JATO Precision

- Self-Contained Collet Chuck
- Precision Diaphragm Chuck
- Power Collet Chuck
- Expanding Mandrel & Sleeve
- Pneumatic Rotating Cylinder
- Stationary Collet Chuck
- Over-Grip Collet Chuck

2020-ENG

JAP100

Air Diaphragm Chuck

- Air cylinder intergrated, no rotary cylinder and draw bar required
- Repeatability within 5um
- Center through hole design, allow to set air blow or stopper in axis way
- Highly-sealed chuck body, helps protect cutting chips, dust or coolant fluid from entering
- Front-mount design make installation easy
- O.D/I.D clamping applies by only switch the jaw pad
- Gentle and Precise clamping, best for fragile and thin-wall work piece
- Please use 5um filter in F.R.L units

Introduction

JATO JAP100 Diaphragm chuck is putting effort in industry over 2 decades. Proudly design in our own structure and proof the ability with patens over Taiwan, China, Japan, German, and USA.

Diaphragm chuck is specialize to deal with the work piece as thin wall and fragile like aluminum and ceramic. Good performance in control the clamping force to prevent the object deformation.

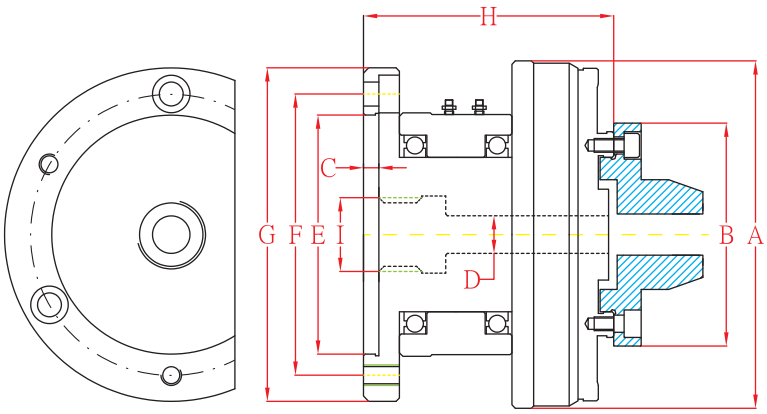
JAP100 is built in rotary cylinder, which is free to use the draw bar and rotary cylinder behind the spindle. Even makes it much easier to install on the non-through hole spin unit, like the 4/5 axis table or servo spindle. Manual chuck and special thin rotary cylinder won't be options when you have a rotary chuck. All you need is a flange adaptor and air feeding, imaging a simple installation without specialist worker and anyone with technical common sense, can get installation done easily when all components ready.

JAP100 Diaphragm chuck is involved in huge range in industry. We can go with testing machine, grinding machine, carving machine and all kinds of laser maching, and the product covered eletronic, medical, millitaty, optics and other clamping work requires concentricity and repeatability. High ends of run out is easy to reach.

Applications

- Spindle Grinding of DC Micro Motors
- Precise Bush
- Lens of Electronic Equipment
- Lens Frame of Smartphone
- Precision Sleeve
- Ceramics Grinding
- Cardiovascular stent
- Laser Carving, Laser Cutting, Laser Wielding
- Case of Stylus

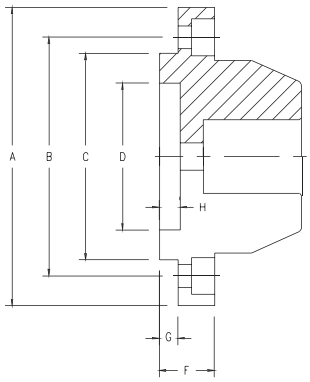
JAP100 Dimension and Specification



Model	JAP104	JAP105	JAP106
A	101 (3.98")	137 (5.37")	166 (6.54")
B	60 (2.36")	70 (2.76")	100 (3.94")
C	4.0 (0.16")	3.5 (0.14")	5.5 (0.22")
D	10 (0.39")	12 (0.47")	42 (1.65")
E	70 (2.76")	100 (3.94")	130 (5.12")
F (P. C. D.)	82 (3.23")	115 (4.53")	147 (5.79")
G	97 (3.82")	135 (5.31")	167 (6.57")
H	73 (2.87")	90 (3.54")	107 (4.21")
I	M21xP1.5	M25xP1.5	M60xP1.5
Mounting Bolts	4H-M6 (front)	3H-M8 (front)+ 3H-M8 (rear)	3H-M10 (front)+ 3H-M10 (rear)
Max. RPM	4000	3400	2400
Air Pressure	0.5-7kg/cm² (7-100psi)	0.5-7kg/cm² (7-100psi)	0.5-7kg/cm² (7-100psi)
Jaw Opening	0.20mm (0.008")	0.20mm (0.008")	0.20mm (0.008")
Through Hole	10mm (0.39")	12mm (0.47")	42mm (1.65")
Net Weight	2.8kgs (6.2lbs)	6.0kgs (13.2lbs)	9.5kgs (20.9lbs)

JD Jaw Pad Dimensions

Model	A	B	C	D	F	G	H	Jaw Split	Chuck Model
JD-60	65mm (2.56")	52mm (2.05")	45mm (1.77")	32mm (1.26")	12mm (0.47")	4.0mm (0.16")	4.5mm (0.18")	6	JAP104
JD-70	75mm (2.95")	60mm (2.36")	50mm (1.97")	37mm (1.46")	14mm (0.55")	5.0mm (0.20")	5.0mm (0.20")	6	JAP105
JD-100	105mm (4.13")	90mm (3.54")	80.2mm (3.16")	65mm (2.56")	14mm (0.55")	5.5mm (0.22")	5.0mm (0.20")	8	JAP106



Customize Make Jaw Pad for JAP100 Series

5um Filter

- Applies in all series of JAP100/JAP200, a set go along with packing.

JAP200

Rotary Air Collet Chuck

- Built in rotary cylinder, free from draw bar and rotary cylinder
- Easy installation, no specialist required
- Work with most popular collet , easy to find replacement or repair in local.
- Double piston, provide more clamping force in limited O.D
- Import selected deep groove ball bearing, stable and tough
- Self-lock design on the close side to offer higher safety
- High resistance to coolant fluid and cutting chips (Fluid and dust proof when air feeding in)
- Please use 5um filter in F.R.L units

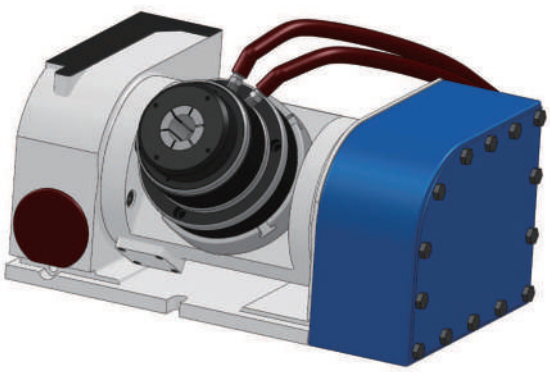
Introduction

JAP200 is built in rotary cylinder, which is free from use the draw bar and rotary cylinder behind the spindle. Even makes it much easier. All you need is a flange adaptor and air feeding, imaging a simple installation without specialist worker and anyone with technical common sense, can get installation done easily when all relates components ready.

JAP200 air collet chuck is a high performance chuck, applies to all kind of automation lathe working .Also can works with manual lathe to fulfill the target of auto clamping. Center trough hole allowed feeding either way from the front or rear, or to make an axial stopper in the center, or set an air blower to clear to cutting chips.

Collet provides the higher frequency to clamp, compare to 3-jaws chuck, collet chuck is up to save the time of clamping more than 75%. Any manufacturer whoever is paying attention to the cycle time, collet chuck is able to raise your output when you have the same time putting in.

Applies: On Lathe



Applies: On 4/5 axis rotary table

fig. 1

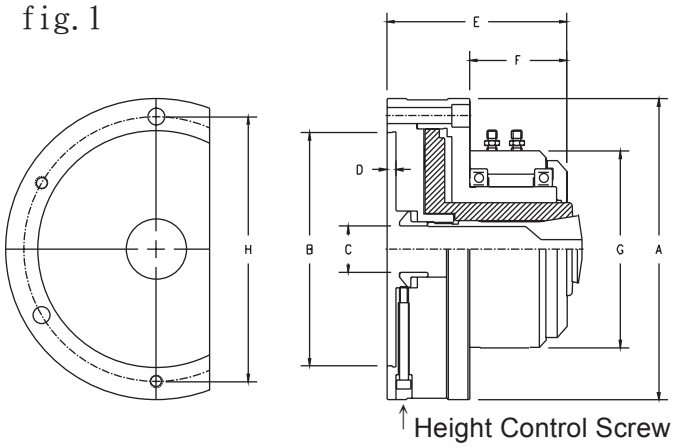
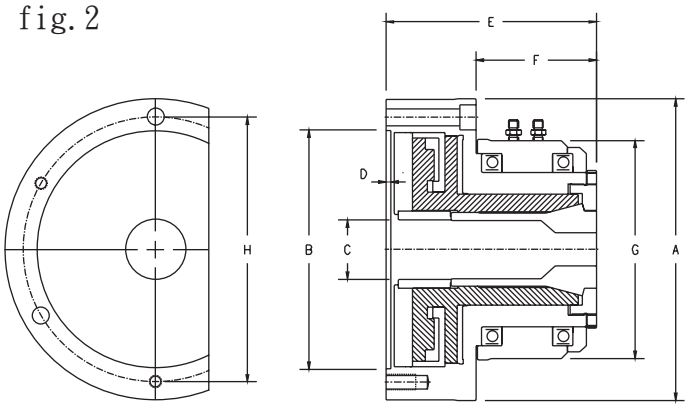


