

PA Pin-Arbor Power Chuck®

"Strong Clamping" "High Precision" "Pull Back" "High Rotation" "Dust Protection" "Design Specification"



PA-25 • 35



PA-55 • 75

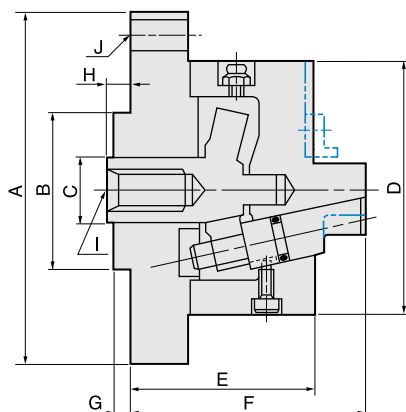
● The material of the body is Ductile Cast Iron considering anti-abrasion and anti-worn out.

"PULL BACK" System

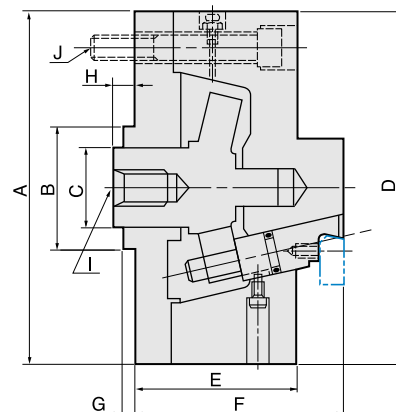
The PA Pin-Arbor Power Chuck is I.D. clamping chuck with a perfect pull-back function of chucking pins. 3 portion of chucking pins clamp the work-pieces with balancing bending stress each other. Therefore ① The PA chuck has high concentricity and strong clamping force, ② The squareness and parallelism to standard end surface after machining are excellent, ③ The jaws' travel is big enough to load and remove the work-pieces easily. ④ Also, we are available to design various design of chucks on request basis. Thanks to these excellent features, the PA Pin-Arbor Power Chuck is adopted by a lot in Factory Automation line as finish operation chuck or as a base chuck of combination chuck.

※ Chucking pins are easy interchangeable from front side of a chuck.

Dimension diagram



PA-25 • 35



PA-55 • 75

Dimensions

Model No.	A	B h6	C	D	E	F	G	H max.	H min.	I	J
PA-25	135	60	20	85	62	80	7	12	8	M12 P17.5 x25	3(φ11) P.C.D.118
PA-35	135	60	25	98.5	65	88.4	7	12	8	M16 P2.0 x28	3(φ11) P.C.D.118
PA-55	190	80	32	190	95	120	7	18	8	M16 P2.0 x30	3M16 P.C.D.150
PA-75	225	80	50	225	100	132.5	7	18	8	M24 P3.0 x35	6M16 P.C.D.180

Special products larger than the PA-125 are also designed and manufactured.

Standard specifications

● PA bodies are used with the ductile cast iron for considering the strength and resistance.

Model No.	Max. clamping force kN (kgf)	Max. pull force kN (kgf)	Max rotation min ⁻¹	Jaw stroke (Dia.) mm	Standard clamping range mm	Chuck weight kg	Body GD ² N·m ² (kgf·m ²)
PA-25	22.1 (2250)	11.8 (1200)	5000	1.7	17~25	3.5	0.13 (0.013)
PA-35	33.1 (3380)	17.6 (1800)	4500	1.7	25~35	4.3	0.25 (0.026)
PA-55	55.3 (5640)	29.4 (3000)	3500	4.2	35~55	18.4	3.23 (0.33)
PA-75	70.1 (7150)	37.2 (3800)	2500	4.2	55~75	35.0	8.62 (0.88)

* The dimensions in this table are subject to change without notice.

With using jawpieces (top jaws) on chucking pins, it is possible for PA-55 and PA-75 to clamp larger diameter than standard.

Practical examples

Each PA-type chuck can be used as a base chuck for combination designs, because it can clamp a work-piece very precisely.

Work-piece : Roller
Clamping dia : φ47

Work-piece : Knuckle
Clamping dia : φ67

Work-piece : Bevel gear
Clamping dia : φ24

Work-piece : Hub
Clamping dia : φ36

Work-piece : Knuckle
Clamping dia : φ70