

CERAMIC PIN GAUGE SET CAA • CAG SERIES

JCSS Calibration
available
(CAA series)

HOW TO MOVE

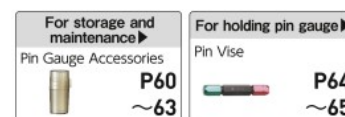
Available from 1pc. Made of highly-durable material with free from rust.

MATERIAL

- Gauge: Ceramic (Zirconia)

FEATURES

- Strong against abrasion
- Free from rust and corrosion, and easy maintenance
- Ceramic material is less susceptible to abrasion and aged deterioration than steel
- Non-magnetic
- For above 1.50mm, Nominal size is laser marked on gauge
- Individual pin gauges are also available (plastic case included for CAA series)



Comparison between carbide and steel materials

Item	Material	Ceramics (Zirconia)	Cemented Carbide	Steel
Specific Gravity		6	14.8	7.8
Hardness	HV	1,250	1,300	650~720
Bending strength	MPa	1,000	1,960	1,960
Young's Modulus	GPa	200	610	205
Coefficient of thermal expansion	10 ⁻⁶ /K	7~8	5~5.5	11
Heat conductivity	W/m·K	3	79.5	54.4

CAA series

(0.20 ~ 20.00mm)



CAG Series (with Handle) (0.20 ~ 10.00mm)



※CAA series Pin Gauge with plastic handle

SPECIFICATIONS

Nominal size (mm)	Step (mm)	Length (mm)	Tolerance (μ m)	Out of Roundness (μ m)	Diameter Inequality (μ m)	Hardness (HV)
0.20... 2.99	0.01 step	38	±1	0.8	1.6	More than 1250
3.00...10.00		50	±1.5	1.3	2.6	
10.01...20.00						

※ 5mm from each edge is not precision guaranteed

※ Length can be changed without any prior notice due to improvement of product

SPECIFICATIONS

Nominal size (mm)	Step (mm)	Length (mm) Gauge Length Overall Length	Tolerance (μm)	Out of Roundness (μm)	Diameter Inequality (μm)	Hardness (HV)
0.20... 0.29	0.01 step	3 41	±1	0.8	1.6	More than 1250
0.30... 0.49		10 48				
0.50... 0.99		28 66				
1.00... 2.99		69				
3.00... 4.99		71				
5.00...10.00		30 76				

※ 5mm from each edge is not precision guaranteed

※ Length can be changed without any prior notice due to improvement of product

(0.01mm step)

Model No.	Nominal size (mm)	Pins per set	Weight (Including case)
CAA-0B	0.50•0.51•0.52... 1.00	51	0.98kg
CAA-1A	1.00•1.01•1.02... 1.50	51	0.99kg
CAA-1B	1.50•1.51•1.52... 2.00	51	1.01kg
CAA-2A	2.00•2.01•2.02... 2.50	51	1.02kg
CAA-2B	2.50•2.51•2.52... 3.00	51	1.05kg
CAA-3A	3.00•3.01•3.02... 3.50	51	1.11kg
CAA-3B	3.50•3.51•3.52... 4.00	51	1.15kg
CAA-4A	4.00•4.01•4.02... 4.50	51	1.20kg
CAA-4B	4.50•4.51•4.52... 5.00	51	1.25kg
CAA-5A	5.00•5.01•5.02... 5.50	51	1.31kg
CAA-5B	5.50•5.51•5.52... 6.00	51	1.38kg
CAA-6A	6.00•6.01•6.02... 6.50	51	1.45kg
CAA-6B	6.50•6.51•6.52... 7.00	51	1.53kg
CAA-7A	7.00•7.01•7.02... 7.50	51	2.09kg
CAA-7B	7.50•7.51•7.52... 8.00	51	2.18kg
CAA-8A	8.00•8.01•8.02... 8.50	51	2.28kg
CAA-8B	8.50•8.51•8.52... 9.00	51	2.38kg
CAA-9A	9.00•9.01•9.02... 9.50	51	2.49kg
CAA-9B	9.50•9.51•9.52...10.00	51	2.60kg

(0.01mm step)

Model No.	Nominal size (mm)	Pins per set	Weight (Including case)
CAG-0B	0.50•0.51•0.52... 1.00	51	0.98kg
CAG-1A	1.00•1.01•1.02... 1.50	51	1.07kg
CAG-1B	1.50•1.51•1.52... 2.00	51	1.08kg
CAG-2A	2.00•2.01•2.02... 2.50	51	1.10kg
CAG-2B	2.50•2.51•2.52... 3.00	51	1.12kg
CAG-3A	3.00•3.01•3.02... 3.50	51	1.18kg
CAG-3B	3.50•3.51•3.52... 4.00	51	1.22kg
CAG-4A	4.00•4.01•4.02... 4.50	51	1.27kg
CAG-4B	4.50•4.51•4.52... 5.00	51	1.33kg
CAG-5A	5.00•5.01•5.02... 5.50	51	1.71kg
CAG-5B	5.50•5.51•5.52... 6.00	51	1.78kg
CAG-6A	6.00•6.01•6.02... 6.50	51	1.85kg
CAG-6B	6.50•6.51•6.52... 7.00	51	1.93kg
CAG-7A	7.00•7.01•7.02... 7.50	51	2.01kg
CAG-7B	7.50•7.51•7.52... 8.00	51	2.10kg
CAG-8A	8.00•8.01•8.02... 8.50	51	2.25kg
CAG-8B	8.50•8.51•8.52... 9.00	51	2.35kg
CAG-9A	9.00•9.01•9.02... 9.50	51	2.46kg
CAG-9B	9.50•9.51•9.52...10.00	51	2.58kg