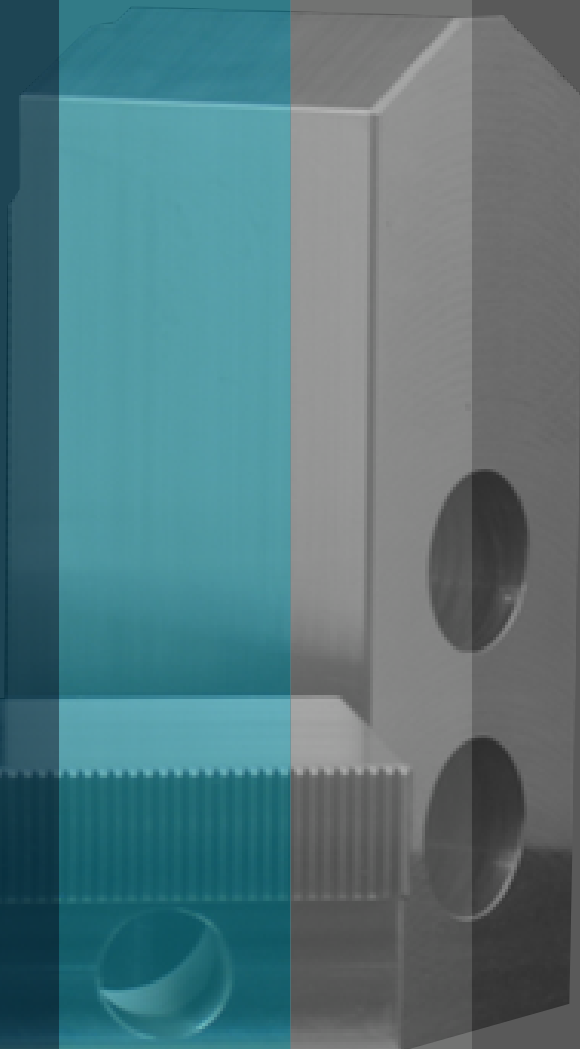
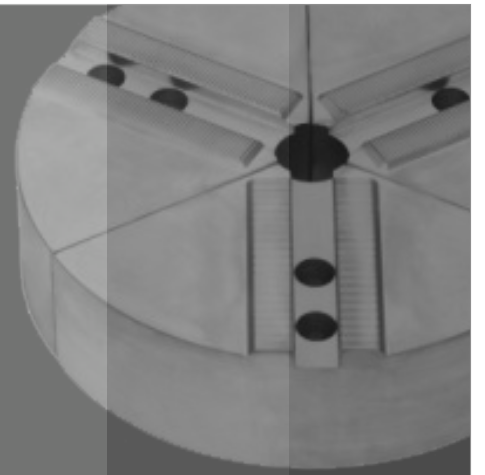


ACCU-FIX[®]
PRECISION TOOLS PVT. LTD.

WORK HOLDING
P R O D U C T S





About Us :

ACCU-FIX is a name synonymous with accuracy and precision. We are the technological leader in work holding products of international quality and standards. Manufacturing a wide range of work holding products with precision and consistency. We also guarantee Performance, Availability & Satisfaction. With state-of-the-art manufacturing facility in Vadodra, Raw materials and machines sourced from Europe and our strength of highly experienced workforce, We are striving to set a benchmark and achieve strong foothold in the Global market.



Our Team :

We believe our workforce is our greatest asset. A greater family of a kind, we believe that fostering this friendly culture would help retention and loyalty towards the company. This highly trained and experienced manpower comprises of design and process engineers, and production workers, who have a proven track record in Designing, Manufacturing, Quality Assurance, Procuring, Marketing of products and Services. Our QC department is equipped with modern gauges & measuring instruments and is operated with strict emphasis on quality control. The Team is totally dedicated to Customers Satisfaction, Environmental Protection and Waste Elimination through constant Productivity Improvement.

Our Vision :

ACCU-FIX believes in the philosophy of moving ahead ethically towards success and being updated with new technology to match the steps of global progress.

It is our continuous endeavour to improve on what we make and extend our horizons of quality. We are constantly trying to develop newer methods, making them more efficient and less expensive with minimized wastage. offering an optimized output.

With high-end technology and toolings sourced from Switzerland and other, European countries, the company manufactures work holding products of the highest standards. Our structured facility helps us to execute all operations in house which ensure better accuracy, as we never compromise on Quality & Delivery.



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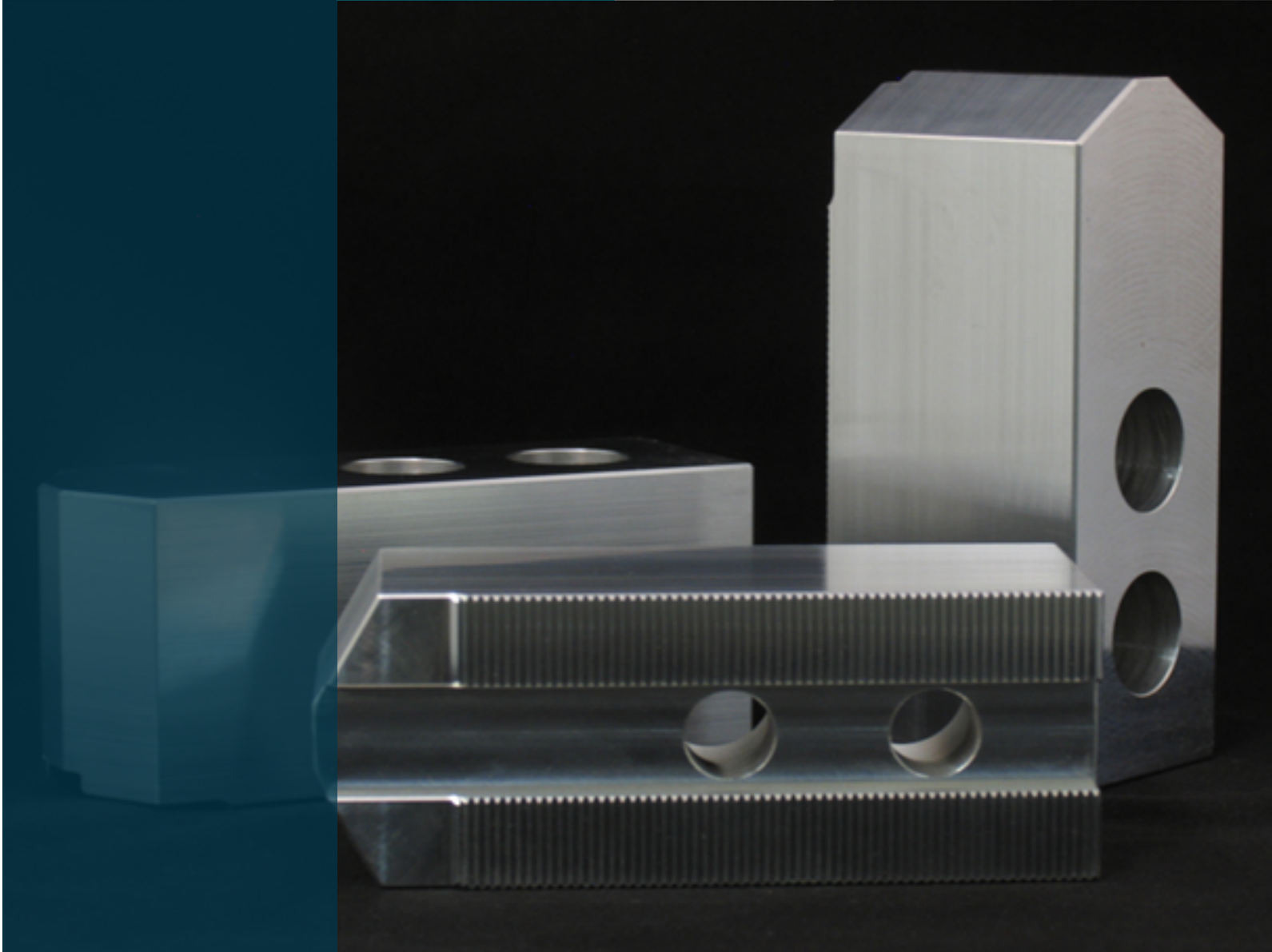
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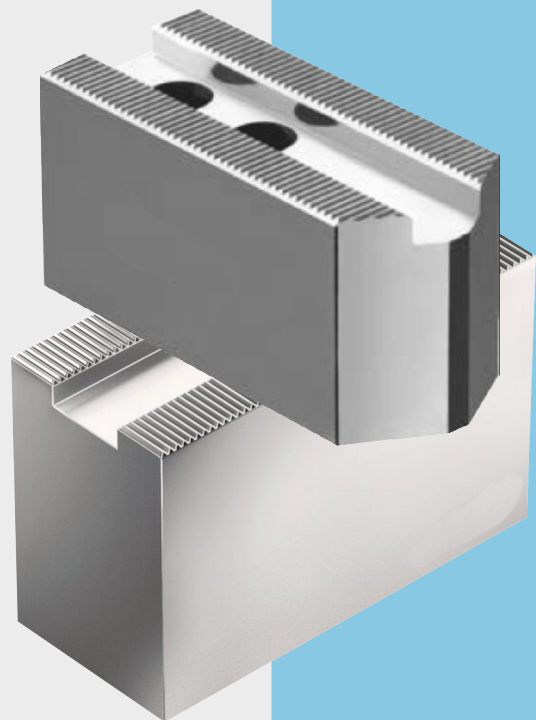
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SOFT JAWS

(STEEL & ALUMINUM)

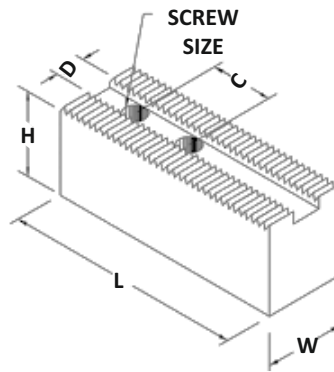


1.5mm x 60 Degree Serrations

Suitable for: Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, CMT, Nikko HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks.

For "Pointed" jaws substitute "P" for "F" at the end of Item#.

All dimensions are in mm (inch)



Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #
110 (4")	12	10	6	50 (2")	20 (3/4")	25 (1")	Standard	S1-12106-50-20-25-F	A1-12106-50-20-25-F
				50 (2")	20 (3/4")	50 (2")	High	S1-12106-50-20-50-F	A1-12106-50-20-50-F
	14	10	8	50 (2")	23	32 (1-1/4")	Standard	S1-14108-50-23-32-F	A1-14108-50-23-32-F
				50 (2")	23	58 (2-1/4")	High	S1-14108-50-23-56-F	A1-14108-50-23-56-F
				50 (2")	23	80 (3")	High	S1-14108-50-23-80-F	A1-14108-50-23-80-F
	15	8	6	50 (2")	20 (3/4")	25 (1")	Standard	S1-1586-50-20-25-F	A1-1586-50-20-25-F
50 (2")				20 (3/4")	50 (2")	High	S1-1586-50-20-50-F	A1-1586-50-20-50-F	
135 (5")	14	10	8	54	23	32 (1-1/4")	Standard	S1-14108-54-23-32-F	A1-14108-54-23-32-F
				54	23	58 (2-1/4")	Standard	S1-14108-54-23-56-F	A1-14108-54-23-56-F
				54	23	80 (3")	High	S1-14108-54-23-80-F	A1-14108-54-23-80-F
				63 (2-1/2")	23	100 (4")	High	S1-14108-63-23-100-F	A1-14108-63-23-100-F
	17	11	8	60	25 (1")	40 (1-1/2")	Standard	S1-17118-60-25-40-F	A1-17118-60-25-40-F
	18	10	8	60	25 (1")	40 (1-1/2")	Standard	S1-18108-60-25-40-F	A1-18108-60-25-40-F
				60	25 (1")	50 (2")	Standard	S1-18108-60-25-50-F	A1-18108-60-25-50-F
	19	10	8	60	25 (1")	40 (1-1/2")	Standard	S1-19108-60-25-40-F	A1-19108-60-25-40-F
170 (6")	20	11	10	76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S1-201110-76-32-40-F	A1-201110-76-32-40-F
				76 (3")	32 (1-1/4")	50 (2")	Standard	S1-201110-76-32-50-F	A1-201110-76-32-50-F
	20	12	10	82	32 (1-1/4")	32 (1-1/4")	Standard	S1-201210-82-32-32-F	A1-201210-82-32-32-F
				72	32 (1-1/4")	32 (1-1/4")	Standard	S1-201210-72-32-32-F	A1-201210-72-32-32-F
				72	32 (1-1/4")	40 (1-1/2")	Standard	S1-201210-72-32-40-F	A1-201210-72-32-40-F
				72	32 (1-1/4")	50 (2")	Standard	S1-201210-72-32-50-F	A1-201210-72-32-50-F
				76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S1-201210-76-32-40-F	A1-201210-76-32-40-F
				76 (3")	32 (1-1/4")	50 (2")	Standard	S1-201210-76-32-50-F	A1-201210-75-32-50-F
				76 (3")	50 (2")	50 (2")	Standard	S1-201210-76-50-50-F	A1-201210-76-50-50-F
				76 (3")	32 (1-1/4")	80 (3")	High	S1-201210-76-32-80-F	A1-201210-75-32-80-F
				76 (3")	32 (1-1/4")	100 (4")	High	S1-201210-76-32-100-F	A1-201210-75-32-100-F
				76 (3")	32 (1-1/4")	130 (5")	High	S1-201210-76-32-130-F	A1-201210-75-32-130-F
				76 (3")	32 (1-1/4")	150 (6")	High	S1-201210-76-32-150-F	A1-201210-75-32-150-F
				76 (3")	50 (2")	32 (1-1/4")	Wide	S1-201210-76-50-31-F	A1-201210-76-50-31-F

SOFT JAWS 1.5MM X 60 DEGREE SERRATIONS

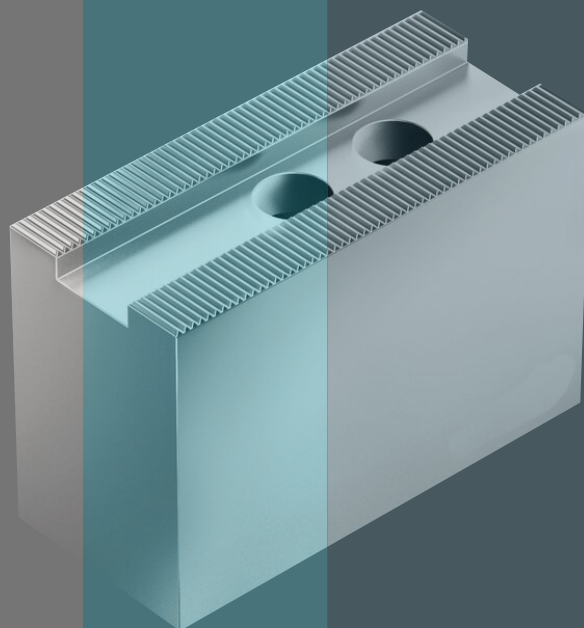
Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum			
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #			
170 (6")	20	12	10	76 (3")	60	32 (1-1/4")	Wide	S1-201210-76-60-31-F	A1-201210-76-60-31-F			
				76 (3")	80 (3")	32 (1-1/4")	Wide	S1-201210-76-80-31-F	A1-201210-76-80-31-F			
				76 (3")	63 (2-1/2")	50 (2")	Wide	S1-201210-76-63-50-F	A1-201210-76-63-50-F			
				76 (3")	63 (2-1/2")	63 (2-1/2")	Wide	S1-201210-76-63-63-F	A1-201210-76-63-63-F			
				76 (3")	70	70	Wide	S1-201210-76-70-70-F	A1-201210-76-70-70-F			
	20	14	10	76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S1-25118-76-32-40-F	A1-25118-76-32-40-F			
	25	11	8	76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S1-25118-76-32-40-F	A1-25118-76-32-40-F			
				76 (3")	32 (1-1/4")	50 (2")	Standard	S1-25118-76-32-50-F	A1-25118-76-32-50-F			
210 (8")	25	14	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S1-251412-95-40-40-F	A1-251412-95-40-40-F			
				102 (4")	35	40 (1-1/2")	Standard	S1-251412-102-35-40-F	A1-251412-102-35-40-F			
				95 (3-3/4")	35	45 (1-3/4")	Standard	S1-251412-95-35-45-F	A1-251412-95-35-45-F			
				95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S1-251412-95-40-50-F	A1-251412-95-40-50-F			
				95 (3-3/4")	50 (2")	50 (2")	Standard	S1-251412-95-50-50-F	A1-251412-95-50-50-F			
				95 (3-3/4")	40 (1-1/2")	80 (3")	High	S1-251412-95-40-80-F	A1-251412-95-40-80-F			
				95 (3-3/4")	40 (1-1/2")	100 (4")	High	S1-251412-95-40-100-F	A1-251412-95-40-100-F			
				95 (3-3/4")	40 (1-1/2")	120 (4-3/4")	High	S1-251412-95-40-120-F	A1-251412-95-40-120-F			
				95 (3-3/4")	40 (1-1/2")	150 (6")	High	S1-251412-95-40-150-F	A1-251412-95-40-150-F			
				95 (3-3/4")	40 (1-1/2")	180 (7")	High	S1-251412-95-40-180-F	A1-251412-95-40-180-F			
				95 (3-3/4")	40 (1-1/2")	205 (8")	High	S1-251412-95-40-205-F	A1-251412-95-40-205-F			
				95 (3-3/4")	50 (2")	35	Wide	S1-251412-95-50-35-F	A1-251412-95-50-35-F			
				95 (3-3/4")	63 (2-1/2")	35	Wide	S1-251412-95-63-35-F	A1-251412-95-63-35-F			
				95 (3-3/4")	80 (3")	35	Wide	S1-251412-95-80-35-F	A1-251412-95-80-35-F			
				95 (3-3/4")	70	50 (2")	Wide	S1-251412-95-70-50-F	A1-251412-95-70-50-F			
				95 (3-3/4")	90	50 (2")	Wide	S1-251412-95-90-50-F	A1-251412-95-90-50-F			
				95 (3-3/4")	63 (2-1/2")	63 (2-1/2")	Wide	S1-251412-95-63-63-F	A1-251412-95-63-63-F			
				95 (3-3/4")	70	70	Wide	S1-251412-95-70-70-F	A1-251412-95-70-70-F			
				95 (3-3/4")	80 (3")	80 (3")	High&Wide	S1-251412-95-80-80-F	A1-251412-95-80-80-F			
				120 (4-3/4")	40 (1-1/2")	40 (1-1/2")	Long	S1-251412-120-40-40-F	A1-251412-120-40-40-F			
	150 (6")	35	50 (2")	Long	S1-251412-150-35-50-F	A1-251412-150-35-50-F						
	150 (6")	35	63 (2-1/2")	Long	S1-251412-150-35-63-F	A1-251412-150-35-63-F						
	30	14	10	95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S1-301410-95-40-50-F	A1-301410-95-40-50-F			
				95 (3-3/4")	40 (1-1/2")	80 (3")	High	S1-301410-95-40-80-F	A1-301410-95-40-80-F			
				25	16	12	95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S1-251612-95-40-50-F	A1-251612-95-40-50-F
							95 (3-3/4")	40 (1-1/2")	80 (3")	High	S1-251612-95-40-80-F	A1-251612-95-40-80-F
							95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S1-231712-95-40-50-F	A1-231712-95-40-50-F
	23	17	12	95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S1-231712-95-40-50-F	A1-231712-95-40-50-F			
	254 (10")	30	16	12	110	40 (1-1/2")	40 (1-1/2")	Standard	S1-301612-110-40-40-F	A1-301612-110-40-40-F		
					110	50 (2")	45 (1-3/4")	Standard	S1-301612-110-50-45-F	A1-301612-110-50-45-F		
115 (4-1/2")					40 (1-1/2")	50 (2")	Standard	S1-301612-115-40-50-F	A1-301612-115-40-50-F			
125					40 (1-1/2")	40 (1-1/2")	Long	S1-301612-125-40-40-F	A1-301612-125-40-40-F			
110					40 (1-1/2")	80 (3")	High	S1-301612-110-40-80-F	A1-301612-110-40-80-F			
110					40 (1-1/2")	100 (4")	High	S1-301612-110-40-100-F	A1-301612-110-40-100-F			
110					40 (1-1/2")	120 (4-3/4")	High	S1-301612-110-40-120-F	A1-301612-110-40-120-F			

