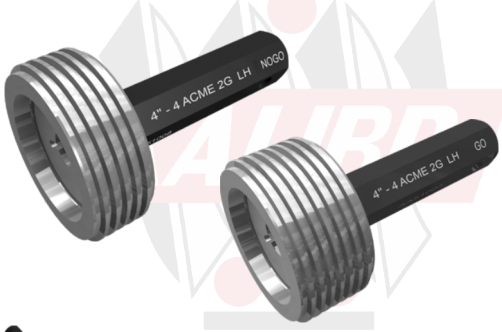
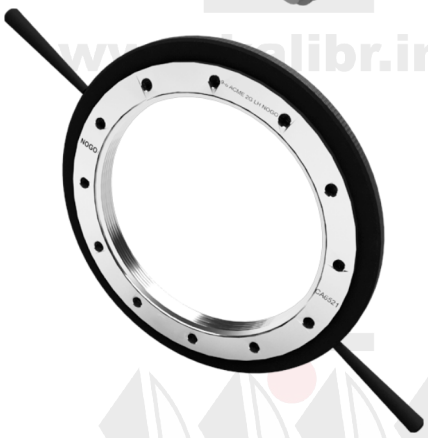
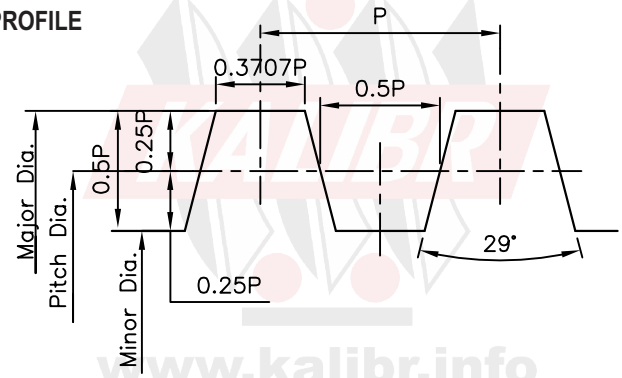
ACME THREADS

Application: Used for translation motion in machine tools like lead screws, where rapid movement is required or in screw jacks, where load to be shared is more.





ACME THREAD PROFILE



- Acme threads are similar to Trapezoidal threads.
- Trapezoidal threads follow Metric system while ACME threads are based on Inch / Imperial system.

SPECIFICATION :

American specification: ANSI/ASME B1.5 – 1997
B. S. specification : B.S. 1104 – 1957.

MANUFACTURING RANGE

Gauge Type	Diameter Range (Inch)	TPI	Tolerance Class
Thread Plug Gauges.	1/4 - 5 Above 5 up to 14 Diameter can be supplied based on customer request.	16, 14, 12, 10, 8, 6, 5, 4, 3, 2.5, 2. TPI not covered here can be supplied based on customer request.	2G, 3G & 4G 2C, 3C & 4C
Thread Ring Gauges.	1/4 - 5 Above 5 up to 11 Diameter can be supplied based on customer request.	16, 14, 12, 10, 8, 6, 5, 4, 3, 2.5, 2. TPI not covered here can be supplied based on customer request.	2G, 3G & 4G 2C, 3C & 4C
Plain Plugs to check Minor Diameter of Internal Threads	To cover above Diameter range.		
Plain Rings to check Major Diameter of External Threads	To cover above Diameter range.		
Check Plug Gauges	To check **NEW** Go & Nogo Ring Gauges as given above.		
Wear Check Plug Gauges	To check / calibrate **USED** Go & Nogo Ring Gauges as given above.		

TOLERANCE CLASS

'G' is the most commonly used Tolerance Class. Many times class 'C' is also used as per designer's requirement.
'3G' class is used for general purpose assemblies while classes above 3 are progressively closer tolerance classes like 4G, 5G etc.
Classes below 3 are having coarse tolerance and are suitable for loose fit. Example – '2G' class.