fig. 2



JAP200 Dimension and Specification

Model	JAP206-5C	JAP207-16C	JAP207-B42	JAP208-B60	JAP210-B80
Figure	fig.1	fig.1	fig.2	fig.2	fig.2
A	168(6.61")	203(7.99")	197(7.76")	214(8.43")	247(9.72")
B	130(5.12")	160(6.30")	155(6.10")	170(6.69")	200(7.87")
C	26(1.02")	40(1.57")	42(1.65")	60(2.36")	80(3.15")
D	4.5(0.18")	4.5(0.18")	4.5(0.18")	4.5(0.18")	5.0(0.20")
E	101(3.98")	113(4.44")	138(5.43")	148(5.83")	151(5.94")
F	55(2.17")	65(2.56")	77(3.03")	85(3.35")	80(3.16")
G	116(4.57")	136(5.35")	146(5.76")	164(6.46")	197(7.76")
H (P.C.D.)	147(5.79")	176(6.93")	172(6.77")	186(7.32")	226(8.90")
Mounting Bolts	4H-M8 (front)	3H-M10 (front)+ 3H-M10 (rear)	3H-M 10(front)+ 3H-M 10(rear)	3H-M10 (front)+ 3H-M10 (rear)	6H-M10 (front)
Collet	5C Collet	16C Collet	B42(DIN6343 173E)	B60(DIN6343 185E)	B80(DIN6343 193E)
Max. RPM	3600	2800	2500	2000	1500
Air Pressure	3-8kg/cm² (43-114psi)	3-8kg/cm² (43-114psi)	3-8kg/cm² (43-114psi)	3-8kg/cm² (43-114psi)	3-8kg/cm² (43-114psi)
Max. Capacity	26mm(1.02")	40mm(1.57")	42mm(1.65")	60mm(2.36")	80mm(3.15")
Piston Area	130cm²(20.2in²)	155cm²(24.0in²)	280cm²(43.4in²)	304cm²(47.6in²)	356cm²(55.2in²)
Gripping Force	3465kgf@7kg/cm² (7623lbf@100psi)	4078kgf@7kg/cm² (8971lbf@100psi)	4740kgf@7kg/cm² (10428lbf@100psi)	5150kgf@7kg/cm² (11330lbf@100psi)	6030kgf@7kg/cm² (12060lbf@100psi)
Net Weight	10kgs(22lbs)	14kgs(31lbs)	17kgs(37lbs)	21kgs(46lbs)	32kgs(71lbs)

JAP207-42BZI

Air Collet Chuck

for Hainbuch Style Collets

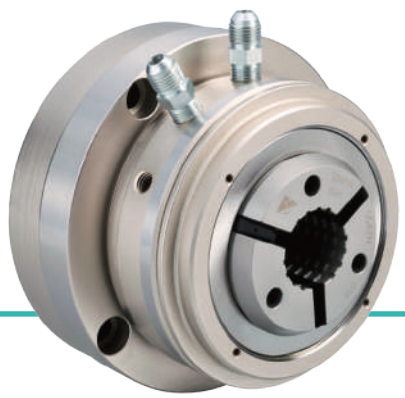
- Work with rubber collet
- Built-in rotary cylinder
- Parallel Clamp with over 1.5mm range
- Really fast collet change with wrench
- Import selected deep groove ball bearing, stable and tough
- Double piston, provide more clamping force
- High resistance to coolant fluid and cutting chips (Fluid and dust proof when air feeding in)

CHP206-SS42

Hydro Collet Chuck

for Rotary Tables/ Indexing Tables

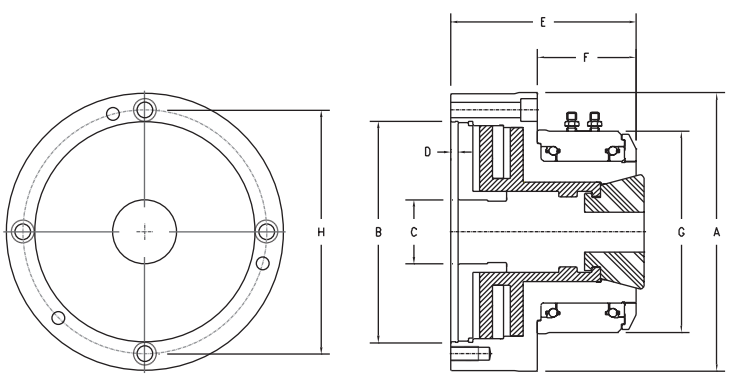
- Work with rubber collet
- Use Special O-ring from Trelleborg
- Parallel Clamp with over 1.5mm range
- Really fast collet change with wrench
- Hydro operated , powerful force with compact body



INTRODUCTION

In JAP200 series, BZI collet chuck is a unique existing. Combine with rotary cylinder and collet chuck, is setting free for those need an automatic feeding on 4 / 5 axis table.

There are two models for rotary rubber collet chuck. Jato Take double pistons to seek more pull force when input source is air, and for the same clamping force, Jato make efforts to downsize for the Hydro rubber collet chuck to fit the 6” rotary table. In rubber collet chuck, it make easy to change the collet, only by a change wrench, alter size can be done within 30 seconds.



Dimension and Specification

Model	JAP207-42BZI	CHP206-SS42
Air / Hydraulic	Air	Hydraulic
A	197 (7.75")	166 (6.54")
B	155 (6.10")	130 (5.12")
C	42 (1.65")	42 (1.65")
D	4.5 (0.18")	4.5 (0.18")
E	146 (5.75")	100 (3.94")
F	69 (2.72")	52 (2.05")
G	146 (5.75")	135(5.31")
H (P.C.D.)	172 (6.77")	147 (5.79")
Mounting Bolts	3H-M10 (front)+ 3H-M10 (rear)	4H-M10 (front)
Collet	SS42 Collet	SS42 Collet
Max. RPM	2500	100
Air Pressure	3-7kg/cm² (40-100psi)	10-30kg/cm² (143-500psi)
Max. Capacity	42mm (1.65")	42mm (1.65")
Piston Area	256cm² (40.0in²)	66cm² (10.2in²)
Gripping Force	5572kgf@7kg/cm² (12258lbf@100psi)	5669kgf@30kg/cm² (12472lbf@428psi)
Net Weight	20kgs (44lbs)	10kgs (22lbs)

JPCA

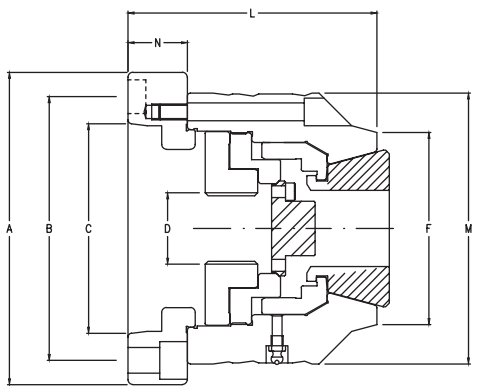
Pull Back Collet Chuck-Axial Stopper

- Work with rubber collet
- Parallel Clamp with over 1.5mm range
- Really fast collet change with wrench
- Adjustable/Removable stopper, can alter to air blow, sensing device
- Capable to handle heavy duty work

Introduction

JPCA is a chuck with high-accuracy, heavy clamping force and rigid body. Whole chuck body is made of SUJ2 and harden to HRC60 provide the rigid body that capable to handle the heavy duty working. The parallel clamping promise to clamp the whole length regardless the tolerance of the work piece. Compare to the typical spring collet, rubber collet can be used more wide and stable. JPCA is designed with a stopper in the center, user can decide to use it with any require or take it off to come a through hole chuck.

Dimension and Specification

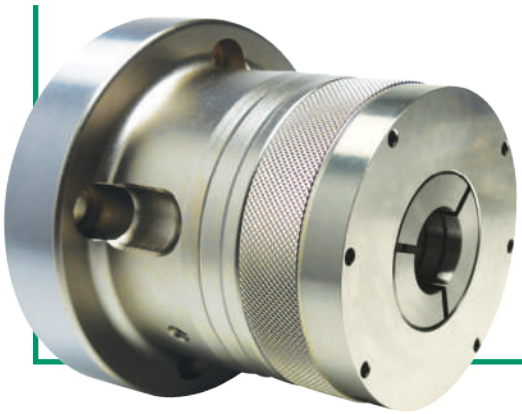


Rubber Collet

Collet Wrench

Model	JPCA-42A5	JPCA-42A6	JPCA-65A5	JPCA-65A6
Spindle Nose	A2-5	A2-6	A2-5	A2-6
A	138(5.43")	164(6.46")	138(5.43")	164(6.46")
B	104.8(4.13")	133.4(5.25")	104.8(4.13")	133.4(5.25")
C	82.6(3.25")	106.4(4.19")	82.6(3.25")	106.4(4.19")
D	M55	M55	M72	M72
F	97(3.82")	97(3.82")	119(4.69")	119(4.69")
L	123(4.84")	126(4.96")	138(5.43")	141(5.55")
M	137(5.39")	137(5.39")	164(6.46")	164(6.46")
N	27(1.06")	30(1.18")	27(1.06")	30(1.18")
Mounting Bolts	6H-M10	6H-M12	6H-M10	6H-M12
Collet	SS42 Collet (42BZI)	SS42 Collet (42BZI)	SS65 Collet (65BZI)	SS65 Collet (65BZI)
Collet Wrench	MV3200	MV3200	MV6500	MV6500
Axial Stroke	5.0mm(0.22")	5.0mm(0.22")	5.0mm(0.22")	5.0mm(0.22")
Clamping Range	±0.5mm(±0.02")	±0.5mm(±0.02")	±0.5mm(±0.02")	±0.5mm(±0.02")
Max. Capacity	42mm(1.65")	42mm(1.65")	65mm(2.56")	65mm(2.56")
Max.Axial Force	3200kgf(7040lbf)	3200kgf(7040lbf)	4000kgf(8800lbf)	4000kgf(8800lbf)
Gripping Force	7200kgf(15840lbf)	7200kgf(15840lbf)	7200kgf(20800lbf)	7200kgf(20800lbf)
Max. RPM	6500	6500	5500	5500
Net Weight	9.5kgs(20.9lbs)	10.5kgs(23.1lbs)	14.0kgs(30.8lbs)	15.0kgs(33.0lbs)