SOFT JAWS 1.5MM X 60 DEGREE SERRATIONS

Chuck Size	Critical Dimensions							Steel	Aluminum	
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Length L	Width W	Height H	Type	Item #	Item #	
254 (10")	30	16	12	110	40 (1-1/2")	150 (6")	High	S1-301612-110-40-150-F	A1-301612-110-40-150-F	
				110	40 (1-1/2")	180 (7")	High	S1-301612-110-40-180-F	A1-301612-110-40-180-F	
				110	40 (1-1/2")	205 (8")	High	S1-301612-110-40-205-F	A1-301612-110-40-205-F	
				110	63 (2-1/2")	40 (1-1/2")	Wide	S1-301612-110-63-40-F	A1-301612-110-63-40-F	
				110	100 (4")	40 (1-1/2")	Wide	S1-301612-110-100-40-F	A1-301612-110-100-40-F	
				110	70	50 (2")	Wide	S1-301612-110-70-50-F	A1-301612-110-70-50-F	
				110	63 (2-1/2")	63 (2-1/2")	Wide	S1-301612-110-63-63-F	A1-301612-110-63-63-F	
				110	70	70	Wide	S1-301612-110-70-70-F	A1-301612-110-70-70-F	
				110	80 (3")	80 (3")	High & Wide	S1-301612-110-80-80-F	A1-301612-110-80-80-F	
				115 (4-1/2")	40 (1-1/2")	80 (3")	High	S1-301612-115-40-80-F	A1-301612-115-40-80-F	
				115 (4-1/2")	40 (1-1/2")	100 (4")	High	S1-301612-115-40-100-F	A1-301612-115-40-100-F	
				115 (4-1/2")	40 (1-1/2")	120 (4-3/4")	High	S1-301612-115-40-120-F	A1-301612-115-45-120-F	
				150 (6")	40 (1-1/2")	50 (2")	Long	S1-301612-150-40-50-F	A1-301612-150-40-50-F	
				150 (6")	50 (2")	50 (2")	Long	S1-301612-150-50-50-F	A1-301612-150-50-50-F	
				150 (6")	40 (1-1/2")	63 (2-1/2")	Long	S1-301612-150-40-63-F	A1-301612-150-40-63-F	
				150 (6")	40 (1-1/2")	80 (3")	Long & High	S1-301612-150-40-80-F	A1-301612-150-40-80-F	
	150 (6")	40 (1-1/2")	90	Long & High	S1-301612-150-40-90-F	A1-301612-150-40-90-F				
		32	16	12	115 (4-1/2")	40 (1-1/2")	50 (2")	Standard	S1-321612-115-40-50-F	A1-321612-115-40-50-F
	115 (4-1/2")				40 (1-1/2")	80 (3")	High	S1-321612-115-40-80-F	A1-321612-115-40-80-F	
	304-315 (12")	30	18	14	130 (5")	50 (2")	50 (2")	Standard	S1-301814-130-50-50-F	A1-301814-130-50-50-F
145					50 (2")	50 (2")	Long	S1-301814-145-50-50-F	A1-301814-145-50-50-F	
180 (7")					50 (2")	50 (2")	Long	S1-301814-180-50-50-F	A1-301814-180-50-50-F	
130 (5")					50 (2")	80 (3")	High	S1-301814-130-50-80-F	A1-301814-145-50-80-F	
130 (5")					50 (2")	100 (4")	High	S1-301814-130-50-100-F	A1-301814-130-50-100-F	
130 (5")					50 (2")	120 (4-3/4")	High	S1-301814-130-50-120-F	A1-301814-130-50-120-F	
130 (5")					50 (2")	150 (6")	High	S1-301814-130-50-150-F	A1-301814-130-50-150-F	
130 (5")					50 (2")	180 (7")	High	S1-301814-130-50-180-F	A1-301814-130-50-180-F	
130 (5")					50 (2")	205 (8")	High	S1-302116-130-50-205-F	A1-302116-130-50-205-F	
					32	18	14	130 (5")	50 (2")	50 (2")
130 (5")		50 (2")	80 (3")	High				S1-321814-130-50-80-F	A1-321814-130-50-80-F	
		35	20	14	130 (5")	50 (2")	50 (2")	Standard	S1-352014-130-50-50-F	A1-352014-130-50-50-F
130 (5")					50 (2")	100 (4")	High	S1-352014-130-50-100-F	A1-352014-130-50-100-F	
		38	18	14	130 (5")	50 (2")	50 (2")	Standard	S1-381814-130-50-50-F	A1-381814-130-50-50-F
		35	21	16	140 (5-1/2")	50 (2")	50 (2")	Standard	S1-352116-140-50-50-F	A1-352116-140-50-50-F
140 (5-1/2")					50 (2")	80 (3")	High	S1-352116-140-50-80-F	A1-352116-140-50-80-F	
		30	21	16	130 (5")	50 (2")	50 (2")	Standard	S1-302116-130-50-50-F	A1-302116-130-50-50-F
130 (5")					50 (2")	58 (2-1/4")	Standard	S1-302116-130-50-58-F	A1-302116-130-50-58-F	
150 (6")					50 (2")	50 (2")	Long	S1-302116-150-50-50-F	A1-302116-150-50-50-F	
180 (7")					50 (2")	50 (2")	Long	S1-302116-180-50-50-F	A1-302116-180-50-50-F	
130 (5")					50 (2")	80 (3")	High	S1-302116-130-50-80-F	A1-302116-130-50-80-F	
130 (5")					50 (2")	100 (4")	High	S1-302116-130-50-100-F	A1-302116-130-50-100-F	
130 (5")					50 (2")	120 (4-3/4")	High	S1-302116-130-50-120-F	A1-302116-130-50-120-F	

SOFT JAWS 1.5MM X 60 DEGREE SERRATIONS

Chuck Size	Critical Dimensions							Steel	Aluminum	
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Length L	Width W	Height H	Type	Item #	Item #	
304-315 (12")	30	21	16	130 (5")	50 (2")	150 (6")	High	S1-302116-130-50-150-F	A1-302116-130-50-150-F	
				130 (5")	50 (2")	180 (7")	High	S1-302116-130-50-180-F	A1-302116-130-50-180-F	
				130 (5")	50 (2")	205 (8")	High	S1-302116-130-50-205-F	A1-302116-130-50-205-F	
381 (15")	43	22	20	165 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S1-432220-165-63-63-F	A1-432220-165-63-63-F	
				165 (6-1/2")	60	72	Standard	S1-432220-165-60-72-F	A1-432220-165-60-72-F	
				165 (6-1/2")	63 (2-1/2")	80 (3")	High	S1-432220-165-63-80-F	A1-432220-165-63-80-F	
				165 (6-1/2")	63 (2-1/2")	100 (4")	High	S1-432220-165-63-100-F	A1-432220-165-63-100-F	
				165 (6-1/2")	60 (2-1/2")	120 (4-3/4")	High	S1-432220-165-60-120-F	A1-432220-165-60-120-F	
				165 (6-1/2")	63 (2-1/2")	150 (6")	High	S1-432220-165-63-150-F	A1-432220-165-63-150-F	
				165 (6-1/2")	63 (2-1/2")	180 (7")	High	S1-432220-165-63-180-F	A1-432220-165-63-180-F	
				165 (6-1/2")	63 (2-1/2")	205 (8")	High	S1-432220-165-63-205-F	A1-432220-165-63-205-F	
				205 (8")	63 (2-1/2")	63 (2-1/2")	Long	S1-432220-205-63-63-F	A1-432220-205-63-63-F	
				230 (9")	70 (2-3/4")	70 (2-3/4")	Long	S1-432220-230-70-70-F	A1-432220-230-70-70-F	
457 (18")	43	25.5	20	135 (5-1/4")	60	60	Standard	S1-4325.520-135-60-60-F	A1-4325.520-135-60-60-F	
				165 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S1-4325.520-165-63-63-F	A1-4325.520-165-63-63-F	
				165 (6-1/2")	63 (2-1/2")	80 (3")	High	S1-4325.520-165-63-80-F	A1-4325.520-165-63-80-F	
				165 (6-1/2")	63 (2-1/2")	100 (4")	High	S1-4325.520-165-63-100-F	A1-4325.520-165-63-100-F	
				135 (5-1/4")	60	120 (4-3/4")	High	S1-4325.520-135-60-120-F	A1-4325.520-135-60-120-F	
				165 (6-1/2")	63 (2-1/2")	120 (4-3/4")	High	S1-4325.520-165-63-120-F	A1-4325.520-165-63-120-F	
				165 (6-1/2")	63 (2-1/2")	150 (6")	High	S1-4325.520-165-63-150-F	A1-4325.520-165-63-150-F	
				165 (6-1/2")	63 (2-1/2")	180 (7")	High	S1-4325.520-165-63-180-F	A1-4325.520-165-63-180-F	
				165 (6-1/2")	63 (2-1/2")	205 (8")	High	S1-4325.520-165-63-205-F	A1-4325.520-165-63-205-F	
				165 (6-1/2")	63 (2-1/2")	205 (8")	High	S1-4325.520-165-63-1205-F	A1-4325.520-165-63-1205-F	
	45	21	16	16	165 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S1-452116-165-63-63-F	A1-452116-165-63-63-F
					165 (6-1/2")	63 (2-1/2")	80 (3")	High	S1-452116-165-63-80-F	A1-452116-165-63-80-F
					165 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S1-602022-165-63-63-F	A1-602022-165-63-63-F
					165 (6-1/2")	63 (2-1/2")	80 (3")	High	S1-602022-165-63-80-F	A1-602022-165-63-80-F
	60	22	20	20	140 (5-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S1-3825.520-140-63-63-F	A1-3825.520-140-63-63-F
					140 (5-1/2")	63 (2-1/2")	80 (3")	High	S1-3825.520-140-63-80-F	A1-3825.520-140-63-80-F

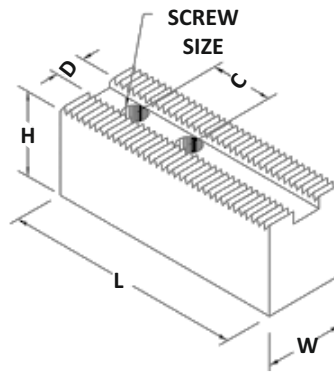


3.0MM x 60 Degree Serration

Suitable for: Berg, Forkardt, Gamet, Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks.

For "Pointed" jaws substitute "P" for "F" at the end of Item#.

All dimensions are in mm (inch)

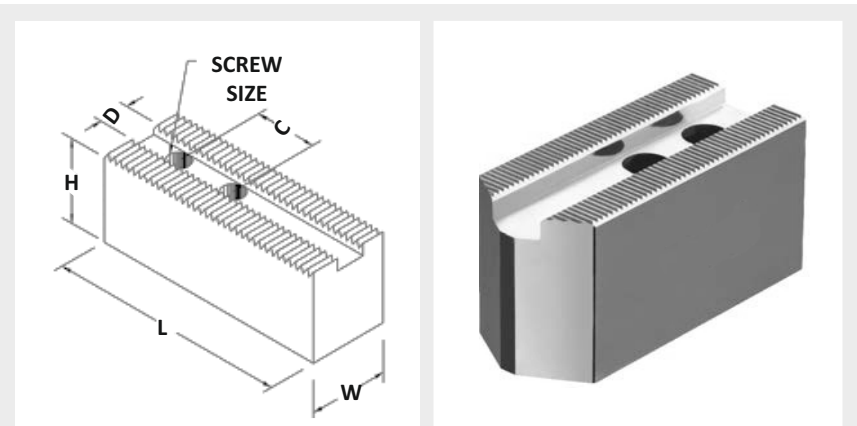


Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #
170 (6")	20	12	10	70 (2-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S3-201210-70-40-40-F	A3-201210-70-40-40-F
210 (8")	25	14	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S3-251412-95-40-40-F	A3-251412-95-40-40-F
254-304-315 (10" to 12")	30	15	12	120 (4-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S3-301512-120-40-40-F	A3-301512-120-40-40-F
	30	16	12	120 (4-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S3-301612-120-40-40-F	A3-301612-120-40-40-F
	30	18	14	120 (4-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S3-301814-120-40-40-F	A3-301814-120-40-40-F
	38	18	14	120 (5")	63 (2-1/2")	50 (2")	Standard	S3-381814-120-63-50-F	A3-381814-129-63-50-F
380-450 (15" to 18")	60	22	20	165 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S3-602220-165-63-63-F	A3-602220-165-63-63-F
	40	21	16	153 (6")	40 (1-1/2")	63 (2-1/2")	Standard	S3-402116-153-40-63-F	A3-402116-153-40-63-F
				153 (6")	40 (1-1/2")	100 (4")	Standard	S3-402116-153-40-100-F	A3-402116-153-40-100-F
	42	26	20	153 (6")	63 (2-1/2")	63 (2-1/2")	Standard	S3-422620-153-63-63-F	A3-422620-153-63-63-F
				159 (6-1/4")	63 (2-1/2")	63 (2-1/2")	Standard	S3-502220-159-63-63-F	A3-502220-159-63-63-F
50	22	20	159 (6-1/4")	63 (2-1/2")	63 (2-1/2")	Standard	S3-502220-159-63-100-F	A3-502220-159-63-100-F	
			159 (6-1/4")	63 (2-1/2")	100 (4")	High	S3-502220-159-63-100-F	A3-502220-159-63-100-F	
450-530 (18" to 21")	50	26	20	159 (6-1/4")	63 (2-1/2")	63 (2-1/2")	Standard	S3-502620-159-63-63-F	A3-502620-159-63-63-F
				159 (6-1/4")	63 (2-1/2")	100 (4")	High	S3-502620-159-63-100-F	A3-502620-159-63-100-F
	51	25	20	216 (8-1/2")	63 (2-1/2")	100 (4")	Standard	S3-512520-216-63-100-F	A3-512520-216-63-100-F
				180 (7")	63 (2-1/2")	63 (2-1/2")	Standard	S3-602520-180-63-63-F	A3-602520-180-63-63-F
	60	25	20	180 (7")	70 (2-3/4")	70 (2-3/4")	Standard	S3-602520-180-70-70-F	A3-602520-180-70-70-F
				180 (7")	63 (2-1/2")	100 (4")	High	S3-602520-180-63-63-F	A3-602520-180-63-63-F
				180 (7")	70 (2-3/4")	120 (4-3/4")	High	S3-602520-180-70-120-F	A3-602520-180-70-120-F
				230 (9")	80 (3")	80 (3")	Long	S3-602520-230-80-80-F	A3-602520-230-80-80-F
600 (24")	60	25	20	180 (7")	63 (2-1/2")	63 (2-1/2")	Standard	S3-602520-180-63-63-F	A3-602520-180-63-63-F
				216 (8-1/2")	76 (3")	63 (2-1/2")	Standard	S3-802520-216-76-63-F	A3-802520-216-76-63-F
	80	25	20	216 (8-1/2")	76 (3")	100 (4")	High	S3-802520-216-76-100-F	A3-802520-216-76-100-F

1/16"x 90 Degree Serrations

Suitable for: Berg, Forkardt, Gamet, CMT, FIAL SMW Autoblock, Schunk, Rohm, Pratt Burnerd.

For "Pointed" jaws substitute "P" for "F" at the end of Item#.

