



M/s. Engineering Supplies

**We are the leading Manufacturer, Supplier and Exporter of
Measuring Thread, Plain and Pin Gauges.**





ABOUT OUR COMPANY

Quality, Precision and Performance are the industry buzzwords today and M/s. Engineering Supplies is synonymous with them. We seamlessly blend technology, innovation and efficiency to craft products and offer services that help our customers to unleash their potential, maximize productivity and grow exponentially.

We are the Change Agents

Since inception, we have championed the evolution of thread and plain gauges. Starting as a trading company and then stepping into manufacturing gauges successfully speaks volumes about our passion for the industry. We are the change agents redefining engineering possibilities.

Exceptional Products

Powered by technical precision and a highly qualified engineering team, most of our supplies are of the shelf. Thus, we have been able to satisfy 97% of our customers (Domestic & International) needs and exceed their expectations. It is a matter of great pride that to date we have not faced a single rejection against the supply of thread gauges.

Quality Assurance

Our ability to manufacture an unrivalled choice of gauges with the highest quality, rigorous testing and accurate certification within customer mandated deadline makes us one of the best in the business. Our stocking capabilities, inventory management and complete supply chain solution enable us to supply products in the fastest time possible, at the best pricing, eventually benefitting the customer. In addition, years of experience, an in-house expert team and consistent development processes allow us to meet every demand type.

Our Founder

The visionary leader, Mr. Kashish Sheth, founded M/s. Engineering Supplies in 2011. Under his inspiring leadership and guidance, the company has achieved sustained product quality, expansion objectives and continues growth and success. His penchant to foresee the future of the gauge industry has helped the company to continuously innovate, evolve and upgrade the product range and motivated the team to strive relentlessly to deliver impeccable products and services.

Vision

To see ourselves as a global company that provides lasting value to customers and become partners in their success.

Mission

We are on a mission to transform the Thread Gauges Industry by utilizing innovation and excellence and surpass customer expectations with world-class products and superior service levels.



NPL and NABL Certified Gauges

All Thread Gauges are supplied with TEST Certification accredited from NPL or NABL(ISO/IEC 17025) standards Laboratory.

METRIC GAUGE

METRIC gauges are manufactured according to the DIN ISO 1502 standards.

RANGE

Thread Plugs

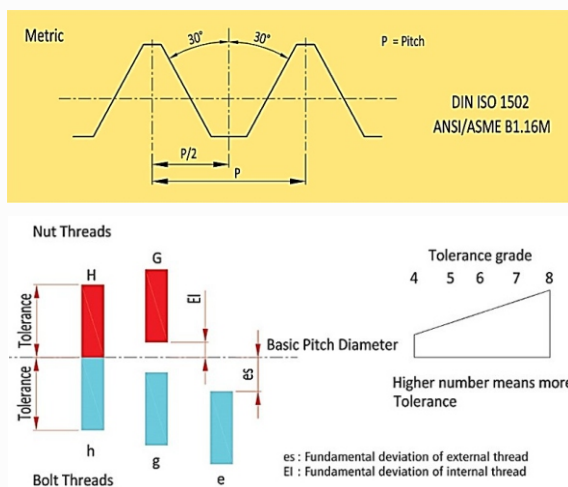
1 mm to 480 mm

Thread Rings

1 mm to 500 mm

DIAMETER	PITCH	TOLERANCE CLASS	TOLERANCE CLASS
METRIC		THREAD PLUG	THREAD RING
M1	0.25 mm	5H	6h
M2	0.40 mm	6H	6g
M3	0.50 mm	6H	6g
M4	0.70 mm	6H	6g

THREAD GAUGE PROFILE



ACCEPTANCE CRITERIA FOR :

GO Gauge: When the GO gauge enters and passes the complete length of the work piece thread under the condition that it is screwed by hand and does not use excessive force.

NOT GO Gauge: When the NOT GO gauge do not enter the component by more than two turns of the thread from both ends under the condition that it is screwed by hand and does not use excessive force.

UNIFIED GAUGE

UNIFIED gauges are manufactured according to the ANSI / ASME B1.2 standards.

