mm	31-098-002
0-0.5"	0.001"	4.72"	32-098-001

DIAL THICKNESS GAUGE FOR PIPE

- The dial pipe gauge specializes in the measurement of the wall thickness of pipe or thickness of bent plates.
- Integrative main body machined from aluminum.
- Ergonomical lifting handle.
- Upward shockproof.



RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-10mm	0.01mm	22mm	31-099-001
0-0.5"	0.001"	0.87"	32-099-001

ELECTRONIC DIGITAL THICKNESS GAUGE

- Usually to measure dimensions of small workpieces.
- Light weight.
- Easy to operate.
- High efficiency.



WITH FLAT ANVIL WITH POINTED ANVIL

RANGE	GRADUATION	MEASURING DEPTH	FLAT ANVIL ORDER NO.	POINTED ANVIL ORDER NO.
0-15mm/0-0.6"	0.01mm/0.0005"	15mm	30-102-001	30-102-002
0-25mm/0-1"	0.01mm/0.0005"	20mm	30-102-003	30-102-004

ELECTRONIC DIGITAL DIAL GEM GAUGES

- For both inside & outside measurement.
- Large LCD display for easy reading.
- Zero setting and metric /inch conversion at any position.



RANGE	GRADUATION	ORDER NO.
0-20mm/0-3/4"	0.01mm/0.0005"	30-225-001

ELECTRONIC DIGITAL THICKNESS MICROMETER

- Manual power on/off.
- Zero setting at any position.
- Metric/Inch system conversion at any position.
- With data output interface.

RANGE	GRADUATION	ORDER NO.
0-12mm/0-0.5"	0.01mm/0.0005"	30-224-001



SNAP CALIPER

- A portable & convenient tool for quick and easy measuring great for all kinds of material from metal, plastics, glass to small wires, fibers and paper.
- Range:0–1–1/4"(31.75mm) with metric/inch conversion function.
- Resolution:0.0005"(0.01mm)
- Spring – loaded travel.
- Hardened stainless steel construction.
- Large LCD display.



ORDER NO.32-329-001

CONSTANT PRESSURE DIGITAL DIALTHICKNESS GAUGES

- With constant pressure of 0.1Mpa.
- Easy to accurately measure the thickness of plastic film, paper and metal sheet.

RANGE	GRADUATION	MEASURING DEPTH	ORDER NO.
0-1mm/0-0.4"	0.01mm/0.0005"	0.1Mpa	30-226-001



INTERNAL DIAL CALIBER

- The inside dial caliper gauge are attachment to the dial indicator and used for measuring inside diameter,ring groove bottom diameter and inside step diameter or holes of the workpieces.
- With steel filament drive.
- With moveable contact arm.
- With tolerance fingers.



METRIC SIZE

RANGE	GRADUATION	ORDER NO.
15-35mm	0.01mm	31-106-001
35-55mm	0.01mm	31-106-002
55-75mm	0.01mm	31-106-003
75-95mm	0.01mm	31-106-004
95-115mm	0.01mm	31-106-005
115-135mm	0.01mm	31-106-006

INCH SIZE

RANGE	GRAD 0.0005" ORDER NO.	GRAD 0.001" ORDER NO.
0.6-1.4"	32-106-001	32-106-005
1.4-2.2"	32-106-002	32-106-006
2.2-3.0"	32-106-003	32-106-007
3.0-3.8"	32-106-004	32-106-008

OUTSIDE DIAL CALIBER

- The outside dial caliper gauges are attachment to the dial indicator and used for meaurement of outside diameters,ring groove bottom diameter, narrow grooves and hard to reach dimensions.
- With rack gear.
- With moveable contact arm.
- With tolerance fingers.



METRIC SIZE

RANGE	GRADUATION	ORDER NO.
0-20mm	0.01mm	31-107-001
20-40mm	0.01mm	31-107-002
40-60mm	0.01mm	31-107-003
60-80mm	0.01mm	31-107-004
80-100mm	0.01mm	31-107-005

INCH SIZE

RANGE	GRAD 0.0005" ORDER NO.	GRAD 0.001" ORDER NO.
0-0.8"	32-107-001	32-107-006
0.8-1.6"	32-107-002	32-107-007
1.6-2.4"	32-107-003	32-107-008
2.4-3.2"	32-107-004	32-107-009
3.2-4"	32-107-005	32-107-010

ELECTRONIC DIGITAL INSIDE CALIBER

- Electronic inside caliper gauge is suited for measuring
• Holes, internal groove and other hard-to-reach inside dimension.
- Dial rotates ±170° for use at versions angles.
- Absolute function.
- Digital display and analog display on LCD automatic switch over.
- Analog display range: ±20 graduation.



RANGE	GRADUATION	ORDER NO.
5-15mm/0.2-0.6"	0.01mm/0.0005"	30-108-001
10-20mm/0.4-0.8"	0.01mm/0.0005"	30-108-002
20-30mm/0.8-1.2"	0.01mm/0.0005"	30-108-003
30-40mm/1.2-1.6"	0.01mm/0.0005"	30-108-004
40-50mm/1.6-2"	0.01mm/0.0005"	30-108-005
5-25mm/0.2-1"	0.01mm/0.0005"	30-108-006
10-30mm/0.4-1.2"	0.01mm/0.0005"	30-108-007
20-40mm/0.8-1.6"	0.01mm/0.0005"	30-108-008
30-50mm/1.2-2"	0.01mm/0.0005"	30-108-009
40-60mm/1.6"-2.4"	0.01mm/0.0005"	30-108-010

ELECTRONIC DIGITAL OUTSIDE CALIBER

- Electronic outside caliper gauge is suited for measuring grooves and
• Other hard-to-reach outside dimension.
- Dial rotates ±170° for use at versions angles.
- Absolute function.
- Digital display and analog display on LCD automatic switch over.
- Analog display range: ±20 graduation.



RANGE	GRADUATION	ORDER NO.
0-10mm/0-0.4"	0.01mm/0.0005"	30-109-001
10-20mm/0.4-0.8"	0.01mm/0.0005"	30-109-002
20-30mm/0.8-1.2"	0.01mm/0.0005"	30-109-003
30-40mm/1.2-1.6"	0.01mm/0.0005"	30-109-004
40-50mm/1.6-2"	0.01mm/0.0005"	30-109-005
0-20mm/0.2-1"	0.01mm/0.0005"	30-109-006
10-30mm/0.4-1.2"	0.01mm/0.0005"	30-109-007
20-40mm/0.8-1.6"	0.01mm/0.0005"	30-109-008
30-50mm/1.2-2"	0.01mm/0.0005"	30-109-009
40-60mm/1.6"-2.4"	0.01mm/0.0005"	30-109-010

DIGITAL CALIPER

- Large digital display.
- Robust housing.
- Class A for electrostatic discharge.
- Hold function.

1. Mini digital outside caliper
Capacity: 0~25mm/1 inch
Graduation: 0.02;
Button: ON/ZERO-mm/in(/F)-HOLD
Auto power off



ORDER NO. 30-109-101

3. Digital inside caliper.
Capacity: 0~150mm/6 inch.
Graduation: 0.05.
Button: ON/ZERO-mm/in(/F)-HOLD.
Auto power off.



ORDER NO. 30-108-101

2. Mini digital outside caliper with flat anvi.
Capacity: 0~25mm/1 inch.
Graduation: 0.02.
Button: ON/ZERO-mm/in(/F)-HOLD.
.....



ORDER NO. 30-109-103

4. Digital outside caliper.
Capacity: 0~150mm/6 inch.
Graduation: 0.05.
Auto power off.



ORDER NO. 30-109-102

PRECISION DIVIDERS

3PC/SET RIVET JOINT TYPE DIVIDERS & CALIPERS SET

- Include 1pcs each of 200mm(8") outside caliper/inside.
- Caliper/divider.



ORDER NO. 30-160-S02

PRECISION DIVIDERS

3PC/SET SPRING TYPE DIVIDERS & CALIPERS SET

- Include 1 pcs each of 150mm(6") outside caliper/inside caliper.
- Divider.



ORDER NO. 30-160-S01

SPRING TYPE OUTSIDE CALIPERS

- Special steel polished.
- With hardened tips.
- Square legs(flat legs available).

SIZE	ORDER NO.	SIZE	ORDER NO.
75mm / 3"	30-160-001	250mm / 10"	30-160-007
100mm / 4"	30-160-002	300mm / 12"	30-160-008
125mm / 5"	30-160-003	400mm / 16"	30-160-009
150mm / 6"	30-160-004	500mm / 20"	30-160-010
175mm / 7"	30-160-005	600mm / 24"	30-160-011
200mm / 8"	30-160-006		



SPRING TYPE INSIDE CALIPERS

- Special steel polished.
- With hardened tips.
- Square legs(flat legs available).

SIZE	ORDER NO.	SIZE	ORDER NO.
75mm / 3"	30-160-012	250mm / 10"	30-160-018
100mm / 4"	30-160-013	300mm / 12"	30-160-019
125mm / 5"	30-160-014	400mm / 16"	30-160-020
150mm / 6"	30-160-015	500mm / 20"	30-160-021
175mm / 7"	30-160-016	600mm / 24"	30-160-022
200mm / 8"	30-160-017		



SPRING TYPE DIVIDERS

- Special steel polished.
- With hardened tips.
- Square legs(flat legs available).

SIZE	ORDER NO.	SIZE	ORDER NO.
75mm / 3"	30-160-023	250mm / 10"	30-160-029
100mm / 4"	30-160-024	300mm / 12"	30-160-030
125mm / 5"	30-160-025	400mm / 16"	30-160-031
150mm / 6"	30-160-026	500mm / 20"	30-160-032
175mm / 7"	30-160-027	600mm / 24"	30-160-033
200mm / 8"	30-160-028		



RIVET JOINT TYPE DIVIDERS

- Special steel polished.
- With hardened tips.
- Square legs.

SIZE	ORDER NO.	SIZE	ORDER NO.
100mm / 4"	30-160-034	300mm / 12"	30-160-040
125mm / 5"	30-160-035	400mm / 16"	30-160-041
150mm / 6"	30-160-036	500mm / 20"	30-160-042
175mm / 7"	30-160-037	600mm / 24"	30-160-043
200mm / 8"	30-160-038	800mm / 32"	30-160-044
250mm / 10"	30-160-039	1000mm / 40"	30-160-045



RIVET JOINT TYPE DIVIDER WITH WING AND PENCIL HOLDER

- Special steel polished.
- With hardened tips.
- Square legs.

SIZE	ORDER NO.	SIZE	ORDER NO.
100mm / 4"	30-160-046	300mm / 12"	30-160-052
125mm / 5"	30-160-047	400mm / 16"	30-160-053
150mm / 6"	30-160-048	500mm / 20"	30-160-054
175mm / 7"	30-160-049	600mm / 24"	30-160-055
200mm / 8"	30-160-050	800mm / 32"	30-160-056
250mm / 10"	30-160-051	1000mm / 40"	30-160-057



ADJUSTABLE SCREW TYPE OUTSIDE CALIPERS

- Special steel polished.
- With adjustable screw.
- With flat legs.

SIZE	ORDER NO.	SIZE	ORDER NO.
100mm / 4"	30-160-070	300mm / 12"	30-160-076
125mm / 5"	30-160-071	400mm / 16"	30-160-077
150mm / 6"	30-160-072	500mm / 20"	30-160-078
175mm / 7"	30-160-073	600mm / 24"	30-160-079
200mm / 8"	30-160-074	800mm / 32"	30-160-080
250mm / 10"	30-160-075	1000mm / 40"	30-160-081



ADJUSTABLE SCREW TYPE INSIDE CALIPERS

- Special steel polished.
- With hardened tips.
- Square legs(flat legs available).

SIZE	ORDER NO.	SIZE	ORDER NO.
100mm / 4"	30-160-058	300mm / 12"	30-160-064
125mm / 5"	30-160-059	400mm / 16"	30-160-065
150mm / 6"	30-160-060	500mm / 20"	30-160-066
175mm / 7"	30-160-061	600mm / 24"	30-160-067
200mm / 8"	30-160-062	800mm / 32"	30-160-068
250mm / 10"	30-160-063	1000mm / 40"	30-160-069



ABSOLUTE ELECTRONIC DIGITAL BORE GAUGE SET

- Absolute function.
- Robust, easy-to-use and suitable for most environments and applications.
- Dual reading inch/metric electronic indicator with large
- Easy-to-read LCD display for fast and simple checking of bores.
- Hardened and ground contact points.
- Thermally insulated for extra stability.
- Preset with recall.



RANGE	MEASURING DEPTH	GRADUATION	ORDER NO.
6-10mm/0.24-0.4"	40mm/1.57"	0.01mm/0.005"	30-307-024
10-18mm/0.4-0.7"	100mm/4"	0.01mm/0.005"	30-307-025
18-35mm/0.7-1.5"	125mm/5"	0.01mm/0.005"	30-307-026
35-50mm/1.4-2.4"	150mm/6"	0.01mm/0.005"	30-307-027
50-100mm/2-4"	150mm/6"	0.01mm/0.005"	30-307-028
50-160mm/2-6"	150mm/6"	0.01mm/0.005"	30-307-029
160-250mm/6-10"	400mm/16"	0.01mm/0.005"	30-307-030
250-450mm/10-16"	400mm/16"	0.01mm/0.005"	30-307-031
35-50mm/1.4-2.4"	500mm/19.7"	0.01mm/0.005"	30-307-032
35-50mm/1.4-2.4"	1000mm/39.4"	0.01mm/0.005"	30-307-033
35-50mm/1.4-2.4"	1500mm/59.1"	0.01mm/0.005"	30-307-034
50-100mm/2-4"	500mm/19.7"	0.01mm/0.005"	30-307-035
50-100mm/2-4"	1000mm/39.4"	0.01mm/0.005"	30-307-036
50-100mm/2-4"	1500mm/59.1"	0.01mm/0.005"	30-307-037
50-160mm/2-6"	500mm/19.7"	0.01mm/0.005"	30-307-038
50-160mm/2-6"	1000mm/39.4"	0.01mm/0.005"	30-307-039
50-160mm/2-6"	1500mm/59.1"	0.01mm/0.005"	30-307-040
160-250mm/6-10"	500mm/19.7"	0.01mm/0.005"	30-307-041
160-250mm/6-10"	1000mm/39.4"	0.01mm/0.005"	30-307-042
160-250mm/6-10"	1500mm/59.1"	0.01mm/0.005"	30-307-043
250-450mm/10-16"	500mm/19.7"	0.01mm/0.005"	30-307-044
250-450mm/10-16"	1000mm/39.4"	0.01mm/0.005"	30-307-045
250-450mm/10-16"	1500mm/59.1"	0.01mm/0.005"	30-307-046

ELECTRONIC DIGITAL BORE GAUGE SET

- Robust, easy-to-use and suitable for most environments and applications.
- Dual reading inch/metric electronic indicator with large
- Easy-to-read LCD display for fast and simple checking of bores.
- Hardened and ground contact points.
- Thermally insulated for extra stability.
- Preset with recall.



RANGE	MEASURING DEPTH	GRADUATION	ORDER NO.
6-10mm/0.24-0.4"	40mm/1.57"	0.01mm/0.005"	30-307-001
10-18mm/0.4-0.7"	100mm/4"	0.01mm/0.005"	30-307-002
18-35mm/0.7-1.5"	125mm/5"	0.01mm/0.005"	30-307-003
35-50mm/1.4-2.4"	150mm/6"	0.01mm/0.005"	30-307-004
50-100mm/2-4"	150mm/6"	0.01mm/0.005"	30-307-005
50-160mm/2-6"	150mm/6"	0.01mm/0.005"	30-307-006
160-250mm/6-10"	400mm/16"	0.01mm/0.005"	30-307-007
250-450mm/10-16"	400mm/16"	0.01mm/0.005"	30-307-008
35-50mm/1.4-2.4"	500mm/19.7"	0.01mm/0.005"	30-307-009
35-50mm/1.4-2.4"	1000mm/39.4"	0.01mm/0.005"	30-307-010
35-50mm/1.4-2.4"	1500mm/59.1"	0.01mm/0.005"	30-307-011
50-100mm/2-4"	500mm/19.7"	0.01mm/0.005"	30-307-012
50-100mm/2-4"	1000mm/39.4"	0.01mm/0.005"	30-307-013
50-100mm/2-4"	1500mm/59.1"	0.01mm/0.005"	30-307-014
50-160mm/2-6"	500mm/19.7"	0.01mm/0.005"	30-307-015
50-160mm/2-6"	1000mm/39.4"	0.01mm/0.005"	30-307-016
50-160mm/2-6"	1500mm/59.1"	0.01mm/0.005"	30-307-017
160-250mm/6-10"	500mm/19.7"	0.01mm/0.005"	30-307-018
160-250mm/6-10"	1000mm/39.4"	0.01mm/0.005"	30-307-019
160-250mm/6-10"	1500mm/59.1"	0.01mm/0.005"	30-307-020
250-450mm/10-16"	500mm/19.7"	0.01mm/0.005"	30-307-021
250-450mm/10-16"	1000mm/39.4"	0.01mm/0.005"	30-307-022
250-450mm/10-16"	1500mm/59.1"	0.01mm/0.005"	30-307-023

METRIC DIAL BORE GAUGE SET

- For quick and close tolerance measurement of holes, taper and roundness.
- Carbide anvils, supply with fixed or inserting anvils.
- Extensions and washers for fine adjustment in sizes to select a specific range.
- Ergonomic design.
- New mini size bore gauge 4–6mm available.



METRIC SIZE

RANGE	DEPTH	GRADUATION	ORDER NO.
4-6mm	40mm	0.01mm	31-104-S00
6-10mm	40mm	0.01mm	31-104-S01
10-18mm	100mm	0.01mm	31-104-S02
18-35mm	125mm	0.01mm	31-104-S03
35-50mm	150mm	0.01mm	31-104-S04
50-100mm	150mm	0.01mm	31-104-S05
50-160mm	150mm	0.01mm	31-104-S06
160-250mm	400mm	0.01mm	31-104-S07
250-450mm	400mm	0.01mm	31-104-S08
35-50mm	500mm	0.01mm	31-104-S09
35-50mm	1000mm	0.01mm	31-104-S10
35-50mm	1500mm	0.01mm	31-104-S11
50-100mm	500mm	0.01mm	31-104-S12
50-100mm	1000mm	0.01mm	31-104-S13
50-100mm	1500mm	0.01mm	31-104-S14
50-160mm	500mm	0.01mm	31-104-S15
50-160mm	1000mm	0.01mm	31-104-S16
50-160mm	1500mm	0.01mm	31-104-S17
160-250mm	500mm	0.01mm	31-104-S18
160-250mm	1000mm	0.01mm	31-104-S19
160-250mm	1500mm	0.01mm	31-104-S20
250-450mm	500mm	0.01mm	31-104-S21
250-450mm	1000mm	0.01mm	31-104-S22
250-450mm	1500mm	0.01mm	31-104-S23

INCH DIAL BORE GAUGE SET

- For quick and close tolerance measurement of holes, taper and roundness.
- Carbide anvils, supply with fixed or inserting anvils.
- Extensions and washers for fine adjustment in sizes to select a specific range.
- Ergonomic design.



INCH SET

RANGE	DEPTH	GRADE 0.001" ORDER NO.	GRADE 0.0005" ORDER NO.	GRADE 0.0001" ORDER NO.
0.24-0.4"	1.57"	32-105-S01	32-105-S24	32-105-S47
0.4-0.7"	4"	32-105-S02	32-105-S25	32-105-S48
0.7-1.5"	5"	32-105-S03	32-105-S26	32-105-S49
1.4-2.4"	6"	32-105-S04	32-105-S27	32-105-S50
2-4"	6"	32-105-S05	32-105-S28	32-105-S51
2-6"	6"	32-105-S06	32-105-S29	32-105-S52
6-10"	16"	32-105-S07	32-105-S30	32-105-S53
10-16"	16"	32-105-S08	32-105-S31	32-105-S54
1.4-2.4"	19.7"	32-105-S09	32-105-S32	32-105-S55
1.4-2.4"	39.4"	32-105-S10	32-105-S33	32-105-S56
1.4-2.4"	59.1"	32-105-S11	32-105-S34	32-105-S57
2-4"	19.7"	32-105-S12	32-105-S35	32-105-S58
2-4"	39.4"	32-105-S13	32-105-S36	32-105-S59
2-4"	59.1"	32-105-S14	32-105-S37	32-105-S60
2-6"	19.7"	32-105-S15	32-105-S38	32-105-S61
2-6"	39.4"	32-105-S16	32-105-S39	32-105-S62
2-6"	59.1"	32-105-S17	32-105-S40	32-105-S63
6-10"	19.7"	32-105-S18	32-105-S41	32-105-S64
6-10"	39.4"	32-105-S19	32-105-S42	32-105-S65
6-10"	59.1"	32-105-S20	32-105-S43	32-105-S66
10-16"	19.7"	32-105-S21	32-105-S44	32-105-S67
10-16"	39.4"	32-105-S22	32-105-S45	32-105-S68
10-16"	59.1"	32-105-S23	32-105-S46	32-105-S69

EXTENDER RANGE DIAL BORE GAUGE SET

- The biggest measuring range set in industry.
- Two popular bore gauge ranges combined in one set.
- Chrome plated handle and carbide anvils.
- Insulated cover.
- Include extension holder and fitted case.

RANGE	GRADUATION	ORDER NO.
1.4-6"	0.0005"	32-104-S24
35-160mm	0.01mm	31-104-S24



PISTOL-GRIP ELECTRONIC THREE POINT BORE GAGE

- Single-hand operation,for both right/left hand use.
- Self-centering 3-point for accurate measurement for blind hole and through hole measurment with digital dial.
- Highly durable because of carbide-tipped contact points.
- Supplied with setting rings for zero adjust.



METRIC SIZE

RANGE	INDIVIDUAL RANGE	SETTING RINGS	EXTENSION RODS	ORDER NO.
6-12mm	6-8,8-10,10-12mm	• 8,Φ10	100mm	31-227-001
12-20mm	12-16,16-20mm	Φ16	150mm	31-227-002
20-50mm	20-25,25-30,30-40,40-50mm	Φ25,Φ40	150mm	31-227-003
50-100mm	50-63,62-75,75-88,87-100mm	Φ62,Φ87	150mm	31-227-004

INCH SIZE

RANGE	INDIVIDUAL RANGE	SETTING RINGS	EXTENSION RODS	ORDER NO.
0.275-0.5"	•0.275-0.35",0.35-0.425",0.425-0.5"	•0.35",0.5"DIA"	4"	32-227-001
0.5-0.8"	"0.5-0.65",0.65-0.8"	0.65"DIA	6"	32-227-002
0.8-2"	"0.8-1",1-1/2",1.2-1.6",1.6-2"	1",1.6"DIA	6"	32-227-003
2-4"	"2-2.5",2.5-3",3-3.5",3.5-4"	"2.5",3.5"DIA"	6"	32-227-004

CRANKSHAFT METER

- Used to special measuring the crankshafts of a diesel engine,etc, with simple structure and used conveniently.
- Graduation:0.01mm.
- Rotatable dial,supplied with extensions,packed in wooden case.

RANGE	ORDER NO.
60-300mm	31-300-S01
60-400mm	31-300-S02
60-450mm	31-300-S03
60-500mm	31-300-S04



SPECIAL GAGE FOR BEARING METAL BORING MACHINE

- Each set include alignment gages,tools setting gages and.
- dial bore gage to make a complete set.



GAGE	DIAMETER OF BORING BARS	MEASURING DEPTH	ORDER NO.
alignment gage	32mm	45-75mm	31-104-B03
tool setting gage	32mm	36-60mm	31-104-B05
dial bore gage	32mm	50-66mm	31-104-B07
3PC/SET CONSIST OF ABOVES FOR 32MM			31-104-B01
.....	45mm	58-150mm	31-104-B04
.....	45mm	50-100mm	31-104-B06
.....	45mm	65-100mm	31-104-B08
3PC/SET CONSIST OF ABOVES FOR 45MM			31-104-B02

MACHINE MEASURING TOOLS

CENTERING INDICATOR

- Use this indicator to quickly center work pieces or fixtures on your bore and milling set-ups.
- Operate at any angle from vertical to horizontal without a change.
- Internal or external centering.
- Sturdy metal housing suitable for workshop.



METRIC SET (IN WOODEN CASE PACKING)
INCLUDES: 0-3mm indicator. Straight feeler: 45/100/154mm, center point feeler: 52.5mm, and curved feeler: 45/100/154mm.

ORDER NO. 31-110-001

INCH SET (IN WOODEN CASE PACKING).
INCLUDES: 0-0.12" dial indicator, restrain rod center point feeler (2.07" straight feeler (1.77" 1/8" 1/16" 1/32" curved feeler (1.81" 1/8" 1/16" 1/32" 1/64" 1/128" 1/256" 1/512" 1/1024" 1/2048" 1/4096" 1/8192" 1/16384" 1/32768" 1/65536" 1/131072" 1/262144" 1/524288" 1/1048576" 1/2097152" 1/4194304" 1/8388608" 1/16777216" 1/33554432" 1/67108864" 1/134217728" 1/268435456" 1/536870912" 1/1073741824" 1/2147483648" 1/4294967296" 1/8589934592" 1/17179869184" 1/34359738368" 1/68719476736" 1/137438953472" 1/274877906944" 1/549755813888" 1/1099511627776" 1/2199023255552" 1/4398046511104" 1/8796093022208" 1/17592186044416" 1/35184372088832" 1/70368744177664" 1/140737488355328" 1/281474976710656" 1/562949953421312" 1/1125899906842624" 1/2251799813685248" 1/4503599627370496" 1/9007199254740992" 1/18014398509481984" 1/36028797018963968" 1/72057594037927936" 1/144115188075855872" 1/288230376151711744" 1/576460752303423488" 1/1152921504606846976" 1/2305843009213693952" 1/4611686018427387904" 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ZERO SETTING DEVICE

- To adjust the tools, for example milling tools to the "0" position and for determine the reference point of the machine spindle.
- No feeler gauge or starting contact is needed.
- No damages at the measuring element and the work pieces.

HEIGHT: 50mm,with graduation 0.01mm, accuracy 0.01mm.
ORDER NO. 31-229-001

HEIGHT: 100mm,with graduation 0.01mm, accuracy 0.01mm.
ORDER NO. 31-229-002



ELECTR. ZERO SETTING DEVICE

- With LED signal light.
- Height 50mm.
- With magnetic base for easy set up.
- The red lamp will light up when touched.
- Height can be micro adjusted and audited by gage block, Accuracy within 0.005mm.
- Can be used vertically or horizontally.
- Weight:0.5kgs.

ORDER NO. 30-292-001



DIGITAL ZERO SETTING DEVICE

- Easy to read and easy to determine the reference point of the machine spindle.

- Main height: 50±0.01.
- Graduation: 0.01MM/0.0005".
- Repeated accuracy:0.01MM/0.0005".
- With permanent magnetic base.

ORDER NO. 31-229-004



WIGGLER & CENTER FINDER SET

- For accurately locating working points on machines.
- Includes:ball contact attachment
- (0.25" dia.),disc contact attachment
- (0.100" dia.).off-set indicator holder,
- Needle point attachment.

ORDER NO. 32-231-001



MECHANICAL EDGE FINDER

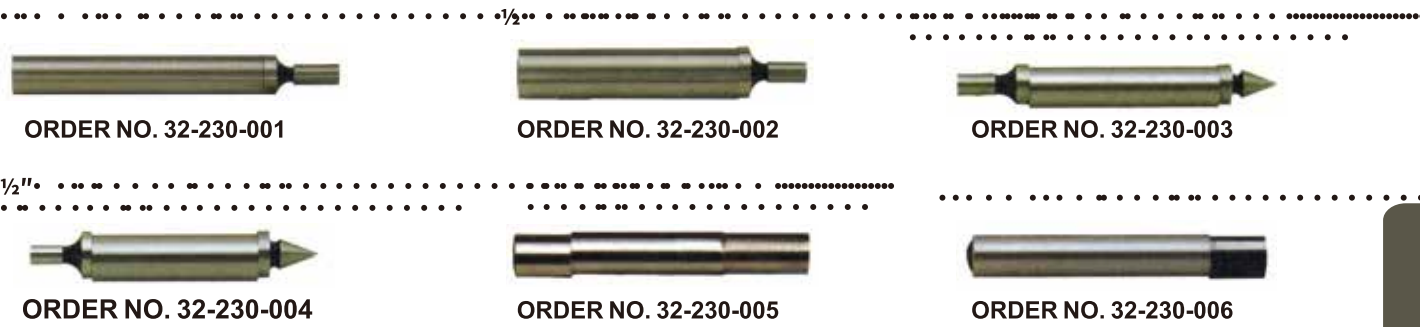
- For fast accurate work location.
- With 10mm shank. 4mm/10mm contacting points.

