



# BEARING & TOOL CENTRE



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## Our Sister Concern : RELIEF SERVICE CENTRE

Repairs, Removal of Jaw Error, Bore Gauge Extension, Instrument Modifications & Spares

### Quotation

#### 61 | Screw Pitch Gauge - Mitutoyo

Pitch - mm	0.35 - 6	0.4 - 7	0.4 - 7	4 - 42	4 - 42	4 - 60	0.4 - 7 + 4 - 42
Leaves	22	21	18	30	30	28	21 + 30
Type	mm	mm	Mm	Unified	Whitworth	whitworth	Combined
Rs.	1378	1378	1324	1324	1324	1378	3017
Code	188 -130	188 -122	188 -121	188 -111	188 -101	188 -102	188-151
Catalog	Page - 3	Page - 3	Page - 3	Page - 3	Page - 3	Page - 3	Page - 3

Mitutoyo Discount: 5%

#### 61 - 1 | Screw Pitch Gauge - Kristeel - Shinwa

Gauges	D%	Thread / Screw Pitch Inch & mm	Acme Screw Pitch 29 1/2 Deg	29° Screw Thread Tool Gauge
Pitch		0.25 to 6 mm + G 62 to G 2 . 5 inch	10 n to 1 n	1 to 10 TPI. (14 sizes)
Leaves		24 + 28	16	14
Rs.	30%	290	2645	345
Code		SPG	APG	STTG - 29'
Catalog		Page - 4 to 7	Page - 4 to 7	Page - 4 to 7

#### 61 - 2 | Pitch Gauge - Insize

Pitch - mm	0.4 - 7	0.25 - 7	0.25 - 6	4 - 42	4 - 62	4 - 42
Leaves	22	24	24	30	28	30
Type	mm	mm	mm	TPI	TPI	TPI
Rs.	434	461	505	551	516	540
Code	4820-122	4820-124	4820 - 1241	4820 - 230	4820 - 328	4820 - 330
Catalog	Page - 8	Page - 8	Page - 8	Page - 8	Page - 8	Page - 8

#### 61 - 3 | Pitch Gauge - Whitworth - Insize

Code	W	C	D%	Catalog	Leaves	Range	Rs
4820 - 452	6	N		Page - 8	52	0.25 - 6 mm	671
					52	4 - 62 TPI	671
4820 - 552	6	N		Page - 8	50	0.4 - 7 mm	651
					50	4 - 62 TPI	651

Code	W	C	D %	Catalog	Leaves	Range	Rs
4820 – 552	6	N		Page – 8	52	0.4 - 7 mm	671
					52	4 – 42 TPI	671

\* D- Discount

## Terms & Conditions –

- Goods offered - Subject to Prior Sale
- Price Validity: "15 Days from Date of Quotation"
- C.S.T 2% extra against form C. Otherwise 5% without form C For Out of Gujarat Sales only.
- VAT 5% extra for Sales within Gujarat. Prices Ex-Godown Ahmedabad.
- Payment against Proforma Invoice, Packing, Forwarding & Freight extra.
- **Bank Detail** – Kotak Mahindra Bank Ltd.
- **Branch** – Shivranjini
- **Bank IFSC Code** - KKBK 0000 810
- **Bank Account No.** 08102 00000 2689
- Note - While making payment online do mention your Company's name.
- TIN NO 24070901229 , CST No. 24570901229
- We are looking forward to your valued orders.

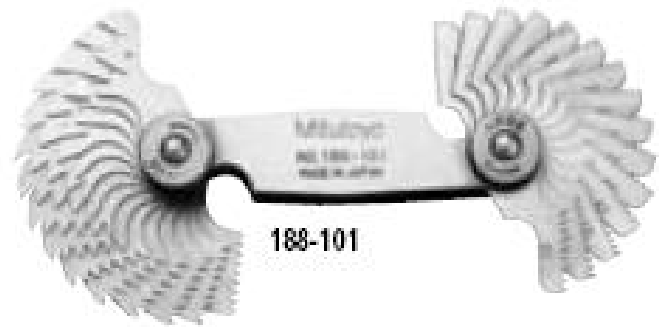
**MITUTOYO MAKE**

# Pitch Gages

## SERIES 188

### FEATURES

- Thread pitch size is stamped on each gage.
- Metric, Unified, and Whitworth screw pitch gages.



### SPECIFICATIONS

#### Metric Screw Pitch Gages

Range	Order No.	Composition of leaves
0.35 - 6mm	188-130	22 leaves: 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm and 60° angle gage
0.4 - 7mm	188-122	21 leaves: 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm
0.4 - 7mm	188-121	18 leaves: 0.4, 0.5, 0.75, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm

#### Unified Screw Pitch Gages

Range	Order No.	Composition of leaves
4 - 42 TPI	188-111	30 leaves: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI

Note: Metric and Unified Pitch Gage Set (188-151) is available. It consists of 188-122 (Metric) and 188-111 (Unified).