RANGE

Thread Plugs

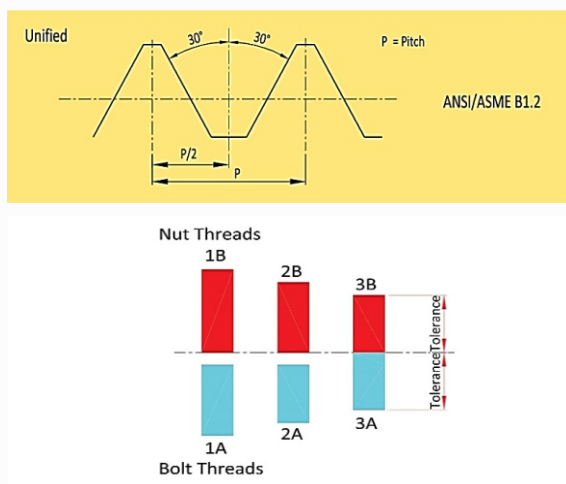
NO. 0 to 8 inch

Thread Rings

NO. 0 to 8 inch

DIAMETER	PITCH	TOLERANCE CLASS	TOLERANCE CLASS
METRIC		THREAD PLUG	THREAD RING
No. 0 - UNF	0.25 mm	80 TPI	2A
1/4 - UNC	0.40 mm	20 TPI	2A
1/2 - UNC	0.50 mm	13 TPI	2A
1 - UNC	0.70 mm	8 TPI	2A

THREAD GAUGE PROFILE

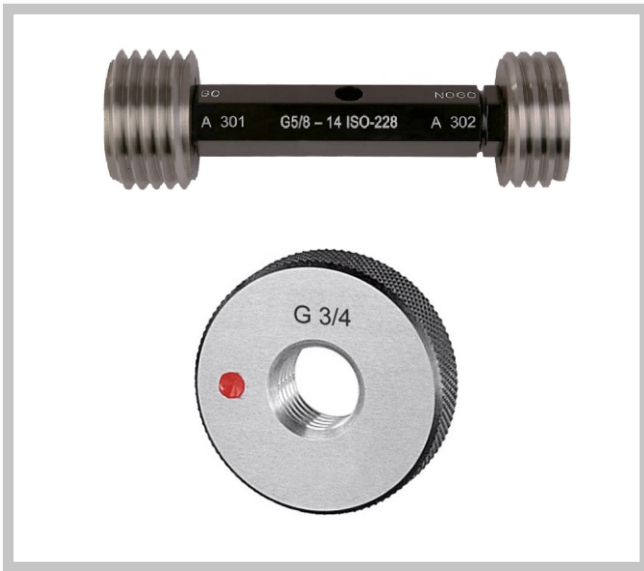


ACCEPTANCE CRITERIA FOR :

GO Gauge: When the GO gauge enters and passes the complete length of the work piece thread under the condition that it is screwed by hand and does not use excessive force.

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"G" PIPE GAUGE

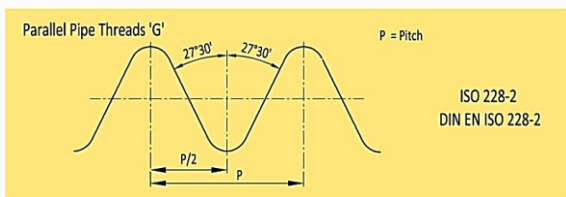


"G" PIPE gauges are manufactured according to the ISO 228-2 standards.

RANGE	
Thread Plugs	G1 / 16 to G6 inch
Thread Rings	G1 / 16 to G6 inch

DIAMETER	PITCH	TOLERANCE CLASS	TOLERANCE CLASS
METRIC		THREAD PLUG	THREAD RING
G1/16	28 TPI	General	A & B
G1	11 TPI	General	A & B
G4	11 TPI	General	A & B
G6	11 TPI	General	A & B

THREAD GAUGE PROFILE



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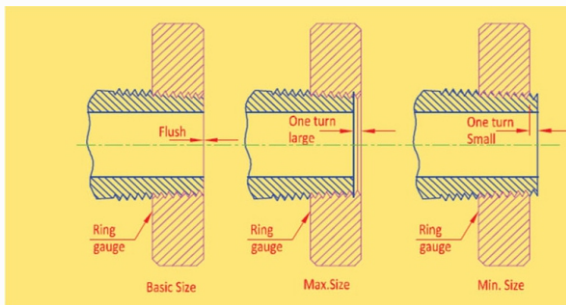
TAPER GAUGE