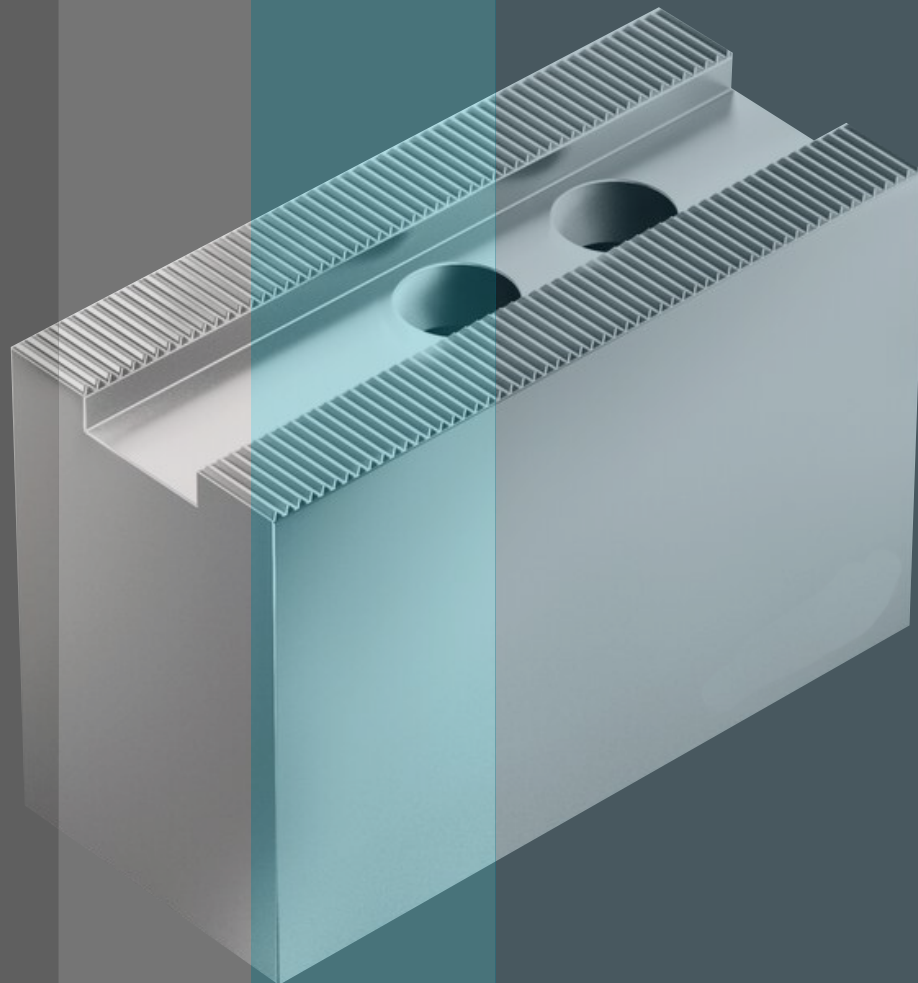


All dimensions are in mm (inch)

Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #
130 (5")	14	10	8	54	23	32 (1-1/4")	Standard	S2-14108-54-23-32-F	A2-14108-54-23-32-F
				54	23	58 (2-1/4")	High	S2-14108-54-23-56-F	A2-14108-54-23-56-F
				54	23	80 (3")	High	S2-14108-54-23-80-F	A2-14108-54-23-80-F
	15	11	8	58	25	25	Standard	S2-151108-58-25-25-F	A2-151108-58-25-25-F
	15	12	8	58	25	40 (1-1/2")	Standard	S2-151208-58-25-40-F	A2-151208-58-25-40-F
	16	11	8 (5/16")	63 (2-1/2")	25 (1")	40 (1-1/2")	Standard	S2-16118-63-25-40-F	A2-16118-63-25-40-F
				63 (2-1/2")	25 (1")	50 (2")	High	S2-16118-63-25-50-F	A2-16118-63-25-50-F
	16	12	8 (5/16")	63 (2-1/2")	23	32 (1-1/4")	Standard	S2-16128-63-23-32-F	A2-16128-63-23-32-F
	18	11	8 (5/16")	63 (2-1/2")	32 (1-1/4")	40 (1-1/2")	Standard	S2-18118-63-32-40-F	A2-18118-63-32-40-F
				63 (2-1/2")	32 (1-1/4")	50 (2")	High	S2-18118-63-32-50-F	A2-18118-63-32-50-F
18	14	(3/8")	76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S2-18149.5-63-32-40-F	A2-18149.5-63-32-40-F	
160-165 (6")	16	14	10	76 (3")	35	40 (1-1/2")	Standard	S2-161410-76-35-40-F	A2-161410-76-35-40-F
	18	14	10	76 (3")	35	40 (1-1/2")	Standard	S2-181410-76-35-40-F	A2-181410-76-35-40-F
	19	10	10	70	32 (1-1/4")	40 (1-1/2")	Standard	S2-191010-70-32-40-F	A2-191010-70-32-40-F
	19	17	12	67	36	53	Standard	S2-191712-67-36-53-F	A2-191712-67-36-53-F
	19.5	12	10	76 (3")	32 (1-1/4")	40 (1-1/2")	Standard	S2-19.51210-75-32-40-F	A2-19.51210-75-32-40-F
				78	35	40 (1-1/2")	Standard	S2-19.51210-78-35-40-F	A2-19.51210-78-35-40-F
				67	36	53	Standard	S2-19.51210-67-36-53-F	A2-19.51210-67-36-53-F
				76 (3")	32 (1-1/4")	56	High	S2-19.51210-75-32-56-F	A2-19.51210-75-32-56-F
				76 (3")	32 (1-1/4")	76	High	S2-19.51210-75-32-76-F	A2-19.51210-75-32-76-F
	76 (3")	32 (1-1/4")	100 (4")	High	S2-19.51210-75-32-100-F	A2-19.51210-75-32-100-F			
	20	14	10	73	32 (1-1/4")	32 (1-1/4")	Standard	S2-201410-73-32-32-F	A2-201410-73-32-32-F
	20	17	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S2-201712-95-40-40-F	A2-201712-95-40-40-F
	25	14	10	88	40 (1-1/2")	40 (1-1/2")	Standard	S2-251410-88-40-40-F	A2-251410-88-40-40-F
	22	17	12	73	32 (1-1/4")	32 (1-1/4")	Standard	S2-221712-73-32-32-F	A2-221712-73-32-32-F
78				35	40 (1-1/2")	Standard	S2-221712-78-35-40-F	A2-221712-78-35-40-F	
5" - 10"	22	14	(3/8")	115 (4-1/2")	40 (1-1/2")	40 (1-1/2")	Standard	S2-22149.5-115-40-40-F	A2-22149.5-115-40-40-F
				115 (4-1/2")	40 (1-1/2")	50 (2")	High	S2-22149.5-115-40-50-F	A2-22149.5-115-40-50-F
				115 (4-1/2")	40 (1-1/2")	80 (3")	High	S2-22149.5-115-40-80-F	A2-22149.5-115-40-80-F

Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #
200-210 (8")	22	17	12	98	35	40 (1-1/2")	Long	S2-221712-98-35-40-F	A2-221712-98-35-40-F
	23	17	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S2-231712-95-40-40-F	A2-231712-95-40-40-F
	20	17	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S2-201712-95-40-40-F	A2-201712-95-40-40-F
	21	12	12	84	32 (1-1/4")	40 (1-1/2")	Standard	S2-211212-84-32-40-F	A2-211212-84-32-40-F
	19	17	12	75	36	53	Standard	S2-191712-75-36-53-F	A2-191712-75-36-53-F
	25	14	12	95 (3-3/4")	40 (1-1/2")	40 (1-1/2")	Standard	S2-251412-95-40-40-F	A2-251412-95-40-40-F
				95 (3-3/4")	40 (1-1/2")	50 (2")	Standard	S2-251412-95-40-50-F	A2-251412-95-40-50-F
				95 (3-3/4")	40 (1-1/2")	58 (2-1/4")	Standard	S2-251412-95-40-56-F	A2-251412-95-40-56-F
				95 (3-3/4")	35	45 (1-3/4")	Standard	S2-251412-95-35-45-F	A2-251412-95-35-45-F
				76 (3")	40 (1-1/2")	53	Standard	S2-251412-75-36-53-F	A2-251412-75-36-53-F
				95 (3-3/4")	40 (1-1/2")	100 (4")	High	S2-251412-95-40-100-F	A2-251412-95-40-100-F
				95 (3-3/4")	40 (1-1/2")	120 (4-3/4")	High	S2-251412-95-40-120-F	A2-251412-95-40-120-F
				95 (3-3/4")	40 (1-1/2")	80 (3")	High	S2-251412-95-40-80-F	A2-251412-95-40-80-F
	102 (4")	35	40 (1-1/2")	Long	S2-251412-102-35-40-F	A2-251412-102-35-40-F			
	25	17	12 (1/2")	115 (4-1/2")	40 (1-1/2")	50 (2")	Standard	S2-251712-115-40-50-F	A2-251712-115-40-50-F
	25.5	17	(1/2")	115 (4-1/2")	40 (1-1/2")	50 (2")	Standard	S2-25.51712-115-40-50-F	A2-25.51712-115-40-50-F
29	17	12	90 (3-1/2")	40 (1-1/2")	50 (2")	Standard	S2-291712-90-40-50-F	A2-291712-90-40-50-F	
28.5	17	(1/2")	90 (3-1/2")	40 (1-1/2")	50 (2")	Standard	S2-28.51712-90-40-50-F	A2-28.51712-90-40-50-F	
250 (10")	22	17	12	110	40 (1-1/2")	40 (1-1/2")	Standard	S2-221712-110-40-40-F	A2-221712-110-40-40-F
	25	21	16	115 (4-1/2")	45 (1-3/4")	50 (2")	Standard	S2-252116-115-45-50-F	A2-252116-115-45-50-F
				115 (4-1/2")	50 (2")	50 (2")	Standard	S2-252116-115-50-50-F	A2-252116-115-50-50-F
				95 (3-3/4")	45 (1-3/4")	54	Standard	S2-252116-95-45-54-F	A2-252116-95-45-54-F
				115 (4-1/2")	45 (1-3/4")	80 (3")	High	S2-252116-115-45-80-F	A2-252116-115-45-80-F
				115 (4-1/2")	45 (1-3/4")	100 (4")	High	S2-252116-115-45-100-F	A2-252116-115-45-100-F
				115 (4-1/2")	45 (1-3/4")	120 (4-3/4")	High	S2-252116-115-45-120-F	A2-252116-115-45-120-F
	26	21	16	110	40 (1-1/2")	50 (2")	Standard	S2-262116-110-40-50-F	A2-262116-110-40-50-F
	28	21	16	120	50 (2")	50 (2")	Standard	S2-282116-120-50-50-F	A2-282116-120-50-50-F
	29	16	16	110	40 (1-1/2")	50 (2")	Standard	S2-291616-110-40-50-F	A2-291616-110-40-50-F
30	21	14	110	40 (1-1/2")	40 (1-1/2")	Standard	S2-302114-110-40-40-F	A2-302114-110-40-40-F	
30	21	16	110	40 (1-1/2")	40 (1-1/2")	Standard	S2-302116-110-40-40-F	A2-302116-110-40-40-F	
300-315 (12")	25	21	16	125	50 (2")	60	Standard	S2-252116-125-50-60-F	A2-252116-125-50-60-F
				125	50 (2")	80 (3")	High	S2-252116-125-50-80-F	A2-252116-125-50-80-F
				125	50 (2")	100 (4")	High	S2-252116-125-50-100-F	A2-252116-125-50-100-F
				125	50 (2")	120 (4-3/4")	High	S2-252116-125-50-120-F	A2-252116-125-50-120-F
	30	21	16 (5/8")	130 (5")	50 (2")	50 (2")	Standard	S2-302116-110-50-50-F	A2-302116-110-50-50-F
				130 (5")	50 (2")	100 (4")	Standard	S2-302116-110-50-100-F	A2-302116-110-50-100-F
	31	21	16	130 (5")	50 (2")	50 (2")	Standard	S2-312116-130-50-50-F	A2-312116-130-50-50-F
	35	25.5	20	130 (5")	50 (2")	60	Standard	S2-3525.516-130-50-60-F	A2-3525.516-130-50-60-F
38	21	16	130 (5")	50 (2")	50 (2")	Standard	S2-382116-130-50-50-F	A2-382116-130-50-50-F	

Chuck Size	Critical Dimensions			Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size					Item #	Item #
(10" - 13")	30	20	(1/2")	133 (5-1/4")	45 (1-3/4")	63 (2-1/2")	Standard	S2-302012-133-45-63-F	A2-302012-133-45-63-F
				133 (5-1/4")	45 (1-3/4")	100 (4")	High	S2-302012-133-45-100-F	A2-302012-133-45-100-F
	30	21	(1/2")	133 (5-1/4")	45 (1-3/4")	63 (2-1/2")	Standard	S2-302112-133-45-63-F	A2-302112-133-45-63-F
				133 (5-1/4")	45 (1-3/4")	100 (4")	High	S2-302112-133-45-100-F	A2-302112-133-45-100-F
	32	21	16 (5/8")	100 (4")	45 (1-3/4")	63 (2-1/2")	Standard	S2-322116-100-45-63-F	A2-322116-100-45-63-F
				172 (6-3/4")	50 (2")	63 (2-1/2")	Standard	S2-39.52116-172-50-63-F	A2-39.52116-172-50-63-F
(14" - 18")	39.5	21	16 (5/8")	172 (6-3/4")	50 (2")	100 (4")	High	S2-39.52116-172-50-100-F	A2-39.52116-172-50-100-F
				152 (6")	50 (2")	50 (2")	Standard	S2-342116-152-50-50-F	A2-342116-152-50-50-F
	42	25.5	20 (3/4")	152 (6")	50 (2")	50 (2")	Standard	S2-4225.520-152-50-50-F	A2-4225.520-152-50-50-F
				152 (6")	50 (2")	80 (3")	Standard	S2-44.525.519-152-50-80-F	A2-44.525.519-152-50-80-F
	44.5	25.5	(3/4")	152 (6")	50 (2")	80 (3")	Standard	S2-44.525.519-152-50-80-F	A2-44.525.519-152-50-80-F
				203 (8")	63 (2-1/2")	80 (3")	Standard	S2-503020-203-63-80-F	A2-503020-203-63-80-F
50	30	20	203 (8")	63 (2-1/2")	80 (3")	Standard	S2-503020-203-63-80-F	A2-503020-203-63-80-F	

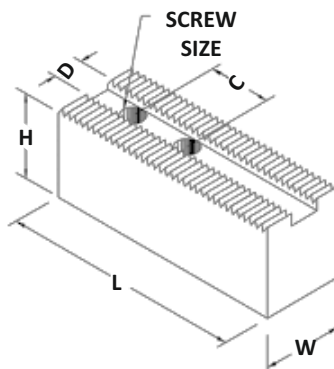


3/32"x 90 Degree Serration

Suitable for: Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks

For "Pointed" jaws substitute "P" for "F" at the end of Item#

All dimensions are in mm (inch)



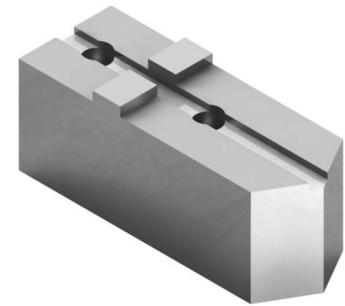
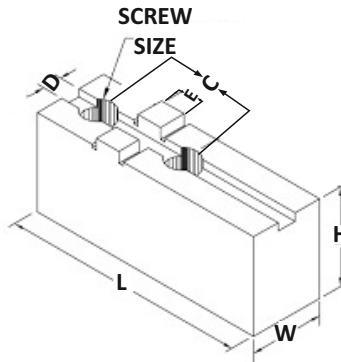
Critical Dimensions							Steel	Aluminum
Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Length L	Width W	Height H	Type	Item #	Item #
31	25.5	20	130 (5")	50 (2")	80 (3")	Standard	S4-3125.520-130-50-80-F	A4-3125.520-130-50-80-F
			167 (6-1/2")	63 (2-1/2")	63 (2-1/2")	Standard	S4-3525.520-167-63-63-F	A4-3525.520-167-63-63-F
35	25.5	20	203 (8")	63 (2-1/2")	63 (2-1/2")	Long	S4-3525.520-203-63-63-F	A4-3525.520-203-63-63-F
			167 (6-1/2")	63 (2-1/2")	100 (4")	High	S4-3525.520-167-63-100-F	A4-3525.520-167-63-100-F
38	28	20	167 (6-1/2")	63 (2-1/2")	80 (3")	Standard	S4-382820-167-63-80-F	A4-382820-167-63-80-F
38	25.5	20	167 (6-1/2")	63 (2-1/2")	80 (3")	Standard	S4-3825.520-167-63-80-F	A4-3825.520-167-63-80-F
39.5	25.5	19 (3/4")	167 (6-1/2")	63 (2-1/2")	80 (3")	Standard	S4-39.525.519-167-63-80-F	A4-39.525.519-167-63-80-F
			203 (8")	63 (2-1/2")	80 (3")	Long	S4-39.525.519-203-63-80-F	A4-39.525.519-203-63-80-F
			167 (6-1/2")	63 (2-1/2")	100 (4")	High	S4-39.525.519-167-63-100-F	A4-39.525.519-167-63-100-F
44.5	25.5	19 (3/4")	254 (10")	63 (2-1/2")	90 (3-1/2")	Standard	S4-4425.519-254-63-90-F	A4-4425.519-254-63-90-F
			254 (10")	63 (2-1/2")	127 (5")	High	S4-4425.519-254-63-127-F	A4-4425.519-254-63-127-F
41.5	28	19 (3/4")	172 (6-3/4")	90 (3-1/2")	80 (3")	Standard	S4-41.525.519-172-90-80-F	A4-41.525.519-172-90-80-F
41.5	25.5	19 (3/4")	229 (9")	90 (3-1/2")	80 (3")	High	S4-41.525.519-229-90-80-F	A4-41.525.519-229-90-80-F
			172 (6-3/4")	90 (3-1/2")	127 (5")	Long	S4-41.525.519-172-90-127-F	A4-41.525.519-172-90-127-F
63.5	30	25 (1")	203 (8")	90 (3-1/2")	80 (3")	Standard	S4-63.53025-203-90-80-F	A4-63.53025-203-90-80-F
			203 (8")	90 (3-1/2")	127 (5")	High	S4-63.53025-203-90-127-F	A4-63.53025-203-90-127-F
			280 (11")	90 (3-1/2")	80 (3")	Long	S4-63.53025-280-90-80-F	A4-63.53025-280-90-80-F
70	30	25 (1")	254 (10")	90 (3-1/2")	90 (3-1/2")	Standard	S4-703025-254-90-90-F	A4-703025-254-90-90-F

METRIC TONGUE & GROOVE:

Suitable for: SMW Autoblock, Berg, Forkardt, Kitagawa, Schunk, Rohm, Samchully, Pratt Burnerd, Bison, SCA, Buck, BTC, Cushman, TMX, Yasa & other chucks.