CPC
Power Collet Chuck

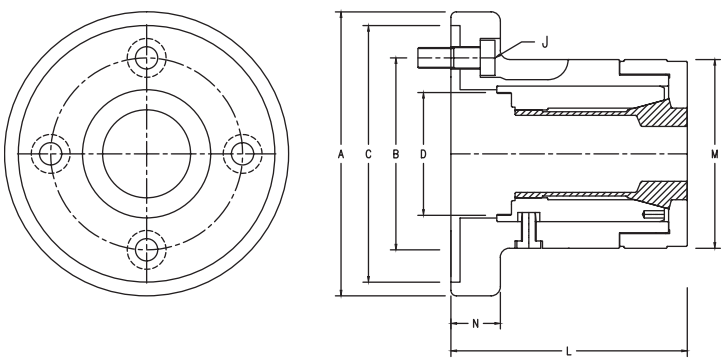


- Work with push type collet as DIN6343 standard
- High speed and high rigidity
- Installation is compatible with through hole power chuck, share flange adaptor as well
- Most use in turning machine, CNC lathes
- CPC-44 can alter to expanding mandrel by install expanding kits

Introduction

CPC power collet chuck is most popular collet on CNC lathe, work with DIN 6343 collet also the most popular in every corner in the world. JATO home design C-44 collet can provide even better gripping ratio from19 degrees of collet angle. CPC-44 can switching from clamping to become expanding by using the expanding kits.
CPC series is fitting the installation size with through-hole 3 jaws chuck; user can share same draw tube and the flange adaptor.

Dimension and Specification

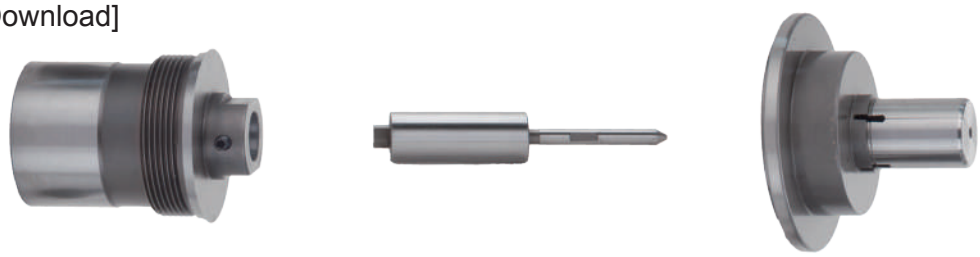


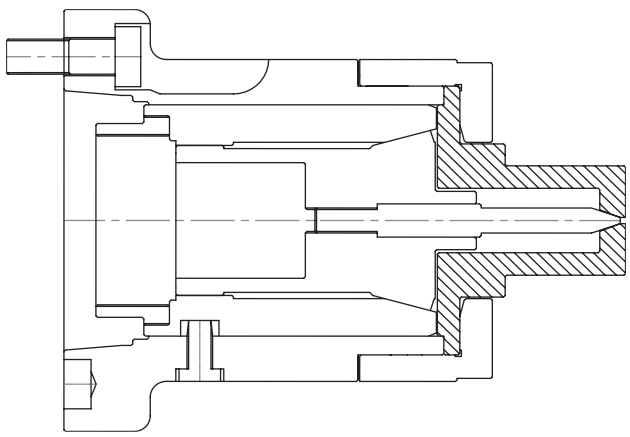
Model	CPC-42Z140	CPC-44Z140(Expandable)	CPC-60Z170	CPC-80Z220
Spindle Nose	Z140mm	Z140mm	Z170mm	Z220mm
Expandable	False	True	False	False
A	155mm(6.10")	155mm(6.10")	186mm(7.32")	236mm(9.30")
B (P.C.D)	104.8mm(4.13")	104.8mm(4.13")	133.4mm(5.25")	171.4mm(6.75")
C	140mm(5.51")	140mm(5.51")	170mm(6.69")	220mm(8.66")
D	M66xP1.5	M66xP1.5	M90xP1.5	M100xP2.0
L	125mm(4.92")	125mm(4.92")	140mm(5.50")	164mm(6.60")
M	104mm(4.09")	104mm(4.09")	134mm(5.28")	167mm(6.57")
N	23mm(0.91")	23mm(0.91")	27mm(1.06")	32mm(1.26")
J	3H-M10	3H-M10	6H-M12	6H-M16
Collet	DIN6343 173E(B42)	C-44 Collet/Expanding Kit	DIN6343 185E(B60)	DIN6343 193E(B80)
Sleeve Piston	4.5mm(0.18")	4.5mm(0.18")	4.5mm(0.18")	4.5mm(0.18")
Max. Capacity	42mm(1.65")	44mm(1.73")	60mm(2.36")	80mm(3.15")
Max. Push Force	2400kgf(52801bf)	2400kgf(52801bf)	3000kgf(66001bf)	3300kgf(72601bf)
Max. Gripping Forc	4200kgf(92401bf)	4200kgf(92401bf)	5250kgf(115501bf)	5775kgf(127051bf)
Max. RPM	6000	6000	5000	4000
Net Weight	7.0kgs(15.41bs)	7.0kgs(15.41bs)	11.5kgs(25.31bs)	22.5kgs(49.51bs)
Available Adaptor	A2-4/A2-5/A2-6	A2-4/A2-5/A2-6	A2-5/A2-6/A2-8	A2-6/A2-8/A2-11

CPC-44 Guide for Expanding Method

Standard range of I.D gripping 16~60mm, special order 60-90mm

CPC-44 can work with C-44 collet to gripping O.D purpose; also can be switching to I.D clamping as a mandrel by install the expanding kits. The expanding kit including a push mandrel, a pin, and a C-44I expanding collet, which C-44I collet is make by order. Please join our website to see how to order a C-44I collet in the [Download]





Adaptors Dimension

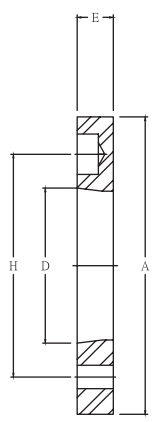


Fig. 1

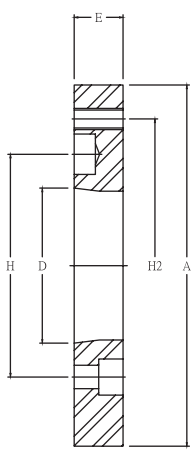


Fig. 2

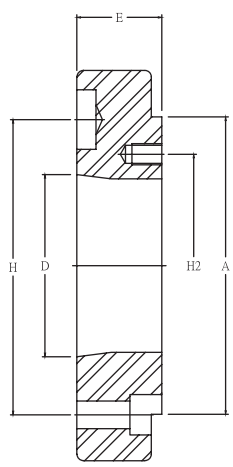


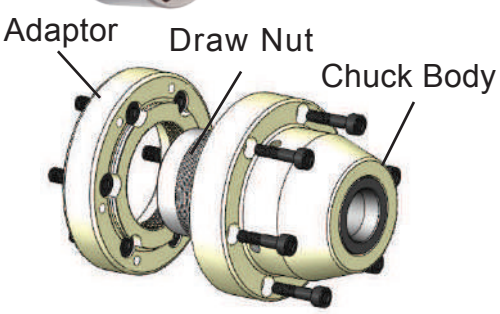
Fig. 3

Chuck Model	Spindle Nose D	Figure	A	H	H2	E
CPC-42Z140 CPC-44Z140	A2-4	Fig. 2	140(5.10")	82.6(3.25")	104.8(4.13")	20(0.79")
	A2-5	Fig. 1	140(5.10")	104.8(4.13")	-	15(0.59")
	A2-6	Fig. 3	140(5.10")	133.4(5.25")	104.8(4.13")	40(1.57")
CPC-60Z170	A2-5	Fig. 2	170(6.69")	104.8(4.13")	133.4(5.25")	23(0.91")
	A2-6	Fig. 1	170(6.69")	133.4(5.25")	-	17(0.67")
	A2-8	Fig. 3	170(6.69")	171.4(6.75")	133.4(5.25")	45(1.77")
CPC-80Z220	A2-6	Fig. 2	220(8.66")	133.4(5.25")	171.4(6.75")	28(1.10")
	A2-8	Fig. 1	220(8.66")	171.4(6.75")	-	18(0.71")
	A2-11	Fig. 3	220(8.66")	235(9.25")	171.4(6.75")	54(2.13")

CPD

Dead-Length Collet Chuck

- Adops 5C/ 16C collets
- 5C Collet: max. capacity 26mm
- 16C Collet: max. capacity 40mm



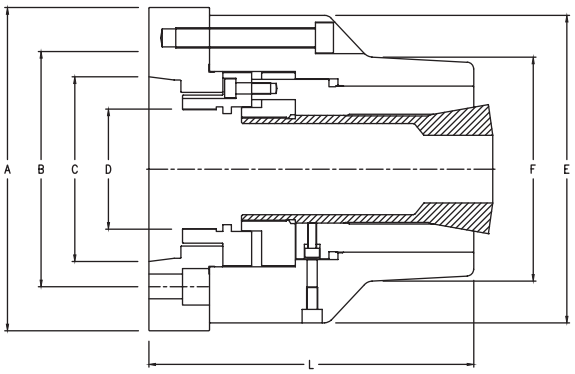
JATO offers a blank drawnut when shipping the chuck. Customers could thread the drawnut according to the drawtube of the machine

