

## Screw Pitch Gauges

CODE	BRAND	MODEL	RANGE	# OF LEAVES	THREAD FORM
MT188-101	Mitutoyo	188-101	4x42 TPI	30	Whitworth 55°
MT188-102	Mitutoyo	188-102	4x60 TPI	28	Whitworth 55°
MT188-111	Mitutoyo	188-111	4x42 TPI	30	Unified 60°
MT188-122	Mitutoyo	188-122	0.4-7mm	21	Metric 60°
MT188-130	Mitutoyo	188-130	0.35-6mm	22	Metric 60°
MT188-151	Mitutoyo	188-151	0.4-7mm & 4x42 TPI	51	Metric 60° & Unified 60°
TS4832180	Insize	4820-230	4x42 TPI	30	Unified 60°
TS4832260	Insize	4820-328	4x62 TPI	28	Whitworth 55°
TS4832360	Insize	4820-122	0.4x7mm	22	Metric 60°
TS4832420	Insize	4820-552	4x42 TPI & 0.4-7mm	52	Metric 60° & Unified 60°
TS4832200	Solar	AN-52	4x84 TPI	52	Unified 60°

Screw Pitch Gauges are mechanical measuring tools used to identify the pitch and thread form of screw threads by direct physical comparison. They work by matching precision-cut gauge teeth to an existing thread to determine the correct pitch and standard.

Each gauge consists of multiple blades, with each blade manufactured to a specific pitch and standard thread angle, including:

- Metric (ISO) threads – 60° thread angle
- Unified (UNC/UNF) threads – 60° thread angle
- Whitworth (BSW/BSF) threads – 55° thread angle

The gauges are typically manufactured from hardened stainless steel or hardened high-carbon steel to ensure wear resistance, dimensional stability, and long-term accuracy. Pitch values are permanently marked on each blade for identification.

Screw pitch gauges are used to identify unknown threads, verify thread pitch, and match fasteners correctly. They measure pitch and thread form only and do not assess diameter or tolerance, which must be checked using additional measuring tools.