For "Pointed" jaws substitute "P" for "F" at the end of Item#

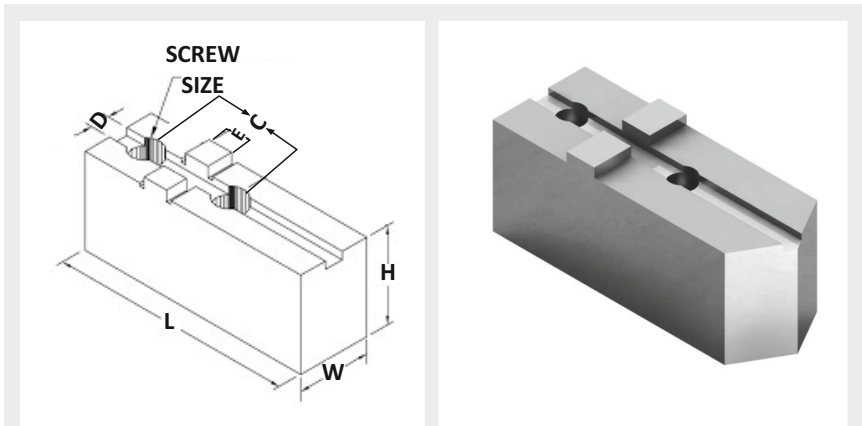
All dimensions are in mm (inch)



Chuck Size	Critical Dimensions				Length L	Width W	Height H	Type	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Tonge Width E					Item #	Item #
160 (6")	32	8	8	18 (0.709")	63 (2-1/2")	40 (1-1/2")	40 (1-1/2")	Standard	ST-320818-63-40-40-F	AT-320818-63-40-40-F
					86 (3.375")	19 (0.750")	40 (1-1/2")	Standard	ST-320818-86-19-40-F	AT-320818-86-19-40-F
					85	20	36.5	Standard	ST-320818-85-20-36.5-F	AT-320818-85-20-36.5-F
200 (8")	40	10	8	20 (0.787")	105 (4.125")	25 (1")	50 (2")	Standard	ST-401020-105-25-50-F	AT-401020-105-25-50-F
					105 (4.125")	32 (1.25")	100 (4")	High	ST-401020-105-32-100-F	AT-401020-105-32-100-F
					105 (4.125")	32 (1.25")	50 (2")	Standard	ST-401020-105-32-50-F	AT-401020-105-32-50-F
					105	22	40	Standard	ST-401020-105-22-40-F	AT-401020-105-22-40-F
250 (10")	40	12	12	20 (0.787")	127 (5")	32 (1.25")	50 (2")	Standard	ST-401220-127-32-50-F	AT-401220-127-32-50-F
					127 (5")	40 (1-1/2")	100 (4")	High	ST-401220-127-40-100-F	AT-401220-127-40-100-F
					127 (5")	40 (1-1/2")	50 (2")	Standard	ST-401220-127-40-50-F	AT-401220-127-40-50-F
					125	30	50	Standard	ST-401220-125-30-50-F	AT-401220-125-30-50-F
315 (12")	54	12	12	26 (1.023")	127 (5")	32 (1.25")	50 (2")	Standard	ST-541226-127-32-50-F	AT-541226-127-32-50-F
					146 (5.750")	45 (1.750")	100 (4")	High	ST-541226-146-45-100-F	AT-541226-146-45-100-F
					146 (5.750")	45 (1.750")	50 (2")	Standard	ST-541226-146-45-50-F	AT-541226-146-45-50-F
					145	35	50	Standard	ST-541226-145-35-50-F	AT-541226-145-35-50-F
400 (15")	60	18	16	30 (1.180")	177 (7")	40 (1-1/2")	73 (2.875")	Standard	ST-601830-177-40-73-F	AT-601830-177-40-73-F
					184 (7.25")	50 (2")	127 (5")	High	ST-601830-184-50-127-F	AT-601830-184-50-127-F
					184 (7.25")	50 (2")	76 (3")	Standard	ST-601830-184-50-76-F	AT-601830-184-50-76-F
					180	50	73	Standard	ST-601830-180-50-73-F	AT-601830-180-50-73-F
500 (20")	76	18	16	40 (1.575")	220	60	90	Standard	ST-761816-220-60-90-F	AT-761816-220-60-90-F
600 (24")	82	24	20	40 (1.575")	260	60	120	Standard	ST-822420-260-60-120-F	AT-822420-260-60-120-F

**American Standard
Tongue & Groove**

Suitable for: Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks
For "Pointed" jaws substitute "P" for "F" at the end of Item#



All dimensions are in inch

Chuck Size	Critical Dimensions				Length L	Width W	Height H	Steel	Aluminum					
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Tonge Width E				Item #	Item #					
4	0.250	1.188	1/4	0.437	2.000	0.625	1.250	STG-4120F	ATG-4120AF					
					2.375	1.750	1.500	STG-5150F	ATG-5150AF					
5	0.313	1.250	5/16	0.500	2.375	0.750	2.000	STG-5250F	ATG-5250AF					
					3.200	1.000	1.500	STG-6153F	ATG-6153AF					
6	0.313	1.500	3/8	0.500	2.750	1.000	1.500	STG-6150F	ATG-6150AF					
					3.000	1.000	1.500	STG-6151F	ATG-6151AF					
					3.250	1.000	1.500	STG-6151-18F	ATG-6151-18AF					
					3.200	1.000	2.000	STG-6203F	ATG-6203AF					
					2.750	1.000	2.000	STG-6200F	ATG-6200AF					
					3.200	1.000	2.500	STG-6253F	ATG-6253AF					
					3.250	1.500	2.500	STG-6252F	ATG-6252AF					
					2.750	1.000	2.500	STG-6250F	ATG-6250AF					
					3.200	1.000	3.000	STG-6303F	ATG-6303AF					
					3.200	1.000	3.500	STG-6353F	ATG-6353AF					
					2.750	1.000	3.000	STG-6300F	ATG-6300AF					
					2.750	1.000	4.000	STG-6400F	ATG-6400AF					
					6	0.313	1.500	7/16	0.500	2.750	1.250	1.500	STG-6155F	ATG-6155AF
										2.813	1.500	1.500	STG-6158F	ATG-6158AF
2.750	1.500	2.000	STG-6205F	ATG-6205AF										
2.750	1.500	2.500	STG-6255F	ATG-6255AF										
3.250	1.500	2.500	STG-6256F	ATG-6256AF										
2.750	1.500	3.000	STG-6305F	ATG-6305AF										
2.813	1.500	3.500	STG-6358F	ATG-6358AF										
8	0.313	1.750	3/8	0.500	3.750	1.250	2.000	STG-8200F	ATG-8200AF					
					3.750	1.250	2.000	-	ATG-8200BF					
					4.500	1.250	2.000	STG-8203F	ATG-8203AF					
					3.750	1.250	2.500	STG-8250F	ATG-8250AF					
					4.500	1.250	2.500	STG-8253F	ATG-8253AF					
					3.750	1.250	3.000	STG-8300F	ATG-8300AF					
					3.750	1.250	3.000	-	ATG-8300BF					

Chuck Size	Critical Dimensions				Length L	Width W	Height H	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Groove Width) D	Screw Size	Tongue Width E				Item #	Item #
8	0.313	1.750	3/8	0.500	4.500	1.250	3.000	STG-8303F	ATG-8303AF
					3.750	1.250	4.000	STG-8400F	ATG-8400AF
					4.500	1.250	4.000	STG-8403F	ATG-8403AF
					3.750	1.250	5.000	STG-8500F	ATG-8500AF
					3.750	1.250	6.000	STG-8600F	ATG-8600AF
8	0.313	1.750	1/2	0.500	3.750	1.500	2.000	STG-8205F	ATG-8205AF
					3.313	1.500	2.000	STG-8208F	ATG-8208AF
					3.750	1.500	3.000	STG-8305F	ATG-8305AF
					3.313	1.500	3.500	STG-8358F	ATG-8358AF
					3.750	1.500	4.000	STG-8405F	ATG-8405AF
8	0.313	1.750	1/2	0.500	3.750	1.500	6.000	STG-8605F	ATG-8605AF
					3.500	1.250	2.500	STG-8259F	ATG-8259AF
8	0.313	1.750	1/2	0.500	3.500	1.250	3.000	STG-8309F	ATG-8309AF
					3.500	1.250	2.500	STG-8259F	ATG-8259AF
10	0.500	2.125	1/2	0.750	4.500	1.500	2.000	STG-10200F	ATG-10200AF
					4.500	1.500	2.000	-	ATG-10200BF
					4.500	2.000	2.000	STG-10202F	ATG-10202AF
					6.000	2.000	2.000	STG-10203F	ATG-10203AF
					4.500	1.500	2.500	STG-10250F	ATG-10250AF
					4.500	1.500	3.000	STG-10300F	ATG-10300AF
					4.500	2.000	3.000	STG-10302F	ATG-10302AF
					6.000	2.000	3.000	STG-10303F	ATG-10303AF
					4.500	1.500	4.000	STG-10400F	ATG-10400AF
					6.000	2.000	4.000	STG-10403F	ATG-10403AF
10	0.500	2.125	5/8	0.750	4.500	1.750	2.000	STG-10205F	ATG-10205AF
					3.938	1.750	2.000	STG-10208F	ATG-10208AF
					4.500	1.750	2.500	STG-10255F	ATG-10255AF
					4.500	1.750	3.000	STG-10305F	ATG-10305AF
					4.500	1.750	4.000	STG-10405F	ATG-10405AF
					3.938	1.750	4.000	STG-10408F	ATG-10408AF
					4.250	1.750	2.500	STG-10259F	ATG-10259AF
					4.250	1.750	3.500	STG-10359F	ATG-10359AF
12	0.500	2.500	1/2	0.750	5.250	1.750	2.000	STG-12200F	ATG-12200AF
					6.550	1.750	2.000	STG-12203F	ATG-12203AF
					5.250	1.750	2.500	STG-12250F	ATG-12250AF
					6.550	1.750	2.500	STG-12253F	ATG-12253AF
					6.000	2.000	2.500	STG-12252F	ATG-12252AF
					4.500	2.000	2.500	STG-12258F	ATG-12258AF
					5.250	1.750	3.000	STG-12300F	ATG-12300AF
					6.550	1.750	3.000	STG-12303F	ATG-12303AF
					5.250	1.750	4.000	STG-12400F	ATG-12400AF
					6.550	1.750	4.000	STG-12403F	ATG-12403AF
					6.000	2.000	4.000	STG-12402F	ATG-12402AF

Chuck Size	Critical Dimensions				Length L	Width W	Height H	Steel	Aluminum
	Bore Space (center to center) C	Slot Size (Groove Width) D	Screw Size	Tongue Width E				Item #	Item #
12	0.500	2.500	1/2	0.750	4.500	2.000	4.00	STG-12408F	ATG-12408AF
					5.250	1.750	6.00	STG-12600F	ATG-12600AF
					6.000	2.000	6.00	STG-12602F	ATG-12602AF
12	0.500	2.500	5/8	0.750	4.875	1.750	2.50	STG-12259F	ATG-12259AF
					4.875	1.750	4.00	STG-12409F	ATG-12409AF
12	0.500	2.500	5/8	0.750	5.250	2.000	2.00	STG-12205F	ATG-12205AF
					5.250	2.000	2.50	STG-12255F	ATG-12255AF
					6.000	2.000	2.50	STG-12256F	ATG-12256AF
					5.250	2.000	3.00	STG-12305F	ATG-12305AF
					5.250	2.000	4.00	STG-12405F	ATG-12405AF
					6.000	2.000	4.00	STG-12406F	ATG-12406AF
15	0.500	3.000	5/8	0.750	5.750	1.750	1.50	STG-15150F	ATG-15150AF
					5.750	1.750	2.00	STG-15200F	ATG-15200AF
					5.750	1.750	2.50	STG-15250F	ATG-15250AF
					6.250	2.000	2.50	STG-15252F	ATG-15252AF
					5.188	2.500	2.50	STG-15258F	ATG-15258AF
					5.750	1.750	3.00	STG-15300F	ATG-15300AF
					5.750	1.750	4.00	STG-15400F	ATG-15400AF
					6.250	2.000	4.00	STG-15402F	ATG-15402AF
					5.188	2.500	5.00	STG-15508F	ATG-15508AF
15	0.500	3.000	3/4	0.750	5.750	2.000	3.50	STG-15359F	ATG-15359AF
					5.750	2.000	5.00	STG-15509F	ATG-15509AF
15	0.500	3.000	3/4	0.750	5.750	1.750	2.50	STG-15255F	ATG-15255AF
					6.000	2.500	2.50	STG-15256F	ATG-15256AF
					5.750	1.750	3.00	STG-15305F	ATG-15305AF
					5.750	1.750	4.00	STG-15405F	ATG-15405AF
					6.000	2.500	4.00	STG-15406F	ATG-15406AF
18	0.500	3.000	3/4	0.750	6.500	2.250	2.50	STG-18250F	ATG-18250AF
					6.500	2.500	2.50	STG-18252F	ATG-18252AF
					6.500	3.000	2.50	STG-18256F	ATG-18256AF
					5.188	3.000	3.00	STG-18308F	ATG-18308AF
					6.500	2.250	4.00	STG-18400F	ATG-18400AF
					6.500	2.250	4.00	STG-18402F	ATG-18402AF
					6.500	2.250	5.00	STG-18500F	ATG-18500AF
					6.500	2.500	5.00	STG-18502F	ATG-18502AF
					6.500	3.000	5.00	STG-18506F	ATG-18506AF
					5.188	3.000	5.00	STG-18508F	ATG-18508AF
18	0.500	3.000	3/4	0.750	6.000	2.500	3.50	STG-18359F	ATG-18359AF
					6.000	2.500	5.00	STG-18509F	ATG-18509AF
24	0.500	3.000	7/8	0.750	7.500	3.000	3.000	STG-24300F	ATG-24300AF
					7.500	3.000	5.000	STG-24500F	ATG-24500AF



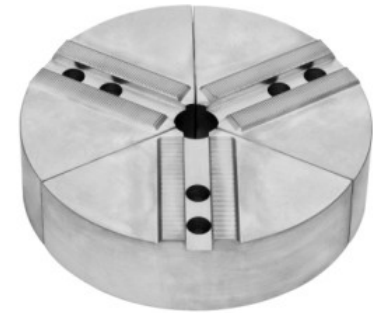
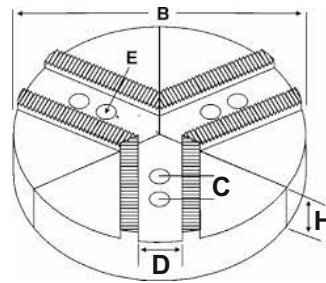
**ROUND (PIE)
JAWS
(STEEL & ALUMINUM)**

1.5mm x 60 Degree Serrations

Suitable for: Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, CMT, Nikko HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks

Material: 6061 T6 Aluminum
Steel Round Jaws also available

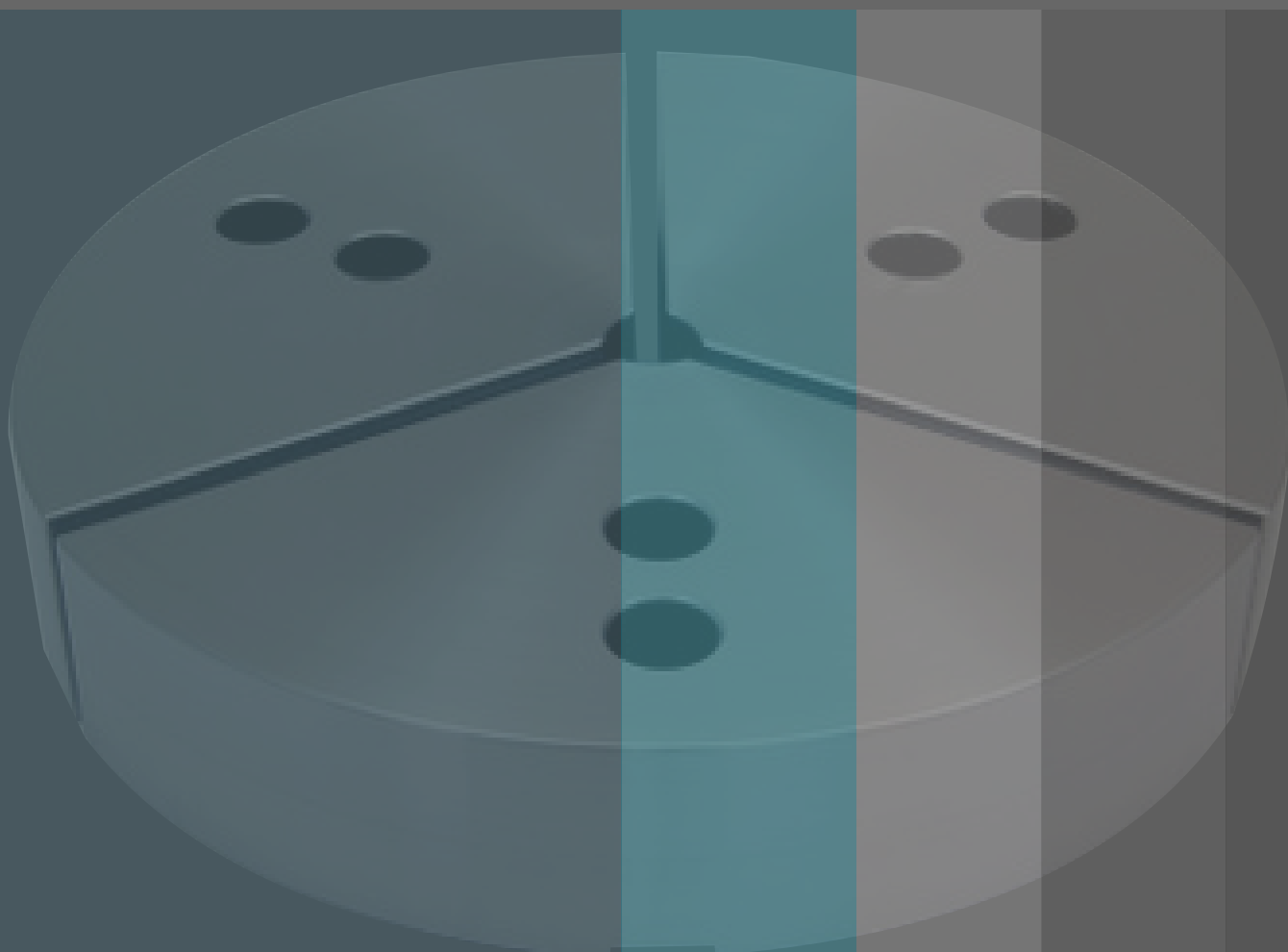
All dimensions are in mm (inch)



Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size E	Height H	Pie Diameter B	Type	Item #
110 (4")	12	10	6	50 (2")	(6")	Large Pie	RA1-121006-50-4i-6L
				76 (3")	(6")	High-Large Pie	RA1-121006-76-4i-6L
	14	10	8	50 (2")	(6")	Large Pie	RA1-141008-50-4i-6L
				76 (3")	(6")	High-Large Pie	RA1-141008-76-4i-6L
				100 (4")	(6")	High-Large Pie	RA1-141008-100-4i-6L
	15	8	6	50 (2")	(6")	Large Pie	RA1-150806-50-4i-6L
76 (3")				(6")	High-Large Pie	RA1-150806-76-4i-6L	
135 (5")	14	10	8	50 (2")	(6")	Large Pie	RA1-141008-50-5i-6L
				76 (3")	(6")	High-Large Pie	RA1-141008-76-5i-6L
	17	11	8	50 (2")	(6")	Large Pie	RA1-171108-50-5i-6L
	18	10	8	50 (2")	(6")	Large Pie	RA1-181008-50-5i-6L
				76 (3")	(6")	High-Large Pie	RA1-181008-76-5i-6L
19	10	8	50 (2")	(6")	Large Pie	RA1-191008-50-5i-6L	
170 (6")	20	11	10	50 (2")	(6")	Standard	RA1-201110-50-6i
				76 (3")	(6")	High	RA1-201110-76-6i
				50 (2")	(8")	Large Pie	RA1-201110-50-6i-8L
				76 (3")	(8")	High-Large Pie	RA1-201110-76-6i-8L
	20	12	10	40 (1-1/2")	(6")	Standard	RA1-201210-40-6i
				50 (2")	(6")	Standard	RA1-201210-50-6i
				76 (3")	(6")	High	RA1-201210-76-6i
				100 (4")	(6")	High	RA1-201210-100-6i
				50 (2")	(8")	Large Pie	RA1-201210-50-6i-8L
				76 (3")	(8")	High-Large Pie	RA1-201210-76-6i-8L
	20	14	10	40 (1-1/2")	(6")	Standard	RA1-201410-40-6i
				50 (2")	(6")	Standard	RA1-251408-50-6i
	25	11	8	76 (3")	(6")	High	RA1-251408-76-6i
				100 (4")	(6")	High	RA1-251408-100-6i
50 (2")				(8")	Large Pie	RA1-251408-50-6i-8L	
76 (3")				(8")	High-Large Pie	RA1-251408-76-6i-8L	

Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Height H	Pie Diameter B	Type	Item #
210 (8")	25	14	12	40 (1-1/2")	(8")	Standard	RA1-251412-40-8i
				50 (2")	(8")	Standard	RA1-251412-50-8i
				76 (3")	(8")	High	RA1-251412-76-8i
				100 (4")	(8")	High	RA1-251412-100-8i
				153 (6")	(8")	High	RA1-251412-153-8i
				50 (2")	(10")	Large Pie	RA1-251412-50-8i-10L
	76 (3")	(10")	High-Large Pie	RA1-251412-76-8i-10L			
	30	14	10	50 (2")	(8")	Standard	RA1-301410-50-8i
				76 (3")	(8")	High	RA1-301410-76-8i
				50 (2")	(10")	Large Pie	RA1-301410-50-8i-10L
				76 (3")	(10")	High-Large Pie	RA1-301410-76-8i-10L
	25	16	12	50 (2")	(8")	Standard	RA1-251612-50-8i
				76 (3")	(8")	High	RA1-251612-76-8i
				100 (4")	(8")	High	RA1-251612-100-8i
				50 (2")	(10")	Large Pie	RA1-251612-50-8i-10L
	76 (3")	(10")	High-Large Pie	RA1-251612-76-8i-10L			
23	17	12	50 (2")	(8")	Standard	RA1-231712-50-8i	
254 (10")	30	16	12	50 (2")	(10")	Standard	RA1-301612-50-10i
				76 (3")	(10")	High	RA1-301612-76-10i
				100 (4")	(10")	High	RA1-301612-100-10i
				153 (6")	(10")	High	RA1-301612-153-10i
	32	16	12	50 (2")	(12")	Large Pie	RA1-301612-50-10i-12L
				76 (3")	(12")	High-Large Pie	RA1-301612-76-10i-12L
				50 (2")	(10")	Standard	RA1-321612-50-10i
				76 (3")	(10")	High	RA1-321612-76-10i
304-315 (12")	30	18	14	50 (2")	(12")	Standard	RA1-301814-50-12i
				76 (3")	(12")	High	RA1-301814-76-12i
				100 (4")	(12")	High	RA1-301814-100-12i
				50 (2")	(15")	Large Pie	RA1-301814-50-12i-15L
	30	21	16	76 (3")	(15")	High-Large Pie	RA1-301814-76-12i-15L
				50 (2")	(12")	Standard	RA1-302116-50-12i
				76 (3")	(12")	High	RA1-302116-76-12i
				100 (4")	(12")	High	RA1-302116-100-12i
32	18	14	50 (2")	(15")	Large Pie	RA1-302116-50-12i-15L	
			76 (3")	(15")	High-Large Pie	RA1-302116-76-12i-15L	
			50 (2")	(12")	Standard	RA1-321814-50-12i	
			76 (3")	(12")	High	RA1-321814-76-12i	
35	20	14	50 (2")	(12")	Standard	RA1-352014-50-12i	
			76 (3")	(12")	High	RA1-352014-76-12i	
38	18	14	50 (2")	(12")	Standard	RA1-381814-50-12i	

Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Height H	Pie Diameter B	Type	Item #
304-315 (12")	35	21	16	50 (2")	(12")	Standard	RA1-352116-50-12i
				76 (3")	(12")	High	RA1-352116-76-12i
381 (15")	43	22	20	50 (2")	(15")	Large Pie	RA1-432220-50-15i
				76 (3")	(15")	High-Large Pie	RA1-432220-76-15i
				100 (4")	(15")	High-Large Pie	RA1-432220-100-15i
				50 (2")	(18")	Large Pie	RA1-432220-50-15i-18L
				76 (3")	(18")	High-Large Pie	RA1-432220-76-15i-18L
				50 (2")	(21")	Large Pie	RA1-432220-50-15i-21L
				76 (3")	(21")	High-Large Pie	RA1-432220-76-15i-21L
				50 (2")	(15")	Standard	RA1-4325.520-50-18i-15L
457 (18")	43	25.5	20	76 (3")	(15")	High	RA1-4325.520-76-18i-15L
				100 (4")	(15")	High	RA1-4325.520-100-18i-15L
				50 (2")	(18")	Standard	RA1-4325.520-50-18i
				76 (3")	(18")	High	RA1-4325.520-76-18i
				50 (2")	(21")	Large Pie	RA1-4325.520-50-18i-21L
				76 (3")	(21")	High-Large Pie	RA1-4325.520-76-18i-21L
				50 (2")	(15")	Standard	RA1-602220-50-18i-15L
	60	22	20	50 (2")	(18")	Standard	RA1-602220-50-18i

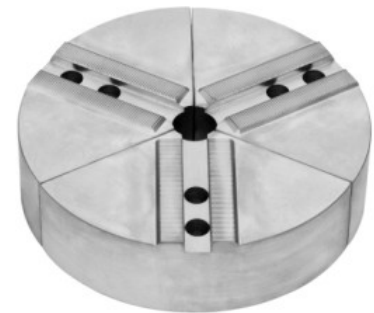
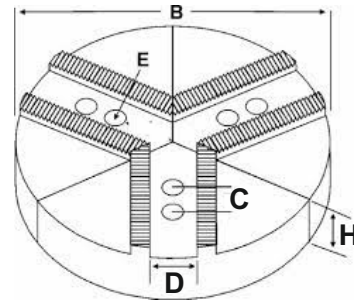


3.0MM x 60 Degree Serration

Suitable for: Berg, Forkardt, Gamet, Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks

Material: 6061 T6 Aluminum
Steel Round Jaws also available

All dimensions are in mm (inch)



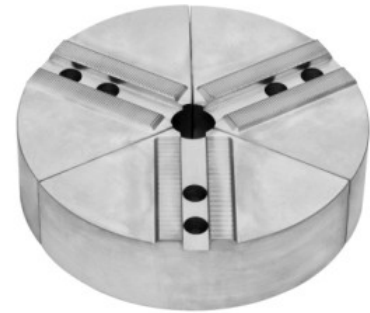
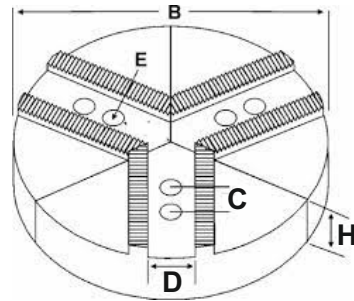
Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size E	Height H	Pie Diameter B	Type	Item #
170 (6")	20	12	10	50 (2")	(6")	Standard	RA3-201210-50-6i
				76 (3")	(6")	High	RA3-201210-76-6i
210 (8")	25	14	12	50 (2")	(8")	Standard	RA3-251412-50-8i
				76 (3")	(8")	High	RA3-251412-76-8i
				50 (2")	(10")	High-Large Pie	RA3-201210-50-6i-10L
"254 - 304 - 315 (10" to 12")	30	15	12	50 (2")	(10")	Standard	RA3-301512-50-10i
				50 (2")	(10")	Standard	RA3-301612-50-10i
	30	16	12	76 (3")	(10")	High	RA3-301612-76-10i
				50 (2")	(12")	Standard	RA3-301612-50-10i-12L
	30	18	14	50 (2")	(12")	Standard	RA3-301814-50-10i-12L
				76 (3")	(12")	High	RA3-301814-76-10i-12L
50 (2")	(15")	Large Pie	RA3-301814-50-10i-15L				
380 - 450 (15" to 18")	40	21	16	50 (2")	(15")	Standard	RA3-402116-50-15i
				76 (3")	(15")	High	RA3-402116-76-15i
	50	22	20	50 (2")	(15")	Standard	RA3-502220-50-15i
				76 (3")	(15")	High	RA3-502220-76-15i
				50 (2")	(18")	Large Pie	RA3-502220-50-15i-18L
				76 (3")	(18")	High-Large Pie	RA3-502220-76-15i-18L
450 - 530 (18" to 21")	50	26	20	63 (2-1/2")	(15")	Standard	RA3-502620-63-15i
				63 (2-1/2")	(21")	High-Large Pie	RA3-502620-63-15i-21L
	60	25	20	50 (2")	(18")	Standard	RA3-602520-50-18i
				76 (3")	(18")	High	RA3-602520-76-18i
				100 (4")	(18")	High	RA3-602520-100-18i
				50 (2")	(21")	Standard	RA3-602520-50-18i-21L
				76 (3")	(21")	High	RA3-602520-76-18i-21L
				100 (4")	(21")	High	RA3-602520-100-18i-21L
				50 (2")	(24")	Large Pie	RA3-602520-50-18i-24L
				76 (3")	(24")	High-Large Pie	RA3-602520-76-18i-24L
100 (4")	(24")	High-Large Pie	RA3-602520-100-18i-24L				
600 (24")	80	25	20	63 (2-1/2")	(24")	Standard	RA3-802520-63-24i
				100 (4")	(24")	High	RA3-802520-100-24i

1/16" x 90 Degree Serration

Suitable for: Berg, Forkardt, Gamet, Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks.

Material: 6061 T6 Aluminum
Steel Round Jaws also available.

All dimensions are in mm (inch)



Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size E	Height H	Pie Diameter B	Type	Item #
130 (5")	16	11	(5/16")	50 (2")	(6")	Standard	RA3-161108-50-5i-6L
				76 (3")	(6")	High	RA3-161108-76-5i-6L
	18	11	(5/16")	50 (2")	(6")	Standard	RA3-181108-50-5i-6L
				76 (3")	(6")	High	RA3-181108-76-5i-6L
	18	14	(3/8")	50 (2")	(6")	Standard	RA3-181410-50-5i-6L
	160 - 165 (6")	19	17	12	50 (2")	(6")	Standard
19.5		12	10	50 (2")	(6")	Standard	RA3-19.51210-50-6i
				76 (3")	(6")	High	RA3-19.51210-76-6i
20		14	10	50 (2")	(6")	Standard	RA3-201410-50-6i
22		17	12	50 (2")	(6")	Standard	RA3-221712-50-6i
				76 (3")	(8")	High-Large Pie	RA3-221712-76-6i-8L
5" - 10"	22	14	(3/8")	50 (2")	(8")	Standard	RA3-221710-50-8i
				76 (3")	(8")	High	RA3-221710-76-8i
				50 (2")	(10")	Standard	RA3-221710-50-8i-10L
				76 (3")	(10")	High	RA3-221710-76-8i-10L
200 - 210 (8")	22	17	12	50 (2")	(8")	Standard	RA3-221712-50-8i
	19	17	12	50 (2")	(8")	Standard	RA3-191712-50-8i
	25	14	12	50 (2")	(8")	Standard	RA3-251412-50-8i
				76 (3")	(8")	High	RA3-251412-76-8i
	25	17	(1/2")	50 (2")	(10")	Large Pie	RA3-251412-50-8i-10L
				76 (3")	(10")	High-Large Pie	RA3-251412-76-8i-10L
	25	17	(1/2")	50 (2")	(8")	Standard	RA3-251712-50-8i
	25.5	17	(1/2")	50 (2")	(8")	Standard	RA3-25.51712-50-8i
				50 (2")	(10")	Large Pie	RA3-25.51712-50-8i-10L
	28.5	17	(1/2")	50 (2")	(8")	Standard	RA3-28.51712-50-8i
250 (10")	22	17	12	50 (2")	(10")	Standard	RA3-221712-50-10i
	25	21	16	50 (2")	(10")	Standard	RA3-252116-50-10i
				76 (3")	(10")	High	RA3-252116-76-10i
28	21	16	50 (2")	(10")	Standard	RA3-282116-50-10i	

Chuck Size	Critical Dimensions						Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size E	Height H	Pie Diameter B	Type	Item #
	30	21	16	50 (2")	(10")	Standard	RA3-302116-50-10i
300 - 315 (12")	25	21	16	50 (2")	(12")	Standard	RA3-252116-50-12i
				76 (3")	(12")	High	RA3-252116-76-12i
	30	21	16 (5/8")	50 (2")	(12")	Standard	RA3-302116-50-12i
				100 (4")	(12")	High	RA3-302116-100-12i
(10" - 13")	30	20	(1/2")	50 (2")	(10")	Standard	RA3-302012-50-10i
				100 (4")	(10")	High	RA3-302012-100-10i
				50 (2")	(12")	Standard	RA3-302012-50-10i-12L
				100 (4")	(12")	High	RA3-302012-100-10i-12L
	30	21	(1/2")	50 (2")	(12")	Standard	RA3-302112-50-12i
				100 (4")	(12")	High	RA3-302112-100-12i
(14" - 18")	39.5	21	16 (5/8")	63 (2-1/2")	(15")	Standard	RA3-39.52116-63-15i
				100 (4")	(15")	High	RA3-39.52116-100-15i
				63 (2-1/2")	(18")	Standard	RA3-39.52116-63-15i-18L
				100 (4")	(18")	High	RA3-39.52116-100-15i-18L
				63 (2-1/2")	(21")	Large Pie	RA3-39.52116-63-15i-21L
				100 (4")	(21")	High-Large Pie	RA3-39.52116-100-15i-21L
	50	30	20	80 (3")	(18")	Standard	RA3-503020-80-18i

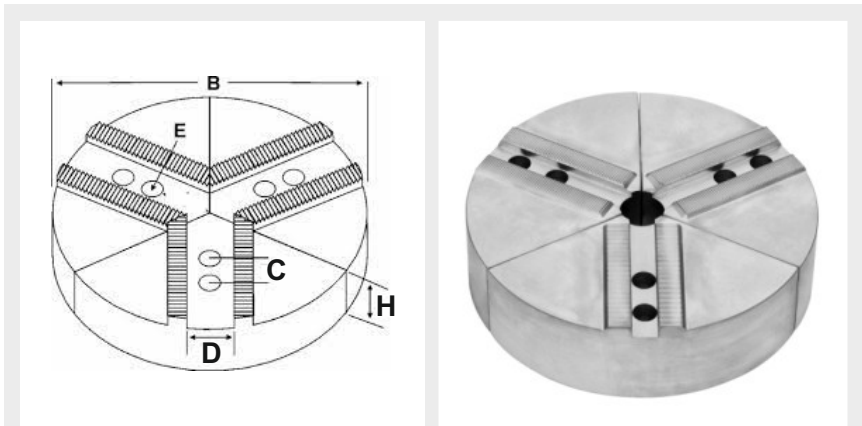


3/32" x 90 Degree Serration

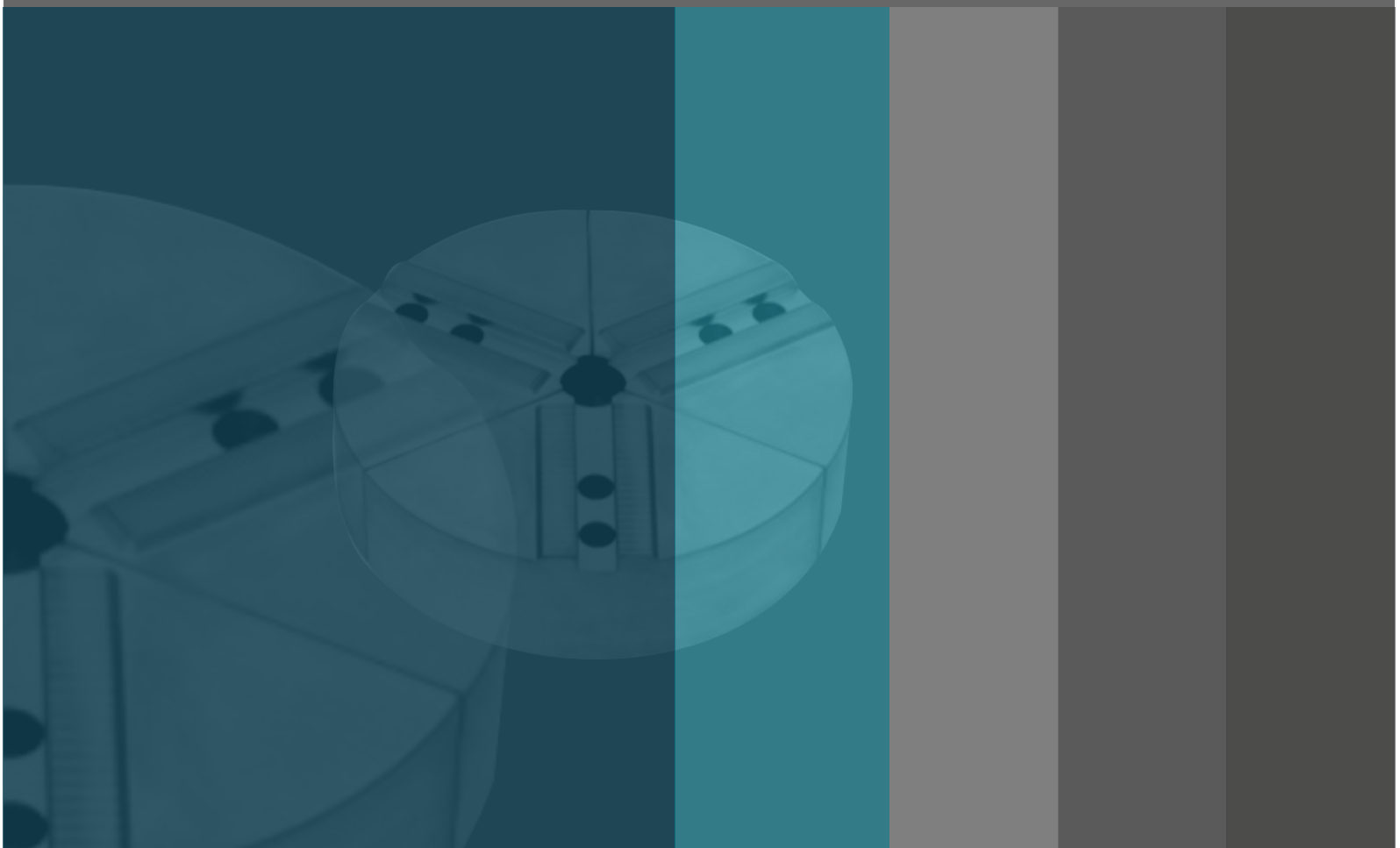
Suitable for: Kitagawa, Sanchully, Strong, SMW Autoblock, Schunk, Rohm, Pratt Burnerd, MMK, Hardinge, Leader, HOWA, Suga, Hitachi-Seiki, Seoam, Tonfou & other Chucks

Material: 6061 T6 Aluminum
Steel Round Jaws also available

All dimensions are in mm (inch)

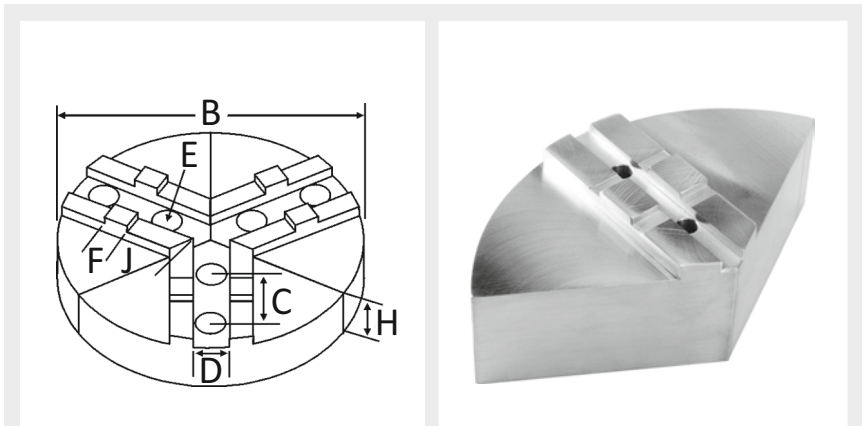


Critical Dimensions						Aluminum
Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size E	Height H	Pie Diameter B	Type	Item #
31	25.5	20	63 (2-1/2")	(16")	Standard	RA4-3125.520-63-16i
35	25.5	20	63 (2-1/2")	(16")	Standard	RA4-3525.520-63-16i
			100 (4")	(16")	High	RA4-3525.520-100-16i
			63 (2-1/2")	(21")	Large Pie	RA4-3125.520-63-16i-21L
39.5	25.5	19 (3/4")	80 (3")	(16")	Standard	RA4-39.525.519-80-16i
			100 (4")	(16")	High	RA4-39.525.519-100-16i
63.5	30	25 (1")	100 (4")	(21")	Standard	RA4-63.53025-100-21i
			100 (4")	(24")	Standard	RA4-63.53025-100-24i



Metric Tongue & Groove:

Suitable for: SMW Autoblock, Berg, Forkardt, Kitagawa, Schunk, Rohm, Samchully, Pratt Burnerd, Bison, SCA, Buck, BTC, Cushman, TMX, Yasa & other chucks.