CPB

Pull Back Collet Chuck

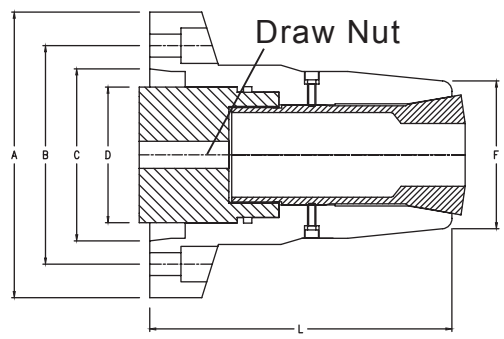
- Adops 5C/ 16C collets
- 5C Collet: max. capacity 26mm
- 16C Collet: max. capacity 40mm
- Pull back design. High accuracy

CPD Collet Chuck Dimension



Model	CPD-5CA5	CPD-5CA6	CPD-16CA5	CPD-16CA6
Spindle Nose	A2-5	A2-6	A2-5	A2-6
A	138(5.43")	158(6.22")	138(5.43")	158(6.22")
B (P.C.D.)	104.8(4.13")	133.4(5.25")	104.8(4.13")	133.4(5.25")
C	82.6(3.25")	106.4(4.19")	82.6(3.25")	106.4(4.19")
D (for Drawtube)	M73xP1.5	M73xP1.5	M91xP1.5	M91xP1.5
E	100(3.94")	100(3.94")	138(5.43")	138(5.43")
F	78(3.07")	78(3.07")	90(3.54")	90(3.54")
L	123(4.84")	125(4.92")	145(5.71")	148(5.83")
Mounting Bolts	6H-M10	6H-M12	6H-M10	6H-M12
Collet	5C Collet	5C Collet	16C Collet	16C Collet
Ref. Cylinder	JAL636	JAL636	JA362	JA362
Max. Pull Force	1800kgf (3900lbf)	1800kgf (3900lbf)	2300kgf (5060lbf)	2300kgf (5060lbf)
Max. RPM	6000	6000	5000	5000
Net Weight	8.0kgs	9.0kgs	10.0kgs	12.0kgs

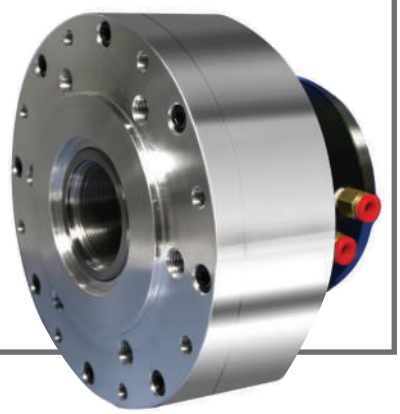
CPB Collet Chuck Dimension



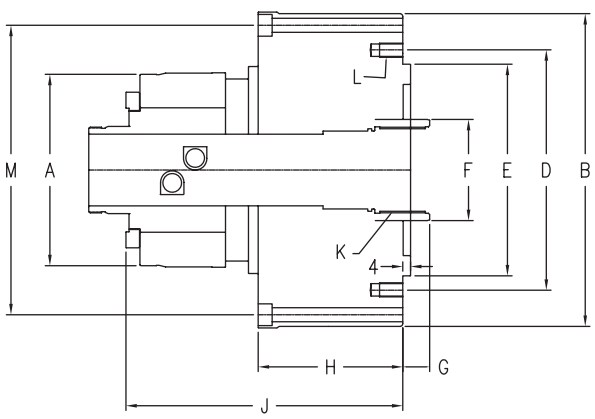
Model	CPB-5CA5	CPB-5CA6	CPB-16CA5	CPB-16CA6
Spindle Nose	A2-5	A2-6	A2-5	A2-6
A	137(5.39")	166(6.54")	137(5.39")	166(6.54")
B (P.C.D)	104.8(4.13")	133.4(5.25")	104.8(4.13")	133.4(5.25")
C	82.6(3.25")	106.4(4.19")	82.6(3.25")	106.4(4.19")
D(for Drawtube)	Max. M58	Max. M65	Max. M58	Max. M65
F	60(2.36")	60(2.36")	80(3.15")	80(3.15")
L	122(4.80")	122(4.80")	145(5.71")	145(5.71")
Mounting Bolts	3H-M10	3H-M12	6H-M10	6H-M12
Collet	5C Collet	5C Collet	16C Collet	16C Collet
Ref. Cylinder	JAL636	JAL636	JA362	JA362
Max. Pull For	1800kgf (3900lbf)	1800kgf (3900lbf)	2300kgf (5060lbf)	2300kgf (5060lbf)
Max. RPM	6000	6000	5000	5000
Net Weight	5.0kgs	7.5kgs	5.5kgs	10.0kgs

JAL Series
Pneumatic Cylinder

- Open center air cylinder, saving cost of hydraulic equipment
- Open center design allows bar parts gripping
- Adavnce bearing design: low temperature rising when operation
- Low air leakage
- Double piston design to offer high pulling force. (JA362)
- Please use 5um filter in F.R.L units



Dimension and Specification



Model	JAL636	JA362
Piston	Single Piston	Double Piston
A	105(4.13")	107(4.21")
B	162(6.38")	175(6.89")
D (P.C.D.)	115(4.53")	115(4.53")
E	100(3.94")	100(3.94")
F	55(2.17")	50(1.97")
G	0~12.0(0"~0.47")	-2.0~10.0(-0.10"~0.39")
H	58(2.28")	101(3.98")
J	120(4.72")	168(6.61")
K (for Drawtube)	M42xP1.5	M42xP1.5
L	6-M10	6-M10
M (P.C.D.)	147(5.79")8H-M6	N/A
Through Hole	36mm(1.42")	36mm(1.42")
Air Pressure	2~8kg/cm²(29-114psi)	2-8kg/cm²(29-114psi)
Max. RPM	3200	3600
Piston Stroke	12mm(0.47")	12mm(0.47")
Piston Area	123cm²(19.1in²)	287cm²(44.5in²)
Pulling Force	775kgf@7kg/cm²(1705lbf@100psi)	1810kgf@7kg/cm²(3980lbf@100psi)
Net Weight	7.2kgs(15.8lbs)	9.2kgs(20.3lbs)

JP Series

High Speed Diaphragm Chuck

- 0.005mm repeatability.
- Anti centrifugal force design. Clamping force remains high in high R.P.M.
- Integrated dynamic-balancing-weights for fine balance adjustment .
- No sliding parts to wear out.
- Clamping force/stroke is proportional to actuating force.
- Ideal for fragile parts, or thin-wall parts clamping.

JPL Series

Diaphragm Chuck for Grinders

- 0.005mm repeatability.
- Compact size. Light weighted.
- Special for precision grinders .
- No sliding parts to wear out.
- Clamping force/stroke is proportional to actuating force.
- Ideal for fragile parts, or thin-wall parts clamping.

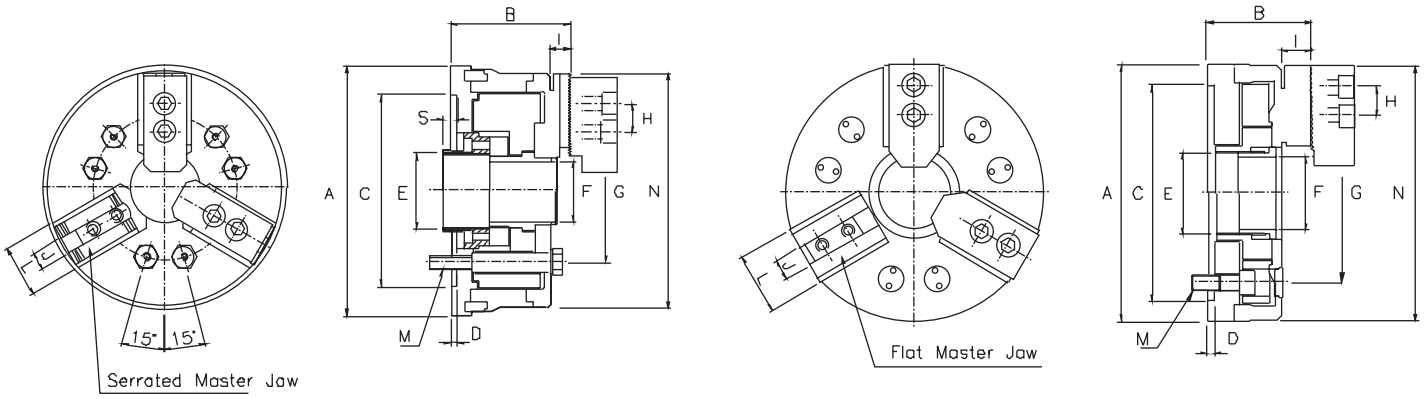
Introduction

JP/JPL Series Diaphragm Chuck performs its clamping movement by material deformation which features high repeatability and low maintenance requirements. Compared to regular wedge-hook power chucks, JP/JPL diaphragm chuck owns high repeatability of 0.005mm, and longer product life since JP/JPL has no clearance, no sliding parts to wear out. JP is designed for high speed turning machines. It incorporates balancing-weights to eliminate centrifugal force. JPL is specially designed for precision grinders. The chuck is with low profile and mass which enable your machines to have high performance and high chucking accuracy.

