



CHUCK

3-Jaw Ultra High Precision Air Chuck KPC series

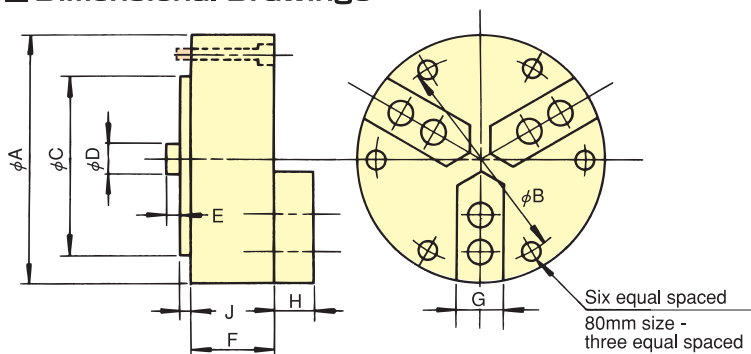
High Repeatability

Optimum KPC chuck for finishing and precision processes



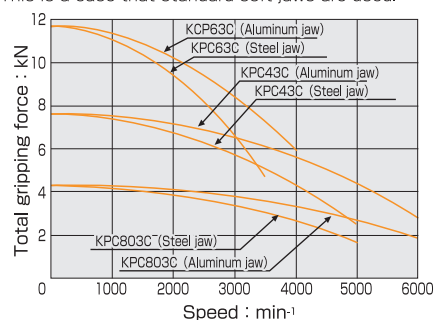
● Built-in Pneumatic Cylinder

Dimensional Drawings



Gripping Characteristic Graphs

※ Each curve shows air pressure 0.7MPa (7.1kgf/cm²). This is a case that standard soft jaws are used.



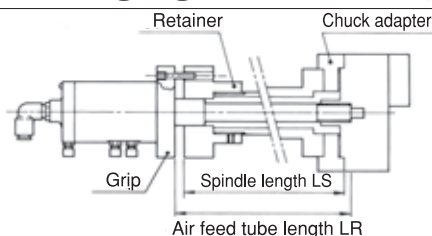
Dimensions

Dimensions model	A	B	C (h6)	D	E max.	E min.	F	G	H	J	Jaw Mounting bolts	Mounting bolts	Net Weight with Soft top jaws kg
KPC803C100	80	70	60	20.6	17	9.9	55	20	19	2	3-M5×16	3-M5×60	1.8
KPC43C048	100	88.9	82.55	20.6	18.8	15.3	50.5	20	19	2	3×2-M5×16	6-M5×55	2.1
KPC43C100	100	88.9	82.55	20.6	18	10.8	55	20	19	2	3×2-M5×16	6-M5×60	2.1
KPC63C100	150	135.8	124.97	20.6	17.6	10.4	56	25	19	2	3×4-M5×16	6-M6×65	6.3

Specifications

model	Specifications	Repeatability mm	Number of Jaws	Jaw Stroke (diameter) mm	Gripping range		Max. Gripping Force kN (kgf) (Air pressure 0.7MPa)	Max. Speed (with std. Aluminum jaw) min ⁻¹
					external ϕ	Internal ϕ		
KPC803C100P		0.0025	3	2.5	3~70	6~79	4.3 (438)	6000
KPC803C100EP		0.0013						
KPC803C100EP1		0.0010						
KPC43C048P		0.0025	3	1.2	3.5~87	6~99	7.6 (775)	6000
KPC43C048EP		0.0013						
KPC43C048EP1		0.0010						
KPC43C100P		0.0025	3	2.5	3~87	6~99	7.6 (775)	6000
KPC43C100EP		0.0013						
KPC43C100EP1		0.0010						
KPC63C100P		0.0025	3	2.5	3~135	6~149	11.6 (1183)	4000
KPC63C100EP		0.0013						
KPC63C100EP1		0.0010						

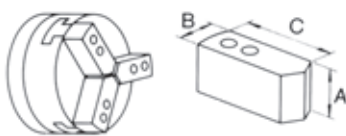
Ordering length of air feed tube (option)



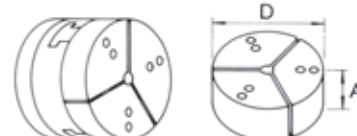
When ordering the air feed tube (coolant or non-coolant type), specify the spindle length LS as shown in the illustration. Air feed tube length LR is determined by LS. E.G. LR = LS + 17

In case of KPC43C048: LR = LS + 12
Chuck Adaptor and Retainer are options

Standard type jaw



Pie type jaw



Standard type jaw Dimensions

Chuck	Jaw model	Material	Dimensions mm		
			A	B	C
KPC80 TYPE	KJ1A3-7	A l	19	20	38.4
	KJ1A3-15	A l	38	20	38.4
	KJ1A3-1	A l	25	20	38.4
	KJ1S3-7	S45C	19	20	38.4
	KJ1S3-15	S45C	38	20	38.4
KPC4 TYPE	KJ1A4-1	A l	25	20	48.4
	KJ1A4-7	A l	19	20	48.4
	KJ1A4-15	A l	38	20	48.4
	KJ1S4-1	S45C	25	20	48.4
	KJ1S4-2	S45C	51	20	48.4
KPC6 TYPE	KJ1S6-7	S45C	19	25	73.4
	KJ1S6-15	S45C	38	25	73.4
	KJ1S6-1	S45C	25	25	73.4

Pie type jaw Dimensions

Chuck	Jaw model	Material	Dimensions mm	
			A	D
KPC80 TYPE	KJ3A3-1	A l	25	80
	KJ3S3-1	S45C	25	80
	KJ3S3-7	S45C	19	80
KPC4 TYPE	KJ3A4-1	A l	25	100
	KJ3A4-15	A l	38	100
	KJ3S4-2	S45C	51	100
	KJ3S4-7	S45C	19	100
	KJ3S4-15	S45C	38	100
KPC6 TYPE	KJ3S6-1	A l	25	150
	KJ3S6-7	S45C	25	150
	KJ3S6-15	S45C	38	150