#### Whitworth Screw Pitch Gages

Range	Order No.	Composition of leaves
4 - 42 TPI	188-101	30 leaves: 4, 4½, 5, 5½, 6, 7, 8, 9, 10, 11, 11½, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42 TPI
4 - 60 TPI	188-102	28 leaves: 4, 4½, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 34, 36, 40, 48, 60 TPI

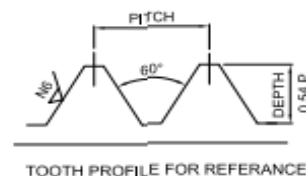
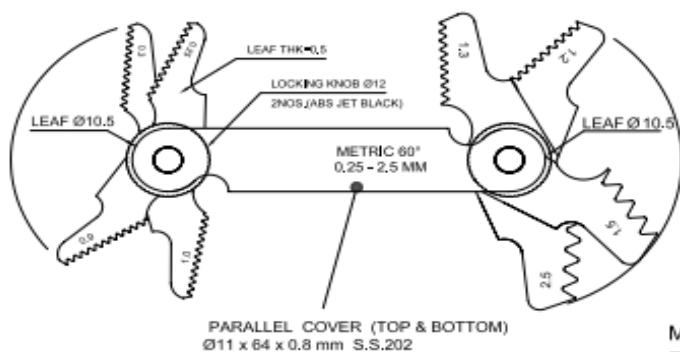
**KRISTEEL MAKE**



This product is available in different models. Common models are the 28 leaves 4-80 pitch, 30 leaves 4-42 pitch and 30 leaves 3 1/2 -60 pitch-55 degrees whitworth. Narrow leaf design allows checking both external and internal threads - even in small holes not accessible with wide leaf type gauges.

SCREW PITCH GAUGE

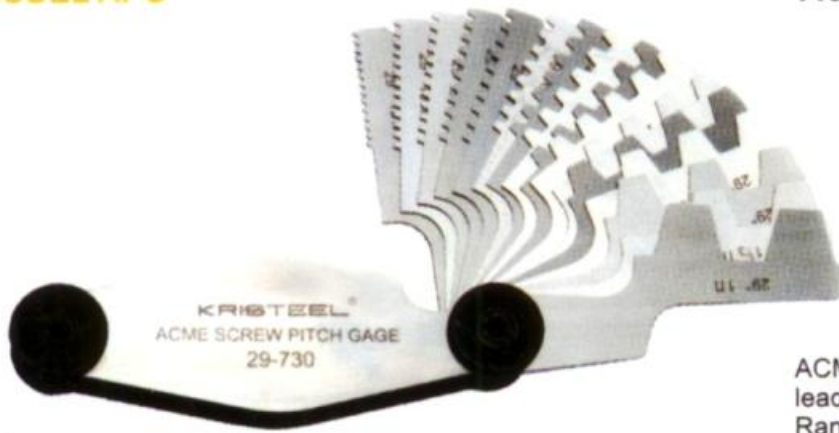
KRISTEEL® - Shinwa



MATERIAL :- Carbon Steel  
 RANGE :- 30 leaves 4-80 tpi ( 55° ) And Metric 60°  
 FINISH :- Polished  
 FEATURE/USE:-

To check and determine the screws pitches for ISO Metric threads and Whitworth 55 degree and United Nations threads unf/unc 60°

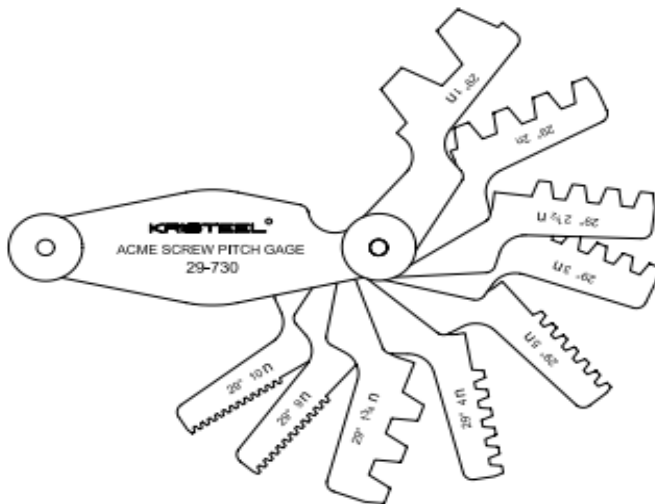
- AVAILABLE MODELS :-
- 1) METRIC 60° 0.25 to 6.0 mm
  - 2) ENGLISH 4 to 84 TPI ( 55 ° AND 60° )