ORDER NO. 41-109-001



MICRO EDGE & CENTER FINDERS

- Precision ground and hardened.
- For all round and straight surfaces.



ELECTRONIC EDGE FINDER

- With LED signal light and Beep.
- High sensitivy probe for accurate positioning.
- Safe and easy operation.
- Size:20mm(3/4" shank with 98mm (3.67" total length.

DIA.20×98mm : **ORDER NO. 30-232-001**
DIA.20×170mm : **ORDER NO. 30-232-002**



MASTER PRECISION LEVELS

- For accurate levelling and adjusting the surfaces and cylinders.
- The body of level is made of cast iron.
- The base is hand scraped for extreme accuracy.
- Main level dial is graduated to 10sec.accuracy.



METRIC SIZE

SPECIFICATION	GRADUATION	ORDER NO.
150mm	0.02mm	31-158-001
200mm	0.02mm	31-158-003
250mm	0.02mm	31-158-005
300mm	0.02mm	31-158-007
150mm	0.05mm	31-158-002
200mm	0.05mm	31-158-004
250mm	0.05mm	31-158-006
300mm	0.05mm	31-158-008

INCH SIZE

SPECIFICATION	GRADUATION	ORDER NO.
6"	0.0002' PER 10"	32-158-001
8"	0.0002' PER 10"	32-158-003
10"	0.0002' PER 10"	32-158-005
12"	0.0002' PER 10"	32-158-007
6"	0.0005' PER 10"	32-158-002
8"	0.0005' PER 10"	32-158-004
10"	0.0005' PER 10"	32-158-006
12"	0.0005' PER 10"	32-158-008

PRECISION FRAME BUBBLE LEVELS

- For leveling and adjusting of horizontal and vertical surfaces and cylinders.
- Stabilized with cast iron base.
- Equipped with insulating handle.
- Sides with flat bearing surface and 2 sides with flat plus v-bearing surface.



METRIC SIZE

SPECIFICATION	GRADUATION	ORDER NO.
150X150mm	0.02mm	31-159-001
200X200mm	0.02mm	31-159-003
250X250mm	0.02mm	31-159-005
300X300mm	0.02mm	31-159-007
150X150mm	0.05mm	31-159-002
200X200mm	0.05mm	31-159-004
250X250mm	0.05mm	31-159-006
300X300mm	0.05mm	31-159-008

INCH SIZE

SPECIFICATION	GRADUATION	ORDER NO.
6X6"	0.0002' PER 10"	32-159-001
8X8"	0.0002' PER 10"	32-159-003
10X10"	0.0002' PER 10"	32-159-005
12X12"	0.0002' PER 10"	32-159-007
6X6"	0.0005' PER 10"	32-159-002
8X8"	0.0005' PER 10"	32-159-004
10X10"	0.0005' PER 10"	32-159-006
12X12"	0.0005' PER 10"	32-159-008

HIGH ACCURACY DIGITAL SCALES WITH WIRELESS TRANSMISSION



- This Digital scales are extensively used to improve the old-style machines, commonly fitted to most machines in today's shops: lathes, cylindrical grinders, milling machines, surface grinders, boring mills, router tables, planer, table saw fence and other machine tools to allow the operator to work faster and with greater accuracy.
- High quality surface finish for extra smooth slider movement.
- Super Speed Measurement.
- High Accuracy Industrial grade.
- Protection grade IP67, ensure the scale can work reliably in hard environment.
- Super Large LCD for easy reading; Display Inch/Metric/Fractions.
- Rule made of HARDENED STAINLESS STEEL to promote high accuracy and repeatability.
- With built in external power port.
- Built in Wireless transmission(optional).



RANGE	GRADUATION	ORDER NO.
0-100mm/0-4"	0.01mm/0.0005"	30-400-080
0-150mm/0-6"	0.01mm/0.0005"	30-400-081
0-200mm/0-8"	0.01mm/0.0005"	30-400-082

RANGE	GRADUATION	ORDER NO.
0-300mm/0-12"	0.01mm/0.0005"	30-400-083
0-600mm/0-24"	0.01mm/0.0005"	30-400-084
0-1000mm/0-40"	0.01mm/0.0005"	30-400-085

LINEAR DIGITAL SCALE READOUT KITS

- The Newly upgraded and Cost effective digital readout kits, designed to be attached to a wide variety of woodworking, metal working and other machinery allowing conversion to digital readout, Going digital ensures precise and highly repeatable machine adjustments.

Features:

- Inductive measurement system
- Accuracy +/- .003" per 40" or .08 mm per 1000 mm, +/- .0047" per 80" or 0.12 mm per 2000mm, and +/- .0078" per 160" or 0.2mm per 4000mm.
- Protection Grade IP67, ensure the caliper can work reliably in hard environment.
- Ability to set zero at any point on the sensor with the push of a button.
- Metric/Inch/Fraction conversion.
- Display has super large numbers for easy viewing.
- With display holding function.
- Measuring Speed: 3m/s.
- Super measuring range with flexible sensor scale can meet all kinds of application.
- Bluetooth data output(optional).
- Customized Installation for the movement unit are available.

RANGE	GRADUATION	WITH READOUT KIT ORDER NO.	WITHOUT READOUT KIT ORDER NO.	RANGE	GRADUATION	WITH READOUT KIT ORDER NO.	WITHOUT READOUT KIT ORDER NO.
0-150mm/0-6"	0.01mm/0.0005"	30-030-409	30-030-416	0-1000mm/0-40"	0.01mm/0.0005"	30-030-401	30-030-405
0-200mm/0-8"	0.01mm/0.0005"	30-030-410	30-030-417	0-1500mm/0-60"	0.01mm/0.0005"	30-030-415	30-030-422
0-300mm/0-12"	0.01mm/0.0005"	30-030-411	30-030-418	0-2000mm/0-80"	0.01mm/0.0005"	30-030-402	30-030-406
0-500mm/0-20"	0.01mm/0.0005"	30-030-412	30-030-419	0-3000mm/0-120"	0.01mm/0.0005"	30-030-403	30-030-407
0-600mm/0-24"	0.01mm/0.0005"	30-030-413	30-030-420	0-4000mm/0-160"	0.01mm/0.0005"	30-030-404	30-030-408
0-800mm/0-32"	0.01mm/0.0005"	30-030-414	30-030-421				

DIGITAL DISPLAY

- Easy-to-read super large LCD display**
- Built in 2pcs 3V Lithium battery, also can use external power**
- Continuously read display data of measuring tools and update continuous!
- With many functions(PRESET, TOL, MAX, MIN etc.)**
- With expandable signal output**



ORDER NO. 30-316-100

ALUMINUM DIGITAL READOUT KITS VALUE SET



- Making your wood/metal working bench tool & machinery work with high accuracy at ease.
- Can be fitted on drill press, wood lathe, planners, multi purpose lather/milling machine and more.
- Large LCD display (with metric/inch/fractional data display).
- Zero positioning/setting, with all fixing accessories.
- New aluminium alloy scale can be cut at any position to fit your specified machinery and save money.
- Display device with magnets, hanging hole, fixing plate for your different fixing choice.
- Precision measuring, accuracy: 0.01mm (0.001").

Scale length 600mm /24"(cuttable) and Max. measure 500mm(20")
ORDER NO. 30-330-S01

Scale length 1000mm/40"(cuttable)
ORDER NO. 30-330-S02

DIGITAL SCALE UNITS

- Auto power-off(option)
- Metric/inch/fraction conversion
- Zero setting at any position
- With display holding function
- Absolute and incremental measuring
- With data output



RANGE	GRADUATION	VERTICAL TYPE ORDER NO.	HORIZONTAL TYPE	RANGE	GRADUATION	VERTICAL TYPE ORDER NO.	HORIZONTAL TYPE
0-100mm/0-4"	0.01mm/0.0005"	30-030-001	30-030-002	0-600mm/0-24"	0.01mm/0.0005"	30-030-013	30-030-014
0-150mm/0-6"	0.01mm/0.0005"	30-030-003	30-030-004	0-800mm/0-32"	0.01mm/0.0005"	30-030-015	30-030-016
0-200mm/0-8"	0.01mm/0.0005"	30-030-005	30-030-006	0-1000mm/0-40"	0.01mm/0.0005"	30-030-017	30-030-018
0-300mm/0-12"	0.01mm/0.0005"	30-030-007	30-030-008	0-1500mm/0-60"	0.01mm/0.0005"	30-030-019	30-030-020
0-400mm/0-16"	0.01mm/0.0005"	30-030-009	30-030-010	0-2000mm/0-80"	0.01mm/0.0005"	30-030-021	30-030-022
0-500mm/0-20"	0.01mm/0.0005"	30-030-011	30-030-012				

MAGNETIC BASE WITH FINE ADJUSTMENT

- Branch stem with fine adjustment.
- Magnetic base with on/off switch.
- V-grooved base for ease of mount on cylindrical parts also.
- Chrome plate rods.
- Fine quality permanent magnet.
- Dial indicator shank $\Phi 8\text{mm}$, $\Phi 10\text{mm}$ and dovetail.



ORDER NO. 30-111-001.....
ORDER NO. 30-111-002.....

MECHANICAL UNIVERSAL MAGNETIC BASE

- For all kind of measurements in various position.
- Any position can be set by tightening a knob to lock every part.
- Magnetic force :60kg (optional 80kg.).
- Base dimension:60X50x55mm.



ORDER NO. 30-111-004

HYDRAULIC UNIVERSAL MAGNETIC BASE

- Mechanical central locking of all joints.
- Special structure ensures high pressure.
- Oil hydraulics protected against oil leakage by double seals.
- Powerful permanent magnet.
- Joined arms rotate 360° on the dial indicator holder and can be twisted 180°.
- Smooth and easy on/off switch.



ORDER NO. 30-111-005

MAGNETIC BASE WITH FLEXIBLE STEM

- The flexible stem magnetic base is an ideal testing tool at random angle and internal hole.
- Flexible stem easy reach the place which is hard for rigid stem to reach.
- Flexible stem with locking lever and inching adjuster, adjustable to any position.
- Clamp hole accept all test indicators and normal indicators.
- Magnetic V-base with On/Off switch.



ORDER NO. 30-111-003

PUSHING BUTTON STYLE MAGNETIC BASE

- CZ–AH type.
- Ideal for working in the tight corner.
- Magnetic base with ON/OFF push button.
- Base size: 52x45x50mm.



ORDER NO. 30-111-006

HEAVY DUTY MAGNETIC BASE WITH MECHANICAL 3–D JOINTED ARM

- Mechanical 3–D jointed arm with central locking, All three joints are clamped in a single action.
- Arm length: 600mm.
- Magnetic force: 130kg.
- Base size: 117x50x55mm.



ORDER NO. 30-111-404

MECHANICAL UNIVERSAL MAGNETIC STAND WITH NEW DESIGN FINE ADJUSTMENT

- With this new design fine adjustment on the top of the base , you can more easily adjust and stabilize the position the Dial Gauge or Dial Indicator.
- This is much more user friendly and positive compared to the old ordinary adjustment on the stem.
- Magnetic base with new design fine adjustment · Fast and easy to set up gauges into required position.
- Instantly fastens in any position.
- Dovetail groove for test indicator.
- Clamp hole 8mm(optional hole 3/8).
- Aluminium alloy stem.
- Base– 50 x 55 x 65 mm.
- Upright Arm 150mm.
- Horizontal Arm – 110mm.



FINE ADJUSTMENT



MAGNETIC FORCE	TAPPED HOLE	WEIGHT	ORDER NO.
30KG	M5x1	0.5kg	30-111-401
80KG	M8x1.25	1.4kg	30-111-402
100KG	M8x1.25	1.8kg	30-111-403

MAGNETIC BASE

- Smooth switch On/Off.
- V–base for placing on round surfaces also.
- High quality permanent magnet.



MAGNETIC FORCE	ORDER NO..
30kg	30-111-901
60kg	30-111-9015
80kg	30-111-902
100kg	30-111-903
130kg	30-111-904

MINI MAGNETIC STAND

- Main stem: 105mm, assistant stem:90mm.
- With fine adjustment.
- Both dovetail clamp for test indicator and .1/4 holes for dial indictor.
- Tapped hole:M6x1mm.
- Magnetic force: 12kg.



ORDER NO. 30-112-001

VACUUM STAND WITH FLEXIBLE STEM

- Ideal for use on working table or any kind of flat surface for run out checking.
- Universal direction can be obtained.
- With a powerful vacuum base holder.



ORDER NO. 30-298-001

UNIVERSAL INDICATOR STAND CLAMP

- Easily setted on all working table or bench bar for runout or other checking.



ORDER NO. 30-296-001

UNIVERSAL SURFACE GAGE

- Design for precise marking out operations.
- Steel base,ground on one end and bottom face.
- Bottom groove for cylindrical work.
- One hand fine adjustment.

SIZE	ORDER NO
with main stem 175 x 200mm(7" x 4") scriber:195mm	30-119-001
with main stem 230 x 300mm(9" x 12") scriber:195mm	30-119-002
with main stem 300 x 455mm(12" x 18") scriber:195mm	30-119-003



MULTI-FUNCTION MAGNETIC BASE WITH PROTECTION GUARD

- A great tool for machinist and DIY user.
- Powerful magnetic force base for dial/test indicator holding.
- Used as protection guard operating machine or power tools.
- Drawing holder use as well(with clip on transparency guard).



ORDER NO. 30-297-001

UNIVERSAL PRECISION MEASURING TABLE WITH GRANITE BASE

- Made of black granite.
- For the measuring room and calibration laboratory.
- Extremely rugged and universally adjustable to any position.
- Measuring surface fine ground and diamond lapped.
- Dial indicator shank $\phi 8$ mm.

SIZE	ORDER NO
base dimension:100x150x40mm.column size:200mm x20mm dia(according to DIN 876)	31-121-001
6"square&2"thick.accepts all lug back indicators.column size 8" x3/4" diameter.	32-121-001



MICROSCREW COLUMN GRANITE CHECK STAND

- For the measuring room and calibration laboratory.
- Made of black granite.
- Measuring surface fine ground and diamond lapped.
- Hardened column with height adjustment and setting ring.

SIZE	ORDER NO
	31-121-001
	32-121-001



PRECISION MEASURING TABLE WITH CAST IRON BASE

- Without dial indicator.
- Flat measuring table,steel,hardened and ground surface.
- Chromed column,rigid measuring arm, with fine adjustment.
- Quick positioning and adjustment.

MEASURING TABLE	ORDER NO
• 50mm	31-120-002
80x80mm	31-120-003



CAST IRON BASE COMPACT DIAL GAGE STAND

- Made of cast iron.
- Measuring surface fine ground and diamond lapped.
- Without dial indicator.

SIZE	ORDER NO
with 140 x 105mm base.capacity:215mm	31-120-001
with 5-1/2" x 4-1/4" base.capacity:8-1/2"	32-120-001



MEASURING BASIS

GRANITE SURFACE/CERAMIC PLATES

- Well selected material for good quality, entirely faultless.
- Diamond lapped measuring surfaces.
- All plates are handlapped to exacting tolerances and are manufactured and certified.



LENGTH	WIDTH	THICKNESS	GRANTIE PLATE		CERAMIC PLATE	
			GRADE "00" ORDER NO.	GRADE "0" ORDER NO.	GRADE "00" ORDER NO.	GRADE "0" ORDER NO.
300mm	200mm	50mm	31-122-001	31-122-002	31-237-001	31-237-002
300mm	300mm	70mm	31-122-003	31-122-004	31-237-003	31-237-004
400mm	250mm	70mm	31-122-005	31-122-006	31-237-005	31-237-006
400mm	400mm	100mm	31-122-007	31-122-008	31-237-007	31-237-008
630mm	400mm	100mm	31-122-009	31-122-010	31-237-009	31-237-010
630mm	630mm	130mm	31-122-011	31-122-012	31-237-011	31-237-012
800mm	500mm	130mm	31-122-013	31-122-014	31-237-013	31-237-014
1000mm	630mm	150mm	31-122-015	31-122-016	31-237-015	31-237-016
1000mm	750mm	150mm	31-122-017	31-122-018	31-237-017	31-237-018
1000mm	1000mm	150mm	31-122-019	31-122-020	31-237-019	31-237-020
1200mm	800mm	150mm	31-122-021	31-122-022	31-237-021	31-237-022
1600mm	1000mm	200mm	31-122-023	31-122-024	31-237-023	31-237-024
2000mm	1000mm	250mm	31-122-025	31-122-026	31-237-025	31-237-026
2000mm	1600mm	300mm	31-122-027	31-122-028	31-237-027	31-237-028
2500mm	1600mm	300mm	31-122-029	31-122-030	31-237-029	31-237-030

INSPECTION GRADE "A"

LENGTH	WIDTH	THICKNESS	OVERALL ACCURACY	GRANTIE PLATE ORDER NO.	CERAMIC PLATE ORDER NO.
12"	9"	3"	±0.00050"	32-122-002	32-237-002
12"	12"	3"	.000050"	32-122-004	32-237-004
18"	12"	3"	.000050"	32-122-006	32-237-006
18"	18"	3"	.000050"	32-122-008	32-237-008
24"	18"	3"	.000075"	32-122-010	32-237-010
24"	24"	3"	.000075"	32-122-012	32-237-012
36"	24"	4"	.0001"	32-122-014	32-237-014
48"	36"	4"	.0002"	32-122-016	32-237-016
48"	36"	6"	.0002"	32-122-018	32-237-018
60"	36"	6"	.00025"	32-122-020	32-237-020



TOOLROOM GRADE "B"

LENGTH	WIDTH	THICKNESS	OVERALL ACCURACY	GRANTIE PLATE ORDER NO.	CERAMIC PLATE ORDER NO.
6"	5"	2"	±0001"	32-122-001	32-237-001
8"	6"	2"	.0001"	32-122-003	32-237-003
12"	8"	2"	.0001"	32-122-005	32-237-005
12"	9"	2"	.0001"	32-122-007	32-237-007
12"	9"	3"	.0001"	32-122-009	32-237-009
12"	12"	3"	.0001"	32-122-011	32-237-011
18"	12"	3"	.0001"	32-122-013	32-237-013
18"	12"	4"	.0001"	32-122-015	32-237-015
18"	18"	3"	.0001"	32-122-017	32-237-017
24"	18"	3"	.0001"	32-122-019	32-237-019
24"	18"	4"	.00015"	32-122-021	32-237-021
24"	24"	3"	.00015"	32-122-023	32-237-023
36"	24"	4"	.0002"	32-122-025	32-237-025
48"	24"	4"	.0003"	32-122-027	32-237-027
48"	36"	4"	.0004"	32-122-029	32-237-029
48"	36"	6"	.0004"	32-122-031	32-237-031
60"	36"	6"	.0005"	32-122-033	32-237-033
72"	36"	6"	.0006"	32-122-035	32-237-035
60"	48"	6"	.0005"	32-122-037	32-237-037
72"	48"	6"	.0007"	32-122-039	32-237-039
84"	48"	8"	.0007"	32-122-041	32-237-041
96"	48"	12"	.0008"	32-122-043	32-237-043

LABORATORY GRADE "AA"

LENGTH	WIDTH	THICKNESS	OVERALL ACCURACY	GRANTIE PLATE ORDER NO.	CERAMIC PLATE ORDER NO.
12"	9"	3"	±000025"	32-122-022	32-237-022
18"	12"	3"	.000025"	32-122-024	32-237-024
24"	18"	4"	.000037"	32-122-026	32-237-026
36"	24"	6"	.000050"	32-122-028	32-237-028
48"	36"	6"	.0001"	32-122-030	32-237-030

SURFACE PLATE STANDS

- Solid angular steel construction, powder coated.
- Including 5 leveling jacks.



METRIC

SIZE	ORDER NO.	SIZE	ORDER NO.
400X250mm	31-126-001	800X800mm	31-126-011
400X400mm	31-126-002	1000X630mm	31-126-012
500X400mm	31-126-003	1000X750mm	31-126-013
500X500mm	31-126-004	1000X800mm	31-126-014
600X500mm	31-126-005	1000X1000mm	31-126-015
600X600mm	31-126-006	1200X800mm	31-126-016
630X400mm	31-126-007	1500X1000mm	31-126-017
630X600mm	31-126-008	1600X1000mm	31-126-018
630X630mm	31-126-009	2000X1600mm	31-126-019
800X500mm	31-126-010	2500X1600mm	31-126-020

INCH

SIZE	ORDER NO.
18X24	32-126-001
24X36"	32-126-002
36X48"	32-126-003
36X60"	32-126-004
48X60"	32-126-005
48X72"	32-126-006

GRANITE PARALLELS

- Made of granite,hard and no rusty,no dimensional change over time or temperature change.
- Well selected material for good quality.
- Supplied in matched pair.



METRIC SIZE

SIZE	ORDER NO.	
	Grade 0	Grade 00
20x25x150mm	31-238-002	31-238-001
25x50x300mm	31-238-004	31-238-003
40x75x450mm	31-238-006	31-238-005
50x100x600mm	31-238-008	31-238-007
50x100x750mm	31-238-010	31-238-009

INCH SIZE

SIZE	ORDER NO.	
	Grade 0	Grade 00
3/4x1x6"	0.000060"	32-238-001
1x2x12"	0.000100"	32-238-002
1-1/2x3x18"	0.000300"	32-238-003
2x4x24"	0.000500"	32-238-004
2x4x30"	0.000500"	32-238-005

GRANITE V-BLOCKS

- Ideal for testing cylinder
- Made of granite,hard and no rusty,no dimensional change over time or temperature change
- Supplied in matched pair



METRIC SIZE

SIZE	ORDER NO.	
	Grade 0	Grade 00
63X63X63mm	31-124-002	31-124-001
100X100X100mm	31-124-004	31-124-003
160X160X160mm	31-124-006	31-124-005
250X250X250mm	31-124-008	31-124-007

INCH SIZE

SIZE	TOLERANCE	ORDER NO.
3x3x3"	0.0001"/6"	32-124-001
4x4x4"	0.0001"/6"	32-124-002
6x6x6"	0.0001"/6"	32-124-003

GRANITE V-BLOCKS

- For checking 90°angle,straightness and parallelism.
- Made of granite,hard and no rusty,no dimensional change over time or temperature change.
- Measuring surfaces absolute plane and rectangular finely ground quality.



SIZE	ORDER NO.	
	Grade 0	Grade 00
100X100X20mm	31-125-002	31-125-001
160X160X25mm	31-125-004	31-125-003
200X200X25mm	31-125-006	31-125-005
250X250X30mm	31-125-008	31-125-007
300X300X30mm	31-125-010	31-125-009
400X400X40mm	31-125-012	31-125-011
500X500X50mm	31-125-014	31-125-013

GRANITE SQUARES

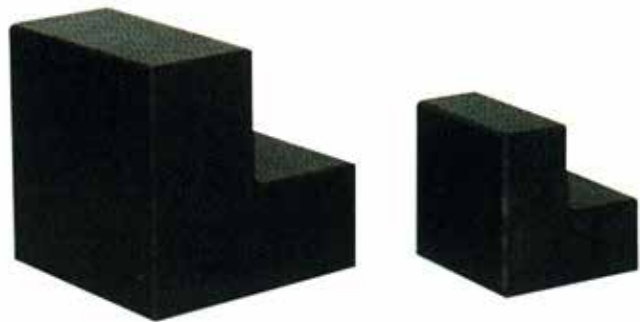
- Made of granite,hard and no rusty,no dimensional change over time or temperature change.
- The two narrow 90°surfaces of the square are precision lapped.



SIZE	TOLERANCE		ORDER NO.	
	Grade 0	Grade 00	Grade 0	Grade 00
100x63mm	0.004mm	0.002mm	32-123-002	32-123-001
160x100mm	0.004mm	0.002mm	32-123-004	32-123-003
250x160mm	0.005mm	0.0025mm	32-123-006	32-123-005
400x250mm	0.007mm	0.0035mm	32-123-008	32-123-007
630x400mm	0.009mm	0.0045mm	32-123-010	32-123-009
1000x630mm	0.012mm	0.006mm	32-123-012	32-123-011

GRANITE ANGLE PLATES

- Furnished with two finished faces or four finished faces.
- Finished square and flat to master grade tolerance: .00005"/6" .
- Four faces model have the back and bottom of the outside finished as well as the back and bottom of the angle plate.
- Two faces model have only back and bottom of the outside finished.



METRIC SIZE

SIZE	FACE "2" ORDER NO.		FACE "4" ORDER NO.	
	Grade 0	Grade 00	Grade 0	Grade 00
160X25X16mm	31-239-002	31-239-001	31-239-010	31-239-009
250X40X25mm	31-239-004	31-239-003	31-239-012	31-239-011
400X63X40mm	31-239-006	31-239-005	31-239-014	31-239-013
830X100X63mm	31-239-008	31-239-007	31-239-016	31-239-015

INCH SIZE

SIZE	ORDER NO.		
	TOLERANCE	FACE "2"	FACE "4"
3x3x3"	0.00005"/6"	32-239-001	32-239-002
4x4x4"	0.00005"/6"	32-239-003	32-239-004
6x6x6"	0.00005"/6"	32-239-005	32-239-006

CAST IRON INSPECTION TABLE

- Made of wear-resistant casting steel.
- Strong ribbed construction, side surfaces reinforced.
- Measuring surface are fully grounded.
- With supporting points,corresponding to the size of plate.



METRIC		INCH	
SIZE	ORDER NO.	SIZE	ORDER NO.
200X300mm	41-233-001	8"X12"	42-233-001
300X400mm	41-233-002	12"X16"	42-233-002
300X500mm	41-233-003	12"X20"	42-233-003
400X500mm	41-233-004	16"X20"	42-233-004
600X400mm	41-233-005	24"X16"	42-233-005
500X800mm	41-233-006	20"X32"	42-233-006
800X1200mm	41-233-007	32"X48"	42-233-007

CAST IRON INSPECTION PLATE

- Made of wear-resistant casting steel.
- Measuring surface are fully grounded.



METRIC			INCH		
LENGTH	WIDTH	ORDER NO.	LENGTH	WIDTH	ORDER NO.
500mm	50	41-234-001	20"	2"	42-234-001
1000mm	50	41-234-002	40"	2"	42-234-002
1500mm	50	41-234-003	60"	2"	42-234-003

PRISMATIC INSPECTION RULER

- 45°and 90°angle.100:1 accuracy.
- Made of wear-resistant casting steel.
- Measuring surface are fully grounded.



METRIC		INCH	
SIZE	ORDER NO.	SIZE	ORDER NO.
250X50mm	41-235-001	10"	42-235-001
500X75mm	41-235-002	20"	42-235-002
750X95mm	41-235-003	30"	42-235-003
1000X120mm	41-235-004	40"	42-235-004

VERTICAL/HORIZONTAL BENCH CENTERS.

- Centers are hardened and ground.hand scraped ways.
- Adjustable gibs.



METRIC				
DISTANCE BETWEEN CENTERS	MAXIMUM SWING	OVERALL LENGTH	WEIGHT	ORDER NO.
	200mm	530mm	24KG	31-254-001
INCH				
DISTANCE BETWEEN CENTERS	MAXIMUM SWING	OVERALL LENGTH	WEIGHT	ORDER NO.
7.87"	7.87"	20.86"	53LBS	32-254-001

HEAVY DUTY PRECISION BENCH CENTER

- Extra heavy duty adjustable indicator holder included.
- Quick release centers.
- Hand scraped ways.adjustable gibs.
- Centers are hardened and ground.
- Head stock can be adjusted lengthwise and locked.
- securely in any position by special lever type handle.
- #2 Morse taper centers.
- Heavy base provides unusual stability.