All dimensions are in mm (inch)

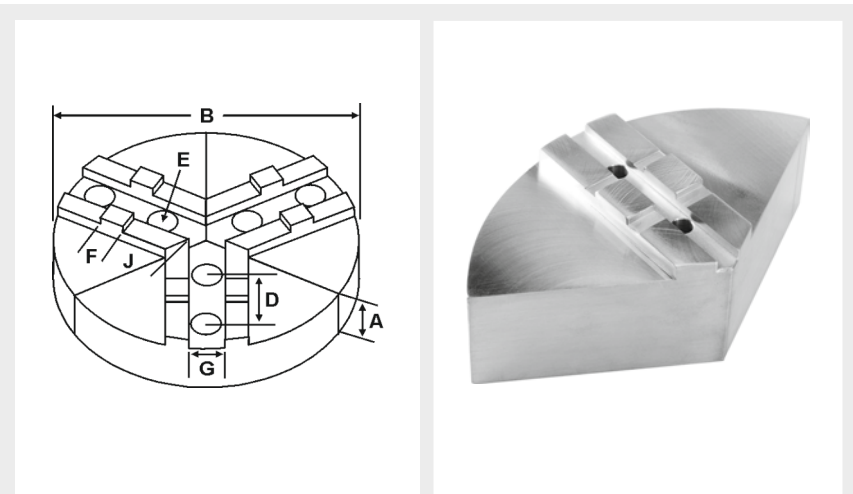
Chuck Size	Critical Dimensions							Aluminum
	Bore Space (center to center) C	Slot Size (Grove Width) D	Screw Size	Tongue Width	Height H	Pie Diameter B	Type	Item #
160 (6")	32	8	8	18 (0.709")	50 (2")	(6")	Standard	RAT-320818-50-6i
					76 (3")	(6")	High	RAT-320818-76-6i
200 (8")	40	10	8	20 (0.787")	50 (2")	(8")	Standard	RAT-401020-50-8i
					76 (3")	(8")	High	RAT-401020-76-8i
250 (10")	40	12	12	20 (0.787")	50 (2")	(10")	Standard	RAT-401220-50-10i
					76 (3")	(10")	High	RAT-401220-76-10i
					76 (3")	(12")	High-Large Pie	RAT-401220-76-10i-12L
					76 (3")	(15")	High-Large Pie	RAT-401220-76-10i-15L
315 (12")	54	12	12	26 (1.023")	50 (2")	(12")	Standard	RAT-541226-50-12i
					76 (3")	(12")	High	RAT-541226-76-12i
					76 (3")	(18")	High-Large Pie	RAT-541226-76-12i-18L
400 (15")	60	18	16	30 (1.180")	76 (3")	(15")	Standard	RAT-601830-76-15i
500 (20")	76	18	16	40 (1.575")	76 (3")	(21")	Standard	RAT-761840-76-21i
600 (24")	82	24	20	40 (1.575")	76 (3")	(24")	Standard	RAT-822440-76-24i



**American Standard
Tongue & Groove:**

Suitable for: Bison, Buck, BTC, Cushman, TMX, PBA, Schank & Rohm Chuks

Material: 6061 T6 Aluminum
Steel Round Jaws also available



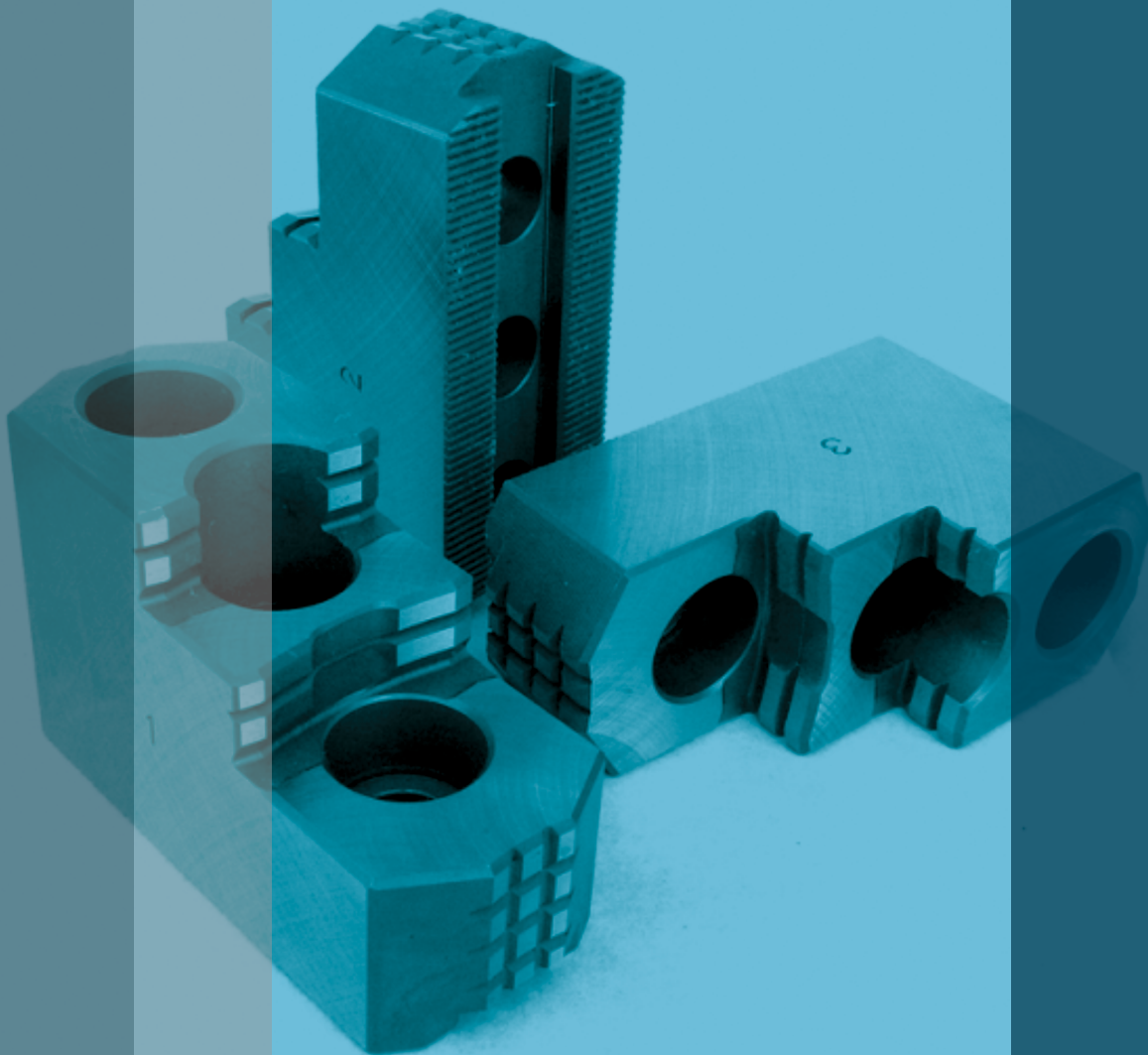
All dimensions are in inch

Chuck Size	Critical Dimensions				Tongue to Front J	Pie Diameter B	Height A	Type	Aluminum	Steel
	Groove Width G	Tongue Width F	Screw Size E	Hole Space D					Item #	Item #
5	0.313	0.500	5/6	1.250	1.100	6	2.00	Medium Duty	6-RAT-5200A	-
6	0.313	0.500	3/8	1.500	1.3600	6	2.00	Medium Duty	RAT-6200A	RST-6200S
							3.00		RAT-6300A	-
							4.00		RAT-6400A	-
							5.00		RAT-6500A	-
							6.00		RAT-6600A	-
							2.00		8-RAT-6200A	8-RST-6200S
6	0.313	0.500	7/16	1.500	1.260	6	4.00	Medium Duty	RAT-6205A	-
							2.00		RAT-6405A	-
							4.00		8-RAT-6205A	-
							4.00		8-RAT-6405A	-
8	0.313	0.500	3/8	1.750	1.200	6	2.00	Medium Duty	6-RAT-8200A	-
							4.00		6-RAT-8400A	-
							2.00		RAT-8200A	RST-8200S
							3.00		RAT-8300A	RST-8300S
					2.150	8	4.00		RAT-8400A	-
							2.00		10-RAT-8200A	10-RST-8200S
							3.00		10-RAT-8300A	-
							4.00		10-RAT-8400A	-
					2.150	12	2.00		12-RAT-8200A	-
							2.50		12-RAT-8250A	-
							4.00		12-RAT-8400A	-
							5.00		12-RAT-8500A	-
8	0.313	0.500	1/2	1.750	2.150	8	2.00	Medium Duty	RAT-8205A	-
							4.00		RAT-8405A	-
							2.00		10-RAT-8205A	-
							4.00		10-RAT-8405A	-

Chuck Size	Critical Dimensions								Aluminum	Steel										
	Groove Width G	Tongue Width F	Screw Size E	Hole Space D	Tongue to Front J	Pie Diameter B	Height A	Type	Item #	Item #										
10	0.500	0.750	1/2	2.125	2.200	12	5.00	Medium Duty	12-RAT-10500A	-										
						18	4.00		18-RAT-10400A	-										
				2.125	1.900	8	4.00		8-RAT-10400A	-										
							6.00		8-RAT-10600A	-										
				2.125	2.200	10	2.00		RAT-10200A	RST-10200S										
							3.00		RAT-10300A	-										
							4.00		RAT-10400A	RST-10400S										
							5.00		RAT-10500A	-										
				2.125	2.200	12	6.00		-	RST-10600S										
							2.00		12-RAT-10200A	-										
							4.00		12-RAT-10400A	-										
							15		2.50	15-RAT-10250A	-									
									4.00	15-RAT-10400A	-									
							10		0.500	0.750	5/8	2.125	2.200	10	2.00	Heavy Duty	RTT-10205A	-		
				3.00	RTT-10305A	-														
				4.00	RTT-10405A	-														
5.00	RTT-10505A	-																		
12	0.500	0.750	5/8	2.125	2.200	12		2.00						12-RTT-10205A	-					
								4.00						12-RTT-10405A	-					
								15						2.50	15-RTT-10255A		-			
														4.00	15-RTT-10405A		-			
12	0.500	0.750	1/2	2.500	1.770	8	4.00	Medium Duty	8-RTT-12400A	-										
					2.425	10	6.00		8-RTT-12600A	-										
							2.00		10-RTT-12200A	-										
					2.500	0.500	0.750		1/2	2.500	3.370	12	4.00	10-RTT-12400A	-					
				2.00									RTT-12200A	-						
				2.50									RTT-12250A	-						
				3.00									RTT-12300A	-						
				3.370							0.500	0.750	1/2	2.500	3.370	12	4.00	RTT-12400A	RST-12400S	
																	5.00	RTT-12500A	-	
																	15	2.50	15-RTT-12250A	-
																		4.00	15-RTT-12400A	-
				3.370	0.500	0.750	1/2		2.500	3.370	12	2.50	18-RTT-12250A	-						
												4.00	18-RTT-12400A	-						
												2.50	21-RTT-12250A	-						
												4.00	24-RTT-12250A	-						
				12	0.500	0.750	5/8		2.500	3.370	12	2.00	Heavy Duty	RTT-12205A	-					
2.50	RTT-12255A	-																		
4.00	RTT-12405A	-																		
5.00	RTT-12505A	-																		
3.350	0.500	0.750	5/8					2.500		3.350	15	2.50		15-RTT-12255A	-					
												4.00		15-RTT-12405A	-					
												18		2.50	18-RTT-12255A	-				
														4.00	18-RTT-12405A	-				
3.100	0.500	0.750	5/8	2.500	3.100	21	4.00	21-RTT-12405A	-											

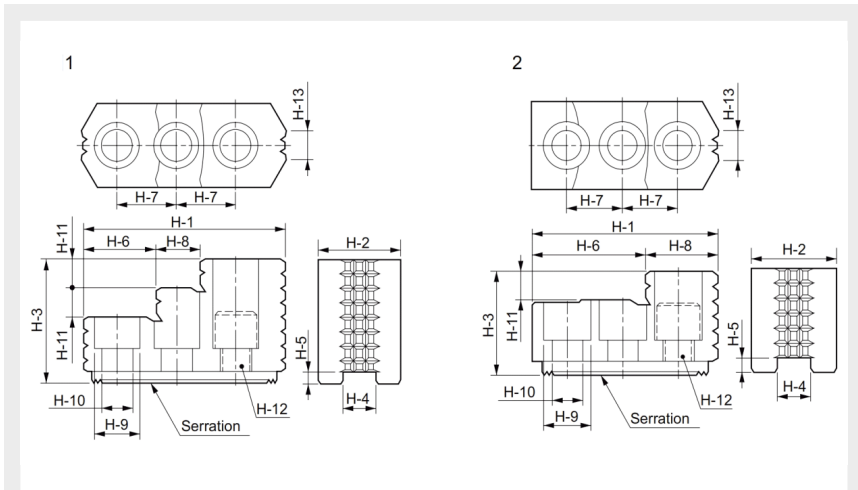
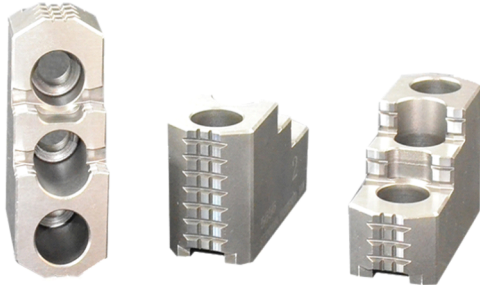
Chuck Size	Critical Dimensions								Aluminum	Steel						
	Groove Width G	Tongue Width F	Screw Size E	Hole Space D	Tongue to Front J	Pie Diameter B	Height A	Type	Item #	Item #						
15	0.500	0.750	5/8	3.000	3.370	12	2.00	Medium Duty	12-RAT-15200A	-						
							4.00		12-RAT-15400A	-						
					3.785	15	2.50		RAT-15250A	RST-15250S						
							4.00		RAT-15400A	RST-15400A						
							5.00		RAT-15500A	-						
							2.50		18-RAT-15250A	-						
					4.100	18	4.00		18-RAT-15400A	-						
							2.50		21-RAT-15250A	-						
					4.550	21	4.00		21-RAT-15400A	-						
							2.50		24-RAT-15250A	-						
					3.825	24	4.00		24-RAT-15400A	-						
15	0.500	0.750	3/4	3.000	3.785	15	2.50	Heavy Duty	RAT-15255A	RST-15255A						
							4.00		RAT-15405A	-						
							5.00		RAT-15505A	-						
					4.100	18	2.50		18-RAT-15255A	-						
							4.00		18-RAT-15405A	-						
					4.550	21	2.50		21-RAT-15255A	-						
							4.00		21-RAT-15405A	-						
					3.785	24	2.50		24-RAT-15255A	-						
							4.00		24-RAT-15405A	-						
					18 & up	0.500	0.750		3/4	3.000	3.370	12	3.00	Heavy Duty	12-RAT-18300A	-
													6.00		12-RAT-18600A	-
5.100	18	2.50	RAT-18250A	-												
		4.00	RAT-18400A	-												
		2.50	21-RAT-18250A	-												
		4.00	21-RAT-18400A	-												
24	24	2.50	24-RAT-18250A	-												
		4.00	24-RAT-18400A	-												
5.000	24	4.00	Heavy Duty	RAT-24400A				-								

HARD JAWS



1.5MM x 60 & 3.0mm x 60 Degree Serrations

Suitable for: Kitagawa, Sanchully, Strong, MMK, HOWA, Schunk etc.