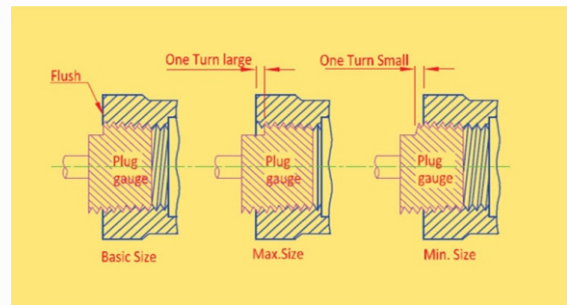
NPT gauges are manufactured according to the B1.20.1 standards.

Our expertise also lies in developing non-standard designs like extra lengths, air grooves, pilots, depth steps and others.

With basic step taper threads ring gauge

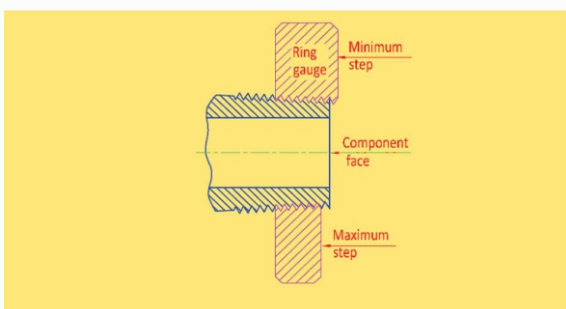


With basic step taper threads plug gauge

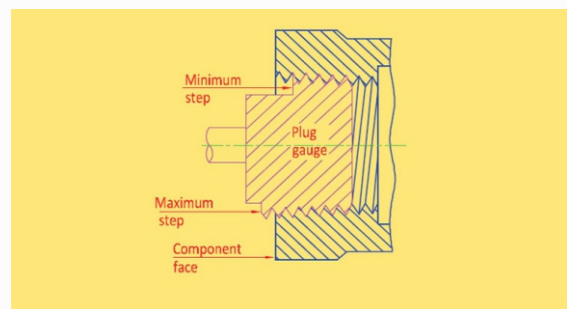


External Threads : As shown in the figure, when screwed into the component threads by hand, the Basic Step gauge should be flush with the end of the component face within single turn.

With min/max step taper threads ring gauge

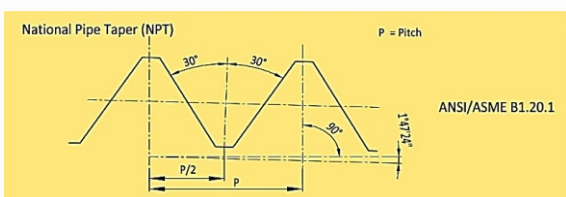


With min/max step taper threads plain gauge



Internal Threads : As shown in the figure, when using a Min/Max Step type gauge, the component face end should be flush between the Minimum and Maximum step limits.

THREAD GAUGE PROFILE



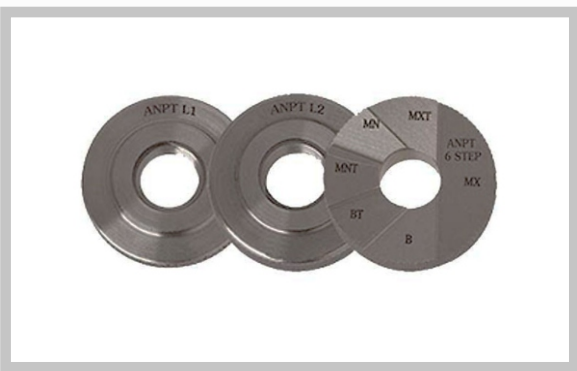
NPTF & ANPT



NPTF are manufactured according to the ANSI / ASME B1.20.5 standards.

ANPT are manufactured according to the SAE AS71051B standards.

NPTF threads do not require a sealant to create a leak-proof connection, hence they are also known as Dry Seal threads.