METRIC

DISTANCE BETWEEN CENTERS	CENTER HEIGHT	LENGTH	WEIGHT	ORDER NO.
500mm	170mm	930mm	120KG	31-166-001
1000mm	170mm	1460mm	170KG	31-166-002

INCH

DISTANCE BETWEEN CENTERS	CENTER HEIGHT	LENGTH	WEIGHT	ORDER NO.
16"	12"	29"	101 lbs	32-166-001
30"	19"	47"	290 lbs	32-166-002

METRIC GAGE BLOCK SET(DIN861)

- Strictly made in accordance with DIN861.
- Made of high-grade steel.
- All measuring faces lapped.
- Hardened with slightly bevelled edges.
- Mirror-polished.
- Provide maximum durability under the most demanding conditions.
- Solid carbide type also available.
- Packed in elegant wooden box (Aluminium case available).



PIECE/SET	NOMINAL SIZE	STEPS(MM)	NO.OF BLOCKS	GRAD 0 ORDER NO.	GRAD 1 ORDER NO.	GRAD 2 ORDER NO.
112	1.0005		1	31-127-001	31-127-101	31-127-201
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
103	1.005		1	31-127-002	31-127-102	31-127-202
	1.01-1.49	0.01	49			
	0.5-24.5	0.5	49			
	25-100	25	4			
88	1.0005		1	31-127-003	31-127-103	31-127-203
	1.001-1.009	0.001	9			
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
87	1.001-1.009	0.001	9	31-127-004	31-127-104	31-127-204
	1.01-1.49	0.01	49			
	0.5-9.5	0.5	19			
	10-100	10	10			
83	1.005		1	31-127-005	31-127-105	31-127-205
	1.01-1.49	0.001	49			
	1.6-1.9	0.01	4			
	0.5-9.5	0.5	19			
	10-100	10	10			
76	1.005		1	31-127-006	31-127-106	31-127-206
	1.01-1.49	0.01	49			
	0.5-9.5	0.1	19			
	10-50	10	5			
	75-100		2			



PIECE/SET	NOMINAL SIZE	STEPS(MM)	NO.OF BLOCKS	GRAD 0 ORDER NO.	GRAD 1 ORDER NO.	GRAD 2 ORDER NO.
47	1.005		1	31-127-007****	31-127-107****	31-127-207
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-24	10	24			
	25-100	25	4			
47	1.005		1	31-127-008****	31-127-108****	31-127-208
	1.01-1.20	0.01	20			
	1.3-1.9	0.1	7			
	1-9	1	9			
	10-100	10	10			
46	1.001-1.009	0.001	9	31-127-009****	31-127-109****	31-127-209
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-100	10	10			
38	1.005		1	31-127-010****	31-127-110****	31-127-210
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-100	10	10			
32	1.005		1	31-127-011	31-127-111	31-127-211
	1.01-1.09	0.01	9			
	1.1-1.9	0.1	9			
	1-9	1	9			
	10-30	10	3			
18	0.991-0.999	0.001	9	31-127-012****	31-127-112****	31-127-212
	1.001-1.009	0.001	9			
13	2.5-12.9	2.6	5	31-127-013****	31-127-113****	31-127-213
	15-22.8	2.6	4			
	25.0-100.0	25	4			
12	25,50,75,80	25mm		31-127-014****	31-127-114****	31-127-214
	105,130,155,180	25mm				
	205,300	25mm				
11	10,20,41,2,51.2, 81.2,101.2,121.5, 121.8,125,175,250			31-127-015****	31-127-115****	31-127-215
10	2.5-12.9	2.6	5	31-127-005	31-127-105	31-127-205
	15-22.8	2.6	4			
	25		1			
10	1.001-1.009		9	31-127-017****	31-127-117****	31-127-217
8	10,20,41,2,51.2, 81.2,101.2,121.5, 121.8			31-127-018****	31-127-118****	31-127-218

LARGE SIZE GAGE BLOCK SET

- Strictly made in accordance with DIN861.
- Made of high-grade steel.
- All measuring faces lapped.
- Hardened with slightly bevelled edges.
- Mirror-polished.
- Provide maximum durability under the most demanding conditions.
- Packed in elegant wooden box.



METRIC

PIECE/SET	WIDTH	ORDER NO.
8 piece/set	125,150,175,200,250,300,400,500mm	31-127-019
8 piece/set	25,50,75,100,125,150,175,200mm	31-127-020

INCH

PIECE/SET	WIDTH	ORDER NO.
8 piece/set	5",6",7",8",10",12",16",20"	32-127-007

INCH SIZE 36PC RECTANGULAR GAGE BLOCK SET

- FEATURES:
- Highest degree of accuracy when used at a temperature of 68°F(20°).
 - Alloy steel with Rockwell hardness of 65.
 - Sets are calibrated to meet or exceed federal specification GGG-G-15C.
 - Supplied in fitted case.
 - Grade available: Grade 2(A+), Grade 3(B), Grade B:(Tolerance to be 0.00005" from nominal in .1" and under).
 - Solid carbide type also available.

STEPPING	NOMINAL DIMENSIONS	NO.OF BLOCKS
••	0-10005"	1
0-0001"	0.1001" TO 0.1009"	9
0.001"	0.101" TO 0.109"	9
0.01"	0.11" TO 0.19"	9
0.1"	0.1" TO 0.5"	5
-	1	1
-	2	1
-	4	1
••••••••		36



INCH SIZE 81PC RECTANGULAR GAGE BLOCK SET

- 81 piece set include the following:
- 1 Blocks: 0.050".
- 10 Blocks: 0.1000"-1009" in 0.0001 steps.
- 49 Blocks: 0.101"-149" in 0.001" steps.
- 17 Blocks: 0.150"-0.950" in 0.050" steps.
- 4 Blocks: 1.000"-4.000" in 1.000" steps.

Grade 2 : **ORDER NO. 32-127-004**
Grade 3 : **ORDER NO. 32-127-005**
Grade B : **ORDER NO. 32-127-006**



INCH SIZE 36PC TENTH SHOP BLOCK SET

- FEATURES:
- O.D.is .750" .
 - I.D. Thread is 1/ 4" -28.
 - Hardened to 58-60 Rockwell.
 - For set-up work.
 - For setting sine bars.
 - Ground and lapped to ±.0001" .
 - More surface area than rectangular gage blocks.
 - For high build-up work.
 - For machine work stops.

- THE SET INCLUDE:
- 9 piece .101-.109 by .001" .
 - 15 piece .050-.190 by .010" .
 - 9 piece .200-1.000 by .100" .
 - 1 piece .0625" .
 - 1 piece .125" .
 - 1 extra piece 1.000" .

ORDER NO. 32-127-008



METRIC SIZE 36PC TENTH SHOP BLOCK SET

- For sine bar and work setting up.20mm diameter with M6 thread.

- Include:
- 9pcs gage block 1.51-1.59 with 0.01mm incr.
 - 11pcs gage blocks:1.50-2.50 with 0.1mm incr.and
 - 16pcs gage block:3/4/5/6/7/8/9/10/11/12/13/14/15/20/25mm.

ORDER NO. 32-127-021



GAGE BLOCK ACCESSORIES SET



SET NUMBER

DESCRIPTION	ORDER NO.	30-127-S01 (10PC/SET)	30-127-S02 (15PC/SET)	30-127-S03 (17PC/SET)
50mmClamp		1Piece	1Piece	1Piece
100mmClamp		1Piece	1Piece	1Piece
200mmClamp		1Piece	1Piece	1Piece
2mm Radius Cylindrical Jaws		1Pair	1Pair	1Pair
5mm Radius Cylindrical Jaws		1 Pair	1 Pair	1 Pair
10mm Radius Cylindrical Jaws		--	1 Pair	1Pair
100mm Beveled Ends Jaws		--	1 Pair	1Pair
100mm Straight Edge Scriber		1Piece	1Piece	1Piece
Center Point		1 Piece	1 Piece	1 Piece
Knife Edge Jaws		--	1Pair	1Pair
Base Block		1Piece	--	1Piece

CERAMIC GAUGE BLOCK SET

- Suitable for use in measurement and test room.
- Made of ceramic, extmrly wear-resistant, corrosion resistance,excellent dimension stability.
- Each gauge block is marked with an identification number.
- Packed in elegant wooden box.



METRIC SET

PIECE/SET	NOMINAL SIZE	STEPS(MM)	NO.OF BLOCKS	GRAD 0 ORDER NO.	GRAD 1 ORDER NO.
112	1.0005		1	31-128-001	31-128-101
	1.001-1.009	0.001	9		
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
103	1.005		1	31-128-002	31-128-102
	1.01-1.49	0.01	49		
	0.5-24.5	0.5	49		
	25-100	25	4		
83	1.005		1	31-128-003	31-128-103
	1.01-1.49	0.001	49		
	1.6-1.9	0.01	4		
	0.5-9.5	0.5	19		
	10-100	10	10		
76	1.005		1	31-128-004	31-128-104
	1.01-1.49	0.01	49		
	0.5-9.5	0.1	19		
	10-50	10	5		
	75-100	25	2		
47	1.005		1	31-128-005	31-128-105
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-24	10	24		
	25-100	25	4		
38	1.005		1	31-128-006	31-128-106
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-100	10	10		
32	1.005		1	31-128-007	31-128-107
	1.01-1.09	0.01	9		
	1.1-1.9	0.1	9		
	1-9	1	9		
	10-30	10	3		
	50	...	1		

INCH SET

PIECE/SET	NOMINAL SIZE	STEPS(MM)	NO.OF BLOCKS	GRAD 0 ORDER NO.	GRAD 1 ORDER NO.
36	.40005"	. .	1	32-128-001	32-128-101
	.1001" TO .1009"	.0001"	9		
	.101" TO .109"	.001"	9		
	.11" TO .19"	.01"	9		
	.1" TO .5"	.1"	5		
	1	-	1		
	2	-	1		
	4	-	1		
81	.05"	-	1	32-128-002	32-128-102
	.1"- .1009"	.0001"	10		
	.101"- .149"	.001"	49		
	.15"- .95"	.05"	17		
	1.0"-4.0"	1.0"	4		

MEASURING BALL GAUGE

- Precision ground ball gauge .
- Made by quality steel hardened.

METRIC SIZE 100pcs SET:Including:
50pcs each of size Dia.2,0-3,0-3,5-4,0-4,5-5,0mm
30pcs each of size Dia.5,5-6,0-6,5mm
20pcs each of size Dia.7,0-7,5-8,0mm

ORDER NO: 31-324-S01.

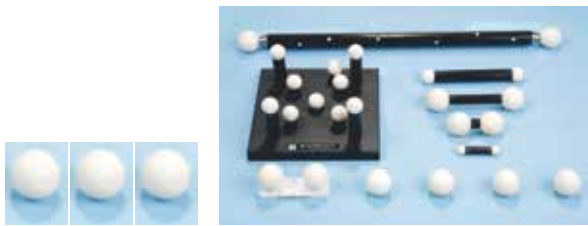
INCH SIZE 52PC SET,include:
1pair each of:1/8",9/64,5/32,3/16,7/32,1/4,9/32,
5/16,11/32,3/8,13/32,7/16,15/32,1/2,17/32,9/16,19/32,
5/8,21/32,11/16,23/32,3/4,13/16,7/8,and 1".

ORDER NO: 32-324-S01



CERAMIC STANDARD BALL

- Made of ceramic.
- Extmrly wear-resistant,corrosion resistance.
- Excellent dimension stability.



RANGE	CIRCULAR DEGREE 0.5µm	ORDER NO.	RANGE	CIRCULAR DEGREE 1µm	ORDER NO.
4mm	31-324-100	31-324-115	17mm	31-324-108	31-324-123
8mm	31-324-101	31-324-116	20mm	31-324-109	31-324-124
10mm	31-324-102	31-324-117	25.4mm	31-324-110	31-324-125
12.7mm	31-324-103	31-324-118	30mm	31-324-111	31-324-126
13mm	31-324-104	31-324-119	38.1mm	31-324-112	31-324-127
14mm	31-324-105	31-324-120	50.8mm	31-324-113	31-324-128
15mm	31-324-106	31-324-121	60mm	31-324-114	31-324-129
16mm	31-324-107	31-324-122			

10PC PRECISION ANGLE BLOCKS SET

- For fast,easy and accurate determination of angular dimensions.
- Hardened and relieved special steel, measuring faces fine ground.

- Accuracy:±/−0.0001" per inch (or ±/−0.0001 per mm in metric)
- Each set include:1°/2°/3°/4°/5°/10°/15°/20°/25°/30° . angle blocks .With 3" x1/4" (75x6.35mm) dimension.

ORDER NO. 30-130-S01

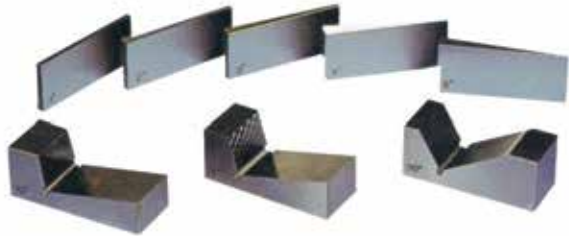


UNIVERSAL ANGLE BLOCK SET

FEATURES:

- Tolerance: ±/−1'
- Hardness HRC45–50°
- No sine vise.sine plate angle vise.angle chart or block gage needed
- Vee block dimensions:3" L×1-3/16" W×3/16" H, 4" L×1-1/2" W×1-1/2" H
- Angle plate dimensions:2-3/4" L×1-3/16" W×5/64" H,
- 4" L×1-1/2" W×3/16" H
- Set includes: V block 10°,15°,30, angle plate 1°,2°,3°,4°,

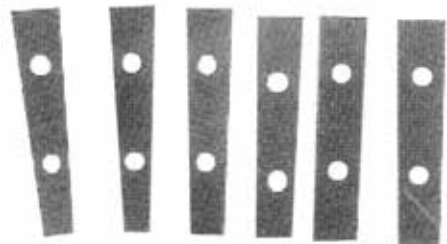
ORDER NO. 30-131-S01



THIN ANGLE BLOCK SET

- An economical and direct method for angle set-ups,
- Hardened and precision ground on working surfaces.
- Two 1/4 holes for mounting.
- 3-1/2" long ,5/32" thick
- Two kinds of set available:

..... ORDER NO. 30-131-S02
..... ORDER NO. 30-131-S03



SOLID ANGLE PLATES SET

FEATURES:

- Hardened & ground steel.
- Precision ground angles for convenient set-ups in tooling, production and inspection.
- Four holes for easy mounting
- ±10 minutes
- 2pcs/set

ORDER NO. 30-131-S04

DIMENSIONS	ANGLE
3"×3"×4-3/8"	45°/45°/90°
4"×3-15/16"×2"	30°/60°/90°



17PCS ANGLE BLOCK SET

- For quick setting up for angles 1/4°. To 45°. Hardened steel material. accuracy:0.003" . include:1/4°,1/2°,1°,2°,3°,4°,5°,10°,15°,20°,25°, 30°,35°,40°,45°.and 2pcs riser blocks,in fitted case.

ORDER NO. 30-240-001



PLANER AND SHAPER GAUGES

- Sets shaper and planer tools quickly and easily.
- Sets the gage with caliper,micrometer or surface gage and simply brings the cutting tool in contact with the gage for a reliable statting point.
- Use with a dial indicator and large level plates for planing.

MEASURING RANGE	L	H	B	ORDER NO.
235mm	132mm	76.2mm	19mm	31-133-001



INCH SIZE PRECISION STEEL PLUG GAGE SET

- Ideal for checking hole size,location,gage slots,distance between holes, go&no-go gaging,setting other gages and micrometers.
- High quality steel,hardened and tempered.
- Each gauge has been inspected.
- All gages •• length,no sharp edges, tolerance:•••••



MEASURING RANGE	NO.OF GAGES	ORDER NO.
0.061"-0.250" Plus	190pcs	32-135-S01
0.061"-0.250" Minus	190pcs	32-135-S02
0.251"-0.500" Plus	250pcs	32-135-S03
0.251"-0.500" Minus	250pcs	32-135-S04

METRIC SIZE PRECISION STEEL PLUG GAGE SETS.

- Ideal for checking hole size,location,gage slots,distance between holes, go&no-go gaging,setting other gages and micrometers.
- Strictly made in accordance with DIN2269.
- High quality steel,hardened and tempered.
- Each gauge has been inspected.
- *Accuracy:±/−0.001mm.all gages are with 50mm workinglength".

MEASURING RANGE	NO.OF GAGES	ORDER NO.
1-5mm with 0.1mm step	41pcs	31-135-S01
1-10mm with 0.1mm step	91pcs	31-135-S02
1-10mm with 0.1mm step	273pcs	31-135-S03
additional per dimension ±0.001mm		



CERAMIC PIN GAGE SETS

- Ideal for checking hole size,location,gage slots,distance between holes, go&no-go gaging,setting other gages and micrometers.
- Superior corrosion resistance and long life time.
- Tolerance:±/-1µm. Working length 50mm.



MEASURING RANGE	NO.OF GAGES	ORDER NO.
1-5mm with 0.1mm step	41pcs	31-241-S01
1-10mm with 0.1mm step	91pcs	31-241-S02
1-10mm with 0.1mm step additional per dimension ±0.001mm	273pcs	31-241-S03

WIRE GAGE

- Wire gauges are the most reliable tools for measuring.
- The pitch diameter of external thread,the most important.
- Dimension in a screw thread.



SIZE	ORDER NO.	SIZE	ORDER NO.
0.118mm	31-136-001	1.553mm	31-136-017
0.142mm	31-136-002	1.732mm	31-136-018
0.185mm	31-136-003	1.833mm	31-136-019
0.25mm	31-136-004	2.05mm	31-136-020
0.291mm	31-136-005	2.311mm	31-136-021
0.343mm	31-136-006	2.595mm	31-136-022
0.433mm	31-136-007	2.886mm	31-136-023
0.511mm	31-136-008	3.106mm	31-136-024
0.572mm	31-136-009	3.177mm	31-136-025
0.724mm	31-136-010	3.55mm	31-136-026
0.796mm	31-136-011	4.12mm	31-136-027
0.866mm	31-136-012	4.4mm	31-136-028
1.008mm	31-136-013	4.773mm	31-136-029
1.157mm	31-136-014	5.15mm	31-136-030
1.302mm	31-136-015	6.212mm	31-136-031
1.441mm	31-136-016		

PIN GAUGE AND HOLDER SET

- With hardened steel pins, in plastic holders mounted.

20PCS/SET WITH PLASTIC HOLDER
(0.45MM-1.5MM/0.018" -0.060")

METRIC : **31-247-001**
INCH : **32-247-001**

16PC/SET WITH PLASTIC HOLDER
(1.5MM-3.0MM/0.06" -0.118")

METRIC : **31-247-002**
INCH : **32-247-002**



ISO METRIC PLAIN PLUG GAUGES

- Thread Standard: DIN2245.
- Special steel,hardened and finely ground.
- Double ends with GO and NO GO.
- Inch size available.

Accuracy:

- H7 with GO and NO GO.
- Hardened alloy steel material



SIZE	ORDER NO.	SIZE	ORDER NO.	SIZE	ORDER NO.
2	31-140-000	21	31-140-019	52	31-140-043
2.2	31-140-0002	22	31-140-020	55	31-140-044
2.5	31-140-0005	23	31-140-021	56	31-140-045
2.8	31-140-0008	24	31-140-022	57	31-140-046
3	31-140-001	25	31-140-023	58	31-140-047
3.5	31-140-0015	26	31-140-024	59	31-140-048
4	31-140-002	27	31-140-025	60	31-140-049
4.5	31-140-0025	28	31-140-026	62	31-140-050
5	31-140-003	29	31-140-027	63	31-140-051
6	31-140-004	30	31-140-028	65	31-140-052
7	31-140-005	32	31-140-029	66	31-140-053
8	31-140-006	33	31-140-030	67	31-140-054
9	31-140-007	34	31-140-031	68	31-140-055
10	31-140-008	35	31-140-032	69	31-140-056
11	31-140-009	36	31-140-033	70	31-140-057
12	31-140-010	37	31-140-034	71	31-140-058
13	31-140-011	38	31-140-035	72	31-140-059
14	31-140-012	40	31-140-036	74	31-140-060
15	31-140-013	42	31-140-037	75	31-140-061
16	31-140-014	45	31-140-038	76	31-140-062
17	31-140-015	47	31-140-039	78	31-140-063
18	31-140-016	48	31-140-040	80	31-140-064
19	31-140-017	50	31-140-041		
20	31-140-018	51	31-140-042		

ISO METRIC PLAIN PLUG GAUGES SET

- Special steel,hardened and finely ground.
- Double ends with GO and NO GO.
- Standard: DIN2245.
- Accuracy: H7.

PIECE PER SET	SIZE	ORDER NO.
28	3 TO 30mm(STEP 1mm)	31-140-S01
16	32-35-37-38-40-42-45-47-48-50-52-55-56-58-60-62mm	31-140-S02
7	3-4-5-6-8-10-12mm	31-140-S03



- H7 accuracy.hardened alloy steel material.

SIZE	ORDER NO.			SIZE	ORDER NO.		
	GO GAGE	NO GO GAGE	GO & NO GO GAGE		GO GAGE	NO GO GAGE	GO & NO GO GAGE
4	31-242-G000	31-242-N000	31-242-S000	42	31-242-G037	31-242-N037	31-242-S037
4.5	31-242-G0005	31-242-N0005	31-242-S0005	44	31-242-G038	31-242-N038	31-242-S038
5	31-242-G001	31-242-N001	31-242-S001	45	31-242-G039	31-242-N039	31-242-S039
6	31-242-G002	31-242-N002	31-242-S002	46	31-242-G040	31-242-N040	31-242-S040
7	31-242-G003	31-242-N003	31-242-S003	47	31-242-G041	31-242-N041	31-242-S041
8	31-242-G004	31-242-N004	31-242-S004	48	31-242-G042	31-242-N042	31-242-S042
9	31-242-G005	31-242-N005	31-242-S005	50	31-242-G043	31-242-N043	31-242-S043
10	31-242-G006	31-242-N006	31-242-S006	52	31-242-G044	31-242-N044	31-242-S044
11	31-242-G007	31-242-N007	31-242-S007	55	31-242-G045	31-242-N045	31-242-S045
12	31-242-G008	31-242-N008	31-242-S008	58	31-242-G046	31-242-N046	31-242-S046
13	31-242-G009	31-242-N009	31-242-S009	60	31-242-G047	31-242-N047	31-242-S047
14	31-242-G010	31-242-N010	31-242-S010	62	31-242-G048	31-242-N048	31-242-S048
15	31-242-G011	31-242-N011	31-242-S011	65	31-242-G049	31-242-N049	31-242-S049
16	31-242-G012	31-242-N012	31-242-S012	68	31-242-G050	31-242-N050	31-242-S050
17	31-242-G013	31-242-N013	31-242-S013	70	31-242-G051	31-242-N051	31-242-S051
18	31-242-G014	31-242-N014	31-242-S014	72	31-242-G052	31-242-N052	31-242-S052
19	31-242-G015	31-242-N015	31-242-S015	75	31-242-G053	31-242-N053	31-242-S053
20	31-242-G016	31-242-N016	31-242-S016	80	31-242-G054	31-242-N054	31-242-S054
21	31-242-G017	31-242-N017	31-242-S017	82	31-242-G055	31-242-N055	31-242-S055
22	31-242-G018	31-242-N018	31-242-S018	85	31-242-G056	31-242-N056	31-242-S056
23	31-242-G019	31-242-N019	31-242-S019	88	31-242-G057	31-242-N057	31-242-S057
24	31-242-G020	31-242-N020	31-242-S020	90	31-242-G058	31-242-N058	31-242-S058
25	31-242-G021	31-242-N021	31-242-S021	92	31-242-G059	31-242-N059	31-242-S059
26	31-242-G022	31-242-N022	31-242-S022	95	31-242-G060	31-242-N060	31-242-S060
27	31-242-G023	31-242-N023	31-242-S023	98	31-242-G061	31-242-N061	31-242-S061
28	31-242-G024	31-242-N024	31-242-S024	100	31-242-G062	31-242-N062	31-242-S062
29	31-242-G025	31-242-N025	31-242-S025	105	31-242-G063	31-242-N063	31-242-S063
30	31-242-G026	31-242-N026	31-242-S026	110	31-242-G064	31-242-N064	31-242-S064
31	31-242-G027	31-242-N027	31-242-S027	115	31-242-G065	31-242-N065	31-242-S065
32	31-242-G028	31-242-N028	31-242-S028	120	31-242-G066	31-242-N066	31-242-S066
33	31-242-G029	31-242-N029	31-242-S029	125	31-242-G067	31-242-N067	31-242-S067
34	31-242-G030	31-242-N030	31-242-S030	130	31-242-G068	31-242-N068	31-242-S068
35	31-242-G031	31-242-N031	31-242-S031	135	31-242-G069	31-242-N069	31-242-S069
36	31-242-G032	31-242-N032	31-242-S032	150	31-242-G070	31-242-N070	31-242-S070
37	31-242-G033	31-242-N033	31-242-S033	165	31-242-G071	31-242-N071	31-242-S071
38	31-242-G034	31-242-N034	31-242-S034	180	31-242-G072	31-242-N072	31-242-S072
39	31-242-G035	31-242-N035	31-242-S035	200	31-242-G073	31-242-N073	31-242-S073
40	31-242-G036	31-242-N036	31-242-S036	220	31-242-G074	31-242-N074	31-242-S074

- Accuracy: • Ring gauge: 6g GO / NO GO, • • • • •
GO&NO GO • Plug gauge: 6H GO & NO GO, • • • • •



THREAD NOMINAL DIAMETER	PLUG GAGE		RING GAGE					
	GO & NO GO	ORDER NO.	GO	ORDER NO.	NO GO	ORDER NO.	GO & NO GO	ORDER NO.
M1.0X0.25	31-138-P100		31-138-G100		31-138-N100		31-138-S100	
M1.2X0.25	31-138-P120		31-138-G120		31-138-N120		31-138-S120	
M1.4X0.30	31-138-P140		31-138-G140		31-138-N140		31-138-S140	
M1.6X0.35	31-138-P160		31-138-G160		31-138-N160		31-138-S160	
M1.8X0.35	31-138-P180		31-138-G180		31-138-N180		31-138-S180	
M2.0X0.40	31-138-P200		31-138-G200		31-138-N200		31-138-S200	
M2.2X0.45	31-138-P220		31-138-G220		31-138-N220		31-138-S220	
M2.5X0.45	31-138-P0005		31-138-G0005		31-138-N0005		31-138-S0005	
M3.0X0.50	31-138-P001		31-138-G001		31-138-N001		31-138-S001	
M3.5X0.60	31-138-P350		31-138-G350		31-138-N350		31-138-S350	
M4.0X0.70	31-138-P002		31-138-G002		31-138-N002		31-138-S002	
M5.0X0.80	31-138-P003		31-138-G003		31-138-N003		31-138-S003	
M6.0X1.00	31-138-P004		31-138-G004		31-138-N004		31-138-S004	
M7.0X1.00	31-138-P700		31-138-G700		31-138-N700		31-138-S700	
M8.0X1.25	31-138-P006		31-138-G006		31-138-N006		31-138-S006	
M9.0X1.25	31-138-P900		31-138-G900		31-138-N900		31-138-S900	
M10.0X1.50	31-138-P009		31-138-G009		31-138-N009		31-138-S009	
M11.0X1.50	31-138-P110		31-138-G110		31-138-N110		31-138-S110	
M12.0X1.75	31-138-P012		31-138-G012		31-138-N012		31-138-S012	
M14.0X2.00	31-138-P014		31-138-G014		31-138-N014		31-138-S014	
M16.0X2.00	31-138-P016		31-138-G016		31-138-N016		31-138-S016	
M18.0X2.50	31-138-P018		31-138-G018		31-138-N018		31-138-S018	
M20.0X2.50	31-138-P020		31-138-G020		31-138-N020		31-138-S020	
M22.0X2.50	31-138-P022		31-138-G022		31-138-N022		31-138-S022	
M24.0X3.00	31-138-P025		31-138-G025		31-138-N025		31-138-S025	
M27.0X3.00	31-138-P270		31-138-G270		31-138-N270		31-138-S270	
M30.0X3.50	31-138-P300		31-138-G300		31-138-N300		31-138-S300	
M33.0X3.50	31-138-P330		31-138-G330		31-138-N330		31-138-S330	
M36.0X4.00	31-138-P360		31-138-G360		31-138-N360		31-138-S360	
M39.0X4.00	31-138-P390		31-138-G390		31-138-N390		31-138-S390	
M42.0X4.50	31-138-P420		31-138-G420		31-138-N420		31-138-S420	
M45.0X4.50	31-138-P450		31-138-G450		31-138-N450		31-138-S450	
M48.0X5.00	31-138-P480		31-138-G480		31-138-N480		31-138-S480	
M52.0X5.00	31-138-P520		31-138-G520		31-138-N520		31-138-S520	
M56.0X5.50	31-138-P560		31-138-G560		31-138-N560		31-138-S560	
M60.0X5.50	31-138-P600		31-138-G600		31-138-N600		31-138-S600	
M64.0X6.00	31-138-P640		31-138-G640		31-138-N640		31-138-S640	
M68.0X6.00	31-138-P680		31-138-G680		31-138-N680		31-138-S680	

ISO METRIC THREAD PLUG GAUGES SETS

- Special steel,hardened and finely ground.
- Thread Standard: DIN13.
- Accuracy: 6H.



