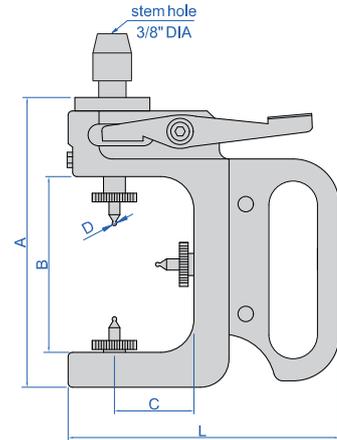


THREAD/LEAD SCREW PITCH DIAMETER SNAP GAGES

BALL TIP DIAMETER CAN BE CUSTOMIZED



- Measure the pitch diameter of lead screw and external thread
- Ball tip diameter can be customized according to workpieces.
Diameter of trapezoidal screw or external thread ball tips:
 $D(\text{dia}) = 0.5 \times \text{pitch } P / \cos(\text{thread angle } \alpha/2)$.
Ball tips diameter D (dia) of ball screw is corresponding steel ball specification
- Probe retracting range: 3mm, measuring force: 4.50lbf
- Repeatability: .0001"
- Optional accessory: .0001" or .00005" graduation dial indicators

2165-40

Main body (without ball probe, without digital indicator) (mm)

Part No.	Range	Accuracy	A	B	C	L
2165-20E	.12-.8"	±.0002"	4.57"	2.36"	1.06"	4.45"
2165-40E	.8"-1.6"	±.0002"	5.20"	3.15"	1.46"	4.84"
2165-60E	1.6-2.4"	±.0002"	5.98"	5.43"	1.81"	3.94"
2165-80E	2.4-3.15"	±.0002"	6.77"	6.14"	2.32"	4.76"
2165-100E	3.15-3.95"	±.0002"	7.56"	6.69"	2.68"	5.51"



2165-A2D071

Ball probes (for American trapezoidal thread 29° thread angle)

Part No.	ØD	TPI
2165-B0D0323	.0323"	16
2165-B0D0369	.0369"	14
2165-B0D043	.0430"	12
2165-B0D0516	.0516"	10
2165-B0D0646	.0646"	8
2165-B0D0861	.0861"	6
2165-B0D1033	.1033"	5
2165-B0D1291	.1291"	4
2165-B0D1722	.1722"	3
2165-B0D2582	.2582"	2

Ball probes (for Metric trapezoidal thread 30° thread angle)

Part No.	ØD	Pitch
2165-A1D553	1.553mm	3mm
2165-A2D071	2.071mm	4mm
2165-A2D588	2.588mm	5mm
2165-A3D106	3.106mm	6mm
2165-A3D623	3.623mm	7mm
2165-A4D141	4.141mm	8mm
2165-A4D659	4.659mm	9mm
2165-A5D176	5.176mm	10mm
2165-A6D212	6.212mm	12mm
2165-A7D247	7.247mm	14mm
2165-A8D282	8.282mm	16mm
2165-A9D317	9.317mm	18mm
2165-A10D353	10.353mm	20mm

Ball probes (for Metric external thread 60° thread angle)

Part No.	ØD	Pitch
2165-C0D557	0.577mm	1mm
2165-C0D722	0.722mm	1.25mm
2165-C0D866	0.866mm	1.5mm
2165-C1D155	1.155mm	2mm
2165-C1D732	1.732mm	3mm
2165-C2D021	2.021mm	3.5mm
2165-C2D309	2.309mm	4mm
2165-C2D887	2.887mm	5mm
2165-C3D464	3.464mm	6mm
2165-C4D619	4.619mm	8mm