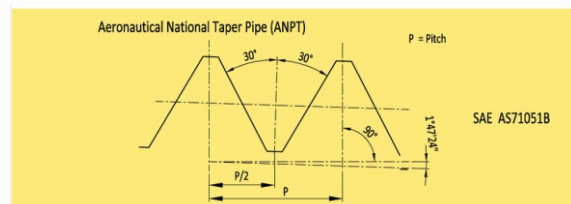
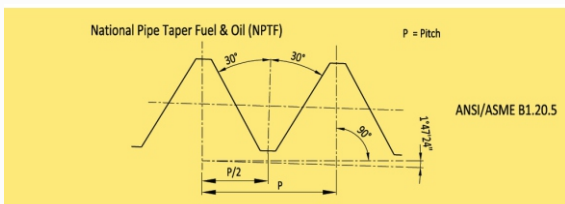


Additional gauging is required for NPTF and ANPT threads, as the truncation of these threads must be kept within defined ranges.

To test the size and taper of component threads along the thread length, L1 & L3 plug gauges and L1 & L2 ring gauges are used in conjunction. Six-step procedure the crest diameter and truncation of the component threads along the crest are checked using crest check plugs and ring gauges.

	STANDARD	PLUG GAUGES	RING GAUGES
NPTF	ANSI/ASME B1205	Thread Plug gauges L1 & L3 (Basic Step or Min/max SL)	Thread Plug gauges L1 & L3 (Basic Step or Min/max SL)
ANPTF	SEAS711B	6 Step Crest Crack Plug	6 Step Crest Crack Plug

THREAD GAUGE PROFILE

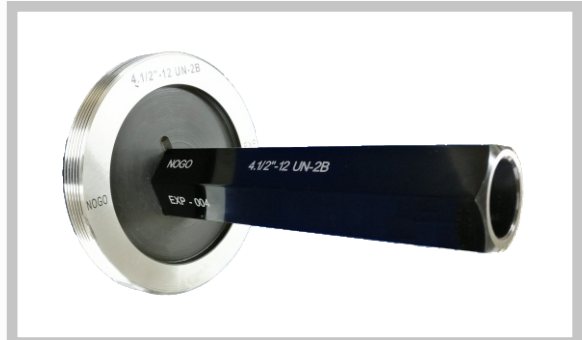


ACME & STUB ACME

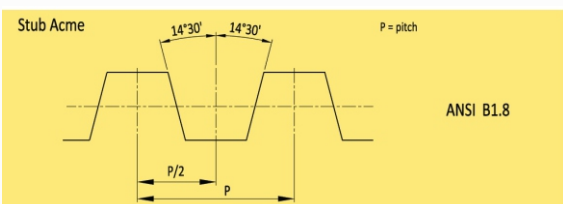
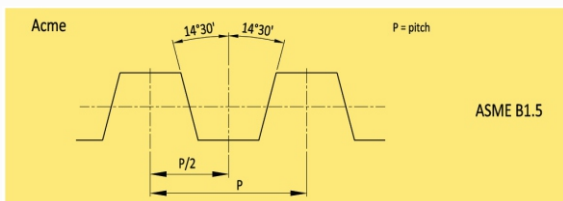


ACME as per ASME B1.5 standards & STUB ACME as per ANSI B1.8 standards.

2G is the most commonly used class. If you wish to have lesser backlash in ACME threads, we can use 3G & 4G class. Also, the height of ACME threads is $0.5p$ and the height of Stub ACME threads is $0.3p$.



THREAD GAUGE PROFILE



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TRAPEZOIDAL GAUGES

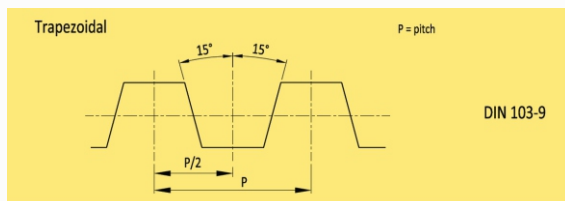


TRAPEZOIDAL gauges are manufactured according to the DIN 103-9 standards.

In the case of tolerance, 7H/7e for medium tolerance quality and 8H/8c for coarse tolerance quality are recommended.



THREAD GAUGE PROFILE



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TAPER PIPE THREADS



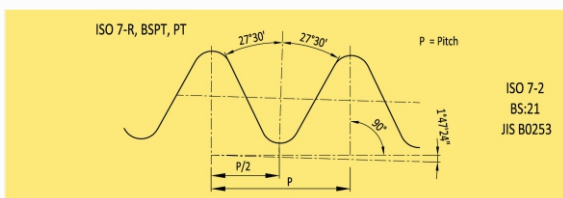
Engineering Supplies provides a complete range of taper pipe threads which are used where threads require pressure-tight joints. Technical features of the below-given taper pipe thread have a thread angle of 55°.