PIECE	PER SET	SIZE	ORDER NO.
13		M3x0.5,M4x0.7,M5x0.8,M6x1,M8x1.25,M8x1,M10x1,M10x1.25,M10x1.5,M12x1.5,M12x1.75,M14x1.5,M14x2	31-139-S01
11		M16x1.5,M16x2,M18x1.5,M18x2.5,M20x1.5,M20x2.5,M22x1.5,M22x2.5,M24x1.5,M24x2,M24x3	31-139-S02
7		M3x0.5,M4x0.7,M5x0.8,M6x1,M8x1.25,M10x1.5,M12x1.75	31-139-S05

ISO METRIC THREAD RING GAUGES SETS

- Thread Standard: DIN 13.
- Accuracy: 6g.



PIECE	PER SET	SIZE	ORDER NO.
13		M3x0.5,M4x0.7,M5x0.8,M6x1,M8x1.25,M8x1,M10x1,M10x1.25,M10x1.5,M12x1.5,M12x1.75,M14x1.5,M14x2	31-139-S03
11		M16x1.5,M16x2,M18x1.5,M18x2.5,M20x1.5,M20x2.5,M22x1.5,M22x2.5,M24x1.5,M24x2,M24x3	31-139-S04
7		M3x0.5,M4x0.7,M5x0.8,M6x1,M8x1.25,M10x1.5,M12x1.75	31-139-S06

INCH SIZE THREAD PLUG & RING GAUGES

FEATURES:

- The ANSI standard thread gauges are made in accordance with ANSI/ASME B1.2-1983
- Series designation:UNC.

Standard supply:

- Plug gage GO & NO GO with handle,Class 2B.
- Ring gage GO & NO GO / GO / NO GO Class 2A.



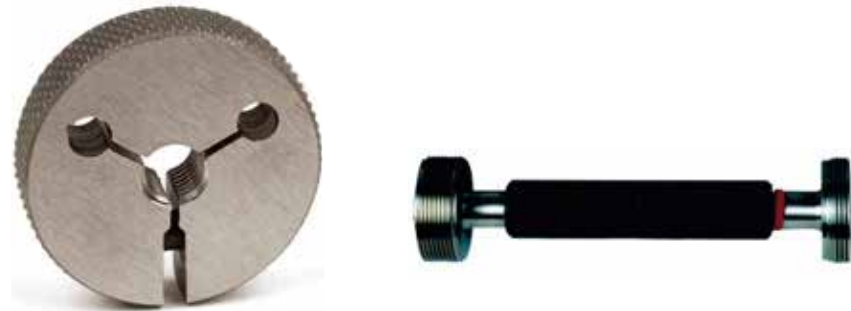
COARSE THREAD UNC

THREAD NOMINAL DIAMETER	PLUG GAGE		RING GAGE		
	GO & NO GO	ORDER NO.	GO	ORDER NO.	GO & NO GO ORDER NO.
1-64UNC	32-138-P100		32-138-G100		32-138-S100
2-56UNC	32-138-P200		32-138-G200		32-138-S200

THREAD NOMINAL DIAMETER	PLUG GAGE		RING GAGE			
	GO & NO GO	ORDER NO.	GO	ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
3-48UNC	32-138-P300		32-138-G300		32-138-N300	32-138-S300
4-40UNC	32-138-P001		32-138-G001		32-138-N001	32-138-S001
5-40UNC	32-138-P002		32-138-G002		32-138-N002	32-138-S002
6-32UNC	32-138-P003		32-138-G003		32-138-N003	32-138-S003
8-32UNC	32-138-P004		32-138-G004		32-138-N004	32-138-S004
10-24UNC	32-138-P005		32-138-G005		32-138-N005	32-138-S005
12-24UNC	32-138-P006		32-138-G006		32-138-N006	32-138-S006
1/4"-20UNC	32-138-P007		32-138-G007		32-138-N007	32-138-S007
5/16"-18UNC	32-138-P008		32-138-G008		32-138-N008	32-138-S008
3/8"-16UNC	32-138-P009		32-138-G009		32-138-N009	32-138-S009
7/16"-14UNC	32-138-P010		32-138-G010		32-138-N010	32-138-S010
1/2"-13UNC	32-138-P011		32-138-G011		32-138-N011	32-138-S011
9/16"-12UNC	32-138-P012		32-138-G012		32-138-N012	32-138-S012
5/8"-11UNC	32-138-P013		32-138-G013		32-138-N013	32-138-S013
3/4"-10UNC	32-138-P014		32-138-G014		32-138-N014	32-138-S014
7/8"-9UNC	32-138-P015		32-138-G015		32-138-N015	32-138-S015
1"-8UNC	32-138-P016		32-138-G016		32-138-N016	32-138-S016
1 1/8"-7UNC	32-138-P017		32-138-G017		32-138-N017	32-138-S017
1 1/4"-7UNC	32-138-P018		32-138-G018		32-138-N018	32-138-S018
1 3/8"-6UNC	32-138-P019		32-138-G019		32-138-N019	32-138-S019
1 1/2"-6UNC	32-138-P020		32-138-G020		32-138-N020	32-138-S020
1 3/4"-5UNC	32-138-P021		32-138-G021		32-138-N021	32-138-S021
2"-4-1/2UNC	32-138-P022		32-138-G022		32-138-N022	32-138-S022
2-1/4"-4-1/2UNC	32-138-P023		32-138-G023		32-138-N023	32-138-S023

FINE THREAD UNF

THREAD NOMINAL DIAMETER	PLUG GAGE		RING GAGE			
	GO & NO GO	ORDER NO.	GO	ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
0-80UNF	32-138-P000		32-138-G000		32-138-N000	32-138-S000
1-72UNF	32-138-P110		32-138-G110		32-138-N110	32-138-S110
2-64UNF	32-138-P120		32-138-G120		32-138-N120	32-138-S120
3-56UNF	32-138-P130		32-138-G130		32-138-N130	32-138-S130
4-48UNF	32-138-P140		32-138-G140		32-138-N140	32-138-S140
5-44UNF	32-138-P024		32-138-G024		32-138-N024	32-138-S024
6-40UNF	32-138-P025		32-138-G025		32-138-N025	32-138-S025
8-36UNF	32-138-P026		32-138-G026		32-138-N026	32-138-S026
10-32UNF	32-138-P027		32-138-G027		32-138-N027	32-138-S027
12-28UNF	32-138-P028		32-138-G028		32-138-N028	32-138-S028
1/4"-28UNF	32-138-P029		32-138-G029		32-138-N029	32-138-S029
5/16"-24UNF	32-138-P030		32-138-G030		32-138-N030	32-138-S030
3/8"-24UNF	32-138-P031		32-138-G031		32-138-N031	32-138-S031
7/16"-20UNF	32-138-P032		32-138-G032		32-138-N032	32-138-S032
1/2"-20UNF	32-138-P033		32-138-G033		32-138-N033	32-138-S033
9/16"-18UNF	32-138-P034		32-138-G034		32-138-N034	32-138-S034



THREAD NOMINAL DIAMETER	PLUG GAGE	RING GAGE		
	GO & NO GO ORDER NO.	GO ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
5/8"-18UNF	32-138-P035	32-138-G035	32-138-N035	32-138-S035
3/4"-16UNF	32-138-P036	32-138-G036	32-138-N036	32-138-S036
7/8"-14UNF	32-138-P037	32-138-G037	32-138-N037	32-138-S037
1"-14UNF	32-138-P111	32-138-G111	32-138-N111	32-138-S111
1"-12UNF	32-138-P038	32-138-G038	32-138-N038	32-138-S038
1 1/8"-12UNF	32-138-P039	32-138-G039	32-138-N039	32-138-S039
1 1/4"-12UNF	32-138-P040	32-138-G040	32-138-N040	32-138-S040
1 3/8"-12UNF	32-138-P041	32-138-G041	32-138-N041	32-138-S041
1 1/2"-12UNF	32-138-P042	32-138-G042	32-138-N042	32-138-S042

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FINE THREAD UNEF

THREAD NOMINAL DIAMETER	PLUG GAGE	RING GAGE		
	GO & NO GO ORDER NO.	GO ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
12-32UNEF	32-138-P043	32-138-G043	32-138-N043	32-138-S043
1/4"-32UNEF	32-138-P044	32-138-G044	32-138-N044	32-138-S044
5/16"-32UNEF	32-138-P045	32-138-G045	32-138-N045	32-138-S045
3/8"-32UNEF	32-138-P046	32-138-G046	32-138-N046	32-138-S046
7/16"-28UNEF	32-138-P047	32-138-G047	32-138-N047	32-138-S047
1/2"-28UNEF	32-138-P048	32-138-G048	32-138-N048	32-138-S048
9/16"-24UNEF	32-138-P049	32-138-G049	32-138-N049	32-138-S049
5/8"-24UNEF	32-138-P050	32-138-G050	32-138-N050	32-138-S050
11/16"-24UNEF	32-138-P051	32-138-G051	32-138-N051	32-138-S051
3/4"-20UNEF	32-138-P052	32-138-G052	32-138-N052	32-138-S052
13/16"-20UNEF	32-138-P053	32-138-G053	32-138-N053	32-138-S053
7/8"-20UNEF	32-138-P054	32-138-G054	32-138-N054	32-138-S054
15/16"-20UNEF	32-138-P055	32-138-G055	32-138-N055	32-138-S055
1"-20UNEF	32-138-P056	32-138-G056	32-138-N056	32-138-S056
1 1/16"-18UNEF	32-138-P057	32-138-G057	32-138-N057	32-138-S057
1 1/8"-18UNEF	32-138-P058	32-138-G058	32-138-N058	32-138-S058
1 3/16"-18UNEF	32-138-P059	32-138-G059	32-138-N059	32-138-S059
1 1/4"-18UNEF	32-138-P060	32-138-G060	32-138-N060	32-138-S060
1 5/16"-18UNEF	32-138-P061	32-138-G061	32-138-N061	32-138-S061
1 3/8"-18UNEF	32-138-P062	32-138-G062	32-138-N062	32-138-S062
1 7/16"-18UNEF	32-138-P063	32-138-G063	32-138-N063	32-138-S063
1 1/2"-18UNEF	32-138-P064	32-138-G064	32-138-N064	32-138-S064
1 9/16"-18UNEF	32-138-P065	32-138-G065	32-138-N065	32-138-S065
1 5/8"-18UNEF	32-138-P066	32-138-G066	32-138-N066	32-138-S066
1 11/16"-18UNEF	32-138-P067	32-138-G067	32-138-N067	32-138-S067

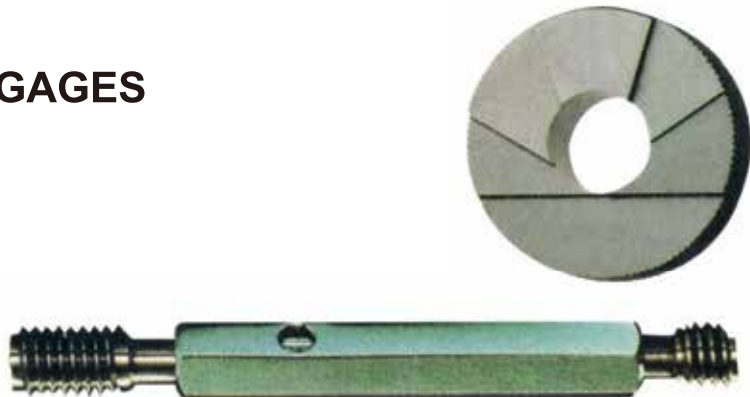
BSP THREAD PLUG & RING
GAUGES H6 GO & NO GO



THREAD NOMINAL DIAMETER	PLUG GAGE	RING GAGE		
	GO & NO GO ORDER NO.	GO ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
G1/8"-28	32-141-P001	32-141-G001	32-141-N001	32-141-S001
G1/4"-19	32-141-P002	32-141-G002	32-141-N002	32-141-S002
G3/8"-19	32-141-P003	32-141-G003	32-141-N003	32-141-S003
G1/2"-14	32-141-P004	32-141-G004	32-141-N004	32-141-S004
G5/8"-14	32-141-P005	32-141-G005	32-141-N005	32-141-S005
G3/4"-14	32-141-P006	32-141-G006	32-141-N006	32-141-S006
G7/8"-14	32-141-P007	32-141-G007	32-141-N007	32-141-S007
G1"-11	32-141-P008	32-141-G008	32-141-N008	32-141-S008

NPT THREAD PLUG & RING GAGES

- Thread dimensions as per ANSI B 1.20.1.



THREAD NOMINAL DIAMETER	PLUG GAGE	RING GAGE		
	GO & NO GO ORDER NO.	GO ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.
1/16"-27	31-243-P000	32-243-G000	32-243-N000	32-243-S000
1/8"-27	32-243-P001	32-243-G001	32-243-N001	32-243-S001
1/4"-18	32-243-P002	32-243-G002	32-243-N002	32-243-S002
3/8"-18	32-243-P003	32-243-G003	32-243-N003	32-243-S003
1/2"-14	32-243-P004	32-243-G004	32-243-N004	32-243-S004
3/4"-14	32-243-P005	32-243-G005	32-243-N005	32-243-S005
1"-11-1/2	32-243-P006	32-243-G006	32-243-N006	32-243-S006
1-1/4"-11-1/2	32-243-P007	32-243-G007	32-243-N007	32-243-S007
1-1/2"-11-1/2	32-243-P008	32-243-G008	32-243-N008	32-243-S008
2"-11-1/2	32-243-P009	32-243-G009	32-243-N009	32-243-S009
2-1/2"-8	32-243-P010	32-243-G010	32-243-N010	32-243-S010
3"-8	32-243-P011	32-243-G011	32-243-N011	32-243-S011

RUSSIAN STANDARD THREAD PLUG & RING GAUGES

- GOST18465-73
- Special steel,hardened and finely ground
- Ring gauge:6g GO / NO GO, GO&NO GO
- Plug gauge:6H GO & NO GO,
- Sizes can be customized up to M600



THREAD NOMINAL DIAMETER	PLUG GAGE	RING GAGE			
	GO & NO GO ORDER NO.	GO ORDER NO.	NO GO ORDER NO.	GO & NO GO ORDER NO.	
M1.0X0.25	31-148-P100	31-148-G100	31-148-N100	31-148-N100	
M1.2X0.25	31-148-P120	31-148-G120	31-148-N120	31-148-N120	
M1.4X0.30	31-148-P140	31-148-G140	31-148-N140	31-148-N140	
M1.6X0.35	31-148-P160	31-148-G160	31-148-N160	31-148-N160	
M1.8X0.35	31-148-P180	31-148-G180	31-148-N180	31-148-N180	
M2.0X0.40	31-148-P200	31-148-G200	31-148-N200	31-148-N200	
M2.2X0.45	31-148-P220	31-148-G220	31-148-N220	31-148-N220	
M2.5X0.45	31-148-P0005	31-148-G0005	31-148-N0005	31-148-N0005	
M3.0X0.50	31-148-P001	31-148-G001	31-148-N001	31-148-N001	
M3.5X0.60	31-148-P350	31-148-G350	31-148-N350	31-148-N350	
M4.0X0.70	31-148-P002	31-148-G002	31-148-N002	31-148-N002	
M5.0X0.80	31-148-P003	31-148-G003	31-148-N003	31-148-N003	
M6.0X1.00	31-148-P004	31-148-G004	31-148-N004	31-148-N004	
M7.0X1.00	31-148-P700	31-148-G700	31-148-N700	31-148-N700	
M8.0X1.25	31-148-P006	31-148-G006	31-148-N006	31-148-N006	
M9.0X1.25	31-148-P900	31-148-G900	31-148-N900	31-148-N900	
M10.0X1.50	31-148-P009	31-148-G009	31-148-N009	31-148-N009	
M11.0X1.50	31-148-P110	31-148-G110	31-148-N110	31-148-N110	
M12.0X1.75	31-148-P012	31-148-G012	31-148-N012	31-148-N012	
M14.0X2.00	31-148-P014	31-148-G014	31-148-N014	31-148-N014	
M16.0X2.00	31-148-P016	31-148-G016	31-148-N016	31-148-N016	
M18.0X2.50	31-148-P018	31-148-G018	31-148-N018	31-148-N018	
M20.0X2.50	31-148-P020	31-148-G020	31-148-N020	31-148-N020	
M22.0X2.50	31-148-P022	31-148-G022	31-148-N022	31-148-N022	
M24.0X3.00	31-148-P025	31-148-G025	31-148-N025	31-148-N025	
M27.0X3.00	31-148-P270	31-148-G270	31-148-N270	31-148-N270	
M30.0X3.50	31-148-P300	31-148-G300	31-148-N300	31-148-N300	
M33.0X3.50	31-148-P330	31-148-G330	31-148-N330	31-148-N330	
M36.0X4.00	31-148-P360	31-148-G360	31-148-N360	31-148-N360	
M39.0X4.00	31-148-P390	31-148-G390	31-148-N390	31-148-N390	
M42.0X4.50	31-148-P420	31-148-G420	31-148-N420	31-148-N420	
M45.0X4.50	31-148-P450	31-148-G450	31-148-N450	31-148-N450	
M48.0X5.00	31-148-P480	31-148-G480	31-148-N480	31-148-N480	
M52.0X5.00	31-148-P520	31-148-G520	31-148-N520	31-148-N520	
M56.0X5.50	31-148-P560	31-148-G560	31-148-N560	31-148-N560	
M60.0X5.50	31-148-P600	31-148-G600	31-148-N600	31-148-N600	
M64.0X6.00	31-148-P640	31-148-G640	31-148-N640	31-148-N640	
M68.0X6.00	31-148-P680	31-148-G680	31-148-N680	31-148-N680	

NON-UPSET AND EXTERNAL-UPSET PETROLEUM TUBING PIPE THREAD WORKING PLUG & RING GAUGE

- Standard No.:API SPEC 5B.



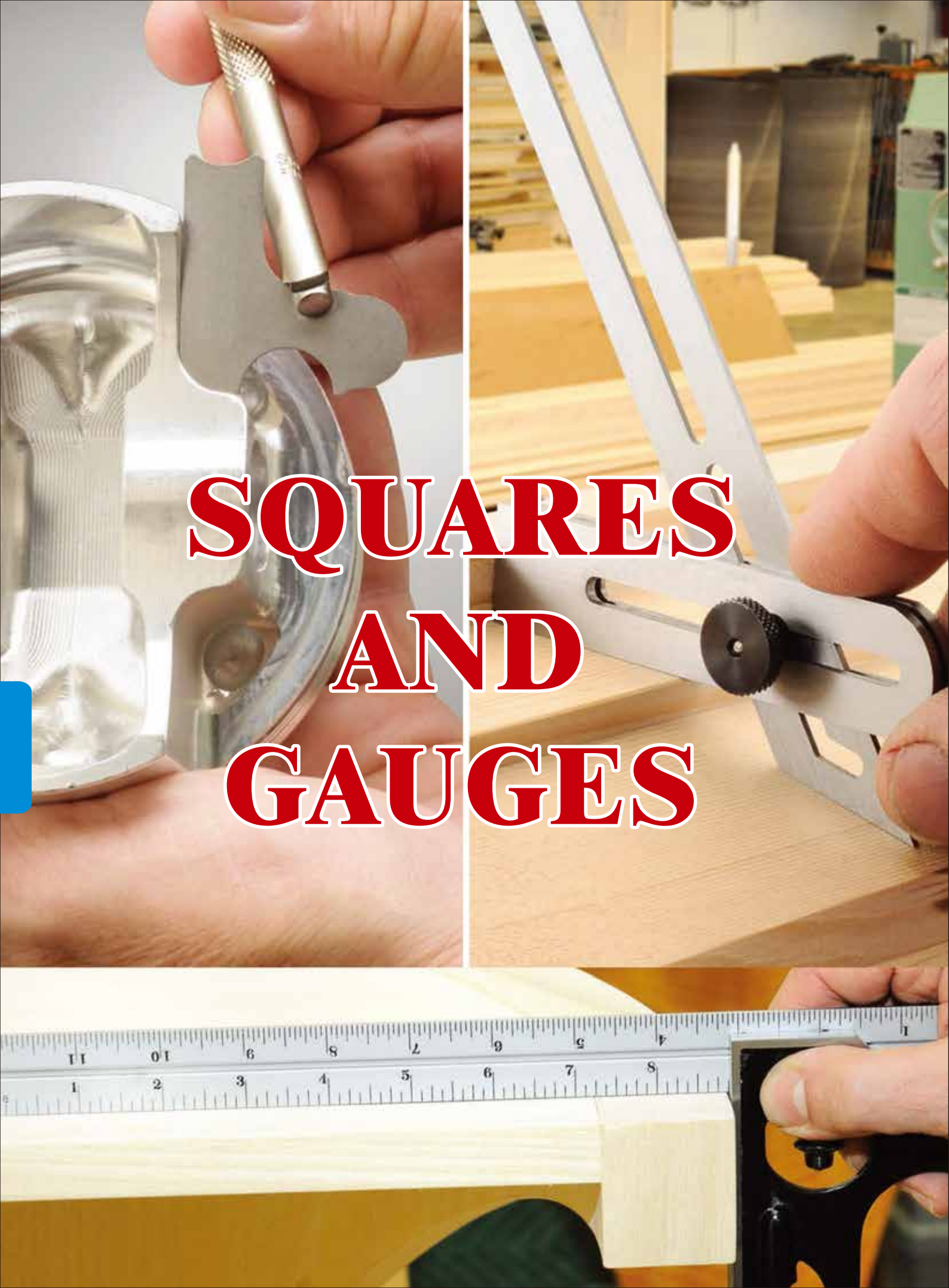
	PLUG GAGE	RING GAGE		PLUG GAGE	RING GAGE
1.050 TBG	31-245-P101	31-245-R101	1.050UP TBG	31-245-P110	31-245-R110
1.315 TBG	31-245-P102	31-245-R102	1.315UP TBG	31-245-P111	31-245-R111
1.660 TBG	31-245-P103	31-245-R103	1.660UP TBG	31-245-P112	31-245-R112
1.900 TBG	31-245-P104	31-245-R104	1.900UP TBG	31-245-P113	31-245-R113
2 3/8 TBG	31-245-P105	31-245-R105	2 3/8UP TBG	31-245-P114	31-245-R114
2 7/8 TBG	31-245-P106	31-245-R106	2 7/8UP TBG	31-245-P115	31-245-R115
3 1/2 TBG	31-245-P107	31-245-R107	3 1/2UP TBG	31-245-P116	31-245-R116
4 TBG	31-245-P108	31-245-R108	4UP TBG	31-245-P117	31-245-R117
4 1/2 TBG	31-245-P109	31-245-R109	4 1/2UP TBG	31-245-P118	31-245-R118

PETROLEUM DRILL PIPE THREAD WOKING PLUG & RING GAUGES (Number Style)

- API SPEC 7-2.



	PLUG GAGE	RING GAGE		PLUG GAGE	RING GAGE
Nc23	31-245-P001	31-245-R001	NC46(4 IF)	31-245-P008	31-245-R008
NC26(2 3/8 IF)	31-245-P002	31-245-R002	NC50(4 1/2 IF)	31-245-P009	31-245-R009
NC31(2 7/8 IF)	31-245-P003	31-245-R003	NC56	31-245-P010	31-245-R010
NC35	31-245-P004	31-245-R004	NC61	31-245-P011	31-245-R011
NC38(3 1/2 IF)	31-245-P005	31-245-R005	NC70	31-245-P012	31-245-R012
NC40(4 FH)	31-245-P006	31-245-R006	NC77	31-245-P013	31-245-R013
NC44	31-245-P007	31-245-R007			



SQUARES AND GAUGES

COMBINATION SQUARE SET PROTRACTORS

- A must for metal & wood working.
- Hardened stainless steel. double side scaled. 1.0mm(1/64"), 0.5mm(1/32").
- Measuring range: 0-180°.
- Two size set available: 300mm/12" (most popular) and 500mm/20" .
- In plastic case packing.

300mm/12" : **ORDER NO. 30-031-001**

500mm/20" : **ORDER NO. 30-031-002**



3PC MINI COMBINATION SQUARE SET

- Consist of a 6" (150mm).
- Satin chrome hardened.
- Tempered blade.
- Metric/Inch scales.

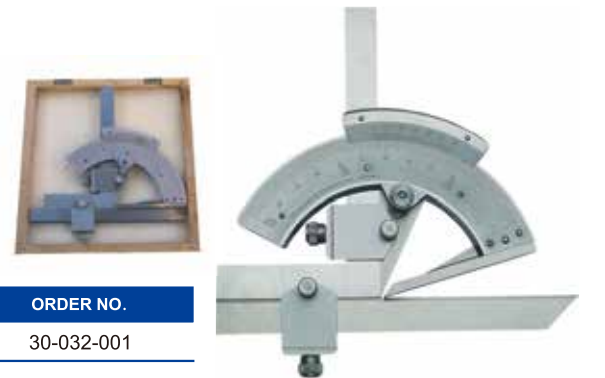
ORDER NO. 30-281-001



UNIVERSAL BEVEL PROTRACTOR

- Hardened stainless steel.
- With fine adjustment.
- All measuring faces are hardened, ground and lapped.
- Satin chrome plated scale.

MEASURING RANGE	ACCURACY	READING	ORDER NO.
0-320°	±2'	2'	30-032-001



UNIVERSAL BEVEL PROTRACTOR WITH MAGNIFIER

- Clear graduations and numbering of the scale disc 4x90°.
- Vernier and scale disc are on a common plane thus guaranteeing error-free, parallax-free reading.
- With magnifying glass for easier and faster reading.
- RULER: 0-300MM (0-150MM, 0-200MM optional).

MEASURING RANGE	ACCURACY	READING	ORDER NO.
0-360°	±5'	5'	30-032-002



DIAL BEVEL PROTRACTOR

- Clean graduation.
- Made of stainless steel, with fine adjustment.
- Indicator pointer shows each degree.
- Measuring range: 0-360°. With readings 5' (Spare blade 150mm/200mm/300mm also available, pls specify when ordering).

ORDER NO. 30-033-001



DIGITAL PROTRACTOR

- The digital Protractor provides an LCD readout in 5 minute of arc.
- Hardened Stainless Steel Construction.
- LCD can display the reading of DMS and decimal degrees at the same time.
- A button "MODEL" selects the measuring range according to application(1x360,2x180 or 4x90).

- FEATURE
- *Measuring Range 360°.
 - *Output Type:Direct RS-232C
 - *30" ,0.008°Resolution.
 - *Accuracy:±5".
 - *Made of stainless steel throughout.
- *LCD can display DMS/DD at the same time.
 - *Diversity of measuring ways.
 - *Zero anywhere through 360 Degree range
 - *Selectable ranges:1x360°/2x180°/4x90°
 - *360 Degree Micro-fine adjustment.
 - *Power Req.1 CR2032 Wafer LI Cell.

ORDER NO. 30-285-001



LOCKING TYPE PROTRACTOR

- For standard mechanical engineering.
- MATERIAL:Stainless steel.
- Laser engraved, clear reading scale.