Applications

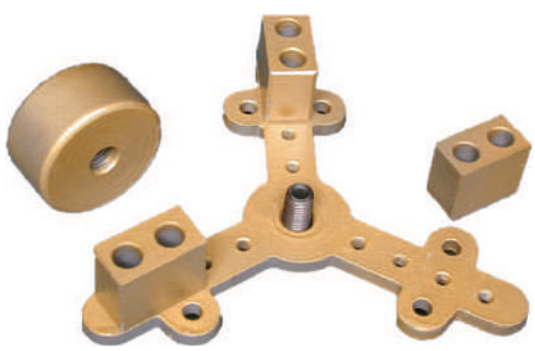
- Spindle Grinding of DC Micro Motors
- Precise Bush
- Lens of Electronic Equipment
- Lens Frame of Smartphone
- Ceramics Grinding
- Cardiovascular stent
- Laser Carving, Laser Cutting, Laser Wielding
- Case of Stylus
- Wafer Board

Dimension and Specification



Model	JP-05	JP-06	JP-08	JP-10	JP-06L	JP-08L
A	147mm(5.79")	182mm(7.17")	232mm(9.13")	267mm(10.51")	167mm(6.57")	217mm(8.54")
B	68mm(2.68")	87mm(3.42")	98mm(3.86")	105mm(4.13")	65.5mm(2.58")	71.5mm(2.82")
C (H6)	110mm(4.33")	140mm(5.51")	170mm(6.69")	220mm(8.66")	140mm(5.51")	170mm(6.69")
D	4mm(0.16")	4.5mm(0.16")	4.5mm(0.16")	5mm(0.20")	5mm(0.20")	5mm(0.20")
E	M40xP1.5	M55xP2.0	M60xP2.0	M85xP2.0	M55xP2.0	M60xP2.0
F	33mm(1.30")	44mm(1.73")	50mm(1.97")	75mm(2.95")	44mm(1.73")	52mm(2.05")
G (P.C.D.)	82.6mm(3.25")	104.8mm(4.13")	133.4mm(5.25")	171.4mm(6.75")	104.8mm(4.13")	133.4mm(5.25")
H	14mm(0.55")	20mm(0.79")	25mm(0.98")	30mm(1.18")	20mm(0.79")	25mm(0.98")
I	13mm(0.51")	15mm(0.60")	17mm(0.67")	17mm(0.67")	17.5mm(0.69")	18.5mm(0.73")
J	10mm(0.39")	12mm(0.47")	14mm(0.55")	16mm(0.63")	12mm(0.47")	14mm(0.55")
L	30mm(1.18")	38mm(1.50")	42mm(1.65")	47mm(1.85")	38mm(1.50")	42mm(1.65")
M	M10x3	M10x6	M12x6	M16x6	M10x6	M12x6
N	136mm(5.35")	170mm(6.70")	217mm(8.54")	256mm(10.08")	165mm(6.50")	220mm(8.66")
S	14mm(0.55")	11mm(0.43")	11mm(0.43")			
Max. RPM	8000	7500	6500	5500	600	600
Max. Axial Force	1750kgf(3850lbf)	2250kgf(4950lbf)	3500kgf(7700lbf)	4750kgf(10450lbf)	2250kgf(4950lbf)	3500kgf(7700lbf)
Adaptor size	Flat 110mm A2-4	Flat 140mm A2-5/A2-6	Flat 170mm A2-5/A2-6/A2-8	Flat 220mm A2-6/A2-8	Flat 140mm A2-5/A2-6	Flat 170mm A2-5/A2-6/A2-8
Net Weight	5.5kgs(12.1lbs)	11.0kgs(24.2lbs)	20.0kgs(44.0lbs)	30.5kgs(67.2lbs)	6.0kgs(13.2lbs)	9.4kgs(20.7lbs)

Example of Axial Stopper



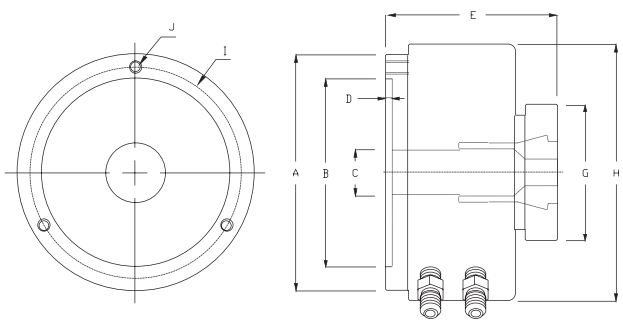
Rotary Power Chuck

(Collet Style)

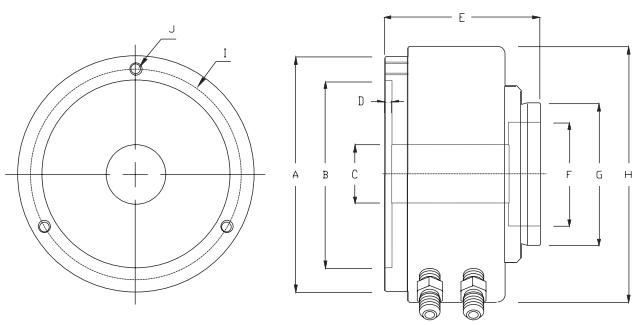
- **Built in rotary cylinder**
- **No draw tube, no rotary cylinder required**
- **Extra large piston, provide high clamping force**
- **Center through hole, able to arrange auto feeding**
- **Best budget solution for manual lathe into automation**
- **No fluid direct to the chuck body**
- **JA7-44 / JH7-44 is able to switch to expanding mandrel**
  See expanding kit at Page 15

(Jaw Style)

Collet Style Chuck



Jaw Style Chuck



Introduction

It used to be complex for users to convert a manual lathe into one with power workholding device since setting up a hydraulic system is quite troublesome. JATO Rotary Power Chuck is specially designed to help users to set up a power chuck in a low cost and easy way. With its built-in rotary actuator, the Rotary Power Chuck can be installed and start working in less than 20 minutes.

Rotary Power Chuck comes with both air chuck and hydraulic chuck models that range from small sizes to large ones, giving users more options to choose from. Rotary Power Chuck now is widely applied to convert manual lathes to semi-auto ones with power workholding system, or is applied to build special purpose machines.

Collet Style Power Chuck

Model	JA7-44	JH7-44
A	192(7.56")	192(7.56")
B	155(6.10")	155(6.10")
C	44(1.73")	44(1.73")
D	5(0.20")	5(0.20")
E	135(5.31")	135(5.31")
F	-	-
G	107(4.21")	107(4.21")
H	212(8.35")	212(8.35")
I (P.C.D)	172(6.77")	172(6.77")
J	3H-M10 (rear)	3H-M10 (rear)
Collet/ Jaw	C-44 Collet C-44I Expanding Kit	C-44 Collet C-44I Expanding Kit
Air/ Hydraulic	Air	Hydraulic
Operating Pressure	2-20kg/cm² (28-286psi)	2-20kg/cm² (28-286psi)
Max. RPM	1600	1600
Max. Capacity (Through/None)	44mm(1.73")	44mm(1.73")
Piston Area	117cm²(18in²)	117cm²(18in²)
Gripping Force	4725kgf@7kg/cm² (12020lbf@100psi)	10800kgf@16kg/cm² (24040lbf@229psi)
Net Weight	17kgs(37.4lbs)	17kgs(37.4lbs)

Jaw Style Power Chuck - Air

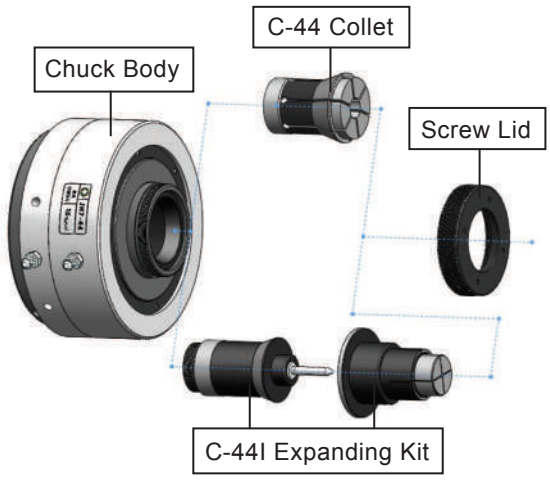
JA5-25	JA7-40	JA7-70
135(5.31")	192(7.56")	192(7.56")
100(3.94")	155(6.10")	155(6.10")
25(0.98")	45(1.77")	68(2.68")
4(0.16")	4.5(0.18")	5(0.20")
102(4.02")	126(4.96")	141(5.55")
45(1.77")	65(2.56")	105(4.13")
68(2.68")	94(3.70")	136(5.35")
170(6.69")	212(8.35")	265(10.43")
115(4.53")	172(6.77")	172(6.77")
3H-M8 (rear)	3H-M10 (rear)	3H-M10 (rear)
C-25 Jaw	C-40 Jaw	C-70 Jaw
Air	Air	Air
2-9kg/cm² (28-130psi)	2-9kg/cm² (28-130psi)	2-9kg/cm² (28-130psi)
1800	1600	1400
25mm/32mm (0.98"/1.26")	45mm/50mm (1.77"/1.97")	68mm/90mm (2.68"/3.54")
115cm²(17.8in²)	182cm²(28.2in²)	329cm²(50.8in²)
2254kgf@7kg/cm² (4958lbf@100psi)	3567kgf@7kg/cm² (7847lbf@100psi)	6429kgf@7kg/cm² (14143lbf@100psi)
7.5kgs(16.5lbs)	15.0kgs(33.0lbs)	22.5kgs(49.5lbs)