Taper Pipe Threads are ISO 7-R, BSPT, PT standards.

Taper Pipe Thread gauges are manufactured according to the ISO 7-2, EN 10226, BS 21, JIS B0253 standards.



THREAD GAUGE PROFILE



SNAP GAUGE



Snap Gauge are manufactured according to the DIN 7164-1966 & IS 3455-1971 / IS 7876-1975 standards.

Engineering Supplies are highly capable of manufacturing and supplying Snap Gauges up to 2 Inches used for multiple applications across industries.

You can get gauges in customized dimensions as per your requirements.

The application of snap gauges varies from inspection or checking the outside dimensions like external diameter of a component.

Snap gauges manufactured by Engineering Supplies cover larger contact area. They also have apt contact pressure and superior wear resistance.

Features:

Durable, Precision design, Strong built.

Specifications of Snap Gauges :

Basic Dimensions : ISO 286 Part 1 & 2 - 2010/ IS 919 Part 1 & 2 1993.

Gauging Practice : DIN 7164 - 1966 & IS 3455-1971 / IS 7876-1975.

Manufacturing Range of Snap Gauges :

Single end Progressive Type - Diameter 3mm to 160 mm.

Double Ended (Separate Go & Nogo) - Diameter 3mm to 100 mm.

Double ended I Type Snap Gauge - Diameter 100mm - 300 mm.

MASTER SETTING RING GAUGE



Master Setting Ring Gauges are manufactured according to the IS 3455-1971 standards.

These gauges are used for measuring instruments such as horizontal comparators, dial bore gauges, length measuring machines for ID checking and others.

D1 (mm)		D2	L
ABOVE	UPTO		
1.5	2.5	22	4
2.5	5.0	22	5
5.0	10.0	32	8
10.0	15.0	38	10
15.0	20.0	45	12
20.0	25.0	53	14
25.0	32.0	63	16
32.0	40.0	71	18
40.0	50.0	85	20
50.0	60.0	100	20
60.0	70.0	112	24
70.0	80.0	125	24
80.0	90.0	140	24
90.0	100.0	160	24

D1 (mm)		D2	D3	THICKNESS	
ABOVE	UPTO			L1	L2
100.0	110.0	170	132	28	14
110.0	120.0	180	140	28	16
120.0	130.0	190	150	28	16
130.0	140.0	200	160	28	18
140.0	150.0	212	170	28	18
150.0	160.0	224	180	28	20
160.0	170.0	236	190	32	20
170.0	180.0	250	200	32	20
180.0	190.0	265	212	32	22
190.0	200.0	280	224	32	22
200.0	212.0	300	236	32	22
212.0	224.0	315	250	32	25
224.0	236.0	335	265	36	25
236.0	250.0	355	280	36	28
250.0	265.0	375	300	36	28
265.0	280.0	400	315	36	28
280.0	300.0	425	335	36	32
300.0	315.0	450	355	36	32

Features

- Engineering Supplies manufactures high precision Master Setting Ring gauges from oil hardening and non-shrinking gauge steel.
- These are hardened and tempered to 60-62 HRC and Sub-zero treated at -80 °C for to achieve dimensional stability.
- Calibrated at under standard room condition of 20 °C to meet national & international standards.
- Calibration certification with every master meeting national & international standard available on request.
- NABL certificate (ISO / IEC 17025) is available on request.
- Blank Design is according to the I.S. 3485-1983 standards and Gauging Practice according to the I.S. 3455-1971 standards.

PLAIN PLUG GAUGE



Plain Plug gauges are manufactured according to the IS 3455 standards.

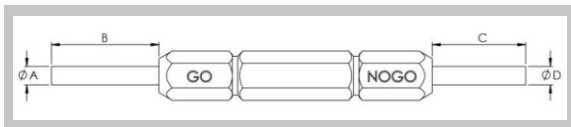
Our expertise also lies in developing non-standard designs like extra lengths, air grooves, pilots, depth steps and others.