SIZE	LENGTH OF BLADES	ARC-Ø	ORDER NO.
80X120mm	120mm	80mm	31-036-001
120X150mm	150mm	120mm	31-036-003
150X200mm	200mm	150mm	31-036-005
200X300mm	300mm	200mm	31-036-007



LOCKING TYPE PROTRACTOR

- For standard mechanical engineering.
- Special steel, in chromed finish.
- Scale in matt chrom finish.
- With adjustable blade ,with fixing screw.

SIZE	LENGTH OF BLADES	ARC-Ø	ORDER NO.
100X150mm	150mm	100mm	31-036-002
150X300mm	300mm	150mm	31-036-004
200X400mm	400mm	200mm	31-036-006
250X500mm	500mm	250mm	31-036-008
300X600mm	600mm	300mm	31-036-010



CENTER SQUARE GAUGE(DIN875/1)

- For marking centers on round discs and shafts.
- MATERIAL: Stainless steel.
- Scale in matt chrome finish.

LEG	RULE	READING	LEG	RULE	READING
70mm	100mm	31-037-001	160mm	250mm	31-037-004
130mm	150mm	31-037-002	180mm	300mm	31-037-005
150mm	200mm	31-037-003			

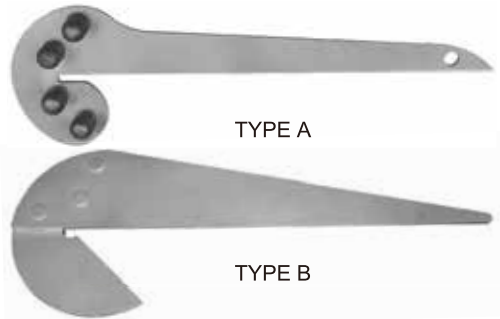


CENTER GAUGE

- this metal gauge makes you locate the center point of working piece very quickly. It can be used as scribe and the center hole before processing.made of stainless steel,length 150mm(6"), thickness 1.8mm.

TYPE A available for circle dia.20-60mm **30-385-001**

TYPE B available for circle dia.20-100mm **30-385-002**



STAINLESS STEEL BEVEL PROTRACTOR

- Made of stainless steel.
- Satin chrome plated scale.
- With locking screw.
- 0-180°measuring range.

ORDER NO. 30-189-001



STAINLESS STEEL PROTRACTOR

- Useful and accurate tool for setting bevels,transferring angles,small squaring tasks.
- Blade secured firmly at any angle by a lock joint and knurled out.
- Satin chrome finish for easy reading and resistance to rust.

METRIC SIZE :
..... • * ~~31-035-001~~ • •

INCH SIZE :
..... • • • ~~32-035-001~~



METRIC SIZE 90°KNIFE EDGE SQUARE(DIN875)

- With bevelled edges.
- Have ture right angles both inside and outside.
- Satin chrome finished.
- Beams and blades ground and lapped for straightness and parallelism.



SIZE	STAINLESS STEEL				CARBON STEEL			
	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
50X40mm	30-045-901	30-045-915	30-045-929	30-045-943	30-045-001	30-045-015	30-045-029	30-045-043
75X50mm	30-045-903	30-045-917	30-045-931	30-045-945	30-045-003	30-045-017	30-045-031	30-045-045
100X70mm	30-045-905	30-045-919	30-045-933	30-045-947	30-045-005	30-045-019	30-045-033	30-045-047
150X100mm	30-045-907	30-045-921	30-045-935	30-045-949	30-045-007	30-045-021	30-045-035	30-045-049
200X130mm	30-045-909	30-045-923	30-045-937	30-045-951	30-045-009	30-045-023	30-045-037	30-045-051
250X165mm	30-045-911	30-045-925	30-045-939	30-045-953	30-045-011	30-045-025	30-045-039	30-045-053
300X200mm	30-045-913	30-045-927	30-045-941	30-045-955	30-045-013	30-045-027	30-045-041	30-045-055

METRIC SIZE 90°KNIFE EDGE SQUARE
WITH HEAVY BASE(DIN875)

- With bevelled edges.
- Have ture right angles both inside and outside.
- Satin chrome finished.
- Beams and blades ground and lapped for straightness and parallelism.



SIZE	STAINLESS STEEL				CARBON STEEL			
	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
50X40mm	30-045-902	30-045-916	30-045-930	30-045-944	30-045-002	30-045-016	30-045-030	30-045-044
75X50mm	30-045-904	30-045-918	30-045-932	30-045-946	30-045-004	30-045-018	30-045-032	30-045-046
100X70mm	30-045-906	30-045-920	30-045-934	30-045-948	30-045-006	30-045-020	30-045-034	30-045-048
150X100mm	30-045-908	30-045-922	30-045-936	30-045-950	30-045-008	30-045-022	30-045-036	30-045-050
200X130mm	30-045-910	30-045-924	30-045-938	30-045-952	30-045-010	30-045-024	30-045-038	30-045-052
250X165mm	30-045-912	30-045-926	30-045-940	30-045-954	30-045-012	30-045-026	30-045-040	30-045-054
300X200mm	30-045-914	30-045-928	30-045-942	30-045-956	30-045-014	30-045-028	30-045-042	30-045-056

METRIC SIZE 90°FLAT SQUARE

- With flat edges.
- Have ture right angles both inside and outside.
- Satin chrome finished.
- Beams and blades ground and lapped for straightness and parallelism.



SIZE	STAINLESS STEEL				CARBON STEEL				
	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	4 GRADE ORDER NO.
50X40mm	31-046-901	31-046-910	31-046-919	31-046-928	31-046-001	31-046-010	31-046-019	31-046-028	31-046-110
75X50mm	31-046-902	31-046-911	31-046-920	31-046-929	31-046-002	31-046-011	31-046-020	31-046-029	31-046-111
100X70mm	31-046-903	31-046-912	31-046-921	31-046-930	31-046-003	31-046-012	31-046-021	31-046-030	31-046-112
150X100mm	31-046-904	31-046-913	31-046-922	31-046-931	31-046-004	31-046-013	31-046-022	31-046-031	31-046-113
200X130mm	31-046-905	31-046-914	31-046-923	31-046-932	31-046-005	31-046-014	31-046-023	31-046-032	31-046-114
250X160mm	31-046-906	31-046-915	31-046-924	31-046-933	31-046-006	31-046-015	31-046-024	31-046-033	31-046-115
300X200mm	31-046-907	31-046-916	31-046-925	31-046-934	31-046-007	31-046-016	31-046-025	31-046-034	31-046-116
400X265mm	31-046-908	31-046-917	31-046-926	31-046-935	31-046-008	31-046-017	31-046-026	31-046-035	31-046-117
500X330mm	31-046-909	31-046-918	31-046-927	31-046-936	31-046-009	31-046-018	31-046-027	31-046-036	31-046-118

METRIC SIZE 90°FLAT SQUARE
WITH WIDE BASE

- With flat edges.
- Have ture right angles both inside and outside.
- Satin chrome finished.
- Beams and blades ground and lapped for straightness and parallelism.



SIZE	STAINLESS STEEL				CARBON STEEL				
	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	4 GRADE ORDER NO.
50X40mm	31-046-937	31-046-946	31-046-955	31-046-964	31-046-037	31-046-046	31-046-055	31-046-064	31-046-119
75X50mm	31-046-938	31-046-947	31-046-956	31-046-965	31-046-038	31-046-047	31-046-056	31-046-065	31-046-120
100X70mm	31-046-939	31-046-948	31-046-957	31-046-966	31-046-039	31-046-048	31-046-057	31-046-066	31-046-121
150X100mm	31-046-940	31-046-949	31-046-958	31-046-967	31-046-040	31-046-049	31-046-058	31-046-067	31-046-122
200X130mm	31-046-941	31-046-950	31-046-959	31-046-968	31-046-041	31-046-050	31-046-059	31-046-068	31-046-123
250X160mm	31-046-942	31-046-951	31-046-960	31-046-969	31-046-042	31-046-051	31-046-060	31-046-069	31-046-124
300X200mm	31-046-943	31-046-952	31-046-961	31-046-970	31-046-043	31-046-052	31-046-061	31-046-070	31-046-125
400X265mm	31-046-944	31-046-953	31-046-962	31-046-971	31-046-044	31-046-053	31-046-062	31-046-071	31-046-126
500X330mm	31-046-945	31-046-954	31-046-963	31-046-972	31-046-045	31-046-054	31-046-063	31-046-072	31-046-127

METRIC SIZE 90°FLAT SQUARE
WITH HEAVY BASE

- With flat edges.
- Have ture right angles both inside and outside.
- Satin chrome finished.
- Beams and blades ground and lapped for straightness and parallelism.



SIZE	STAINLESS STEEL				CARBON STEEL			
	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	00 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
50X40mm	31-046-973	31-046-982	31-046-991	31-046-801	31-046-073	31-046-082	31-046-091	31-046-101
75X50mm	31-046-974	31-046-983	31-046-992	31-046-802	31-046-074	31-046-083	31-046-092	31-046-102
100X70mm	31-046-975	31-046-984	31-046-993	31-046-803	31-046-075	31-046-084	31-046-093	31-046-103
150X100mm	31-046-976	31-046-985	31-046-994	31-046-804	31-046-076	31-046-085	31-046-094	31-046-104
200X130mm	31-046-977	31-046-986	31-046-995	31-046-805	31-046-077	31-046-086	31-046-095	31-046-105
250X160mm	31-046-978	31-046-987	31-046-996	31-046-806	31-046-078	31-046-087	31-046-096	31-046-106
300X200mm	31-046-979	31-046-988	31-046-997	31-046-807	31-046-079	31-046-088	31-046-097	31-046-107
400X265mm	31-046-980	31-046-989	31-046-998	31-046-808	31-046-080	31-046-089	31-046-098	31-046-108
500X330mm	31-046-981	31-046-990	31-046-999	31-046-809	31-046-081	31-046-090	31-046-099	31-046-109

METRIC SIZE 45°OR 60° SQUARE (DIN875)

- For standard machinery purpose.
- Edges and sides are fine grounded.



45°SQUARE WITH WIDE BASE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-901	31-049-913	31-049-925	31-049-001	31-049-013	31-049-025
120X80mm	31-049-902	31-049-914	31-049-926	31-049-002	31-049-014	31-049-026
150X100mm	31-049-903	31-049-915	31-049-927	31-049-003	31-049-015	31-049-027
200X130mm	31-049-904	31-049-916	31-049-928	31-049-004	31-049-016	31-049-028
250X165mm	31-049-905	31-049-917	31-049-929	31-049-005	31-049-017	31-049-029
300X200mm	31-049-906	31-049-918	31-049-930	31-049-006	31-049-018	31-049-030

60°SQUARE WITH WIDE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-907	31-049-919	31-049-931	31-049-007	31-049-019	31-049-031
120X80mm	31-049-908	31-049-920	31-049-932	31-049-008	31-049-020	31-049-032
150X100mm	31-049-909	31-049-921	31-049-933	31-049-009	31-049-021	31-049-033
200X130mm	31-049-910	31-049-922	31-049-934	31-049-010	31-049-022	31-049-034
250X165mm	31-049-911	31-049-923	31-049-935	31-049-011	31-049-023	31-049-035
300X200mm	31-049-912	31-049-924	31-049-936	31-049-012	31-049-024	31-049-036

45° FLAT SQUARE

- For standard machinery purpose.
- Edges and sides are fine grounded.



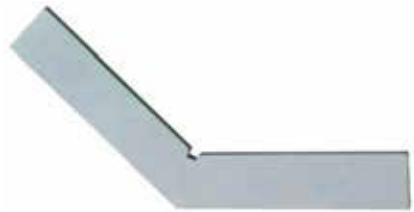
SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-937	31-049-949	31-049-961	31-049-037	31-049-049	31-049-061
120X80mm	31-049-938	31-049-950	31-049-962	31-049-038	31-049-050	31-049-062
150X100mm	31-049-939	31-049-951	31-049-963	31-049-039	31-049-051	31-049-063
200X130mm	31-049-940	31-049-952	31-049-964	31-049-040	31-049-052	31-049-064
250X165mm	31-049-941	31-049-953	31-049-965	31-049-041	31-049-053	31-049-065
300X200mm	31-049-942	31-049-954	31-049-966	31-049-042	31-049-054	31-049-066

60° FLAT SQUARE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-943	31-049-955	31-049-967	31-049-043	31-049-055	31-049-067
120X80mm	31-049-944	31-049-956	31-049-968	31-049-044	31-049-056	31-049-068
150X100mm	31-049-945	31-049-957	31-049-969	31-049-045	31-049-057	31-049-069
200X130mm	31-049-946	31-049-958	31-049-970	31-049-046	31-049-058	31-049-070
250X165mm	31-049-947	31-049-959	31-049-971	31-049-047	31-049-059	31-049-071
300X200mm	31-049-948	31-049-960	31-049-972	31-049-048	31-049-060	31-049-072

METRIC SIZE 120°OR 135° SQUARE

- For standard machinery purpose.
- Edges and sides are fine grounded.



120° FLAT SQUARE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
50x50mm	31-049-937	31-049-949	31-049-961	31-049-037	31-049-049	31-049-061
75x75mm	31-049-938	31-049-950	31-049-962	31-049-038	31-049-050	31-049-062
100x100mm	31-049-939	31-049-951	31-049-963	31-049-039	31-049-051	31-049-063
150x150mm	31-049-940	31-049-952	31-049-964	31-049-040	31-049-052	31-049-064
200x200mm	31-049-941	31-049-953	31-049-965	31-049-041	31-049-053	31-049-065
250x250mm	31-049-942	31-049-954	31-049-966	31-049-042	31-049-054	31-049-066

135° FLAT SQUARE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-050-907	31-050-919	31-050-931	31-050-007	31-050-019	31-050-031
120X80mm	31-050-908	31-050-920	31-050-932	31-050-008	31-050-020	31-050-032
150X100mm	31-050-909	31-050-921	31-050-933	31-050-009	31-050-021	31-050-033
200X130mm	31-050-910	31-050-922	31-050-934	31-050-010	31-050-022	31-050-034
250X165mm	31-050-911	31-050-923	31-050-935	31-050-011	31-050-023	31-050-035
300X200mm	31-050-912	31-050-924	31-050-936	31-050-012	31-050-024	31-050-036

120° SQUARE WITH WIDE BASE

- For standard machinery purpose.
- edges and sides are fine grounded.



SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-937	31-049-949	31-049-961	31-049-037	31-049-049	31-049-061
120X80mm	31-049-938	31-049-950	31-049-962	31-049-038	31-049-050	31-049-062
150X100mm	31-049-939	31-049-951	31-049-963	31-049-039	31-049-051	31-049-063
200X130mm	31-049-940	31-049-952	31-049-964	31-049-040	31-049-052	31-049-064
250X165mm	31-049-941	31-049-953	31-049-965	31-049-041	31-049-053	31-049-065
300X200mm	31-049-942	31-049-954	31-049-966	31-049-042	31-049-054	31-049-066

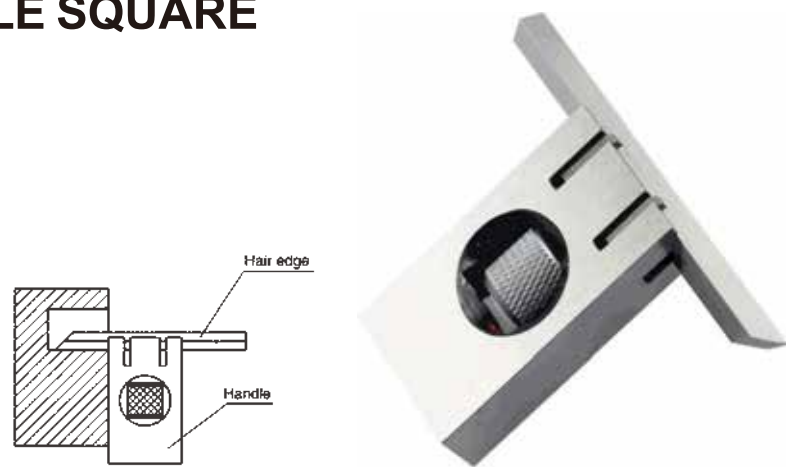
135° SQUARE WITH WIDE BASE

SIZE	STAINLESS STEEL			CARBON STEEL		
	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.	0 GRADE ORDER NO.	1 GRADE ORDER NO.	2 GRADE ORDER NO.
100X70mm	31-049-943	31-049-955	31-049-967	31-049-043	31-049-055	31-049-067
120X80mm	31-049-944	31-049-956	31-049-968	31-049-044	31-049-056	31-049-068
150X100mm	31-049-945	31-049-957	31-049-969	31-049-045	31-049-057	31-049-069
200X130mm	31-049-946	31-049-958	31-049-970	31-049-046	31-049-058	31-049-070
250X165mm	31-049-947	31-049-959	31-049-971	31-049-047	31-049-059	31-049-071
300X200mm	31-049-948	31-049-960	31-049-972	31-049-048	31-049-060	31-049-072

PRECISION ADJUSTABLE SQUARE

- Precision pattern for tool-makers etc.
- Stainless steel, hardened and fine ground.
- Made according to DIN875/00.
- Length of handle:40×23×10mm.
- Hair edges: 60×4×4mm.

ORDER NO. 31-195-001



MULTI ANGLE SQUARE WITH WIDE BASE

- For standard machinery purpose.
- For multiple uses.
- Edges and sides are fine grounded.

SIZE	ORDER NO.
100mm	31-196-001
120mm	31-196-002
150mm	31-196-003
200mm	31-196-004
250mm	31-196-005
300mm	31-196-006



ADJUSTABLE SQUARE WITH THUMB SCREW

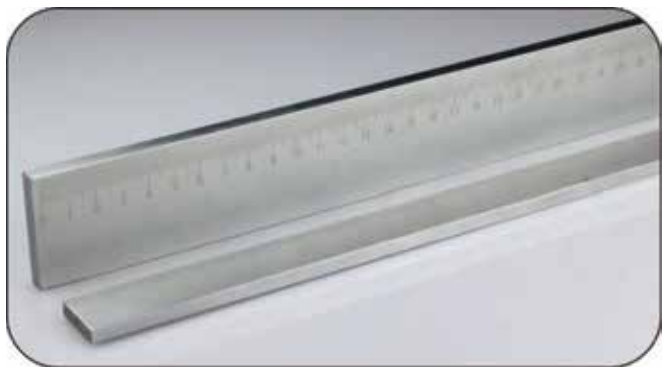
- For metalworker, fitters locksmith, etc.
- Special steel, galvanized finish.
- With fixing screw for locking the steel blade.

SIZE	ORDER NO.
100mm	31-197-001
125mm	31-197-002
150mm	31-197-003
200mm	31-197-004
250mm	31-197-005
300mm	31-197-006
400mm	31-197-007
500mm	31-197-008



HARDENED STEEL STRAIGHT EDGES RULER

- Edges and flat sides are fine grounded.
- Graduation on bottom edge or not.



METRIC SIZE

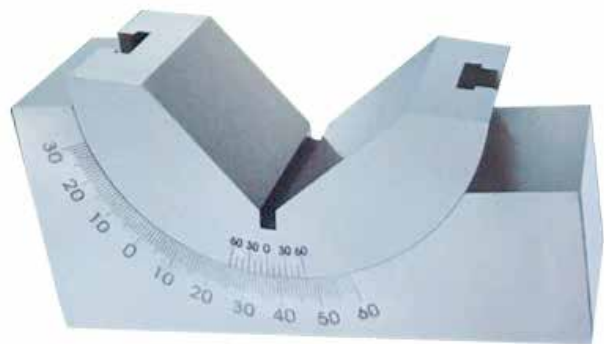
LENGTH	WIDTH	THICKNESS	ORDER NO.	
			GRADUATED	NON-GRADUATED
500mm	40mm	8mm	31-198-001	31-198-002
750mm	40mm	10mm	31-198-003	31-198-004
1000mm	50mm	12mm	31-198-005	31-198-006
1250mm	60mm	12mm	31-198-007	31-198-008
1500mm	60mm	12mm	31-198-009	31-198-010
2000mm	70mm	15mm	31-198-011	31-198-012
2500mm	80mm	15mm	31-198-013	31-198-014
3000mm	90mm	20mm	31-198-015	31-198-016

INCH SIZE

LENGTH	WIDTH	THICKNESS	ORDER NO.	
			GRADUATED	NON-GRADUATED
12"	1-13/32"	11/64"	32-198-001	32-198-002
24"	1-13/32"	11/64"	32-198-003	32-198-004
36"	2-13/32"	7/32"	32-198-005	32-198-006
48"	2-13/32"	7/32"	32-198-007	32-198-008
72"	3-5/32"	9/32"	32-198-009	32-198-010

ADJUSTABLE ANGLE GAUGE

- 0–60°Adjustable angle by locking the hex screw.
- Special steel, hardened and fine ground.
- Vee angle : 90°.
- Squareness:0.0004" /0.01mm.



METRIC SIZE	ORDER NO.	INCH SIZE	ORDER NO.
25X32X75mm	31-134-001	1-3/16"X1-3/16"X4"	32-134-001
30X48X102mm	31-134-002	1-13/16"X1-13/16"X4"	32-134-002
46X48X102mm	31-134-003	1"X1-1/4"X3"	32-134-003

ELECTRONIC DIGITAL LEVELS

- Multi-functional dital level,360° protractor and inclinometer instant LCD display of level,tilt,true vertical or any angle in between floating Zero.
- Provides zero selection anywhere within its 360° range.
- Hold button freeze display reading for convenient out of sight measurements.
- Reset plus self-calibration modes.
- High-impact machined aluminum frame.

Specification:

- measuring range 360° (4x90°)
- resolution:0.1°
- accuracy:0-10°±0.1
- 11-79°±0.2°
- 80-90°±0.1°
- size 6"x1.2"x1.9" (150x30x48mm)

ORDER NO. 30-310-001



ELECTRONIC BEVEL DISPLAY DEVICE FOR POWER TOOL

- Attach measuring plane of the device to the worktable.
- Press Zero button to set zero position.
- Take the worktable as base plane.

Attach measuring plane of the device to the surface of saw blade, the readout is the angle of saw blade relative to base plane.



ORDER NO. 30-316-001

ANGLECUBE WITH BUILT-IN BLUETOOTH

- Absolute 0° at sea level.
- 3 side magnets.
- IP54 Dust and Moisture protection.
- Precision Digital level sensor.
- Large crystal easy-to-read LCD display.
- With built-in Integrated Bluetooth transmission.

ORDER NO.30-400-090



360° DIGITAL LEVEL PROTRACTOR WITH BUILT-IN BLUETOOTH

- Alloy contractor body and alloy surfaces.
- Strong Magnetic Base.
- Digital level sensor.
- Presicion lapping.
- With built-in Integrated Bluetooth transmission.
- Tilt range: 0°-90° X4.
- Resolution:0.05°.

ORDER NO. 30-400-095



LASER TAPE MEASURE

- Laser wavelength:: 650nm
- Laser power: ≤1mw
- Laser class : 2
- laser cross precision :±0.2°
- Work temperature: 0°C-40°C
- Storage ambient temperature: -10°C-70°C
- Battery voltage:3v DC(AAA 1.5v x 2)
- 3M tape measure (Metric/Imperial)
- Laser cross line direct

ORDER NO. 30-400-100



NEW ANGLE FINDER

- Measuring angle, length (metric and inch) by one tool.digital display at valuable cost.a great new tools for wood working, welding, home improvement and machinest.resolution: 0.1degree, measuring length: 200mm.with locking funcnction. setting funcnction on button. battery included.

ORDER NO. 30-333-001



DIGITAL MITER GAGE

- Replace your old miter gauge with this new digital display miter gauge for your woodworking.quickly and accurately adjust to positive stop at right/ left angle you want. fully steel construction. measuring range: +/-85degrees. Zero setting at any position. magnetic blade attachment for blade to table squaring and angle adjustment.



ORDER NO. 20-238-002

DIGITAL LEVEL GAUGE

- With large LCD display.
- ON/INC/ABS/OFF key and HOLD/LIGHT key
- Liquid filled bubble levels
- Aluminium extrusion with thermoplastic components and anodized finished
- Resolution:0.1°
- Accuracy: 0.2°
- Measuring range: 0-360°
- Alkaline battery: 1.5V*2
- Backlight: Blue
- Size: 400*50*20mm
- Overall dimensions:21mm X 50mm H X 416mm L
- Shipping weight: 330g.

ORDER NO. 30-248-002



2 IN 1 DIGITAL ANGLE METER AND SPIRIT LEVEL

- Angle accuracy: ±0.5° Spirit level measure range: 0° 359.9°
- Level accuracy: ±0.2° Angle/level resolution: 0.1°
- Auto Power off , Data Hold , Backlight , Two lines display on LCD screen.
- Size: 278×52×23.7mm;
- Additional Features:- Self-calibration of zero adjustment
- -Gravity acceleration sensor for accuracy reading.



ORDER NO. 70-001-A05

4PCS/SET SMALL HOLE GAUGES

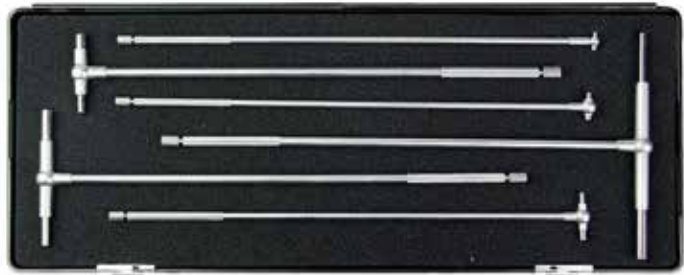
- Measure inside diameters or widths of small holes and grooves from 1/8" to 1/2" .
- Heat treated and precision ground tool steel.
- A companion to telescoping gages.



INCLUDE:
A(0.125" – 0.200"), B(0.200"- 0.300")
C(0.300"- 0.400"),D(0.400"- 0.500")
full ball type: **ORDER NO. 32-143-S01**
half ball type: **ORDER NO. 32-143-S02**

6PCS/SET TELESCOPING GAUGES

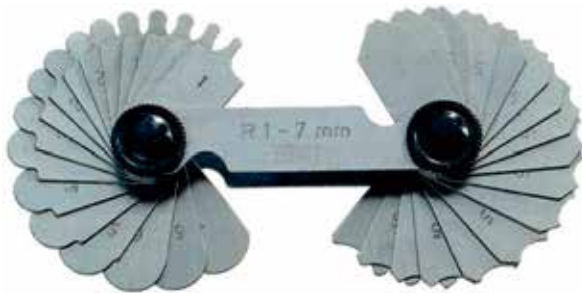
- Self centering feature for quick measurement of inside diameters of holes and widths of slots with a micrometer.
- Bothe gaging ends hardened and ground to a radius.
- Satin chrome finish.



SIZE	ORDER NO.
8-12.7,12.7-19,19-32,32-54,54-90,90-150mm, handle length: 100mm	31-142-S01
5/16"-1/2",1/2"-3/4",3/4"-1-1/4", 1-1/4"-2-1/8",2-1/8"-3-9/16",3-9/16"-6",handle length:4"	32-142-S01
8-12.7,12.7-19,19-32,32-54,54-90,90-150mm, handle length: 300mm	31-142-S02
5/16"-1/2",1/2"-3/4",3/4"-1-1/4", 1-1/4"-2-1/8",2-1/8"-3-9/16",3-9/16"-6",handle length: 12"	32-142-S02

RADIUS GAUGE

- For testing of raised and recessed curves.
- With fine cutted forms.



METRIC SIZE

RANGE	STEP	LEAVES		ORDER NO.
		CONVEX	CONCAVE	
1.0-7.0mm	1.0-3.0:0.25mm	17	17	31-144-001
	3.0-7.0:0.5mm		17	
7.5-15.0mm	7.5-15:0.5mm	16	16	31-144-002
15.5-25.0mm	15.5-20:0.5mm	15	15	31-144-003
	20-25:1mm		15	

INCH SIZE

RANGE	STEP	LEAVES		ORDER NO.
		CONVEX	CONCAVE	
1/32"-1/4"	1/64"	15	15	32-144-001
17/64"-1/2"	1/64"	16	16	32-144-002
17/32"-1"	1/32"	16	16	32-144-003

RADIUS GAGE SET(METRIC & INCH)

- For testing of raised and recessed curves.
- Matt chrome finish.
- Each blade with 5 measuring points.