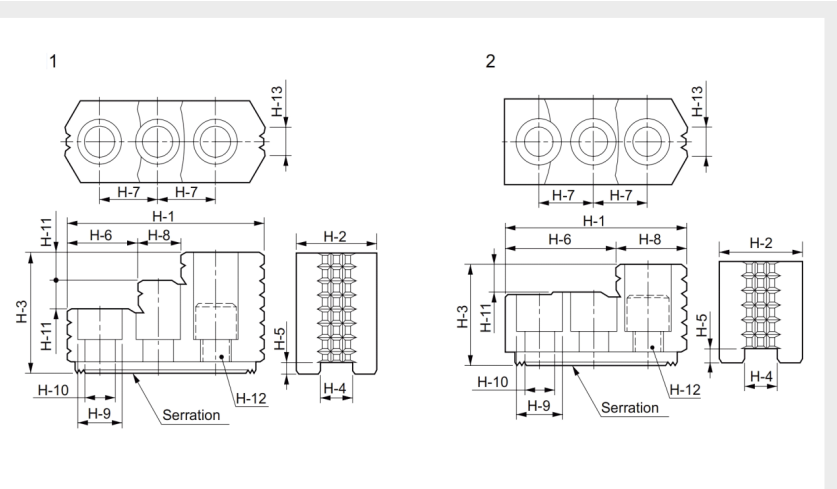


All dimensions are in mm (inch)

Item #	Chuck size	Length H-1	Width H-2	Height H-3	Slot Width H-4	Critical		Critical						Critical		Reference Drawing	Serrations
						H-5	H-6	Hole Distance H-7	H-8	H-9	H-10	H-11	Screw Size H-12	H-13			
HJ1-05-1410M8-2	135 (5")	53	23	27.5	10	4	30.5	14	22.5	13.5	8.5	10	M8	6	2	1.5x60°	
HJ1-06-2012M10-2	170 (6")	67	31	35	12	5	39.5	20	27.5	17	11	12	M10	11	2	1.5x60°	
HJ1-06-2012M10-3	170 (6")	76	32	50	12	5		20		17	11		M10	11	1	1.5x60°	
HJ1-06-2511M8-2	170 (6")	76	32	50	11	5		25		13.5	8.5		M8	11	1	1.5x60°	
HJ1-08-2514M12-3	210 (8")	86	35	51	14	5	31	25	18	19	13	12	M12	12	1	1.5x60°	
HJ1-08-2514M12-2	210 (8")	86	35	51	14	5		25		19	13		M12	12	2	1.5x60°	
HJ1-08-2516M12-3	210 (8")	86	35	51	16	5	31	25	18	19	13	12	M12	12	1	1.5x60°	
HJ1-10-3016M12-3	254 (10")	99.5	40	54	16	5	43	30	17	19	13	13	M12	15	1	1.5x60°	
HJ3-10-3016M12-3	254 (10")	99.5	40	54	16	5	43	30	17	19	13	13	M12	15	1	3.0x60°	
HJ1-10-3016M12-2	254 (10")	99.5	40	54	16	5		30		19	13		M12	15	2	1.5x60°	
HJ1-10-3216M12-3	254 (10")	99.5	40	54	16	5	43	32	17	19	13	13	M12	15	1	1.5x60°	
HJ1-12-3021M16-2	315 (12")	103	50	52	21	4	62.5	30	40.5	25	17	17	M16	30	2	1.5x60°	
HJ1-12-3021M16-3	315 (12")	103	50	62	21	4		30		25	17		M16	30	1	1.5x60°	
HJ1-12-3018M14-2	304 (12")	103	50	52	18	5	62.5	30	40.5	22	15	17	M14	30	2	1.5x60°	
HJ1-12-3018M14-3	304 (12")	103	50	62	18	5		30		22	15		M14	30	1	1.5x60°	
HJ3-12-3018M14-3	304 (12")	103	50	62	18	5		30		22	15		M14	30	1	3.0x60°	
HJ1-15-4322M20-3	381 (15")	149	62	86	22	8	63	43	34	32	21	20	M20	40	1	1.5x60°	
HJ1-15-4325.5M20-3	381 (15")	149	62	86	25.5	5	63	43	34	32	21	20	M20	40	1	1.5x60°	
HJ3-15-5022M20-3	381 (15")	165	62	86	22	5	63	50	34	32	21	20	M20	40	1	1.5x60°	
HJ3-24-5025M20-2	454-610 (18"to24")	159.5	80	90	25	9	104.5	50	55	32	21	40	M20	55	2	3.0x60°	
HJ3-24-5025M20-3	454-610 (18"to24")	159.5	80	90	25	9		50		32	21		M20	55	1	3.0x60°	
HJ3-24-5026M20-3	454-610 (18"to24")	159.5	80	90	26	9		50		32	21		M20	55	1	3.0x60°	
HJ3-24-48.525M20-3	454-610 (18"to24")	159.5	80	90	25	9		48.5		32	21		M20	55	1	3.0x60°	

Hard Jaws: 1/16" x 90 & 3/32" x 90 Degree Serrations

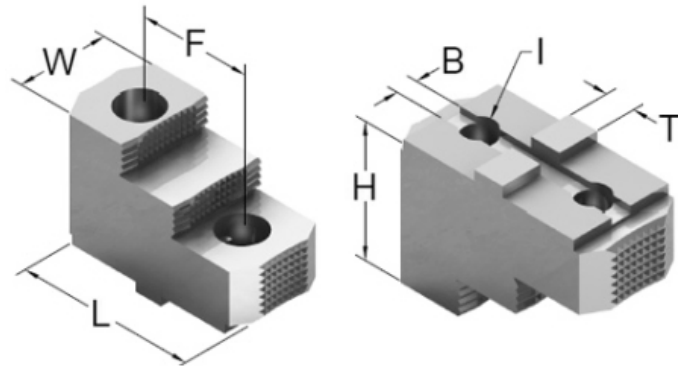
Suitable for: Kitagawa, Sanchully, Strong, MMK, HOWA, Schunk etc.



All dimensions are in mm (inch)

Item #	Chuck size	Length H-1	Width H-2	Height H-3	Critical	Critical	H-9	H-10	Critical	Reference Drawing	Serrations
					Slot Width H-4	Hole Distance H-7			Screw Size H-12		
HJ2-05-1612M8-3	125-150	58	29	34	12	16	13.5	8.5	M8	1	1/16"x90°
HJ2-06-1614M10-3	160	65	34	39	14	16	17	11	M10	1	1/16"x90°
HJ2-06-18.511M8-3	160	76	34	50	11	18.5	13.5	8.5	M8 (5/16")	1	1/16"x90°
HJ2-06-2214M10-3	160	76	34	50	14	22	17	11	M10 (3/8")	1	1/16"x90°
HJ2-08-2317M12-3	200-220	82	38	45	17	23	19	13	M12	1	1/16"x90°
HJ2-08-2417M12-3	200-220	82	38	50	17	24	19	13	M12 (1/2")	1	1/16"x90°
HJ2-10-3021M16-3	250-315	105	45	56	21	30	25	17	M16	1	1/16"x90°
HJ2-10-3021M12-3	250-315	105	45	56	21	30	19	13	M12 (1/2")	1	1/16"x90°
HJ2-10-3020M12-3	250-315	105	45	56	20	30	19	13	M12 (1/2")	1	1/16"x90°
HJ2-15-3021M16-3	315-350	122	50	56	21	30	25	17	M16	1	1/16"x90°
HJ2-16-39.521M16-3	350-450	122	50	63	21	39.5	25	17	M16 (5/8")	1	1/16"x90°
HJ2-16-3421M16-3	400	120	55	74	21	34	25	17	M16	1	1/16"x90°
HJ2-16-3421M16-3L	400	152	55	74	21	34	25	17	M16	1	1/16"x90°
HJ4-20-3828M20-2	500	147	55	73	28	38	32	21	M20	2	3/32"x90°
HJ4-20-3828M20-2	610-800	147	70	75	28	38	32	21	M20	2	3/32"x90°
HJ4-20-3825.5M20-2	500-630	147	55	73	25.5	38	32	21	M20	2	3/32"x90°
HJ4-20-3825.5M20-2W	610-800	147	70	75	25.5	38	32	21	M20	2	3/32"x90°

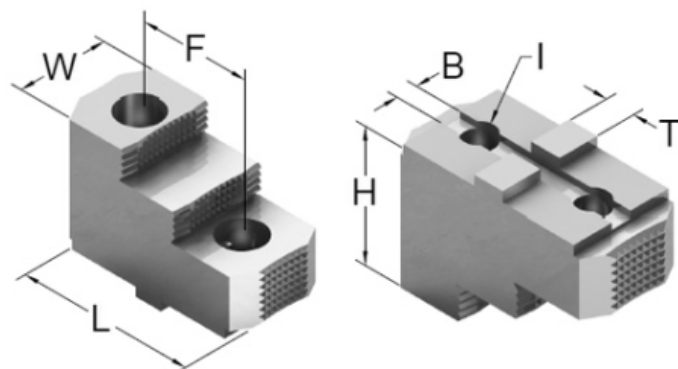
Metric Tongue & Groove



All dimensions are in mm

Item #	Chuck size	Slot Width B	Hole Distance F	Tongue Width T	Screw Size I	Length L	Width W	Height H
HJ2-05-1612M8-3	160-175	8	32	18	M8	63	20	36
HJ2-06-1614M10-3	200-225	10	40	20	M8	72	22	43
HJ2-06-18.511M8-3	250-315	12	40	20	M12	90	30	55
HJ2-06-2214M10-3	315-400	12	54	26	M12	103	36	62
HJ2-08-2317M12-3	500-630	18	60	30	M16	130	45	82

American Standard Tongue & Groove



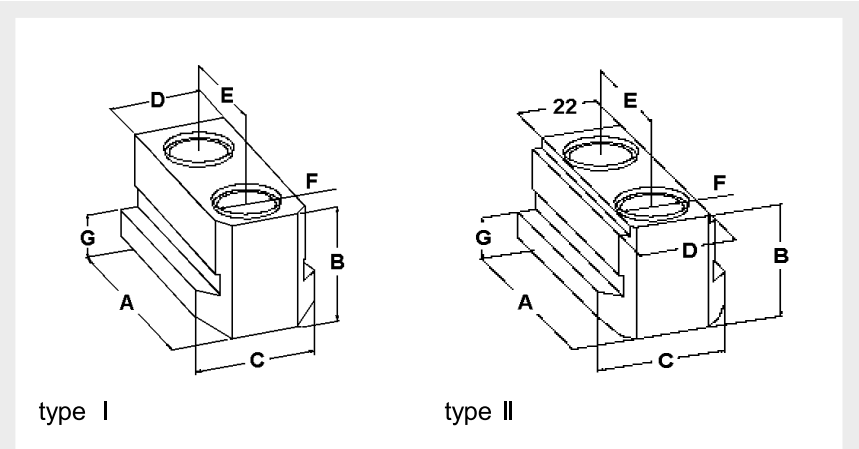
All dimensions are in inch

Item #	Chuck size	Slot Width B	Hole Distance F	Tongue Width T	Screw Size I	Type	Length L	Width W	Height H
TG-60HJ2	6"	0.312"	1.5"	0.500"	3/8"	Medium Duty	2.834"	1.035"	1.511"
TG-80HJ2	8"	0.500"	1.75"	0.500"	3/8"	Medium Duty	2.875"	1.25"	2"
TG-100HJ2	10"	0.500"	2.125"	0.750"	1/2"	Medium Duty	3.77"	1.75"	2.5"
TG-120HJ2	12"	0.500"	2.5"	0.750"	1/2"	Medium Duty	4.5"	1.75"	2.5"
TG-125HJ2	12"	0.500"	2.5"	0.750"	5/8"	Heavy Duty	4.5"	1.75"	2.5"
TG-150HJ2	15"	0.500"	3"	0.750"	5/8"	Medium Duty	5.35"	2.5"	3.469"
TG-155HJ2	15"	0.500"	3"	0.750"	3/4"	Heavy Duty	5.35"	2.5"	3.469"

JAW NUTS (T-NUTS)



Jaw Nuts (T-Nuts)



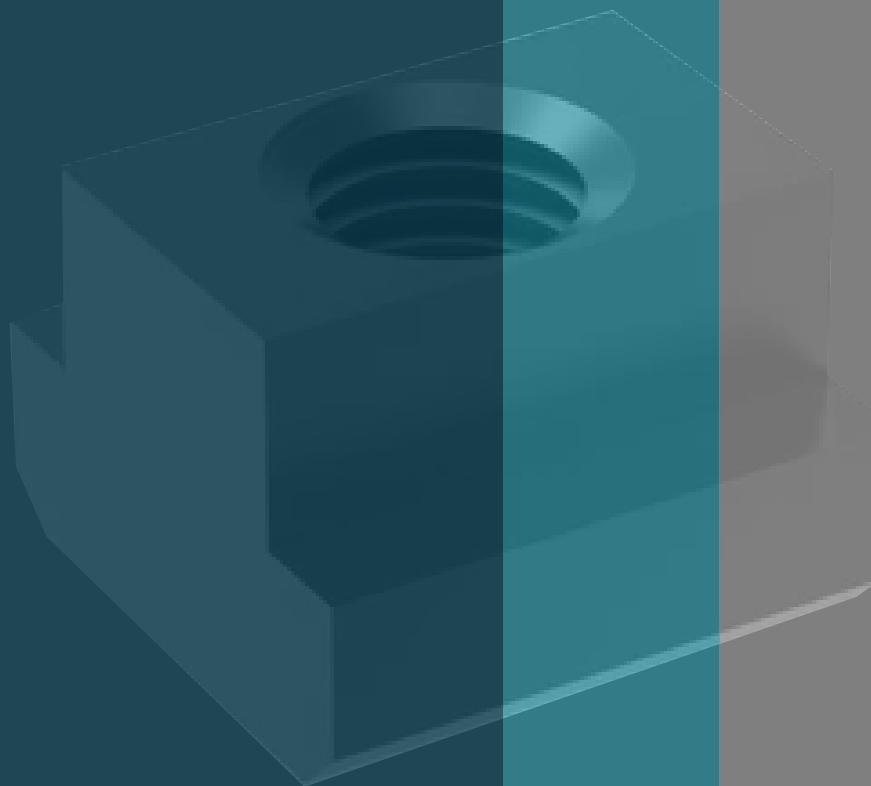
All dimensions are in mm

Chucks: Kitagawa, AutoStrong, Samchully, Seoam, Schunk etc.

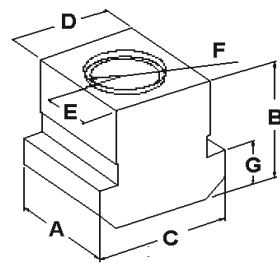
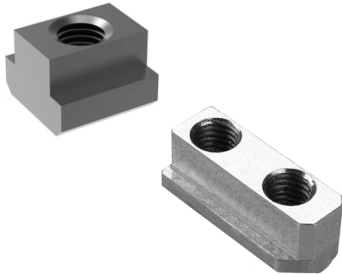
Chuck size	Type	A	B	C	D	E	F	G	Chuck Model#	Item #	
110	I	25	13.5	11.3	8	15	M6	4.5	B04;BT04;HOB4	JN-15-8-M6-4.5	
100	I	28	18	15	10	14	M8	5.5	N04;NL04;AS04;HJ4;NT04;AT04;AS110	JN-14-10-M8-5.5-B	
100-130	I	26	15	15	10	14	M8	5.5	B204;B205	JN-14-10-M8-5.5	
125	I	32	18	15	10	19	M8	5.5	N05;NT05;HJ5	JN-19-10-M8-5.5	
135	I	30	15	14	10	18	M8	5.2	B05;BT05;HOB5;HOB5T5	JN-18-10-M8-5.2	
160	I	40	22	18	12	20	M10	7	B06;HOH06K;N06;N06A;NL06;NT06A HJ6;AS06;BT06;AT06;NT06;HOB6;HO6 "HJA5-6;N160;B160;AS165;HOH160 HSL 165 (1.5x60°) ROTA NC 165(1.5x60°) ROTA NCF 165(1.5x60°)"	JN-20-12-M10-7-B	
									"B206;B206A;HOH206;BT206;BT206A ROTA NCK 165"		JN-20-12-M10-7
									B06;B106;B07;HOH106;HOH06		
									B08;B08A;HOH08K;N08;N08A;NL08 HJ8;AS08;NT08;NT08A;AT08;BT08 BT08A;HOB8;HJA6-8;HO8;B200;N200 "HOS8;AS210 HSL 210; ROTA NC 210(1.5x60°) ROTA NCF 210(1.5x60°)"		JN-25-14-M12-8.5
B208;B208A;HOH208;B108;HOH108 "BT208;BT208A ROTA NCK 210"	JN-25-14-M12-8										
200 - 201		I	45	24.5	20	14	25	M12	8.5	B10;B10A;HOH10K;AS10;BT10;BT10A N10;N10A;NL10;HJ10;NT10;NT10A AT10;HW10;HW12;B250;AS250;N250 "HOB10;HO10;HOS10;HJA8-10;HOH250 HSL 250; ROTA NC 250(1.5x60°) ROTA NCF 250(1.5x60°)"	JN-30-16-M12-8.5-B

Chucks: Kitagawa, AutoStrong, Samchully, Seoam, Schunk etc.

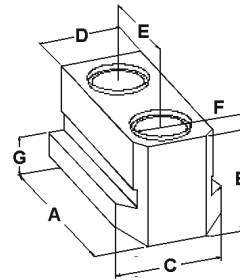
Chuck size	Type	A	B	C	D	E	F	G	Chuck Model#	Item #
250	I	49	21.5	22	16	30	M12	8.5	"B210;B210A;HOH210;BT210;BT210A ROTA NCK 250"	JN-30-16-M12-8.5
									B110;HOH110	
300	I	55	33.5	25	18	30	M14	13.5	B12;B12A;N12;N12A;HOH12;NL12;	JN-30-18-M14-13.5
300	I	55	30	25	18	30	M14	9.5	BT12;BT12A;NT12;NT12A;HOH12;HJ12 HW12;HOB12;HO12;B300;N300;HOH300	JN-30-18-M14-9.5
									"HLA6-12;HLA6-15;HLA8-15;HJA8-12 HSL 315; ROTA NC 315(1.5x60°) ROTA NCF 315(1.5x60°)"	
300	I	58	23	30	21	30	M16	11.5	Bb212	JN-30-21-M16-11.5-B
300	I	58	28	30	21	30	M16	11.5	B212;B212A;BT212;B112;BT212A;	JN-30-21-M16-11.5
									"HOH112;HOH212 ROTA NCK 315"	
381-457	II	80	45.5	34	24	43	M20	16.5	"B15;B15A;B18;B18A;HOB15;HOH15 HSL 400; ROTA NC 400(1.5x60°) ROTA NCF 400(1.5x60°)"	JN-43-24-M20-16.5-22
									BT15;HOB15;HLA15;HJA11-15	
									BT15A;B380;B450;HOH380;HOB18	
457	I	90	45	37.5	25	50	M20	19	B21;B24;HOB21;B21A	JN-50-25-M20-19
457	I	100	45	37.5	25	60	M20	19	B24A;HOB24;N21;N24	JN-60-25-M20-19
381	I	80	39.2	35	25.5	43	M20	19	N15;N15A;N18;N18A	JN-43-25.5-M20-19
457	I	100	54	37.5	25	60	M20	19	HO18;HJ18;HJ21	JN-60-25-M20-19-B



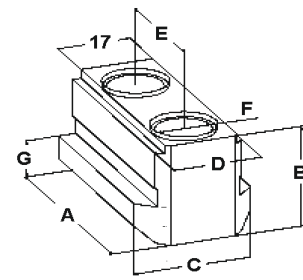
Jaw Nuts (T-Nuts)



type I



type II



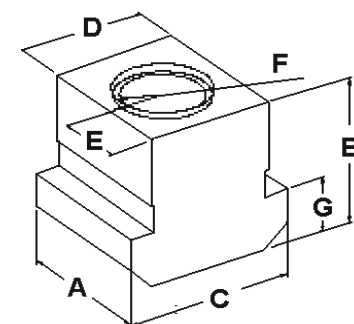
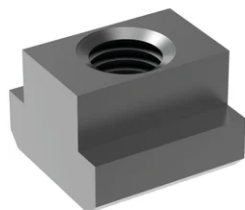
type III