Features

- Engineering Supplies manufactures a wide range of GO and NO-GO gauges which are made of tungsten carbide & steel.
- You can also find GO gauges made in tungsten carbide and NO-GO made in steel.
- Our product range also includes Plain Plug Gauges manufactured as per the I.S., B.S. and DIN standards and customized diameter from 1 – 400mm.

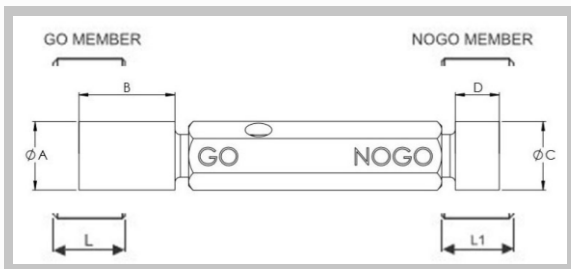
Plain Plug Gauge

Reversible Plain Plug Gauge:



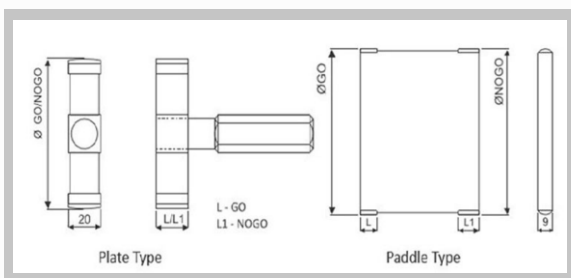
TYPE	RANGE
Reversible	Ø0.5-8 mm

Trilock Plain Plug Gauge:



TYPE	RANGE	Ø 8-10 mm	Ø 10-14 mm	Ø 14-18 mm	Ø 18-24 mm
Trilock	L/L1 (Carbide)	20/18	20/18	-	-
	L/L1 (Carbide)	25/18	30/18	35/28	40/25

Trilock Plain Plug Gauge – Plate & Paddle:



TYPE	RANGE	Ø 50-100 mm	Ø 100-200 mm	Ø 200-300 mm	Ø 300-400 mm
Trilock	L/L1 (Carbide)	25/20	25/20	30/25	30/25

SPLINE GAUGE



Spline gauges are manufactured according to the ISO (International), DIN (Germany), NSI / AGMA (American), JIS (Japanese)

Our expertise also lies in developing non-standard designs like extra lengths, air grooves, pilots, depth steps and others.

SPECIFICATIONS	SPLINE PLUG GAUGES	SPLINE RING GAUGES
STANDARDS	ISO, DIN, NSI / AGMA, JIS	
RANGE		
Min.diameter	5mm	5mm
Max.diameter	500mm	500
Max.number of teeth	500	500mm
Min.pitch	0.1 module	0.1 module
Max.pitch	25.4 module	25.4 module
Max.tooth Length	300mm	150mm

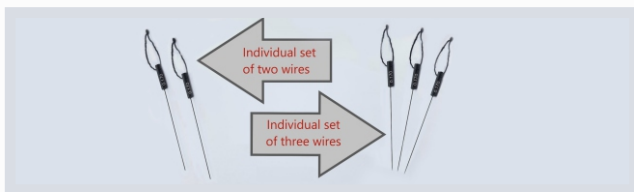
MEASURING PINS



Measuring pins are available with variety of sets in well-polished weatherproof high quality wooden boxes to avoid environment influence.

Engineering Supplies is the leading manufacturer in India for Precision Measuring Pins & Thread Measuring Wires.