METRIC SIZE

RANGE	NO.OF GAGES	ORDER NO.
WITH holder 0.5-7mm by 0.5mm 8-15mm by 1mm	22piece	31-149-S01
WITH holder 0.5-13.0mm by 0.5mm	26piece	31-149-S02

INCH SET

RANGE	NO.OF GAGES	ORDER NO.
WITH holder 9/32" to 1/2" by 32nds	8piece	32-149-S01
WITH holder 9/16" to 1" by 16ths	8piece	32-149-S02
WITH holder 1-1/16" to 1-1/2" by 16ths	8piece	32-149-S03
WITHOUT holder 9/16" to 1" by 16ths	8piece	32-149-S04
WITHOUT holder 0.550 to 1" by 0.05"	10piece	32-149-S05
WITH holder 1/64" to 17/64" by 64ths	17piece	32-149-S06
WITHOUT holder 0.02" to 1" by 0.500"	19piece	32-149-S07
WITH holder 0.02" to 1" by 0.500"	19piece	32-149-S08
WITH holder 1/64" to 17/64" by 64ths & 9/32 to 1/2 step by 32ths	25piece	32-149-S09
WITH holder 0.010" to 0.500"	26piece	32-149-S10



SCREW PITCH GAUGE

- For internal and external measurements of threads.
- With fine cutted threads.



METRIC SIZE

NUMBER OF BLADES	CHECKING RANGE	ORDER NO.
14	Ø.35- 3mm ,THREAD ANGLE: 60°	31-145-001
20	0.4- 6mm , THREAD ANGLE: 60°	31-145-002
16	0.25- 2.5mm , THREAD ANGLE: 60°	31-145-003
18	0.5- 7.0mm , THREAD ANGLE: 60°	31-145-004
28	0.25- 2.5mm , THREAD ANGLE: 60°	31-145-005
18	0.4- 7.0mm , THREAD ANGLE: 60°	31-145-006
24	0.25- 6.0mm , THREAD ANGLE: 60°	31-145-007
25	0.25- 2.5mm , THREAD ANGLE: 60°	31-145-008

INCH SIZE

NUMBER OF BLADES	CHECKING RANGE	ORDER NO.
22	4-48TPI,THREAD ANGLE: 55°	32-145-001
10	13-40TPI,THREAD ANGLE:60°	32-145-002
30	4-42TPI,THREAD ANGLE: 55°	32-145-003
30	4-42TPE,THREAD ANGLE:60°	32-145-004
52	4-62TPI,THREAD ANGLE: 55°	32-145-005
51	4-84TPI,THREAD ANGLE:60°	32-145-006
30	6-60TPI,THREAD ANGLE:60°	32-145-007

METRIC & INCH COMBINED SCREW PITCH GAUGE

- A mix set for both metric and imperial testing.
- With fine cutted threads.



SIZE	ORDER NO.
52pcs/set(include metrica 60° 0.25-6inch withworth 55°,4-62)	30-145-001
58pcs/set(include metrica 60° 0.25-6inch whitworth 55°,4-62and GAS 55°.8-28)	30-145-002

29°ACME SCREW THREAD GAUGE

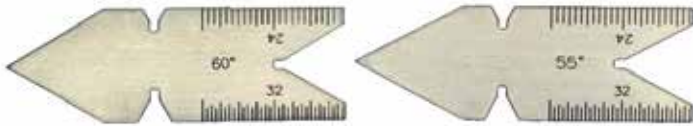
- For grinding & setting tools when cutting Acme threads whose sides have an inclination of 14-1/2°.

ORDER NO. 30-245-001



CENTER ANGLE GAUGE

SIZES	ORDER NO.
ISO METRIC 60°	30-146-001
WHITWORTH 55°	30-146-002
U.S STANDARD 60°	30-146-003



18PCS ANGLE GAGE SET

- Stainless steel material.
- Each gage checks primary, 1/ 2 primary and complimentary angles.
- Quick and accurate inspecion of angle and I.D or O.D chamfers in or out of the machine.

ORDER NO. 30-246-S01



WIRE GAUGE

- For gaging non-ferrous wire and metal such as copper, brass etc.
- Hardened and tempered tool steel material.
- 3-1/4" diameter,1/8" thick.



ORDER NO. 32-269-001

THREAD MEASURING WIRE GAUGE

- 48pcs/set,16 different sizes for all 60°threads.
- Measures all thead from 3-48 TPI and metric from 0.5-6mm pitch. 3wires each size,with around 3" (75mm)length.

ORDER NO. 30-150-001



LONG LENGTH FEELER GAUGE (500-1000MM)

- Fixed by a metal ring.
- For adjusting the valves at narrow spaces and difficult to reach position.



NO OF BLADE	RANGE BLADE THICKNESS	LENGTHO	RDER NO.
13	0.05-0.10-0.15-0.20-0.25-0.30-0.40-0.50-0.60-0.70-0.80-0.90-1.00mm	1000mm	31-151-037
20	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.80-0.85-0.90-0.95-1.00mm	500mm	31-151-038

METRIC SIZE FEELER GAUGE
(THICKNESS GAUGE)

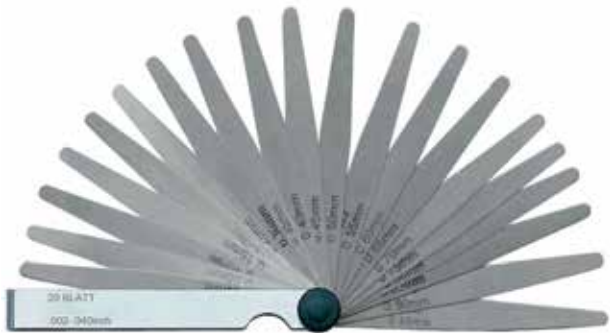
- For thickness measuring between narrow slots and for automotive and engine industry.
- Hardened spring steel, conical shaped blades.
- Nickel plated case with lock nut.



NO.OF BLADE	RANGE(mm) FEELER BLADE THICKNESS	ORDER NO.FOR				
		75MM LENGTH	100MM LENGTH	150MM LENGTH	200MM LENGTH	300MM LENGTH
6	0.10-0.15-0.20-0.28-0.30-0.40	31-151-001				
9	0.04-0.05-0.06-0.07-0.08-0.10-0.15-0.20-0.30	31-151-002				
11	0.03-0.04-0.05-0.06-0.07-0.10-0.15-0.25-0.30-0.40-0.50		31-151-003	31-151-004	31-151-005	31-151-006
12	0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35-0.40		31-151-007	31-151-008	31-151-009	31-151-010
13	0.02-0.02-0.03-0.03-0.04-0.04-0.05-0.05-0.06-0.07-0.08-0.09-0.10		31-151-011	31-151-012	31-151-013	31-151-014
13	0.05-0.10-0.15-0.20-0.25-0.30-0.40-0.50-0.60-0.70-0.80-0.90-1.00		31-151-015	31-151-016	31-151-017	31-151-018
14	0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.4-0.50-0.75-1.0		31-151-019	31-151-020	31-151-021	31-151-022
14	0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50		31-151-023	31-151-024	31-151-025	31-151-026
17	0.02-0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.40-0.50-0.75-1.00		31-151-027	31-151-028	31-151-029	31-151-030
17	0.02-0.03-0.04-0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50		31-151-031	31-151-032	31-151-033	31-151-034
20	0.05-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50-0.55-0.60-0.65-0.70-0.75-0.80-0.85-0.90-0.95-1.0		31-151-035			
21	0.02-0.02-0.03-0.03-0.04-0.04-0.05-0.05-0.06-0.07-0.08-0.09-0.10-0.15-0.20-0.25-0.30-0.35-0.40-0.45-0.50		31-151-036			

INCH SIZE FEELER GAUGE

- For thickness measuring between narrow slots and for automotive and engine industry.
- Hardened spring steel, conical shaped blades.
- Nickel plated case with lock nut.

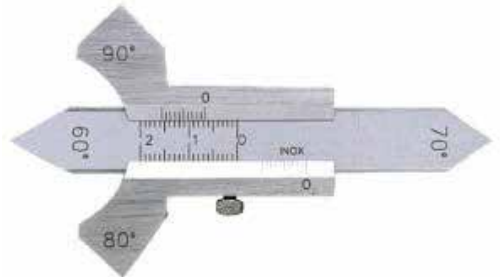


NO OF BLADE	RANGE BLADE THICKNESS	LENGTHO	RDER NO.
9	.002-.003-.004-.005-.006-.008-.010-.015-.020	3"	32-151-001
9	.002-.003-.004-.006-.008-.012-.013-.020-.025	3"	32-151-002
12	.008-.010-.012-.013-.014-.015-.016-.018-.019-.020-.025-.026	4"	32-151-003
15	.002-.003-.004-.005-.006-.008-.011-.012-.013-.014-.016-.018-.020-.022-.025	3-1/2"	32-151-004
8	.002-.003-.004-.006-.008-.010-.012-.015	6"	32-151-005
26	.0015-.002-.0025-.003-.004-.005-.006-.007-.008-.009-.010-.011-.012-.013-.014-.015-.016-.017-.018-.019-.020-.021-.022-.023-.024-.025-.026-.028-.030-.032-0.035	3-1/2"	32-151-006
32	.0015-.002-.0025-.003-.004-.005-.006-.007-.008-.009-.010-.011-.012-.013-.014-.015-.016-.017-.018-.019-.020-.021-.022-.023-.024-.025	3-1/2"	32-151-007
16	.010-.012-.013-.015-.016-.017-.018-.020-.022-.024-.025-.026-.028-.030-.032-.035	1-1/2"	32-151-008

WELDING SEAM GAUGE

- For measurements of flat welding seams and in corner etc.
- With angle gages 60°,70°,80°and 90°.
- Made of hardened stainless steel.
- Satin chrome plated reading surface.

ORDER NO. 31-178-901



CAM TYPE WELDING GAUGE

- Suitable for measuring of depth of undercut, excess weld metal (cappingsize), fillet leg length, fillet weld throat size ,angle of preparation(0–60 degree) and misalignment.
- This gage is intended for general dimensional inspection of welded fabrications where close tolerances are not expected.
- It should not be compared in precision with gages used for measuring machined components and where highest degree of accuracy is required, where extremely precise.
- Measuring instruments preferably electronic or digital must be used.

ORDER NO. 30-291-001



WELD FILLET GAUGE

- Permits quick and accurate measuring of the most popular weld fillet sizes in inch :1/8"-1" and Metric :3.2–25.4mm.
- All Sizes and numerals are etched into the surface for clarity and easier reading.
- Welding gages are intended for general dimensional inspection of welded fabrications where close tolerances are not expected.
- They should not be compared in precision with gages used for measuring machined components and where highest degree of accuracy is required where extremely precise measurements are required.
- Machine shop precision measuring instruments, preferably electronic or digital must be used for measuring of convex weld and concave weld.

ORDER NO. 30-290-001



WELDING GAUGE

- Made of stainless steel and is characterized by portable and compact structers, easy to operate and wide application.
- Suit for measuring the height, bevel angle, width ,gap and undercut depth of weldment.

ORDER NO.	31-284-001	31-284-002	ACCURACY
Thickness of Weldment	40mm	40mm	0.2mm
Height of flat and fillet weld	12mm	20mm	0.2mm
Thickness of fillet weld	15mm	15mm	0.2mm
Width of weld seam	40mm	-	0.3mm
Bevel angle of Weldment	90-150°	0-60°	30'
Undercut depth of weld seam	0-5mm	-	0.1mm
Gap Size	0.5-5mm	1-3mm	0.1mm



ORDER NO. 31-284-001



ORDER NO. 31-284-002

4PC WELDING MEASURING TOOL SET

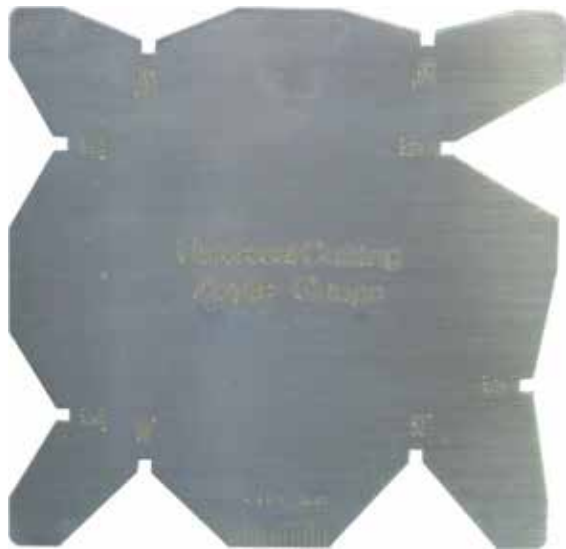
- 1PC Welding Gauge
 - *Stainless steel, fan shape,
 - *quantity of blades 12,3-12mm
- 1PC Welding Seam Gauge
 - *stainless steel,hardened and fine ground, withvernier reading, scale matt chromed, with fixing screw
- 1PC Precision welding Gauge
 - *stainless steel, hardened and fine ground,reading through a window by a reference line
- 1PC Pipe welding gauge
 - *with opposite movable measuring jaws, for pipe welds up to 35mm wall thickness,
 - *stainless, hardened
 - *reading 1.0mm



ORDER NO. 31-053-009

UNIVERSAL CUTTER POINT ANGLE GAUGE

- Features:
- Easily verifies the angles of the top point of all kinds of drills, chisels and countersinks.
 - Properly sharpened drill bits save time and money.
 - Let the UNIVERSAL CUTTER POINT ANGLE GAGE be your guide to a perfectly sharpened drill bit every time. End the guess work when sharpening drill bits.
 - The angles include : 60°,82°,90°,118°,120°,135°,150°, 160° Accuracy: ±0.5°
 - Made of Stainless steel, polished
 - Thickness: 1.0 MM
 - Size: 80X80 MM
 - Packed in plastic pouch.



ORDER NO. 10-011-005

STAINLESS STEEL RULER

- Made of stainless spring steel.
- Flexible version, non glare and matt surface.
- Lazer graduation for clear reading.



SIZE	DIMENSION	WEIGHT	ORDER NO.
150mm/6"	175X15X0.6mm	15g	30-052-901
300mm/12"	335X25.4X1.0mm	60g	30-052-902
500mm/20"	540X30.5X1.2mm	120g	30-052-903
600mm/24"	640X30.5X1.2mm	130g	30-052-904
1000mm/40"	1047X35X1.5mm	450g	30-052-905

ALUMINIUM RULER WITH ADJUSTABLE SCALE INDICATION

- Ideal for drawing.map distance calculation. model making etc.
- Total length: 300MM.
- with 6scale .1/2.5,1/5,1/10,1/20,1/50,1/100. adjustment.



ORDER NO. 30-323-001

STAINLESS STEEL INSIDE GAUGE

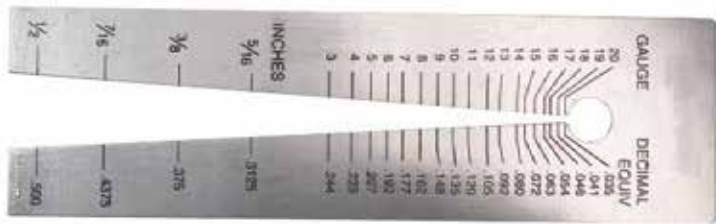
- Easy to measure inside diameter etc.
- Measuring range:(metric:3-30mm,inch: 1/ 8" -1-1/4" .
- Graduated on each side.



ORDER NO. 30-199-901

STAINLESS STEEL OUTSIDE GAUGE

- Easy to measure outside diameter etc,
- Measuring range: metric:1-13mm,gage:
- 20-0.5" on one side,and gauge:20--1/ 2" , decimal equiv:0.035--0.5" on another side.



ORDER NO. 30-199-002

45°ANGLE SQUARE

- A precisely machined combination of both 90° and 45° in stainless steel.
- The base is 6 1/4" long, 1/2" width and the height 4".
- A scale is provided in either inch or metric graduations on both the 90°edge and the 45°edge.
- Both scales are set to measure the vertical distance for convenience when laying out a workpiece.

ORDER NO. 32-288-001



PRECISE PRISMATIC GAUGE

- Made of stainless steel.
- This precise Prismatic square has a 1/2" wide by 4 1/2" long base allowing it to be hooked against the edge of stock when marking mitres, or stood upright for accurately setting machine fences, blades and tables.

ORDER NO. 32-289-001



ALUMINUM COMBINATION SQUARE

- For quick depth adjustment, and used as a protractor, rafter square and combination square.
- 10" (250mm).X7-1/4" (180MM)X7-1/4" (180MM).

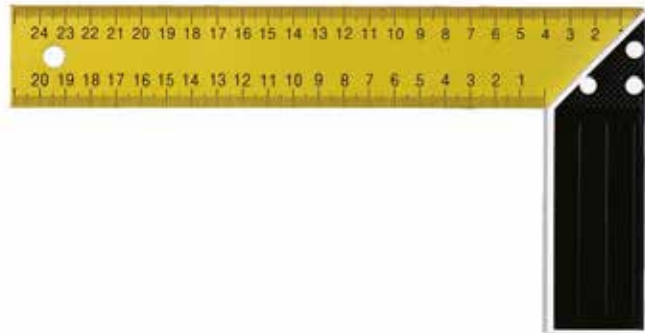
ORDER NO. 30-155-001



YELLOW PAINTED SQUARE

- For general carpentry use.

SIZE	DIMENSION
6"/150mm	30-152-001
8"/200mm	30-152-002
10"/250mm	30-152-003
12"/300mm	30-152-004
14"/350mm	30-152-005



ALUMINIUM LEVEL SQUARE

- With hardened aluminium blade.

SIZE	DIMENSION
6"/150mm	30-153-001
8"/200mm	30-153-002
10"/250mm	30-153-003
12"/300mm	30-153-004



2PCS/SET COMBINATION SQUARE

12" /300mm : ORDER NO. 30-154-001



CONTOUR GAUGE

- Duplicate shapes and contours easily.
- Measuring range: 5" /130mm.

ORDER NO. 30-044-001



DIGITAL MEASURING WHEEL

- Max measuring range: 99999.9M, with the metric system transformation function.
- Diameter of wheel: 318mm.
- Accuracy: ±0.5%.
- Display resolution: 0.1m.
- Power: 3V(2*AAA batteries).

ORDER NO. 31-251-002



4PCS WOODWORKING KITS SET WITH DRILL GAUGES

- A must tool for all woodworking craftsman covering most measuring job.
- New bamboo handle for steady longworking life and classic out-looking.

INCLUDING:

- square with bamboo handle 250mm/10".
- t-bevel with bamboo handle 200mm/8".
- 45/135° angle square with bamboo handle 200mm/8".
- carpenter's pencils.

METRIC

With seven drill gauges:
3,4,5,6,8,10,12mm

ORDER NO. 31-354-006

With ten drill gauges:
3,4,5,6,7,8,9,10,12,13mm

ORDER NO. 31-354-007

INCH

With seven drill gauges:
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2"

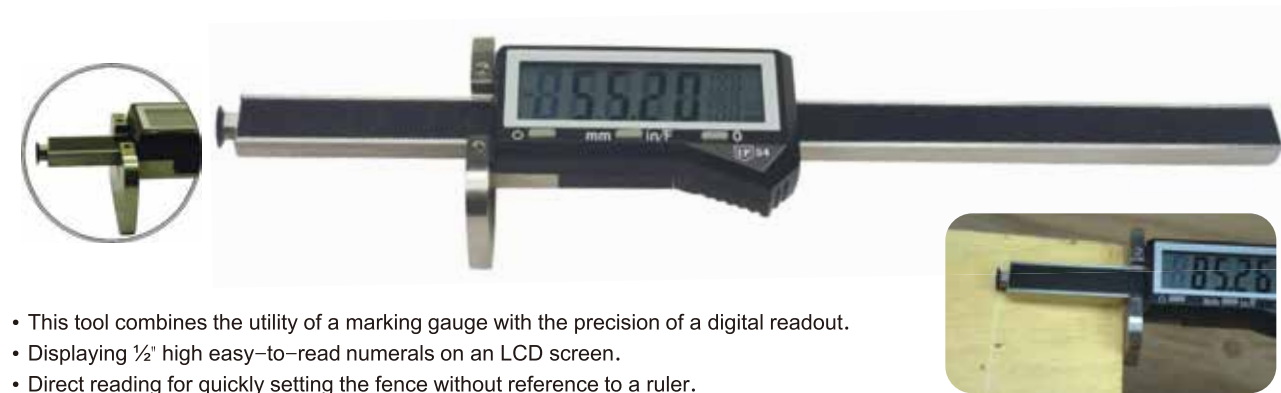
ORDER NO. 32-354-006



**NEW
PRODUCT**



DIGITAL MARKING GAUGE



- This tool combines the utility of a marking gauge with the precision of a digital readout.
- Displaying 1/2" high easy-to-read numerals on an LCD screen.
- Direct reading for quickly setting the fence without reference to a ruler.
- Set zero at any point, eliminating the need to make calculations for differential measuring.
- Readings are given in fractional inches, decimal inches and millimetres (to 1/64", 0.0005" and 0.01mm; accurate to 0.001").
- Doubles as a depth/height gauge and can be used for direct measurement transfer.
- The 3/8" diameter hardened steel cutting wheel scribes a fine line, even on cross grain.
- Helpful for chisel registration and to prevent tear-out when sawing.
- The wheel's single-sided bevel also pulls the gauge face against the stock, helping to maintain accuracy.
- For protection in storage, the wheel retracts into the fence.
- Stem and fence are both hardened stainless steel.
- The 2"x 1-1/4" fence face is machined for reliable reference, and the stem is graduated to 6" by 16ths, and in metric to 150mm.
- The display shuts off automatically after a period of inactivity to preserve battery life.
- Button-cell battery included.

ORDER NO. 70-036-002

WHEEL MARKING GAUGE

- Simple, yet effective marking gauge has a single bevel wheel that scribes a fine line without tearing the wood fibers.
- Material of body: copper
- Material of blade: HSS, Hardness of blade : 59-63
- Material of lever cap: stainless steel
- Material of handle: bubinga
- Degree of blade cutting edge: 2.5 degree of blade with sole: 45 degree
- Weight: 400g
- Size: 180mm*45mm*45mm.



ORDER NO. 70-036-001

STEP GAUGE FOR TABLE SAW

- Just place the step gauge over the saw blade and raise the blade until it contacts the height you want, make precision table saw bit.



ORDER NO. 22-188-001

STEP GAUGE FOR ROUTER

- Aluminium router gauge to set consistent router bits depth.
- Measures in 1/16" increments.



ORDER NO. 22-149-001

DIGITAL DEPTH GAUGE

- Horizontal and vertical measuring for hand routers and router tables.
- 60mm wide aperture & accurate to 0.1mm.
- Measuring rule with locking screw.
- Digital display for easy reading.
- Self-standing for setting cutter depth on routers tables and low profile for back fence adjustment.
- Measuring range 80mm (3-1/8").
- Resolution: 0.05mm/0.002".
- Accuracy: 0.1mm/0.004" (100mm).
- Repeatability: 0.05mm/0.002".
- Max. measuring speed: 1.5m/s.



ORDER NO. 30-034-005

STAINLESS STEEL POCKET CALIPER

- Inside & outside reading. Decimal equivalents on back.
- Measuring range: 0-100mm (0-4") .



ORDER NO. 30-190-001

4" (100mm) SOLID BRASS CALIPER

- Inside and outside graduation in 32nds and metric measurements.
- Solid brass material.

ORDER NO. 30-041-001



ALUMINIUM CALIPER

- Made of aluminium.
- SIZE: 150X0.05mm/6" X1/128" .

ORDER NO. 30-040-001



METAL CALIPER

- Economical type with inside and outside jaws and full length depth gage.

SIZE: 150X0.05mm/6" X1/128"

ORDER NO. 30-039-001



5 DIGIT RATCHET COUNER

FEATURES:

- One count per 45° stroke of shaft lever.
- 4 holes on base for rigid mounting.
- Reset knob-button.
- Dimensions: 1-1/4" H x 2-1/4" L x 1-3/16" W.
- Spring attached to lever for attaching to machines.

ORDER NO. 30-118-001



HAND COUNTER

- 4 Digital counter.
- 2" high x 1-3/4" wide.
- Chrome plated.
- Finger ring for convenient.

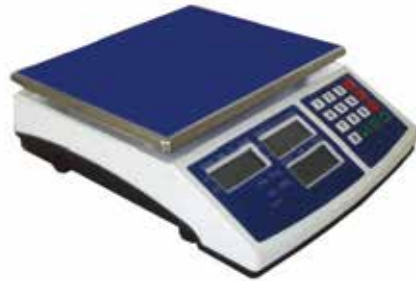
ORDER NO. 30-118-002



DESK ELECTRONIC COUNTING SCALE

Features:

- 1.Rechargeable accumulator inside, you can use the scale during recharging.
- 2.Auto zero-setting when switch on the scale.
- 3.Auto zero-tracing.
- 4.Switch among weighing, counting, percentum. Function of choosing Weight range.
- 5.Power supply: AC 220V (±10%) / 50 Hz, 110V/60HZ, DC 6V / 4Ah (Rechargeable accumulator inside).
- 6.Working temperature range: 0 °C ~ +40 °C /
7. Relative humidity: ≤ 85 % RH



MODEL	CAP.(kg)	GRADUATION(d)	DIVISION(g)	ORDER NO.	MODEL	CAP.(kg)	GRADUATION(d)	DIVISION(g)	ORDER NO.
JCS-3A	3	6000	0.5	31-270-001	JCS-15A	15	6000	2.5	31-270-005
		30000	0.1	31-270-002			30000	0.5	31-270-006
JCS-6A	6	6000	1	31-270-003	JCS-30A	30	6000	5	31-270-007
		30000	0.2	31-270-004			30000	1	31-270-008

PLATFORM ELECTRONIC COUNTING SCALE

Features:

- 1.Rechargeable accumulator inside, you can use the scale during recharging.
- 2.Auto zero-setting when switch on the scale.
- 3.Auto zero-tracing.
- 4.1~100 times of accumulating.
- 5.Power supply: AC 220V (±10%) / 50 Hz, 110V/60HZ, DC 6V / 4Ah (Rechargeable accumulator inside).
- 6.Working temperature range: 0°C ~ +40°C
- 7.Relative humidity: ≤85 % RH



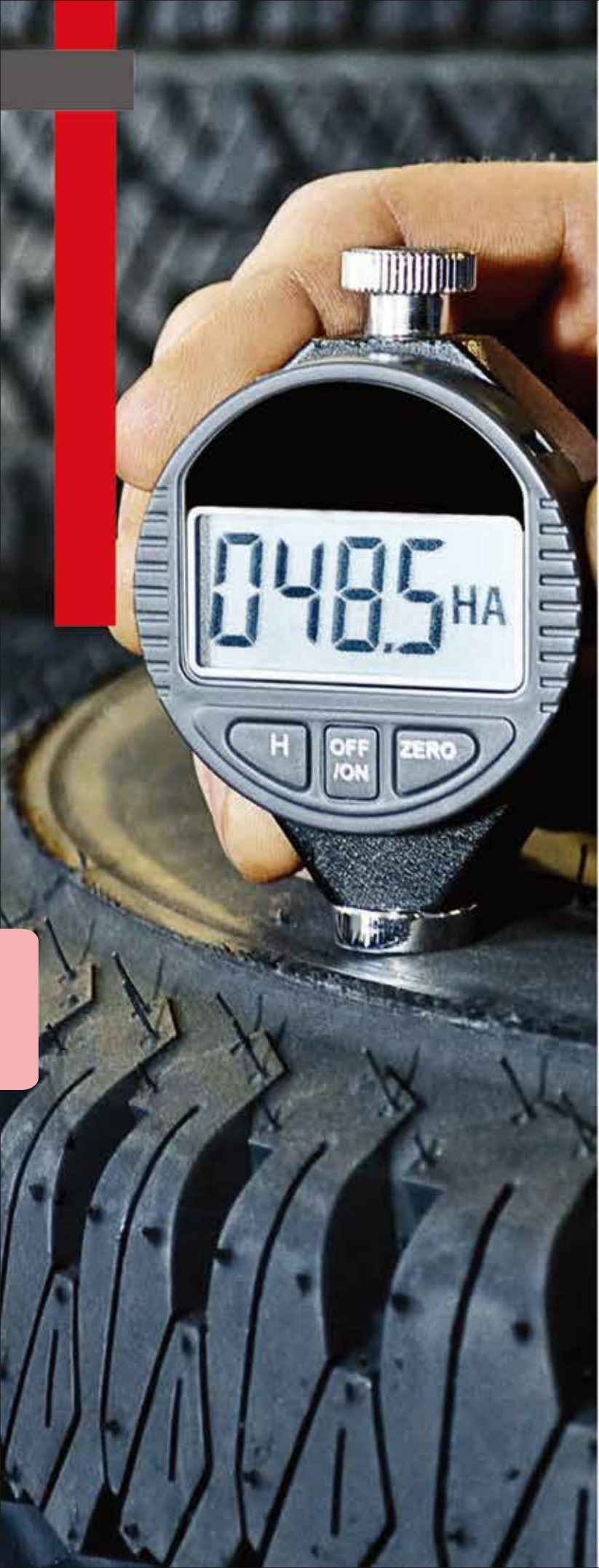
MODEL	CAP.(kg)	GRADUATION(d)	DIVISION(g)	PLATFORM	ORDER NO.
JCS---60A	60	6000	10	450*600mm	31-271-001
		30000	2		31-271-002
JCS---150A	150	6000	25		31-271-003
		30000	5		31-271-004
JCS---300A	300	6000	50	600*600mm	31-271-005
		30000	10		31-271-006
JCS---600A	600	6000	100		31-271-007
		30000	20		31-271-008

DIGITAL MULTIPURPOSE SCALE

- Universal weighing scales for weighing game, fish or bulky items
- Compact and sturdy design, tough plastic housing with stainless steel shackle and s-hook
- Capacity: 0.1 to 200 kg in 50 g steps (additional units: stone (st) or pound (pd))
- Easy to read LCD display
- With 100 cm measuring tape
- Ambient temperature display and tare function
- Automatic switch off after 2 minutes
- Dimensions: 16 x 8 x 3.9 cm (L x W x H)
- Splash water proof – IPX4
- Including batteries and Phillips screwdriver
- Packaging: blister with 4C header card



ORDER NO. 30-379-015



HARDNESS TESTER

DIGITAL HARDNESS TESTER

- Portable device, rugged plastic housing, front plate made of rugged polyamide.
- Large LED display for clear and easy reading.
- ON/OFF button and data hold button for one-hand-use.
- Shore A C D available.
- Shore A: for testing the hardness of soft rubber, printer roller and other elastomer material.
- Shore C: for testing the foam, sponge, shoes with incorporates material, etc.
- Shore D: for testing the hardness of hard rubber, such as thermoplastic plastic, bowling, plastic floor and so on.