Jaw Style Power Chuck - Hydraulic

Model	JH5-25	JH7-40	JH7-70	JH9-90	JH9-120
A	135(5.31")	192(7.56")	192(7.56")	230(9.06")	229(9.02")
B	100(3.94")	155(6.10")	155(6.10")	190(7.48")	190(7.48")
C	25(0.98")	45(1.77")	68(2.68")	88(3.52")	118(4.65")
D	4.0(0.16")	4.5(0.18")	5.0(0.20")	5.5(0.22")	5.5(0.22")
E	102(4.02")	126(4.96")	141(5.55")	150(5.91")	157(6.18")
F	45(1.77")	65(2.56")	105(4.13")	105(4.13")	140(5.51")
G	68(2.68")	94(3.70")	136(5.35")	136(5.35")	168(6.61")
H	138(5.43")	190(7.48")	211(8.31")	232(9.13")	275(10.83")
I (P.C.D.)	115(4.53")	172(6.77")	172(6.77")	210(8.27")	210(8.27")
J	3H-M8 (rear)	3H-M10 (rear)	3H-M10 (rear)	3H-M12 (rear)	3H-M12 (rear)
Jaw	C-25 Jaw	C-40 Jaw	C-70 Jaw	C-90 Jaw	C-120 Jaw
Air/ Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Operating Pressure	10-25kg/cm² (143-357psi)	10-20kg/cm² (143-286psi)	10-20kg/cm² (143-286psi)	10-15kg/cm² (143-214psi)	10-15kg/cm² (143-214psi)
Max. RPM	1800	1600	1400	1100	900
Max. Capacity (Through/None)	25mm/32mm (0.98"/1.26")	45mm/50mm (1.77"/1.97")	68mm/90mm (2.68"/3.54")	88mm/88mm (3.52"/3.52")	118mm/118mm (4.65"/4.65")
Piston Area	56cm²(8.68in²)	85cm²(13.1in²)	117cm²(18.1in²)	133cm²(20.7in²)	183cm²(28.4in²)
Gripping Force	2508kgf@16kg/cm² (5519lbf@228psi)	4032kgf@16kg/cm² (8870lbf@228psi)	5197kgf@16kg/cm² (11433lbf@228psi)	5913kgf@16kg/cm² (13009lbf@228psi)	6148kgf@12kg/cm² (13528lbf@171psi)
Net Weight	6.0kgs(13.2lbs)	13.0kgs(28.6lbs)	18.0kgs(39.6lbs)	24.0kgs(52.8lbs)	30.0kgs(66.0lbs)

Rotary Power Chuck for Both Gripping and Expanding

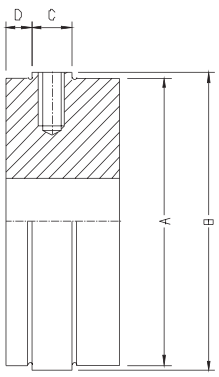
(JA7-44/JH7-44)



JA7-44/JH7-44 can work with C-44 collet to gripping O.D purpose; also can be switching to I.D clamping as a mandrel by install the expanding kits. The expanding kit including a push mandrel, a pin, and a C-44I expanding collet, which C-44I collet is make by order. Please join our website to see how to order a C-44I collet in the [Download]

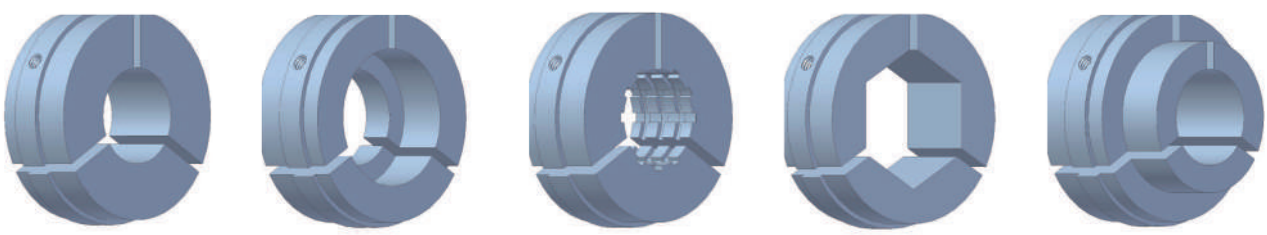
Jaw Pad for Jato Power Rotary and Stationary Chuck

Model Sheet with Jaw Pad



Model	A	B	C	D	Bolts	Working Chuck
C-25	45mm (1.77")	47.5mm (1.87")	7mm (0.28")	3.5mm (0.13")	M5x10	JA5-25/JH5-25
C-40	65mm (2.56")	67.5mm (2.66")	9mm (0.35")	6.0mm (0.24")	M6x12	JA7-40/JH7-40 JAS-40/JHS-40/CAF-40
C-70	105mm (4.13")	107.5mm (4.23")	9mm (0.35")	6.0mm (0.24")	M6x12	JA7-70/JH7-70/JH9-90 JHS-70/CAF-70
C-120	140mm (5.51")	143.5mm (5.65")	9mm (0.35")	6.0mm (0.24")	M6x14	JH9-120

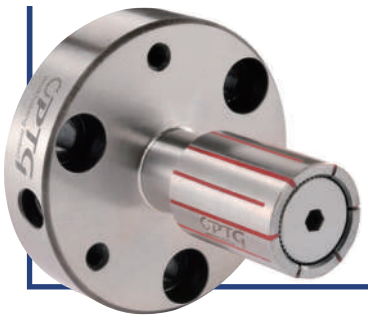
Varies Type of Jaw Pad



Through Hole | Step | Serrated | Square, Hexagon | Extra length

PTG Expanding Mandrel

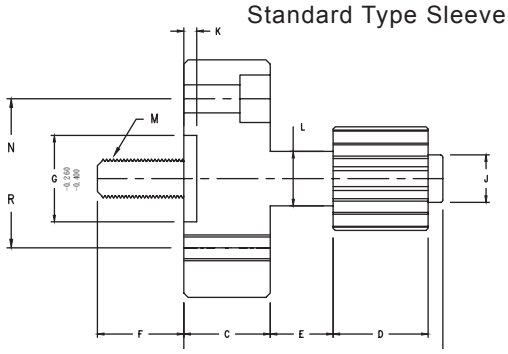
0.015mm T.I.R. Accuracy



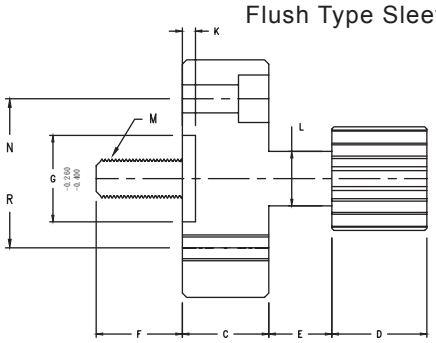
- Large expansion range up to 0.6mm
- Double-angle principle allows for fast loading/ unloading of components.
- Greater holding power by applying pressure evenly along the length of the sleeve
- Guaranteed accuracy of 0.015mm.

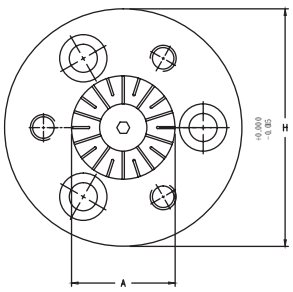
Dimension and Specification

Standard Type Sleeve



Flush Type Sleeve





Standard Type	3A1	2C1	1C1	18C1	4C1	5C1	6C1	7C1	8C1
A (Dia.)	Min:12.5 Max:16.0	Min:16.0 Max:22.0	Min:22.0 Max:28.5	Min:28.5 Max:41.0	Min:41.0 Max:63.5	Min:63.5 Max:76.2	Min:76.2 Max:89.0	Min:89.0 Max:130.0	Min:130.0 Max:178.0
B	60	66	72	79	84	109	118	133	153
C	20	20	20	20	20	25	25	30	30
D	22.0	27.0	32.0	38.0	43.0	51.0	57.0	63.5	79.5
E	14.6	15.0	15.5	15.3	14.8	25.3	24.7	25.2	24.6
F	20	22	30	31	36	36	37	47	22
G	40	40	40	40	40	60	60	100	100
H	75	75	75	75	75	120	120	180	180
J	11.0	15.0	20.0	26.5	37.5	55.0	74.5	86.5	124.0
K	6	6	6	6	6	6	6	6	6
L	12.6	14.1	20.7	26.3	37.0	57.3	71.1	84.1	123.0
M (Pull Thread)	M4	M8	M8	M10	M12	M20	M20	M24	M36
N(Bolts)	Ø58-M8	Ø58-M8	Ø58-M8	Ø58-M8	Ø58-M8	Ø94-M10	Ø94-M10	Ø150-M12	Ø150-M12
R	Ø28-M4	Ø28-M4	Ø58-M6	Ø58-M6	Ø58-M6	Ø94-M8	Ø94-M8	Ø150-M10	Ø150-M10
Max. Pull Force(kgf)	700	1000	1200	1800	2300	2800	3200	3700	5500

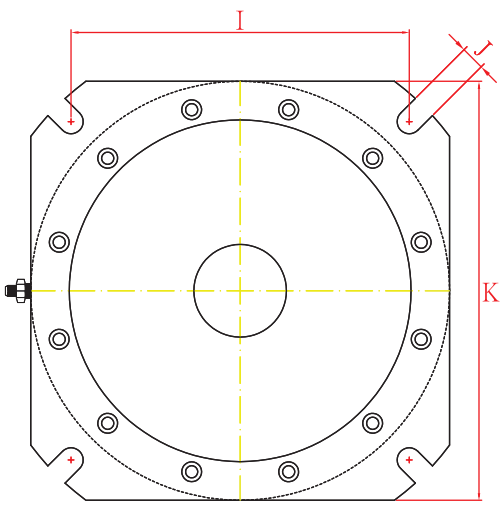
Standard Type	3A2	2C2	1C2	18C2	4C2	5C2	6C2	7C2	8C2
A(Dia.)	Min:16.5 Max:22.0	Min:22.0 Max:28.5	Min:28.5 Max:40.0	Min:40.0 Max:51.0	Min:51.0 Max:73.0	Min:73.0 Max:89.0	Min:89.0 Max:102.0	Min:101.0 Max:143.0	Min:143.0 Max:178.0
C	20	20	20	20	20	25	25	30	30
D	26.0	32.0	38.0	45.0	50.0	60.0	69.0	78.5	99.5
E	14.6	15.0	15.5	15.3	14.8	25.3	24.7	25.2	24.6
F	20	22	30	31	36	36	37	47	22
G	40	40	40	40	40	60	60	100	100
H	75	75	75	75	75	120	120	180	180
J	11.0	15.0	20.0	26.5	37.5	55.0	74.5	86.5	124.0
K	6	6	6	6	6	6	6	6	6
L	12.6	14.1	20.7	26.3	37.0	57.3	71.1	84.1	123.0
M (Pull Thread)	M4	M8	M8	M10	M12	M20	M20	M24	M36
N(Bolts)	Ø58-M8	Ø58-M8	Ø58-M8	Ø58-M8	Ø58-M8	Ø94-M10	Ø94-M10	Ø150-M12	Ø150-M12
R	Ø28-M4	Ø28-M4	Ø58-M6	Ø58-M6	Ø58-M6	Ø94-M8	Ø94-M8	Ø150-M10	Ø150-M10
Max. Pull Force(kgf)	700	1000	1200	1800	2300	2800	3200	3700	5500