ACME screw pitch gauge is used to check thread profile of lead screws  
 Range : 10n To 1n (16 Blades)  
 n = thread per inch (TPI)

ACME THREAD PITCH GAUGE

KRISTEEL® - Shinwa

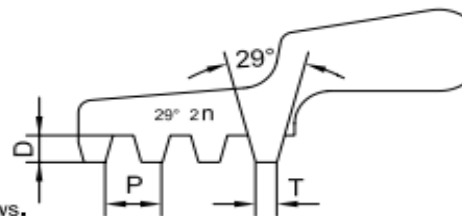


THREAD FORMULAS  
 PITCH = 25.4 / TPI  
 DEPTH (D) = 0.5 P + 0.25mm  
 T = 0.3707 P

SR. NO.	T.P.I. n	THREAD PITCH mm	THREAD DEPTH mm
1	1	25.4	12.95
2	1 1/3	19.05	9.775
3	1 1/2	16.933	8.716
4	1 3/4	14.514	7.507
5	2	12.7	6.6
6	2 1/2	10.16	5.33
7	3	8.466	4.483
8	3 1/2	7.257	3.878
9	4	6.35	3.425
10	5	5.08	2.79
11	6	4.233	2.366
12	7	3.628	2.064
13	8	3.175	1.837
14	9	2.822	1.661
15	10	2.54	1.52
16	12	2.116	1.308

- MATERIAL :- Stainless Steel
- RANGE :- 10n to 1n ( 16 blades )
- FINISH :- POLISHED BY TUMBLING

USES :- To determine the TPI of Acme Threads of leadscrew  
 Gauge made of stainless Steel by EDM Wire cutting and fine blanking process  
 Gauge have 16 blades Duly fine edge profiled , Numbered TPI size on each blade  
 Usefull gauge In toolroom to check the leadscrew threading tool and to inspect the leadscrews.  
 Gauge is packed Plastic Box with Acme thread data sheet for Instant reference.



## 29° SCREW THREAD TOOL GAUGE (MODEL STTG 29°)

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### 29° SCREW THREAD TOOL GAUGE

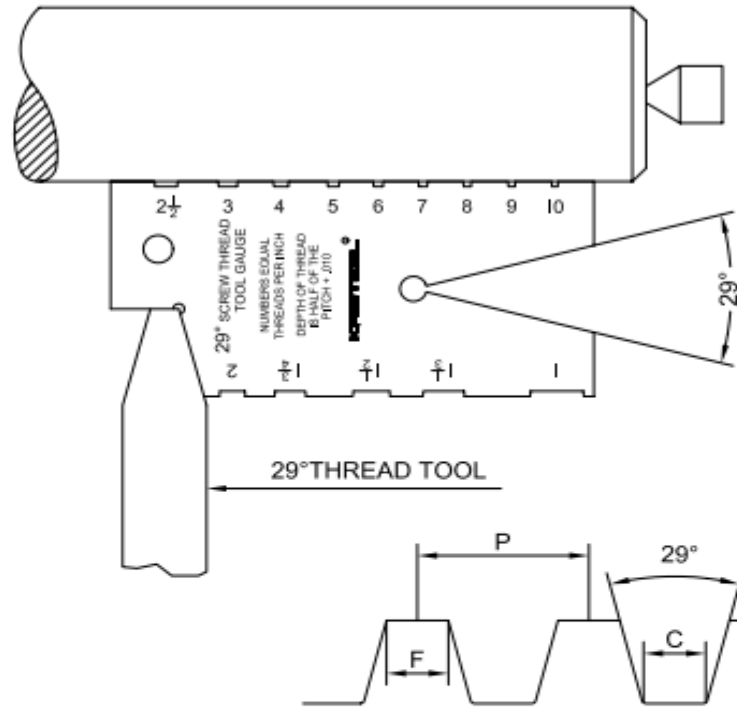
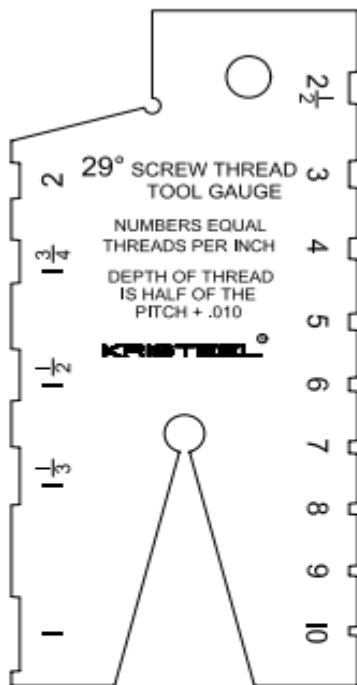
This Hard Chrome Plated Gauge is used to measure the ACME Threads for setting of cutting tool. This gauge is used to set the quick change gearbox to required number of threads per inch & also to set Compound rest 14.5° to the right. (half the included thread angle)