	ORDER NO.
Shore A	30-252-D05
Shore C	30-252-D010
Shore D	30-252-D015



Shore A

Shore D

Shore C

MICRO HARDNESS TESTER

- Ideal used for measuring the hardness distribution of heat treated parts and the hardness of very small parts, plating layers, semiconductors and various new materials. you can fix a photographic device onto the upper part of the tester, a clear picture of impress can be taken at any time due to it with two object lens: one for measurement(X40) and another for objection(X10) and employ a turret switching system, an indenting position can be accurately determined.

TECHNICAL DATA:

- Test load(N)
- 0.098/0.246/0.49/0.98/1.96/2.94/4.90/9.80(10gf--1000gf)
- Loading mechanism: Automatic loading and releaig method
- Magnification of microscope: For measurement: X400(object lens 40 X eyepice 10); For observation: X 100(object lens 10 X eyepiece 10)
- Load holding time: 5--60 seconds.
- Max measuring length: 150 μ m
- Min measuring unit: 0.5 μ m
- Max. height of specimen: Approx 65mm
- Max. depth of specimen: approx 85mm
- Micro test table: Dimension: 100x100mm,
- Max movement: 25mm in X & Y axis.
- Min. micro graduation: 1/100mm
- Digital data display: 5HV~25000HV
- Photographic device: Possible to moust at any time
- Dimensions of tester: W290xD450xM480mm
- Tester weight: 25Kg

ORDER NO. 31-267-001



DIGITAL DISPLAY ROCKWELL HARDNESS TESTER

- Suitable to determine the Rockwell hardness of ferrous, non-ferrous metals and non-metal materials. It can be widely applied in the Rockwell hardness testing for heat treatment materials, such as quenching, hardening and tempering, etc.

- Feature & Use:
- Optimized mechanical frame, automatic testing process, large LCD digital display
 - RS232 data interface
 - It's steady and reliable for testing of curved surface
 - Precision conforms to the Standards of GB/T 230.2, ISO 6508-2 and ASTM E18

Specifications:
 Measuring range: 20-88HRA, 20-100HRB, 20-70HRC
 Test force: 588.4, 980.7, 1471N (60,100,150kgf)
 Max. height of test piece: 210mm
 Depth of throat: 165mm
 Unit for display: 0.1HR
 Power supply: 220V AC or 110V AC, 50 or 60Hz
 Dimensions: 522 x 220 x 729mm
 Weight: approx. 68kg

Standard accessories:
 Large flat anvil: 1 pc.
 Small flat anvil: 1 pc.
 V-notch anvil: 1 pc.
 Diamond cone penetrator: 1 pc.
 1/16" steel ball penetrator: 1 pc.
 Rockwell standardized block: 5 pcs.
 Printer: 1 pc.

ORDER NO. 30-161-003



SHORE A RUBBER/FLEXIBLE MATERIAL HARDNESS TESTER

- Measuring range:0-100.
- Blunt taper 35°.

ORDER NO. 30-252-001



SHORE DUROMETER A STYLE

- Designed for testing various rubber, elastomers and plastic products.
- It is feature portability, ease of operation, with facility, high resolution character
- Test range: 0-100 HA
- Available test range: 10-90 HA
- Dimension: 115x60x25mm
- Stroke:2.5 mm
- Tip dimension: 0.79mm
- Net weight: 0.5kg



Single needle



Double needle

ORDER NO. 30-252-002

SHORE DUROMETER D STYLE

- An essential characteristic of various hard rubber, colophony ,glass ,print board, fiber and so on.
- It is feature portability, ease of operation, with facility, high resolution.
- Capacity: 0-100 HD.
- Available test range: 20-90 HD.
- Tip stroke: 0-2.5 mm.
- Stroke: 2.5mm.
- Tip dimension: SR 0.1mm.
- Net weight: 0.5kg.



Single needle



Double needle

ORDER NO. 30-252-003

SHORE DUROMETER C STYLE

- An essential characteristic of various foam, sponge and so on.
- It is feature portability, ease of operation, with facility, high resolution.
- Capacity: 0-100 HW.
- Available test range: 10-90 HW
- Dimension: 115x60x25mm
- Stroke: 2.5mm
- Tip dimension: SR 2.5mm
- Net weight: 0.5kg



Single needle



Double needle

ORDER NO. 30-252-004

ROCKWELL HARDNESS TESTER

FEATURES:

- This hardness tester is used for detemining Rockwell hardness of hard alloys. quenched and unquenched steels.
- The high quality casting and fine craftsmanship ensure accurate, consistent readings.

SPECIFICATIONS:

- Maximum load..... 150 kg (1471N)
- Load range..... 60,100,150,kg(588.4N,980.7N,1471N)
- Initial range load.....10 kg (98.07N)
- Maximum test height..... 108m/m(4-1/4")
- Depth of throat.....135m/m(5-1/4")
- Maximum depth of spindle below base..... 50m/m(2")
- Size of base.....180×465m/m(7" -18")
- Machine height..... 630m/m(24-1/2")
- Weight (approx).....65 kg (150lbs)

STANDARD ACCESSORIES:

- Large testing table• 450m/m(5-3/4")..... 1pc.
- Small testing table φ 62m/m(2-3/8").....1pc.
- v-block anvil φ 58(2-3/16")..... 1pc.
- Diamond penetrator 120°.....1pc.
- Steel ball penetrator 1/16"1pc.
- Replacement steel ball 1/16"5pcs.
- Rockwell A standard test block.....(HRA 80~88)..... 1pc.
- Rockwell B standard test block.....(HRB 85~95)..... 1pc.
- Rockwell C standard test block.....(HRC 60~70)..... 1pc.
- Rockwell C standard test block.....(HRC 35~55)..... 1pc.
- Rockwell C standard test block.....(HRA 20~30)..... 1pc.
- Screwdrivers.....2pcs.
- Level adjusting leg..... 3pcs.
- Accessory box.....1pc.
- Dustpro of plastic cover.....1pc.
- Operation manual..... 1pc.

ORDER NO. 30-161-001



INTEGRATED PORTABLE HARDNESS TESTER



ORDER NO. 30-253-001

NOTE:

- Hardness scales:HRC,HRB,HRA,HV,HB,HS & HL
- Combined impact device & digital display—No CABLES.
- Integrated universal impact device D Measures in any direction
- Real time printing or batch printing
- It is suitable for testing the hardness of all metals ,and widely applied in many areas of industry
- It automatically computes all Vickers,Brinell,Rockwell,or Shore hardness values, The impact direction can be set so that accurate values can be achieved at any angle. Even up-side down. Statistical mean value is automatically provided.
- When the tester is connected to its associated printer it can perform real time printing or batch printing.

TYPICAL APPLICATIONS:

- In suit testing of large and/or heavy components, items already installed as parts of a machine
- During manufacture, especially of mass produced components
- In the stores for material identification
- In locations with difficult access, or in confined spaces
- For quality control in general,fast and very accurate.

SUPPORT RINGS:

- On curved surfaces having a radius of under 30mm.effective positioning on the workpiece is facilitated by the use of support ring (set of 7).
- The appropriate support ring is screwed on to the end of the impact device in place of the standard flat support ring , The set includes support rings suitable for bar/tube and grooves up to a radius of 11mm .
- Special support rings for convex or concave surface can be manufactured.

TECHNICAL DATA:

- Size:150X22X53mm
- Impact device: D
- Impact energy:11Nmm
- Test tip: Tungsten Carbide
- Measuring accuracy: mean uncertainty ±0.8% (Corresponding to ±1 HRC at HRC=58)
- MAX.hardness of sample:980 HV
- Weight:130g
- Operating time: 8 hours continuous use/rechargeable
- Impact direction: any angle
- Operating temperature: 0 to 50℃
- Min. Weight of sample: 5kg(less than 5kg to 0.1kg coupled on solid support)
- Min. Thickness of sample: 5mm (coupled:3mm)
- Min. Thickness of layers: 0.8mm
- Min. Radius of curved surface: 30mm (with support ring: 11mm)
- Coupling paste is available for testing thin or small parts weighing less than 2kg

PORTABLE HARDNESS TESTER

Features:

- Advanced Leeb hardness model with in-build thermal printer.
- Automatic identification of Impact devices.
- High performance rechargeable Li battery, intelligent charging management.
- Optional Software to connect with PC, Support data query, storage, statistics and histogram display and other functions.
- Upper and lower limit and sound alarm.
- Large LCD, showing all functions and parameters.
- Direct display of hardness scales HRB, HRC, HV, HB, HS, HL.
- For all metallic materials.
- Test at any angle, even upside down.
- Wide measuring range.
- Six Impact Devices are available for special application.
- Battery low indication and sound alarm.

ORDER NO. 30-253-002



TECHNICAL SPECIFICATION:

Hardness scale	HL, HRC, HRB, HRA, HV, HB, HS	Min. Workpiece weight	2 ~ 5kg on stable support 0.05 ~ 2kg with compact coupling
Memory	373 ~ 2688 group (Impact times:32 ~ 1)	Min. Workpiece thickness	5mm (Impact Devices D/DC/DL/D+15) 1mm (Impact Device C) 10mm (Impact Device G)
Measuring range	HLD(170 ~ 960), HRA(59 ~ 85), HRB(13 ~ 100), HRC(20 ~ 68), HB(19 ~ 651), HV(80 ~ 967), HS(30 ~ 100)	Min. thickness of hardened layers	0.8mm
Tensile strength U.T.S. range	374 ~ 2652 Mpa	Power	Rechargeable Li Battery, 7.4V, Li(1500mAh)
Accuracy	• 6HLD (760±30HLD) error of displayed value 6HLD (760±30HLD) repeatability of displayed value	Continuous Working time	About 300h, (without backlight)
Standard Impact Device	D	Charging time	4 ~ 5 hours
Data Interface	USB 2.0	Operating temperature	0 ~ 40°C
Optional Impact Devices	DC / D+15 / G / C / DL	Humidity	• 90%
Max. Workpiece Hardness	996HV(For Impact Devices D / DC / DL / D+15 / C) 646HB(For Impact Device G)	Overall dimensions	212 × 80 × 35 mm
Min. Radius of Workpiece (convex/concave)	Rmin = 50mm (with special support ring Rmin = 10mm)	Weight	320g

STANDARD DELIVERY:

Main unit	Table support for main unit
In-build Printer	Connecting cable
Impact Device type D	Company certificate
Test block HLD	Instruction manual
Charger	Dataview Software
Brush	

OPTIONAL ACCESSORIES:

Optional impact devices
Optional support rings
Other test blocks

LEEB HARDNESS TESTER



- Measuring Materials: All Metals.
- The measuring materials can be user-defined. steel and cast steel, alloy tool steel, stainless steel, gray cast iron, nodular cast iron, cast aluminum alloy, copper zinc alloys (brass),an alloy of copper and tin, copper (bronze), forged steel.

Function & Feature:

- New design, test all metal materials with high precision.
- Testing materials can be user-defined.
- Easily switch to all hardness parameters(HL、HB、HRB、HRC、HRA、HV、HS).
- Large LCD color screen with WINDOWS menu operation.
- High brightness LED back-light,convenient in the dark.
- Automatically identify the 7 types of impact devices, replacing without recalibration.
- Limit alarm setting if measuring data is beyond the limit.
- Low power consumption: Auto sleep,automatic shutdown function of saving energy.
- Rechargeable Li-ion battery, standby time 150 hours.

ORDER NO.	30-401-001
MEASURING RANGE	•470-960)HLD,(17.9-69.5)HRC,(19-683)HB,(80-1042)HV,(30.6-102.6)HS, (59.1-88)HRA,(13.5-101.7)HRB
HARDNESS PARAMETER	HL,HRC,HRB,HRA,HS,HB,HV
ACCURACY	Within±0.3%(HLD=800)
DISPLAY	Color LCD with back-light
MEMORY	600 groups
PC CONNECTION	Available
PRINTER	No
BATTERY	Rrchargeable Lithium Battery
OPERATING TEMPERATURE	-20 +60
DIMENSIONS	129Ü68Ü25mm
SHELL	Plastic
IMPACT DEVICE TYPE	D,DC,DL,D+15,G,C,E
WEIGHT	230g
STANDARD DRLIVERY	Main unit, Impact Device type D, Operation manual, Power charger, Small supporting ring, Cleaning brush, Certificate, USB cable, calibration block.
OPTIONAL ACCESSORIES	Impact DC, D+15, DL, G, E, Shaped supporting ring

PORTABLE SURFACE ROUGHNESS TESTER



ORDER NO. 30-164-001

NOTE

- Easy to operate menu software.
- 13 different roughness parameters.
- Detector stylus position indicator.
- Auto-off after 5 minutes with auto-store.
- Display languages: English, German, French , Italian, Spanish and Dutch language.
- Data output Rs232 to printer Ta220 or PC.
- Excellent battery power with Li-Ion technology.

TECHNICAL SPECIFICATIONS

- Roughness parameters:Ra,Rz,Ry,Rq,Rt,Rp,Rm,R3z,S,Sm,Sk,tp
- Assessed profiles: Primary profile(P),Roughness profile (R)tp curve (material ration Mr)
- Porfile recording:Vv:200×--20000× Vh:20×50×200×
- Magnification Standard: Conform ISO/DIN/JIS/ANSI
- Measuring system: Metric μm, imperial μinch
- Display resolution:0.001μm/0.04 μinch
- Display:LCD128 ×64 dot-matrix,with backlight
- Dimensions of LCD:50×30mm screen

Display features:	Detector stylus position indicator	Data output:RS-232 : direct to printer TA220 or PC
	Battery level indicator	Range: Ra,Rq:0.01-40μm
	Direct display of parameters and profiles	Rz,Ry,Rp,Rt,R3Z:0.02-160μm
	Direct printing	Sm,S:2-4000μm
	LCD brightness adjustment	tp: 1-100(%Ry)
	Auto-off after 5 minutes with auto-store	
	Calibration through software(each cut-off)	

Cut-off length: 0.25mm/0.8mm/2.5mm
Evaluation length Ln: 1-5 cut-off
Tracing lenth Lt: (1-5 cut-off)+ 2 cut-off
Digital filter: Rc,PC-RC,GAUSSIAN,D-P
Detector: Standard model TS100,inductive,Diamond
tip radius 5μm

Bores from diameter : 6.0mm, depth 15mm(TS100)
Power : Li-Ion battery rechargeable
Battery capacity : 1000mAh(>3000 measurements)
Charger : 220V/110V,50Hz
Working temperature : 5-45℃
Dimensions : 141mm×56mm×48mm
Weight : 440g

DIGITAL SURFACE ROUGHNESS TESTER

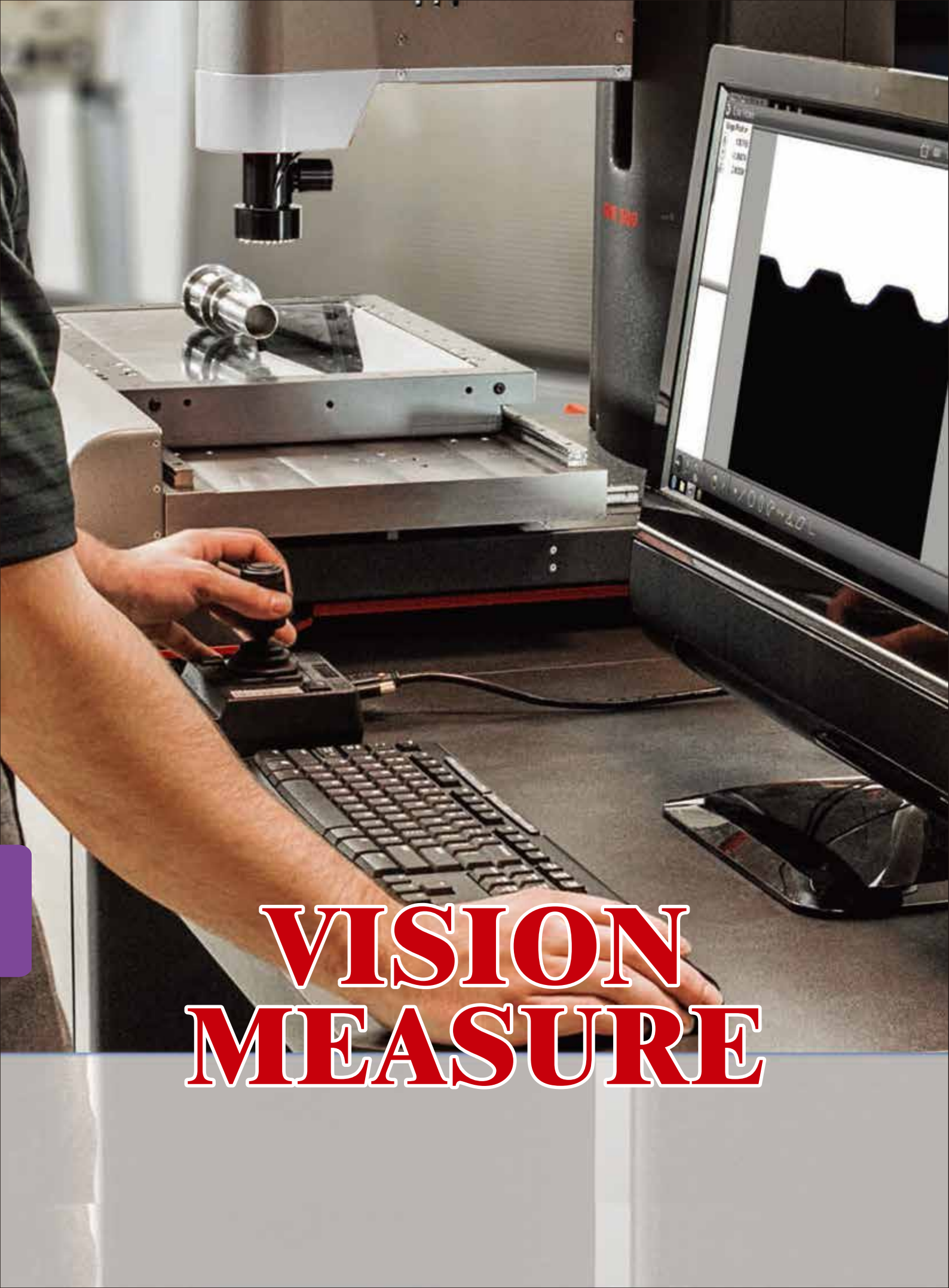


ORDER NO. 30-164-002

FIRST DEBUT! NEW PRODUCT

Testing parameters	Variability
Ra, Rz, Rq, Rt, Rp, Rv, R3z, R3y, RzJIS, Rsk, Rku, Rsm, Rmr, Rx;	• 6%
Measuring range (um)	Data Storage
Ra: 0.005-16.000 Rz: 0.02-160.00	100 groups
Sample length (mm)	Power
0.25, 0.80, 2.50	Rechargeable li-battery
Evaluation length(mm)	Working temperature
•4-5)L	-20• • 40• •
Maximum drive stroke	Relative humidity
17.5mm/0.7inch	• 90%
Indication accuracy	Size
0.001	158mmx63.5mmx46mm
Indication error	Weight of Host
• ±7-10)%	0.3kg

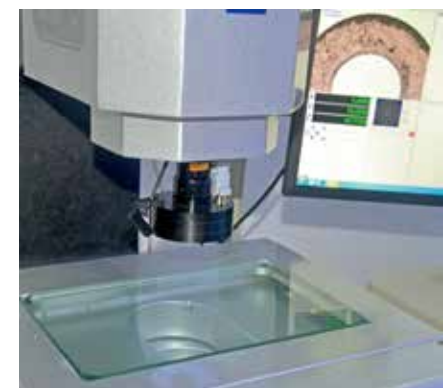
- *Electro mechanical integration design, small volume, light weight, easy to use;
- *Using DSP chip to control and data processing, high speed, low power consumption;
- * 128 x 64 OLED dot matrix display, digital / graphic display; highlight no perspective;
- *Intuitive and rich display information, can display all the parameters and graphics;
- *Compatible with ISO, DIN, ANSI, JIS national standards;
- *Residual quantity icon, prompting the user to charge;
- *Continuous working time: more than 20 hours.
- *Real-time clock settings and display, convenient data recording and storage.
- *With automatic dormancy, automatic shutdown and power saving function
- *Reliable control motor to go dead circuit and software design
- *Measurement information display, menu prompt information, false information and switch machine and other tips that information;
- *Can be connected to a computer and printer;
- *Optional different sensor, measuring platform, mini printer, extension rod and other accessories.
- *Plastic shell, inspired by "TRANSFORMERS" stylish design, portable, high reliability.
- *Optional bluetooth function.
- *High price performance.



VISION MEASURE

HIGH ACCURACY SEMI AUTOMATIC VISION MEASURING DEVICE

- Less Error Within 2um.
- High Accuracy $\leq 3+L/200mm$.
- High Resolution 700TVL Color CCD.
- Measurement Software iMeasuring 2.2.
- Product Characteristic.
- High precision marble base and pillar to ensure high stability and accuracy.
- High precision toothless rod and fast moving locking device to ensure hysteresis error is within 2um.
- High accuracy A grade optical linear scale with precision working stage to ensure the accuracy is within $3+L/200um$.
- High definitive detented zoom lens and high resolution color digital camera, to ensure clear image without distortion.
- With programmable surface 4-ring 8-division LED Cold Illumination and contour LED parallel illumination and internal intelligent light adjustment, it can automatically control the brightness in the 4-ring 8-division.
- Z-axis equipped with high accuracy linear guide and servo motor control system, realize auto focus measurement, and eliminate the human focus error, enhance measurement accuracy and stability.
- Powerful function iMeasuring2.2 Measuring Software, highly enhance the quality control.
- Optional FexQMS Measuring Data Analysis and Real-time monitoring software which enhance program control and reduce material consumption.



ORDER NO.	30-402-001	30-402-002	30-402-003	30-402-004	30-402-005
METAL TABLE	408×308mm	408×308mm	458×358mm	608×470mm	708×470mm
GLASS TABLE	306×198mm	306×198mm	356×248mm	456×348mm	556×348mm
X/Y-AXIS TRAVEL	200×100mm	250×150mm	300×200mm	400×300mm	500×300mm
Z-AXIS TRAVEL	High-precision linear guide and servo motor control system, working travel 200mm				
X/Y-Z-AXIS TRAVEL	0.0005mm				
X/Y-AXIS ACCURACY	•8+L/200(um)				
ILLUMINATION SYSTEM (SOFTWARE ADJUSTMENT)	Surface: Stepless Adjust table 4-ring 8-division LED Cold Illumination, every division can be adjusted independently				
	Contour: LED Parallel Illumination				
	LED Laser Navigation Lights				

HYSTERESIS ERROR	2um
BASE AND PILLAR	High Accuracy Jinan Qing Marble
CCD Camera	High Resolution 700TV Color CCD Camera
Zoom lens	High Resolution 700TV Color CCD Camera
	Magnification : *
Working Environment	Temperature : *
	 *
	 *
Measuring Software	iMeasuring 2.2
Operation System	Support XP : *
Language	 *

PROFILE PROJECTOR

- surface and contour illumination:24V/150W.
- Effective diameter range:306mm.
- Table size:340x150mm.
- Magnification:10x(lens of 20xmagnifications available on request).
- Optical accuracy:0.08%.output:RS232.
- Weight:100kg.

ORDER NO. 31-255-001



BIOLOGICAL ZOOM MICROSCOPE

- For electronic industry,educational and geological field.
- 45° Inclined head 360° . Rotational with reasonable system for easily viewing.
- Eyepiece WF10X,zoom objective 5x--30x.
- Working distance:8mm.
- Illumination power 220V/15W or 110V/15W.

TECHNICAL DATA:

- Viewing head:monocular(45°).rotatable(360°)
- Eyepiece:WF 10X
- Objective:zoom objective:5x--30x
- Stage:plain stage with slide clips,stage size:125x120mm
- Focusing:coaxial coarse and fine adjustment.range 13mm,
- Division of fine focus adjustment:0.002mm
- Condenser:Abbe condenser NA1.25 with iris diaphragm & filter,spiral adjustment for condenser
- Illumination:Halogen lamp 6V/15W
- Optional accessories:eyepiece:P5x,P15x,Demonstration head,
- Halogen lamp.

ORDER NO. 31-256-001



PRECISION STEREO MICROSCOPE

Sharp stereo erect image over a wide field view.45°inclined and 360° rotational binocular head with locked-in eyepiece.

- The left ocular tube with diopter adjustment +/-5dp.
- The interpupillary distance is 55-75mm.
- Three kinds of 90° .rotational objective selection:1x/2x,1x/3x,2x/4x.
- With arm curved style stand.
- *CE" approved electric parts.
- Power supply: 110V/60HZ or 220V/50HZ.

TECHNICAL DATA:

Eyepiece:WF10x.Objective:2x-4x.
Plate:frosted glass.
Illuminator:incident light and transmitted light.

OPTIONAL ACCESSORIES:

Eyepiece:WF5x,WF10x,WF15x,WF20x.
Objective:1x,2x,3x,4x.
Darkfield stage:94.5mm
Jewel tweezer
White/black working plate:59.9mm and 94.5mm
Frosted glass working plate: 94.5mm
Incandescent bulb:12V/10W
Halogen bulb:12V/10W
Ring fluorescent lighting 8W & 10W

ORDER NO. 31-258-001



LONG WORKING DISTANCE STEREO MICROSCOPE

- Sharp stereo erect image over a wide field view.
- The left ocular-tube with diopter adjustment 5 dp.
- The interpupillary distance is 55-75mm.
- Dovetail inserted style objective with locked-in device ensures easy replacement.
- Power supply 110V/60HZ or 220V/50HZ.
- With attached illumination AC12V/10W or DC 6V/6W.