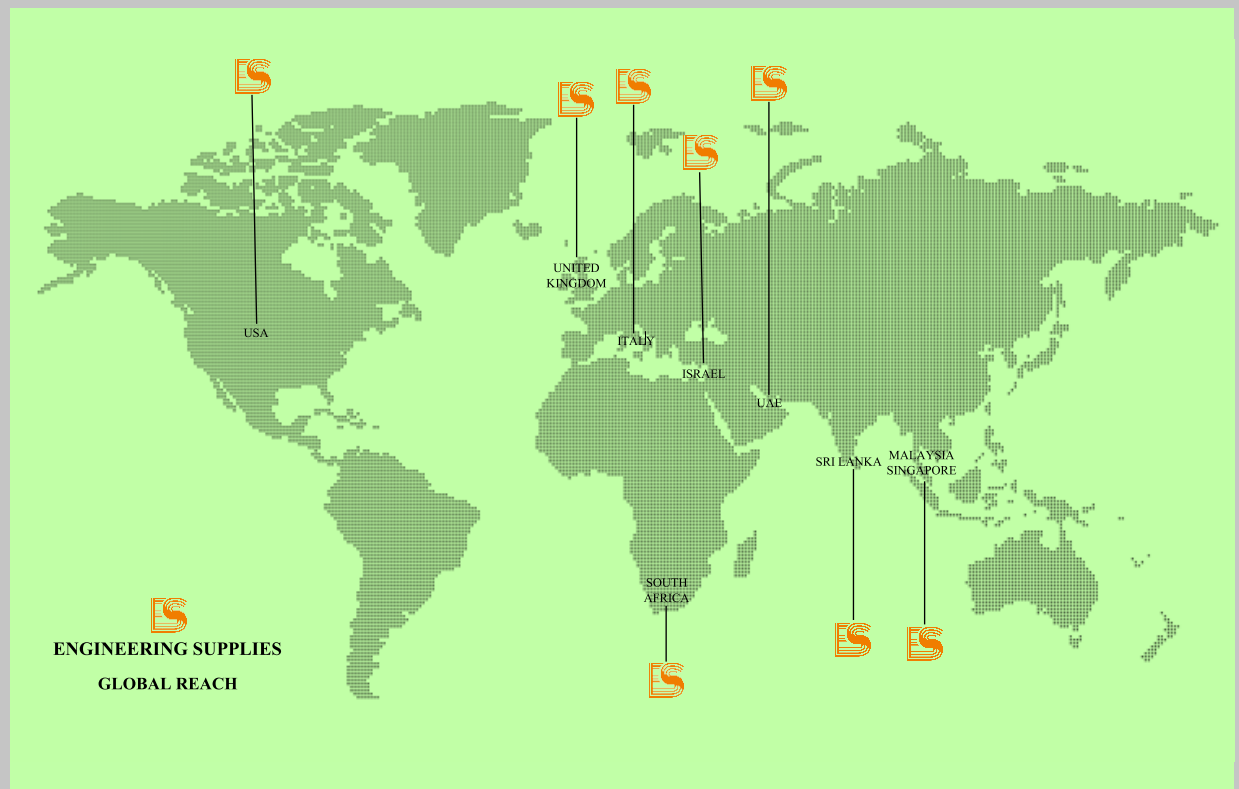
- A world class manufacturing facility equipped with Grinding & Lapping machines as per international standards.
- Our advanced quality inspection lab is NABL (ISO / IEC 17025) accredited.
- We manufacture Measuring Pins in both Inches & MM sizes.
- Measuring Pins are available with variety of sizes (sets & loose) in dedicated wooden box or plastic box packaging.
- Measuring Pin Set Range : \varnothing 0.50mm to \varnothing 25.00mm in different steps of 0.01, 0.02, 0.05, 0.001, 0.005 mm.
- Measuring Pin Set Range : \varnothing 0.010" to \varnothing 1.000" in steps of 0.001".
- Loose Pins in MM & Inches are supplied in standard & non-standard sizes of different steps as per customer's requirement.
- Measuring Pins are manufactured from High Quality Alloy Steel (EN31) which are Sub-Zero treated for dimensional stability.
- Measuring Pins are hardened upto 58 to 62 HRC.
- Manufacturing Tolerance : \pm 0.001mm & \pm 0.002mm (Different tolerance can be maintained as per customer's requirement)
- Measuring Pins up to \varnothing 1.50mm are manufactured upto 40mm length.
- Measuring Pins with sizes above \varnothing 1.50mm are manufactured upto 50mm length.
- Measuring Pins are without Knobs & are supplied as per customer's request only.



Thread Measuring Wire Set Range : \varnothing 0.170mm to \varnothing 6.350mm 21 sets in 2 wires & 3 wires are available. Loose Thread Measuring Wires Range : \varnothing 0.170mm to \varnothing 6.350mm in 3 wire set are available.

APPLICATION :

- Bore Checking
- Thread Measuring Activity
- Centre Distances
- Thickness Checking
- EDM Wire Cut Measuring Setting
- Pressing Dies Inspection
- P.C.B.
- Step Diameter Checking
- Gear Pitch Measurement
- Groove Dimensions
- Gear Shaft Checking
- Inspection of Micro Meters
- Key Inspection



CONTACT US



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