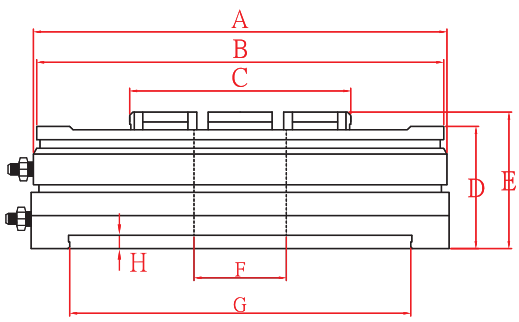
JDS Series

Diaphragm Stationary Chuck

- Steel made body
- Big through hole 40mm
- Stepless clamping force, correlated to input pressure
- Super long life
- Low base, neat composition, come with rough rigidity
- Applies to clamping and expanding working jaws blind switch permitted
- High resistant to cutting chips, fluid and dust

Dimension and Specification

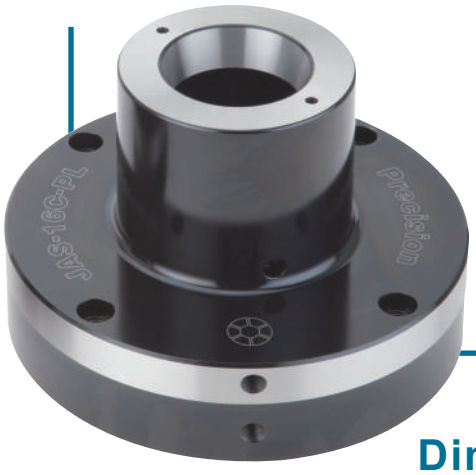




Model	JDS-60	JDS-100
A	118mm(4.645")	188mm(7.401")
B	115mm(4.527")	185mm(7.283")
C	60mm(2.362")	100mm(3.937")
D	44.5mm(1.751")	55mm(2.165")
E	48mm(1.889")	59.5mm(2.342")
F (Through Hole)	20mm(0.787")	40mm(1.653")
G	90mm(3.543")	155mm(6.102")
H	4mm(0.157")	5mm(0.196")
I	97mm(3.818")	153mm(6.023")
J	9mm(0.354")	11mm(0.433")
K	118mm4.645")	190mm(7.480")
Operating Pressure	0.5-7kg/cm²(7-100psi)	0.5-7kg/cm²(7-100psi)
Jaw	JD-60	JD-100
Net Weight	3.5kgs(7.7lbs)	10kgs(22lbs)

JAS-5C-PL / JAS-16C-PL

Stationary Collet Chuck-Pull Back

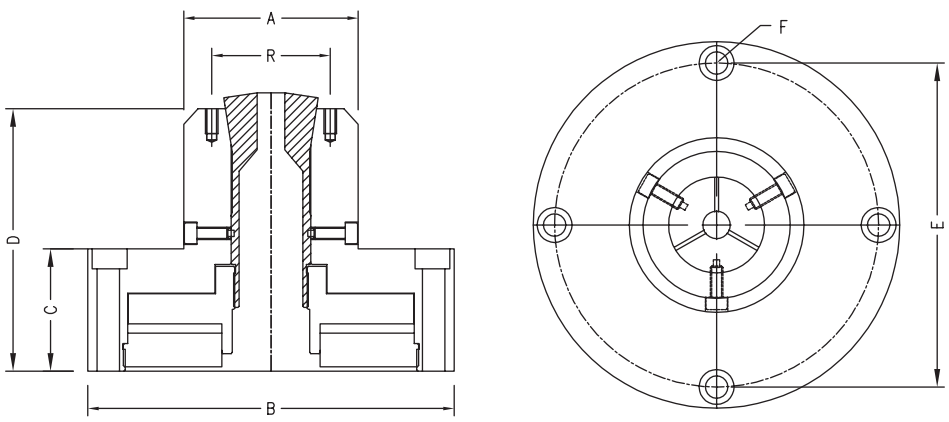


Introduction

Jato streamline the design of chuck body, find a balance between size of chuck body and clamping force. A compact chuck body is trying to fit in more chuck in the deck of machine center. Pull Back style provide more concentricity than other stationary chuck.

- **Steel body with hardness process**
- **High accuracy, high rigidity**
- **Longevity product life**
- **Powerful clamping force**
- **High resistant to chips, fluid and dust**

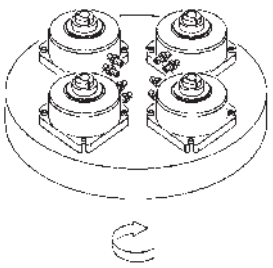
Dimension and Specifications

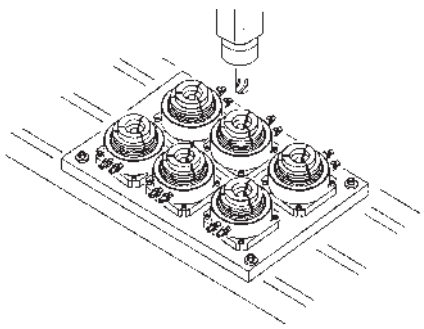


Model	JAS-5C-PL	JAS-16C-PL
A	70(2.76")	90(3.54")
B	147(5.79")	178(7.00")
C	49(1.93")	49(1.93")
D	105(4.13")	126(4.96")
E	130(5.12")	158(6.22")
R	50(1.97")2H-M5	73(2.87")2H-M5
F (Bolts)	4H-M8	4H-M8
Collet	5C Collet	16C Collet
Input Pressure	3-8kg/cm²(43-114psi)	3-8kg/cm²(43-114psi)
Max. Capacity	26mm(1.02")	40mm(1.57")
Piston Area	88cm²(13.7in²)	131cm²(20.3in²)
Clamping Force	2355kgf@7kg/cm² (5181lbf@100psi)	3410kgf@7kg/cm² (7502lbf@100psi)
Net weight	6.5kgs(14.3lbs)	12.5kgs(27.5lbs)

JAS/JHS Stationary Chuck

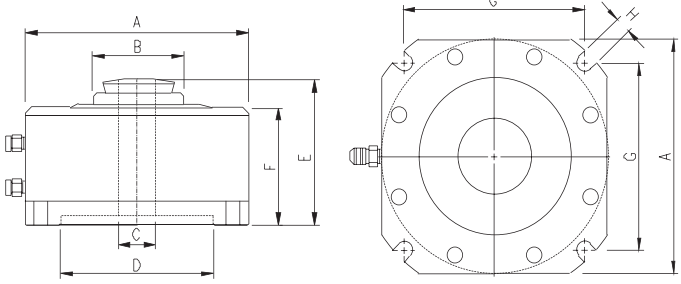
- Cost effective stationary collet chuck.
- Dead length design: no axial movement.
- High accuracy. High rigidty. Long product life.
- High resistant to cutting chips, fluid or dust.
- Chuck force-opening design ensures no workpart jamming.



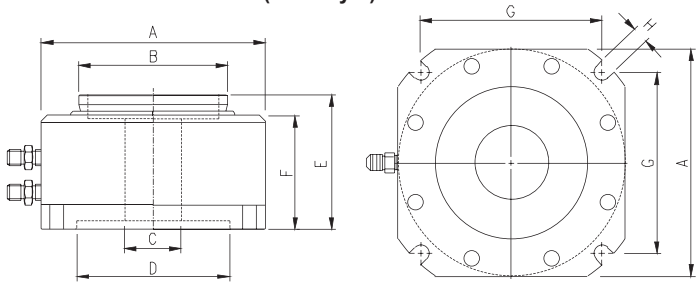


Dimension and Specifications

JAS-15/JAS-25/JAS-5C (Collet Style)



JAS-40/JHS-40/JHS-70 (Jaw Style)