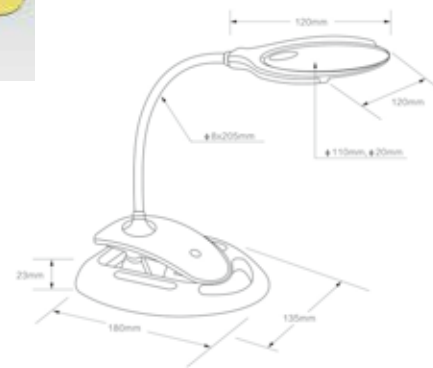
OPTIONAL ACCESSORIES:

Eyepiece:WF5X(22mm dia.),WF10x(20mm dia.)
Objective:0.5x(250mm),1x(230mm)
Incandescent bulb:12V/10W

ORDER NO. 31-257-001



Have two-way fixed ways, new style



LENS SIZE	MAGNIFICATION	LED	POWER	LUMINACE	LUX	ORDER NO.
110mm,20mm	3D,8D	6PCS	0.5W	30Lm	120Lux	31-259-003
Life of LED	Adapter	Lithium Cell	Switch	Conector	color temperature	
25000h	DC5V	400mAh	Capacitive touch with Dimmer	Micro-USB	6000K	

A large, adjustable desk lamp with a circular light head and a long, articulated arm. The lamp is white and silver, with a black power cord. It is positioned on the right side of the page, with its arm extended towards the center.

- 3 diopter glass lens 5" (127mm).and 32" (81mm) reach.
- Extension arm.with 110V/60HZ or 230V/50HZ 22w.

ORDER NO. 31-259-001

- Great to check the small size with inside measuring.
- Scales: 0–20mm with 0.01mm reading.
- Magnification: 10x, field: 24mm.

ORDER NO. 30-260-001

AUTO AND OTHERS



BRAKE ROTOR GAUGE WHEELS ON CALIPER

Professional choice to measure the rotor without removing the wheel

- FEATURES:
- Easy to check rotor with or without wheel on.
 - Large easy to read LCD display.
 - Solid hardened stainless steel body with precision lapping finish for smooth travel and solid hardened stainless steel tips.
 - Hold function for easy recording of measurement.
 - Measure Range : 0–80MM/ 0–3.2".
 - Reading : 0.01MM/0.0005"/ inch fractional.
 - Accuracy: ±0.02MM/0.001".
 - Repeatability:0.02MM/0.001".
 - Auto–Power–Off.
 - IP 54.
 - Measuring Jaw Depth: 1.1".
 - Inch, Metric & Inch Fraction Reading.
 - Battery : 3V Cr2032.



ORDER NO. 30-299-S18

NISC BRAKE DIGIAL CALIPER

- Professional Grade Electronic Brake Rotor Gauge to measure the depth of grooves on the disc brake.
- Manual power on/off .
- Zero setting at any position.
- With data output interface.



Specification: 0–100x0.01mm/0–4x0.0005"

ORDER NO. 60-299-002

ELECTRONIC BRAKE DRUM GAUGE



- Digital brake drum gauge makes user easily measure drums.
- 4" to 20"/100 to 500mm capacity.
- Inch/Metric conversion.
- Resolution: .0005"/.01mm , accuracy: ±0.06mm/±0.003".
- Beam has Vernier scale to double check reading.
- Can be used to check some disc measurements.
- Other features include thumb lock and RS 2032 capability.
- Includes wooden case.

ORDER NO. 60-017-002

DRUM AND ROTOR MEASURING ATTACHMENT KIT

- Drum and Rotor Kit features:
- Measures disc brakes and up to 12"/300mm.
 - Includes:
 - 1 set of clamps.
 - 4 sets of set screws.
 - 1 Allen wrench.
 - 1 set of 3 3/4" contact points.
 - 1 set of 3/4" cone contact points .
 - 1 set of 3/4" flat contact points in plastic tube.
 - When measuring brake drums only, add 8" to measurement.
 - Allows for long cone & jaw widths.
 - For use with 6" & 8" calipers.
 - Packed in wooden box for well organization.



ORDER NO.30-026-S05

DIGITAL BRAKE ROTOR CALIPER

- Features and Benefits:
- Brake Rotor Gauge measures wear dimension of the brake rotors (Range: 0" – 6")
- Resolution:0.01mm/0.0005"/1/64" .Accuracy:±0.03mm/0.0015"
- Zero setting any position
- Metric/Inch/Fraction system interchange at any position
- It's manual power on/off switch allows for quick and easy start.
- Also includes the data out put interface.
- Measures break Rotors and ball joints .
- 6 – 150MM length, 3–1/2 throat depth.
- This rotor gauge comes stored in a case so it's safe and secure.



ORDER NO. 60-299-001

DISC BRAKE VERNIER CALIPER

- Checking the state of the brake discs is a valuable contribution to safety on the roads.
- Stainless steel calliper suitable for accurate measurement of brake disc thickness, Floating jaw assembly enables easy removal of calliper from disc while retaining reading
- Measure range:0–60mm ,Metric scale with 0.1mm graduations.



ORDER NO. 60-298-001

DIAL INDICATORS & MAGNETIC BASE SET

- The dial indicator with magnetic base is a mechanics specialty tool that has an on and off switch to control magnetic pull.

- Indicator features:
 - 1" travel – continuous reading
 - AGD group 2; 2-1/4" dial diameter
 - Revolution counter
 - Lug back mount Magnetic base features:
 - 60kg. pull strength
 - On/off switch
 - Fine adjustment



ORDER NO. 31-274-001



NON-CONTACT INFRARED THERMOMETER

- The heat seeker is widely applied for measuring temperature in the automobile, the electric power, the chemical industry, the food processing and so on measure the surface temperature at a safe distance

Features:

- 8:1 optical resolution
- laser target pointer
- OF or OC selectable
- Range: -40 to 605°F (-200 to 320°C)
- Accuracy: +/- 4°F (2°C)
- Auto power off

ORDER NO. 60-302-001



IR TERMOMETER/LEAKAGE FINDER COMBINATION

Four colors backlight, Different colors help easily indicating the Heatleakage Point.

FEATURES:

- Great for measuring temperature in the automobile, the electric power, the industry and environment
- 4 colors backlight to indicate thermo leak by deviation setting;
 - White color: Setting the temperature
 - Green color: The temp. is in the range of deviation.
 - Blue color: The temp. is below the range of deviation.
 - Red color: The temp. is above the range of deviation.
- Measurement Range: -40°F to 1004°F/428°F (optional) (-40°C to 540°C/220°C optional)
- Measurement Accuracy: ±2%;
- Distance Spot Ratio: 12:1;
- Emissive: fixed at 0.95;
- Response time: 0.5 seconds;
- °C/°F selectable;
- Three ranges of leak difference exchange:
 - ±0.5°C, ±3.0°C, ±5.5°C
 - ±1°F, ±5°F, ±10°F
- LCD Display with backlight;
- Auto Power off, Backlight shut off: no action in 15s;
- Laser Targeting
- CE, ROHS, REACH, PAHS approved

BEST SELLER

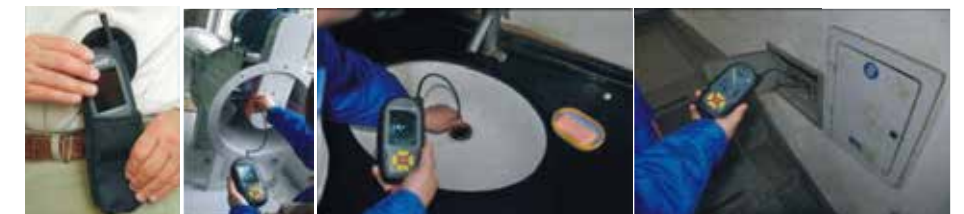


ORDER NO. 30-293-015

PALM VIDEO SCOPE

Features:

- Viewable angle: 60°;
- Visible distance: 2.5cm~30cm;
- Probe length: About 60cm and can be taken in body.
- Image display: 2.7" TFT/LCD; Image rotation: 180°;
- Power supply: 4 pcs of AAA alkaline (not included);
- Sling and handy pouch included;
- Standard package: double blister
- Size of Ctn(cm)/ pcs : 66.5x38.5x31 N.W./G.W.(kgs) : 5.5/6.5



ORDER NO. 20-373-005

MULTIFUNCTION VIDEO INSPECTION

• It is widely applied for maintenance of the industry,the building, the aviation, the vehicles also easy to inspect the pick up samll objects,record image.

- Application:
- 3.5" color LCD with high visibility
 - Diameter of cameral head choice(12mm,9mm and 5.5mm)
 - Flexible probe with memory
 - Fully adjustable LED lights
 - With function of taking photos,video,rotation,partial zoom,
 - TF memory card and USB interface
 - The monitor can apart from the grip to transmit image wirelessly
 - Four wireless trequency for your choice
 - Several accessories included(magnetic tip, hook tip,mirror tip.etc)
- NOTE:maqnetic tip,hook tip,mirror tip accessories not for 5.5mm cameral head.



- 5.5mm ORDER NO: 60-300-001
- 9mm ORDER NO: 60-300-002
- 12mm ORDER NO: 60-300-003



USB WIRELESS VIDEO INSPECTION

- Widly applied for maintenance of the industry, the building, the aviation,the vehicles,also easy to inspect and pick up small objects. With the disc driver, we can receive the image signal by the laptop see.
- Diameter of camera head for choice(12mm,9mm and 5.5mm)
- Flexible probe with memory
- Fully adjustable Led lights
- USB interface to read image
- Wireless transmission image between the grip and the Usb INTERFACE
- Four wireless frequency for your choice
- Several accessories included(magnetic tip,hook tip, mirror tip,etc)



ORDER NO: 60-300-001



VIDEO INSPECTION

BEST SELLER

- 9 mm camera with one meter long extendable tube.
 - Manufactured and tested at waterproof Ip67.
 - Use 4 AA Dry battery for power.
 - 3 useful tools : 1pc magnet mirror and 2pcs hooks.
 - Picture reverse.
 - Adjustable Led lights.
 - Extensionable camera.
 - TV out
 - Certificate: CE, ROHS, REACH
- Function:
- Picture reverse: yes
 - led adjustment : yes

- Camera and Tube Specification:
- Camera Out Diameter: 9.00 mm
 - Image Sensor: 1/9" Cmos Sensor
 - Camera Resolution: 640(H)x480(V)
 - Tube connector Fix ed connector
 - Insertion Tube Length: 10cm
 - Frame Rate: ~30 fps
 - Field of View (FOV): 53 degree
 - Depth of Field (DOF): 3cm ~ 7cm
 - Light Source: 4 led lights
- System Specification:
- Power: AA battery *4 pcs
 - Working Hours 3.5 hours
 - LCD Resolution: 960x240 pixels
 - Video Out Format: NTSC



2.4"TFT Color LCD Digital zoom IN/OUT : No
ORDER NO.20-373-205

2.7" TFT Color LCD Digital zoom IN/OUT : Yes
ORDER NO.20-373-210

THERMAL IMAGING CAMERA

Thermal Imaging Camera can blend the visible and infrared images
Resolution of infrared image:3600 pixels
Resolution of visible image: 0.3 mega pixels
Range of temperature measurement: -20°C to +300°C
Accuracy of temperature measurement: ±2% or ±2°C(±2% or ±4°F)



- Technical Specification:
- Display screen : 2.4" full-angle high resolution color screen
 - Field angle/shortest focal distance : 20x20/0.5m
 - Thermal sensitivity : 0.15°C
 - Emissivity Adjustable : 0.1-1.0
 - Image capturing frequency : 6Hz
 - Range of wave length : 8-14um
 - Focal distance : Fixed focal distance
 - Color palette : Iron red, rainbow, rainbow high contrast, gray scale(white glow) and gray scale(black glow)
 - Vision option : 25% step infrared to visional to infrared and visional image
 - Memory card : Mini SD card

- File format: bmp
- Power supply: AA battery * 4
- Battery life: 6 hours
- Auto power-off time: 12 minutes
- Authentication: CE
- Dimension of product (L*W*H): 212mm*95mm*62mm
- Weight: 320g
- Operating temperature: -5°C to ±40°C
- Storage temperature: -20°C to ±50°C
- Relative humidity: 10% RH to 80% RH

ORDER NO.30-293-030

DIGITAL DEPTH GAUGE

- Ideal for checking tyres, brake shoes and hole depths.
- Clear LCD display, 0.01mm resolution.
- Metric and imperial modes.
- Measuring range 0 – 25mm.
- Requires 1 x CR2032 battery (not supplied).

ORDER NO:60-333-001



DIGITAL TYRE GAUGE WITH FREE SNOW REMOVER/TYRE THICKNESS GAUGE

- CE APPROVED
- Digital tire gauge:range:0–100PSI(0–7.0Bar),LCD display:21x10mm,
- Power:CR2032 3V lithium battery(enclosed),
- Resolution:0.1PSI(0.01Bar),
- Operation temperature:–5~50C(23–122F)
- Free Tire thickness gauge: measuring rang 0–20mm(3/4”),easy to carry, with metric and inch scales,the red scale can help judge quickly if tire depth still on the safe level.
- Also used as snow remover.

ORDER NO. 30-295-001



CAR PAINT THICKNESS GAUGE

- The car paint thickness gauge with its integrated test sensor will answer these questions immediately, no matter whether the car is made from steel or aluminium.
- You can accurately test the paint thickness on both types of metal.
- 3 LEDs show any irregularities in the paint thickness.

ORDER NO. 30-163-105



BATTERY ACID AND ENGINE COOLANT REFRACTOMETER

- The refractometer measures the freeze point of automotive coolants (propylene glycol and ethylene glycol) from 32°F to –60°F.
- It also indicates the specific gravity of battery acid and provides a quick reference of battery charge condition.
- It only requires a sample of 2 or 3 drops for fast and accurate readings.
- Automatic Temperature Compensation provides repeatable results.
- Comes complete with storage case and a screwdriver and vial of distilled water used for calibration.

ORDER NO. 60-300-010



GLOW PLUG ANALYSER

- Enables fast diagnosis of glow plug failure or degradation without the need to disassemble the plug from the engine.
- Suitable for use on any 12V DC vehicle system and connects directly to the vehicle's battery.
- Features six LED read-out which indicates glow plug status and also whether battery contains enough charge to power the plugs.

ORDER NO. 60-027-001



OBDII DIAGNOSTIC HAND SCANNER

- Design to find and clean the engine fault codes.
- contains more than 9,000 error codes in English, German, Spanish, Dutch, French.
- Works with all cars built from 1996 onwards and which have an OBD II socket.
- Turn off's the Check Engine Light.
- View Vehicle Identification NO.
- View I/M Reading Status.

ORDER NO. 60-029-001



PROFESSIONAL OBD II SCAN TOOL

- An advanced OBD II & CAN code reader that supports all 10 modes of the OBD II protocol.
- This handy code reader uses next-generation OBD II technology to quickly diagnose engine problems using your vehicle's onboard computer.
- Easy-to-understand troubleshooting code tips help you get to the cause of trouble codes faster, saving time and money.
- Graphs data for 1996 and newer vehicles
- I/M Readiness Key for quick drive cycle verification and state emissions readiness check.
- Retrieves generic codes (P0, P2, P3, U0), manufacturer codes (P1, P3, U1) and pending codes.
- Provides Code/Cause/Solution tips for easier troubleshooting.
- Displays live 02 sensor data.
- Retrieves vehicle information (VIN, CIN and CVN).
- Views freeze frame data.



ORDER NO. 60-029-005

UNIVERSAL BELT TENSION GAUGE

- This tensioning gauge can be used to adjust the tension on the Cambelt where the movement of the timing belt is measured by load.
- Clear incremental marking with knurled knob for precise measurement."
- Suitable for belts of varying thickness.
- Dual scale allows reading from top or bottom of tool.



ORDER NO. 60-014-001

COIN TYPE SPARK PLUG GAUGE AND GAPPER

- Gauges and gaps all types of spark plugs from 0.020 to 0.100, 0.50mm to 2.53mm.
- Tapered edge for gauging spark plugs.



ORDER NO. 60-291-001

DIGITAL PHOTO TACHOMETER

- Measuring RPM is safe and accurate without attachment to object.
- It has wide measuring range and high resolution.
- The last value, max Value, min. Value will be automatically stored in memory and can be obtained by pressing MEMORY CALL BUTTON.

Display 5digit 18mmLCD
Range: 2.5~99999 RPM
Resolution: 0.1 RPM From:(2.5~999.9RPM)
1 RPM From:(above 1000RPM)
Accuracy: $\pm (0.05\% + 1 \text{ digital})$ of reading
Sampling Time: 0.8second (over 60RPM)
Range Select: Auto-range
Time Base: 6MHz Quartz crystal
Memory: Max. value, Min. value, Last value. Can store 96s data.
Detecting Distance: 50mm~500mm
Dimension: 155*70*35mm
Power: 3x1.5V AAA battery



ORDER NO. 30-266-001

ANEMOMETER

- Temperature measuring range: 0°C~50°C ;
- Air flow measuring range: 0.4 ~30.0m/s(80~5910ft/min);
- Temperature accuracy: $\pm 1.2^{\circ}\text{C}$;
- Air flow accuracy: $\pm (3\% + 0.2\text{m/s})$, $\pm (3\% + 40\text{ft/min})$;
- Air flow response time: <2s; Temperature resolution: 0.1°C ;
- Air flow resolution: 0.1m/s (1ft/min);



ORDER NO. 30-266-010

DIGITAL LUXMETER

- Display: 1999 counts. digit is 13mm high.
- Ranges: 0~2000Lux $\pm 5\%$, 2000~1999Lux $\pm 5\%$, 20000~5000Lux $\pm 5\%$.
- Data hold.
- Photo dectector: one silicon photo diode with filter.
- Photo dectector lead length: 150cm(approx.).
- Photo dectector size: 8x52x20.5mm.
- Power: 6F22(9v)x1.
- Size: 125.5x72x27mm
- Weight: approx. 180g(ORDER NO. 30-265-001 including battery).



ORDER NO. 30-265-001

NON-CONTACT MINI INFRARED THERMOMETER

- This device are design to take non-contact temperature measuring for Auto repairing, food preparation, life sciences, etc.
- Just Point and press button for quick accurate measurements.
- Digital LCD display Lock mode for continuous measurement
- Minimum and maximum value display
- Small size for easy to carry
- Battery status indication
- Distance: spot=1:1
- Automatic power off
- Temperature Range: -22oF-428oF/-30oC-220oC
- Resolution 0.1oF/oC
- 1PC 3V button cell(CR2032)



ORDER NO. 60-302-002

DIGITAL THERMOMETER

- For quick and exact measurement of the temperatures
- TWO K-TYPE

Rugged, ABS-plastic housing, with insulating peel
Large LCD display, 3-1/2 digit 18mm, with clear reading, with battery indicator
2 inputs for temperature probes type K, for temperature and relative measurements
On/off button, data hold button, measuring in °C and °F, max display 1999,
Range: -50°C~1300°C -58°F~1999°F
Measurement is selected by pressing
Max voltage input DC 60V AC 24V, response time approx. 2.5s,
Including 1x9v battery, with stand



ORDER NO. 30-264-105

RESOLUTION	RANGE	ACCURACY	RESOLUTION	RANGE	ACCURACY
1°	• 0.3%+2°	• 50° • 1200°	1	• 0.3%+2°	• 58 ~1200
	• 0.6%+2°	1200° • 1300°		• 0.6%+2°	1200 ~1999

DIGITAL THERMOMETER

Power Supply: 1*9V 6F22 Battery
Product Size: 125.5mm*72mm*27mm / 5.6"*2.8"*1.0"
Product Weight: 145g/0.30lb
Safety Rating: CE(EMC) RoHS

FEATURES:
Display: 2000 counts
Data Hold
Input: K-Type Thermocouples
Low Battery Display



ORDER NO. 30-264-001

RESOLUTION	RANGE	ACCURACY	RESOLUTION	RANGE	ACCURACY
	• 50° • 40°	typ. ±0.5°		• 58 ~4	
	• 39.9° • 20°			-3 ~32	
	• 19.9° • 0°			33 ~212	
	0° • 99.9°			213 ~302	
	100° • 119.9°				
	120° • 150°				

ULTRASONIC THICKNESS GAUGE

- Two display units: metric and imperial.
- Automatic calibration to zero: automatically correct the system errors.
- Automatic non-linear compensation: within the full range, computer software is used to correct the non-linear errors of the probe for the purpose of improving the accuracy.
- The upward and downward adjustment keys enable prompt selection of sound velocity, thickness, and check the thickness memory units.
- Prompt for coupling state: provide coupling indication and the observation of the stability of the indication can tell if the coupling is normal.
- Ten thickness values can be stored without loss after turn-off, which is very convenient for measuring in field and high platform.
- Measuring sound velocity: according to the test block's thickness, sound velocity can be measured directly needless to search in the conversion table.
- Sound velocity of five different materials can be stored.
- Low voltage indication.
- Automatic turn-off.
- All keys enclosed-----oil proof for longer service life.



ORDER NO. 30-163-140

ORDER NO. 30-163-141

Technical Specification :

Measuring range	1.2~225.0mm
Display type	4-digit LCD
Minimum display unit	30-163-140 • 0.1mm 30-163-141 • 0.01mm
Sound velocity range	1000m/s~9999m/s
Measuring error	±(1% + 0.1mm)
Power supply	9V 6F22 Battery
Power consumption	0.5W
Range of operating temperature	-20°C~50°C
Dimensions (mm)	50*25*20
Weight (g)	100

ULTRASONIC THICKNESS METER

- Used for measuring thickness and corrosion of pressure vessels, chemical equipment, boilers,oil storage tanks,etc.in industries of petroleum, shipbuilding,power station,and machine manufacturing.
- Wide Measuring Range and high resolution. With high power emission and broad band receiving sensitivity, the gauge can match probes of different frequencies. That makes it easy to measure the rough surface, even cast iron. It is widely used in almost all kinds of industries.
- Applicable to measure the thickness of many materials, e. g. Steel, Cast iron, Aluminum, Red copper, Brass, Zinc, Quartz glass, Polyethylene, PVC, Gray cast iron, Nodular cast iron.
- Used the exclusive Micro-computer LSI circuit and crystal time base to offer high accuracy measurement & fast measuring time.
- Using the latest high performance and low power consumption microprocessor technology.
- Automatic memory material code and sound velocity value, convenient to use.
- Use USB/RS-232 data output to connect with PC.
- Provide Bluetooth data output choice.

ORDER NO. 30-265-001



Technical Specification• •

Housing Material	Strong,Light Weight ABS-Plastic	
Display	4 Digit,10 mm LCD	
Measuring Range	1.0~200mm/0.04~8 inch	
Resolution	0.1mm	
Accuracy	±(0.5%n+0.05)	
Sound Velocity	500~9,990m/s	
Lower Limit of Pipes	Φ15x2.0mmΦ20x3.0mm Determined By Transducer	
• • • • •	• • • • •	0~40°C
• • • • •	• • • • •	<85%RH
• • • • •	• • • • •	
• • • • •	• • • • •	
• • • • •	• • • • •	

COATING THICKNESS GAUGE



- Features:

 - Integrated with F probe
 - Two working mode: direct and batch
 - 500 measurement values can be stored
 - Five statistical values: mean value (MEAN), maximum value (MAX), minimum value (MIN), testing number(NO.) and standard deviation (S.DEV)
- Print-out function, capable of printing out measured values and statistical values
 - Low battery indication
 - Buzzer prompt of operations
 - Error messages
 - With backlight
 - Switch off automatically or manually

ORDER NO.30-163-100

Probe Types F		F
Measuring methods Magnetic induction		Magnetic induction
Measuring range 0~1250μm		0~1250μm
Display resolution 0.1μm		0.1μm
Tolerance	Zero point calibration (μm)	± (3%H+1)
	Two points calibration(μm)	± [(1%~3%)H+1]
Measuring condition	Min.curvature radius(mm)	convexity 1.5 concave 9
	Min.testing area diameter(mm)	Ø7
	Critical thickness of substrate (mm)	0.5
Power AAA		1.5V Battery (2 pcs)
Working temperature		0~40• •
Dimensions (mm)		125×68×32
Weight (g)		132

PORTABLE VIBRATION METER

- It is widely used in machinery, power, metallurgy, automobile and other industrial fields.
- The vibration meter is designed to test conventional vibration, especially the vibration test in rotating and reciprocating machines.
- It can be used not only to test the acceleration, velocity, and displacement of vibration as well as rev (or inherent frequency), but also perform simple failure diagnosis.



ORDER NO. 30-165-003

Specifications:

Testing range(Metric)	Acce: 0.1 ~ 205.6 m/s2(peak) Velo: 0.1 ~ 400.0 mm/s(RMS) Disp: 0.001 ~ 9.0 mm(peak-peak)
Testing range(Imperial)	Acce: 0.01 ~ 20.98 g(peak) Velo: 0.01 ~ 15.75 in/s(RMS) Disp: 0.1 ~ 354.3 mil(peak-peak)
Freq range	Acceleration: 10Hz ~ 200Hz, 10Hz ~ 500Hz,10Hz ~ 1KHz, 10Hz ~ 10KHz Velocity: 10Hz ~ 1KHz Displacement: 10Hz ~ 500Hz
Frequency resolution	0.25Hz
Data memory	100 × 80 pieces of data and 100 spectrums
Software	Yes
Temp	0 ~ 40
Tolerance	±5%
Speed measuring range	30 ~ 300000 rpm corresponding to 0.5 ~ 5000Hz
Measuring distance	0.15 ~ 1m
Display	TFT 320×200 pixels with RGB
Data interface	USB
Overall dimensions	212×80×35
Printer	Integrated thermal printer
Weight	320g
Battery	Rechargeable Li battery,1500mAh
Continuous working time	About 50h

PROFESSIONAL DIGITAL PINLESS MOISTURE METER

- Measure wood,concrete,subfloors,walls and more
- LED clearly indicate moisture level
- The meter offers a measurement range of 0 to 53% for hardwood, 0 to 35% for softwood and relative readings for wallboard and masonry

Separate settings for drywall, masonry, softwood and hardwood for versatile use
2 inch (50mm) diagonal backlit LCD and 3 color LED bar graph offer easy visibility
Non-invasive, non-marring and technically ideal for detecting moisture under finished surfaces
3/4 inch (20mm) maximum sensing depth
Auto calibrating for simple operation
Reading hold button let you retain readings
Low battery icon displays status
Auto power-off function and out-of-range alarm offer additional convenience
Powered by one 9-Volt battery (included)
Measurement accuracy: ±4% for both hardwood and softwood



ORDER NO. 30-338-005

4 IN 1 SOIL SURVEY INSTRUMENT

- Measuring the light intensity of current enviroment.
- Measuring the moisture of soil.
- Measuring the ph value.
- Measuring the temperature of soil.
- Oversize led.
- With led backlight.
- Enviromental protection material.
- Power supply: 1x9v monoblock battery(battery not included).

Operating temperature: 5 -40
Storage temperature: -10 -50
Light intensity:9 stages(LOW- to GHG+)
Temperature: -9 to 50 or 16 to 122
Moisture: 5 stages
PH: 12 stages(3,5 to9.0)

ORDER NO. 30-349-001



WIRE TRACER

- Designed to trace a variety of unenergized wires.
- Each unit comes with a transmitter and a receiver will function up to 12" from the wire being traced.
- Results will vary based on factors such as insulation type, proximity to other bundled wire, etc.
- This is normal, and is true of all wire tracing devices on the market.
- Transmitter contains five (5) adapters for connection to common wiring applications.

ORDER NO. 30-320-001



POCKET SIZE DIGITAL MULTIMETER

- Pocket size
- Data hold
 - Auto power off
 - Display: counts 2000
 - Autoranging on all functions
 - DC Voltage: 4V±0.5%, 40/400/600V±0.8%
 - AC Voltage: 4/40/400/600V±1.0%
 - DC current: 40/400mA±2.0%
 - AC current: 40/400mA±3.0%
 - Resistance: 400/4k/40k/400k/4MΩ±1.0%, 40MΩ±2.0%
 - Continuity checking with buzzer
 - Diode test
 - Power source: LR44 1.5x2
 - Size weight: 70x120x18mm, 110g(including battery)



ORDER NO. 30-262-001



From china to
around the world

WE ONLY SUPPLY SUCCESS