Range: 1 to 10 TPI. (14 sizes)



# ACME SCREW THREAD TOOL GAUGE

**KRISTEEL® - Shinwa**



MATERIAL :- Steel  
 RANGE :- 1 TO 10 TPI ( 14 SIZES )  
 FINISH :- Hard chrome plated

### USES :- To Cut an Acme Threads

- 1) Grind a toolbit to fit the end of the Acme thread gauge. Be sure to provide a sufficient side clearance so that the tool will not rub while cutting the thread.
- 2) Grind the point of the Tool flat until it fits into the slots of the gauge indicating the number of TPI to be cut.
- 3) Set the quick-change gearbox to the required number of threads per inch.
- 4) Set the compound rest 14.5° to the right ( Half the included thread angle )
- 5) Set the Acme threading tool on center and square it with the work using the gauge shown in fig.
- 6) At the right hand end of the work, cut a section  $\frac{1}{16}$ " long to the minor diameter. This will indicate when the thread is to the full depth.
- 7) Cut the thread to the proper depth by feeding the cutting tool, using the compound rest.

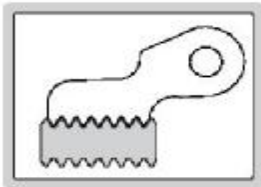
Measuring Acme Threads :- Use Kristeel made ACme Thread Pitch Gauge

SR. NO.	TPI FRACTION	TPI DECIMAL	PITCH Inch	PITCH P mm.	DEPTH ( D ) mm	WIDTH ( F ) mm.
1	1	1	1.0	25.4	12.95	9.416
2	$1\frac{1}{4}$	1.33	0.75	19.055	9.777	7.064
3	$1\frac{1}{2}$	1.5	0.667	16.933	8.717	6.277
4	$1\frac{3}{4}$	1.75	0.571	14.514	7.507	5.380
5	2	2	0.50	12.7	6.6	4.708
6	$2\frac{1}{2}$	2.5	0.40	10.16	5.33	3.766
7	3	3	0.333	8.467	4.483	3.139
8	4	4	0.25	6.35	3.425	2.354
9	5	5	0.20	5.08	2.79	1.883
10	6	6	0.167	4.233	2.367	1.569
11	7	7	0.143	3.629	2.064	1.345
12	8	8	0.125	3.175	1.8375	1.177
13	9	9	0.111	2.822	1.661	1.046
14	10	10	0.10	2.54	1.52	0.942

THREAD DATA / FORMULAS  
 Pitch P = 1/TPI ( Inch )  
 Depth D = minimum 0.5 P  
 maximum 0.5 p + 0.01"  
 Width F = 0.3707 P  
 Width C = 0.3707 P - 0.0052  
 (for maximum depth)

# INSIZE MAKE

## PITCH GAGE



4820-122

- Check the pitch of screw thread
- Accuracy:  $\pm 0.07\text{mm}$

### Metric 60° screw

Code	Range	Pitch of leaves Included	Quantity of leaves
4820-122	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	22
4820-124	0.25-7.0mm	0.25, 0.3, 0.35, 0.4, 0.5, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	24
4820-1241	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	24

### Unified 60° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-230	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30

### Whitworth 55° screw

Code	Range	Pitch of leaves Included	Quantity of leaves
4820-330	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 18, 19, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	30
4820-328	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	28

### Metric 60° and Whitworth 55° screw

Code	Range	Pitch of leaves included	Quantity of leaves
4820-452	0.25-6.0mm	0.25, 0.3, 0.35, 0.4, 0.45, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6mm	52
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	
4820-450	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	50
	4-62TPI	4, 4-1/2, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 16, 18, 19, 20, 22, 24, 25, 26, 28, 30, 32, 36, 40, 48, 60, 62TPI	

### Metric 60° and Unified 60° screw

Code	Range	Pitch of leaves Included	Quantity of leaves
4820-552	0.4-7.0mm	0.4, 0.5, 0.6, 0.7, 0.75, 0.8, 0.9, 1, 1.25, 1.5, 1.75, 2, 2.5, 3, 3.5, 4, 4.5, 5, 5.5, 6, 6.5, 7mm	52
	4-42TPI	4, 4-1/2, 5, 5-1/2, 6, 7, 8, 9, 10, 11, 11-1/2, 12, 13, 14, 15, 16, 18, 20, 22, 24, 26, 27, 28, 30, 32, 34, 36, 38, 40, 42TPI	