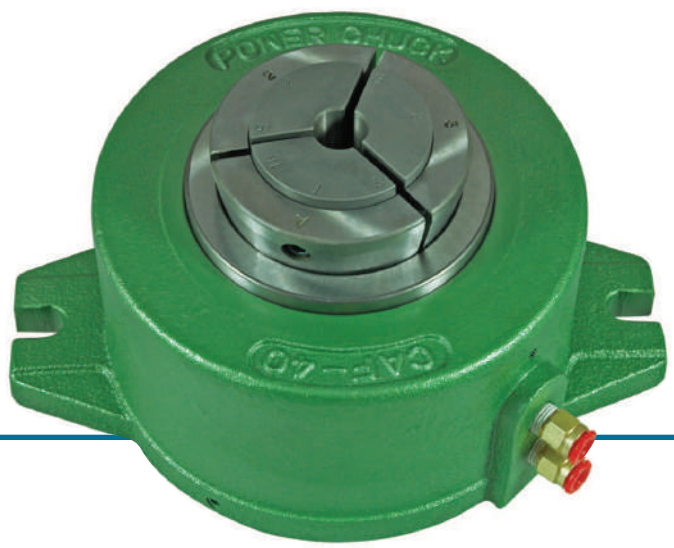


Model	JAS-15	JAS-25	JAS-5C	JAS-40	JHS-40	JHS-70
A	118(4.65")	144(5.67")	144(5.67")	168(6.61")	144(5.67")	190(7.48")
B	40(1.57")	55(2.17")	55(2.17")	95(3.74")	95(3.74")	136(5.35")
C	15(0.59")	26(1.02")	26(1.02")	38(1.50")	38(1.50")	68(2.68")
D	90(3.54")	100(3.94")	100(3.94")	100(3.94")	100(3.94")	155(6.10")
E	77(3.03")	108(4.25")	93(3.66")	97(3.82")	94(3.70")	95(3.73")
F	64(2.52")	74(2.91")	74(2.91")	77(3.03")	73(2.87")	74(2.91")
G	97(3.82")	118(4.65")	118(4.65")	136.5(5.37")	118(4.65")	153.5(6.04")
H	9(0.35")	9(0.35")	9(0.35")	11(0.43")	9(0.35")	11(0.43")
Collet /Jaw	YB-15 Collet	YB-25 Collet	5C Collet	C-40 Jaw	C-40 Jaw	C-70 Jaw
Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic
Operating Pressure	3-15kg/cm² (43-214psi)	3-15kg/cm² (43-214psi)	3-15kg/cm² (43-214psi)	3-8kg/cm² (43-114psi)	5-20kg/cm² (43-286psi)	6-20kg/cm² (43-286psi)
Max. Capacity (Through Hole)	15mm(0.60")	26mm(1.02")	26mm(1.02")	38mm(1.50")	38mm(1.50")	68mm(2.68")
Max. Capacity (Non-Through Hole)	18mm(0.71")	28mm(1.10")	28mm(1.10")	50mm(1.97")	50mm(1.97")	90mm(3.54")
Piston Area	79cm²(12.2in²)	112cm²(17.4in²)	112cm²(17.4in²)	240cm²(372in²)	86cm²(13.3in²)	110cm²(17.1in²)
Gripping Force	2135kgf@7kg/cm² (4697lbf@100psi)	2945kgf@7kg/cm² (6479lbf@100psi)	2945kgf@7kg/cm² (6479lbf@100psi)	4065kgf@7kg/cm² (8943lbf@100psi)	4150kgf@20kg/cm² (9130lbf@286psi)	5360kgf@20kg/cm² (12098lbf@286psi)
Net Weight	5.0kgs(11.0lbs)	9.0kgs(19.8lbs)	9.0kgs(19.8lbs)	12.5kgs(27.5lbs)	8.5kgs(18.7lbs)	13.5kgs(29.7lbs)

CAF Series

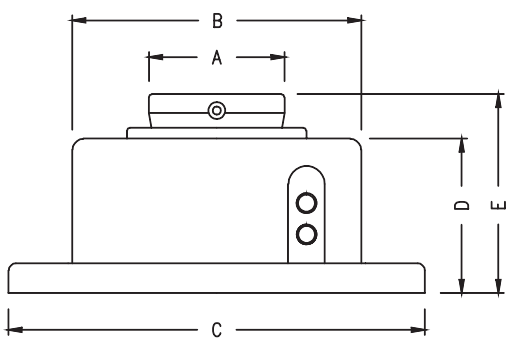
Stationary Chuck

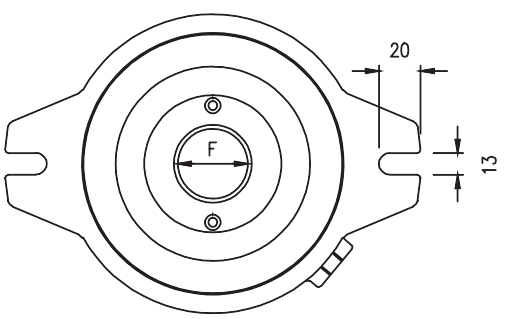
- Cast iron body
- Classic model for Tapping and Drilling
- A very high CP ratio product
- Double Piston area, powerful clamping force
- High resistant to chips, fluid and dust



Introduction

CAF series stationary chuck is the very first generation of JATO most classic model. Old model lasting nearly 40 decades till present day. A very high CP ratio as this model being long product life, easy to maintain and works great in tapping and grill machine. Operarting by input air either hydro. Cost effective stationary collet chuck.





Dimension and Specifications

Model	CAF-25	CAF-40	CAF-70
A	60(2.36")	94(3.70")	136(5.35")
B	162(6.38")	196(7.72")	216(8.50")
C	221(8.70")	265(10.43")	285(11.22")
D	73(2.87")	96(3.78")	103(4.06")
E	103(4.06")	124(4.88")	135(5.31")
F	26(1.02")	48(1.89")	68(2.68")
Collet/ Jaw	YB-25 Collet	C-40 Jaw	C-70 Jaw
Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic	Air/ Hydraulic
Operating Pressure	3-15kg/cm² (43-214psi)	3-10kg/cm² (43-114psi)	5-10kg/cm² (43-114psi)
Max. Capacity (Through /None)	26mm/28mm(1.02"/1.10")	45mm/50mm(1.77"/1.97")	68mm/90mm(2.68"/3.54")
Piston Area	130mm(5.11")	192mm(7.55")	242mm(9.52")
Gripping Force	3185kgf@7kg/cm² (7007lbf@100psi)	4700kgf@7kg/cm² (10340lbf@100psi)	5930kgf@7kg/cm² (13046lbf@100psi)
Net Weight	9.0kgs(19.8lbs)	14.0kgs(30.8lbs)	23.0kgs(50.6lbs)

Draw-back collet						Max. Capacity		
Model	Figure	d	α(slope)	L	M(Thread)	Round	Square	Hexagon
YB-15	Fig. 1	19.0	10°	76.0	M18xP1.2	15.0	10.6	13.0
YB-25	Fig. 1	32.0	10°	102.0	M31.5x20T	26.0	18.3	22.5
5C	Fig. 1	31.75	10°	87.0	M31.5x20T	26.0	18.3	22.5
16C	Fig. 1	48.0	10°	114.0	M47.5xP1.75	40.0	28.2	34.6

Push-Forward collet						Max. Capacity		
Model	Figure	d	α(slope)	L	M(Thread)	Round	Square	Hexagon
B30(163E)	Fig. 2	35.0	15°	80.0	48	30	21.2	25.9
B42(173E)	Fig. 2	48.0	15°	94.0	60	42	30.1	36.3
B60(185E)	Fig. 2	66.0	15°	110.0	84	60	42.4	51.9
B80(193E)	Fig. 2	90.0	15°	130.0	107	80	56.5	69.2
C-44	Fig. 2	54.0	19°	87.0	68	44	31.0	38.1

Rubber Collet						Gripping Range		
Model	Figure	d	α(slope)	L	M(Thread)	Round	Square	Hexagon
SS42	Fig. 3	54.0	15°	42.0	79.3	4-42	30.1	36.3
SS65	Fig. 3	80.0	15°	53.0	99.5	4-65	45.9	56.2

Rotary Power Chuck-Collet for Replacement							
Chuck Model	Figure	d	α(slope)	L	M(Thread)	D1	D2
JA5-25/JH5-25	Fig. 4	39.0	15°	98.0	M35.9X16T	45.0	68.0
JA7-40/JH7-40	Fig. 4	60.0	15°	120.0	M59.0X16T	65.0	94.0
JA7-70/JH7-70	Fig. 4	82.0	15°	135.0	M79.9X16T	105.0	136.0
JH9-90	Fig. 4	82.0	15°	135.0	M79.9X16T	105.0	136.0
JH9-120	Fig. 4	135.0	15°	151.0	M133.0X16T	140.0	168.0

Fig.1 Draw-Back Collet

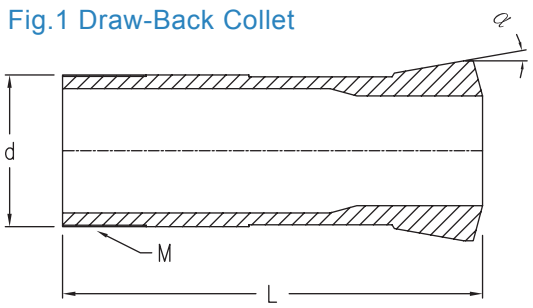


Fig.2 Push-Type Collet

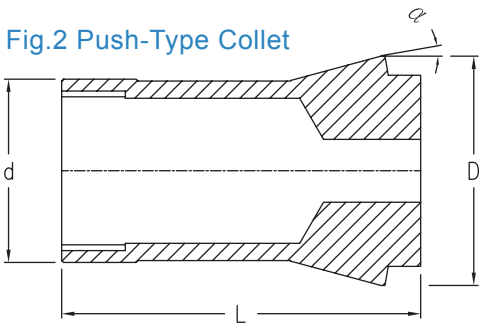


Fig.3 Rubber Collet

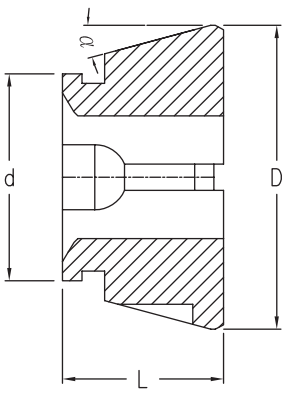
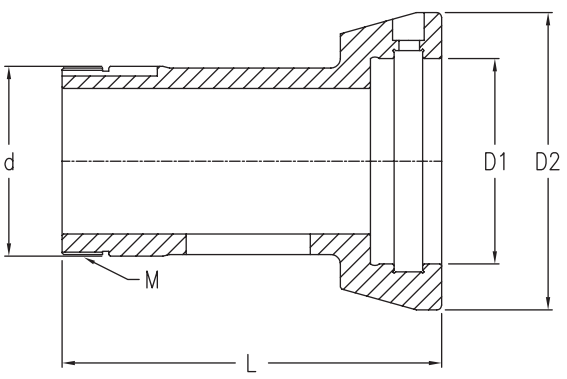


Fig.4 Collet to Rotary Power Chuck



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