All dimensions are in mm

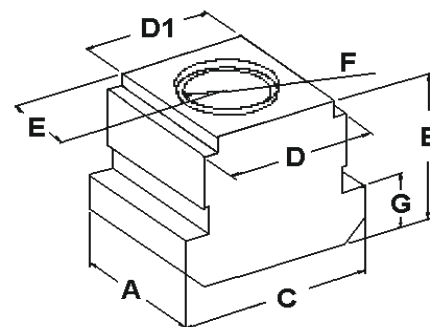
Chucks: Rohm

Chuck Size	Type	A	B	C	D	E	F	G	Chuck Model#	Item#
105-110	I	14	15.5	15	10	7	M8	6.5	KFD-HS110;KFN105	TN-10-M8-6.5
105-110	II	30	15.5	15	10	15	M8	6.5		JN-7-10-M8-6.5
110-140	I	11	14	15	10	5.5	M6	5.5	KFD-HS130;KFD-HS140;KFD110 KFD125;KFD140;KFD-HE110 KFD-HE125;KFD-HE140	TN-10-M6-5.5
110-140	3F	34	14	15	10	2x12	3XM6	5.5		JN-5.5-10-3M6-5.5
130-160	I	14	15.5	13.5	11	7	M8	6.5	KFM130;KFN130;KFG160;KFM160 KFG160;KFE170	JN-7-11-M8-6.5
160-175	I	14	17.2	17.5	12	7	M8	7	KFD-HS160;KFD-HS175;KFD130 LVE125;LVE160	TN-12-M8-7
160-175	3F	42	17.2	17.5	12	2x15	3XM8	7		JN-7-12-3M8-7
215	I	21	16.5	19	14	10.5	M10	6.5	KFN215;KFM215;KFG215;KFE215	JN-10.5-14-M10-6.5
160-200	I	18	21.5	22.5	17	9	M12	9	KFD-HS200;KFD-HF160;KFD-HF200 LVE200;KFD160;KFD200;KFL250 KFD-HE160;KFD-HE200;SPD160 SPD215;SPO160;SPO215; KFH-F160;KFH- NC160	TN-17-M12-9
160-200	II	36	21.5	22.5	17	19	M12	9		JN-19-17-M12-9
250-280	I	22	21.5	25.5	20	11	M12	8.5	KFN250;KFE250;KFG280;KFN280 KFD-HS250	JN-11-20-M12-8.5
250	III	36	25.5	29.5	21	19	M12	11		JN-19-21-M12-11
250-400	I	24	25.5	29.5	21	12	M16	11	KFD-HF250;KFD-HF315;KFD-HE315 LVE250;LVE315;KFD250;KFD-315 KFL400;KFL315;SPD250;SPD315 SPO250;SPO315;KFH-NC250 KFH-NC315;KFD-HE250	TN-21-M16-11-B
250-400	II	46	25.5	29.5	21	25	M16	11		JN-25-21-M16-11
400-800	I	30	34	32.5	25.5	15	M20	15.5	KFD-HS400;KFD-HS500;KFD-HF400 KFD-HF500;KFD-HF630;LVE400 LVE500;LVE630;LVE800;KFD400 KFD500;KFD630;KFD-HE400 KFD-HE500;KFD-HE630;KFD-HE800 KFL500;KFL600	TN-25.5-M20-15.5
400-800	II	63	34	32.5	25.5	35	M20	15.5		JN-35-25.5-M20-15.5

Jaw Nuts (T-Nuts)



type I



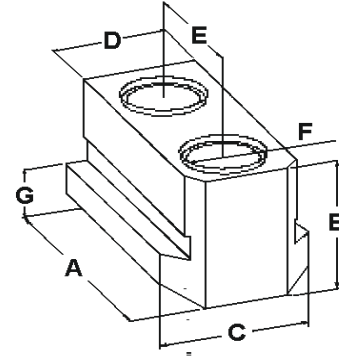
type II

All dimensions are in mm

Chucks: Autoblock

Chuck Size	Type	A	B	C	D	D1	E	F	G	Chuck Model#	Item#
125-150	I	15	15	17	12	-	7.5	M8	6.5	BHD130;HBD130;PBD130 BBD140;BHM130;HBM130	TN-12-M8-6.5
165-180	I	15.5	20	20	14	-	7.75	M10	7.5	GHD/FC165;GHDN165 HDB170;HDL170;HDN170	TN-14-M10-7.5
200-220	I	20	22	22.5	17	-	10	M12	8	CD200;GHD-FC210;GHDN210 HDL200;HDN200-220	TN-17-M12-8
250-400	I	25	25	29	21	-	12.5	M16	11	2CLD200;HDN/FC400;GHD400	TN-21-M16-11
250-400	II	25	25	29	21	17	12.5	M12	11	GHD/FC250;GHDN400 GHM400;CD250	TN-21-M12-11-17
500	I	34	34	36	28	-	17	M20	15		TN-28-M20-15
500	II	34	34	36	28	25.5	17	M20	15	GHD500;GHDN500	
400-800	I	30	34	35	25.5	-	15	M20	15	CLD250-315;AND400-450 ALD400-450;BHD400-800 BHD/FC400-630 HYDL400-450;HYDN400-450	TN-25.5-M20-15
400-630	II	30	34	35	25.5	21	15	M16	15	HDN500;HDN/FC630 RCD500;GHD500 ANM400;ALM400;ICN500 IND500;ICL500;ILD500	TN-25.5-M16-15-21
500-800	I	32	40	40	28	-	16	M20	15.5	GHD610;GHDN610;GHD640 GHDN640;ILD630;ILD800 IND630;IND800;ICN630	TN-28-M20-15.5
500-800	II	32	40	40	28	25.5	16	M20	15.5	ICN800;ICL630;ICL800 HYDS500;HYDS550	TN-28-M20-15.5-25.5

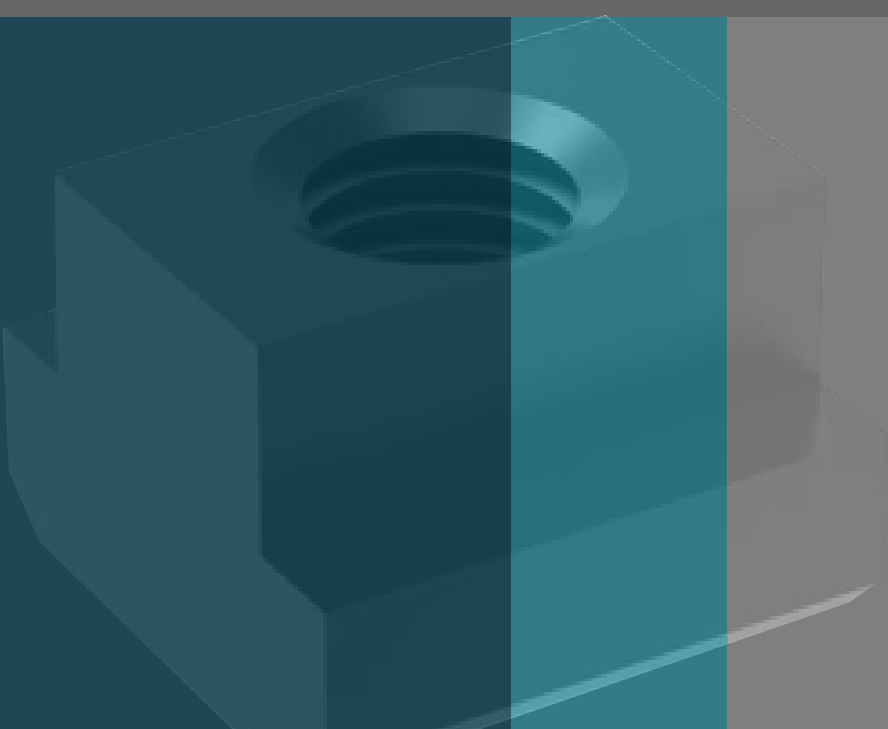
Jaw Nuts (T-Nuts)



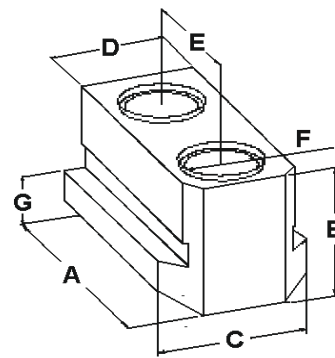
All dimensions are in mm

Chucks: Autoblock

Chuck Size	A	B	C	D	E	F	G	Chuck Model#	Item#
130-140	30	15	17	12	16	M8	6.5	BHD130;HBD130 PBD130;PBDI130 BBD140;BHM130 HBM130;PBM130 PBM130;BBM140	JN-16-12-M8-6.5
165-180	35	20	20	14	16	M10	7.5	GHD/FC165;GHDN165 HDB170;HDL170 HDN170	JN-16-14-M10-7.5
200-220	41	22	22.5	17	23	M12	8	CD200;HDL200 HDN200;GHD-FC210 GHDN210;HDN220	JN-23-17-M12-8
250-400	54	25	29	21	30	M16	11	CLD200;BHD/FC400 GHD400;GHDN400 RCD305;CD250	JN-30-21-M16-11
400	60	33	31	21	34	M16	14.5	HYDS250;HYDS400 RCD400	JN-34-21-M16-14.5



Jaw Nuts (T-Nuts)

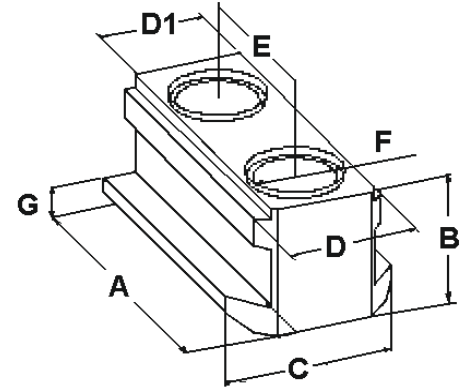


All dimensions are in mm

Chucks: Autoblock

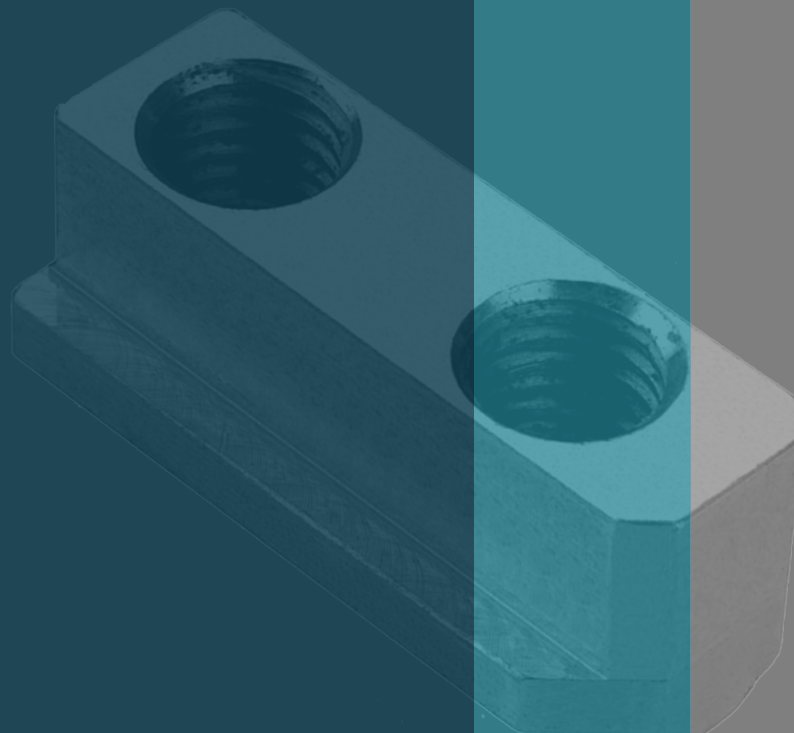
Chuck Size	A	B	C	D	E	F	G	Chuck Model#	Item#
125	32	15	15	12	16	M8	6.5	AND125;ALD125 ANM125;ALM125	JN-16-12-M8-6.5-B
165-175	32	18.5	17	14	16	M10	6.5	AND165;ALD165 APD170;NTD170 BHD165;BHD/FC165 BBD175;RCD165 HBD165;HYDN180 HYDL180;PBD165	JN-16-14-M10-6.5
210-226	43	20	19	17	23	M12	7.5	AND210;ALD210 APD215;NTD215 BHD210;BHD/FC210 BBD210;RCD210 HBD210;HYDN210-226 HYDL210-226;PBD210	JN-23-17-M12-7.5
250-315	56	26.5	25	21	30	M16	10	AND250-315;ALD250-315 APD315;BHD/FC250-315 NTD315;BHD250-315 BBD250-315;RCD250-305 HBD250-315;PBD250-315 HYDN250-315;HYDL250-315	JN-30-21-M16-10
400	60	33	31	21	34	M16	14.5	ANM315;ALM315;APM315 NTM315;BHM315;BBM315 RCM305;HBM315;PBM315 BHD-FC400;RCD400	JN-34-21-M16-14.5
500	70	33	31	25.5	38	M20	14.5	APD400;NTD400; BHD-FC500;RCD500	JN-38-25.5-M20-14.5

Jaw Nuts (T-Nuts)

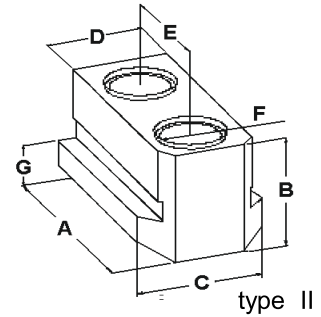
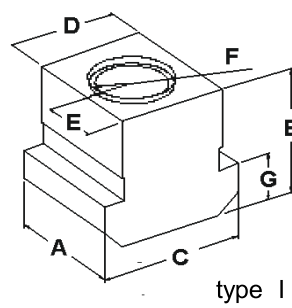
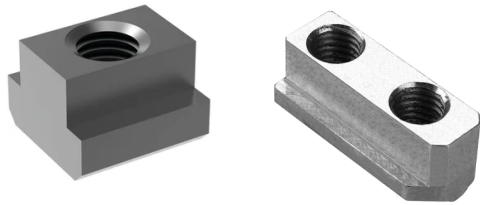


All dimensions are in mm

Chucks: Autoblock										
Chuck Size	A	B	C	D	D1	E	F	G	Chuck Model#	Item#
165-175	36	18.5	17	14	12	20	M10	6.5	ANM165;ALM165 APM170;NTM170 BHM165;BBM175 RCM165;HBM165	JN-20-14-M10-6.5-12
210	45	20.5	19	17	14	25	M12	7.5	ANM210;ALM210 APM210;NTM210 BHM210;BBM210 RCM210;HBM210	JN-25-17-M12-7.5-14
250	56	26.5	25	21	16	30	M12	10	ANM250;ALM250 BHM250;BBM250 PBM250;PBMI250 HBM250;RCM250	JN-30-21-M12-10-16



Jaw Nuts (T-Nuts)



All dimensions are in mm

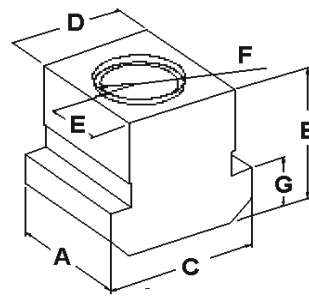
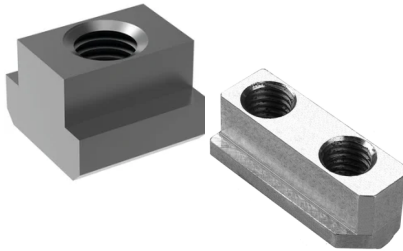
Chucks: CMT

Chuck Size	Type	A	B	C	D	E	F	G	Chuck Model#	Item#
120	I	12	14.5	12	8	6	M6	5.5	AA3-120;AA2-120	TN-8-M6-5.5
140-200	I	19	16	14.5	10	7	M8	7	AE3-140;AB3-170 AC3-200;AE2-140 AE4-140;AB4-170 AC2-200;AC4-200 PD3-170;PA2-200 PA3-200	TN-10-M8-7
200-250	I	26	20	17.5	12	9	M10	8.5	AG5-250;AD3-230 AG3-250;AI3-270 AD2-230;AD4-230 AG2-250;AG4-250 KC3-200;KS3-210 KC2-200;KC4-200 PB3-230;PB4-230	TN-12-M10-8.5
250	I	30	30	28.5	21	15	M14	11	KG3-250;KP3-315 KG2-250;KG4-250 KP4-315;VG/3-372	TN-21-M14-11
300-330	I	29	27.5	24	18	12	M12	10.5	AF3-300;AO3-330 AF4-300	TN-18-M12-10.5
400	I	34	34.5	30.5	20	15	M16	13.5	AH3-400;KH3-400 KH4-400	TN-20-M16-13.5

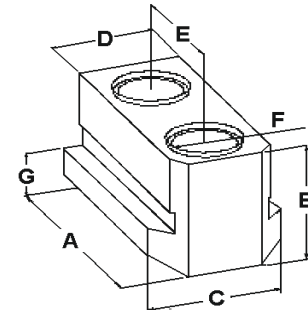
Chucks: CMT Models: GB, KZ, GH, GX

Chuck Size	Type	A	B	C	D	E	F	G	DENTATURA / pitch	Item#
130	II	30	15	17	12	16	M8	6.5	1/16"x90° 1.5x60°	JN-16-12-M8-6.5
130	II	30	15	14	10	18	M8	5.2	1.5x60°	JN-18-10-M8-5.2
165	II	32	18.5	18	14	16	M10	6.5	1/16"x90° 1.5x60°	JN-16-14-M10-6.5-B
165	II	40	18.5	18	12	20	M10	7.5	1.5x60°	JN-20-12-M10-7.5
210	II	45	20	19	17	23	M12	7.5	1/16"x90° 1.5x60°	JN-23-17-M12-7.5-B
210	II	45	20	20	14	25	M12	8	1.5x60°	JN-25-14-M12-8
250-315	II	54	25	29	21	30	M16	11	1/16"x90° 1.5x60°	JN-30-21-M16-11

Jaw Nuts (T-Nuts)



type I



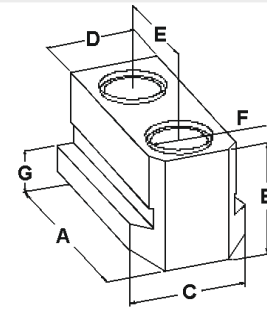
type II

All dimensions are in mm

Chucks: Forkardt, Pratt Burnerd, Schunk & SMW

Chuck Size	Type	A	B	C	D	E	F	G	Forkardt Model#	Pratt Burnerd Model#	Schunk Model#	SMW Model#	Item#	
160-250	I	19	23	22.5	17	9.5	M12	9	2BLE-PS160;KGH160;KGF160 KL160;KS160;KSH-160;KSPS160 KTG160;KTH160-46;KTN160 NH-160;NHF160;UVE160;KGF175 KGF175;KSF175;KTH175-46 QLC175;KG200;KGF200;KGF200 KS200;KSF200;KT200;KTGF200 KTH200;NH200;NHF200;UVE200 KL250 Mo;KS250;KS250 Mo	160 INTERNATIONAL 160 H S Q.C. 165 HYD. FRONT END 200 INTERNATIONAL 200 H S Q.C. 210 HYD. FRONT END 210 H S Q.C. 250 H S Q.C. 254 INTERNATIONAL 265 H S Q.C.	HSL 165/210; ROTA NC 165/210 ROTA NC-D 200; ROTA NC-F 165/210 ROTA HC-0 160/200 TH 165/210 THF 165/210	HFK 160/200 HFKS 160/200 KDV 160/200/250 KDFG 160/200/250 KVF 160/200 KFMF 160/200		TN-17-M12-9-B JN-22-17-M12-9
250-400	I	24	27	28.5	21	11.75	M16	11	2BLE-200;2BLE250 Mo 2BLN200;KG250;KL250;KP250 KLNC250;KSH250;KSHF250 KSPS250;KT250;KTGF250 KTN250;NH250;NHF250;QLC250 NHF257;NHF290-104;KSPS300 KG315;KLNC315;KP315;KS315 KSH315;KSHF315;KT315;KTGF315	250 INTERNATIONAL 254 HYD. FRONT END 305 HYD. FRONT END 305 INTERNATIONAL 305 H S QC 315 INTERNATIONAL 400 H S QC	HSG 315; HSL 250/315 ROTA NC 250 ROTA NC-D 250/315 ROTA NC-F 250 ROTA NC-F 315 ROTA NC-O 250/315 TH 250/315 THF 250/315	HFK 250/270/315 HFKS 250/315 KDV 315/400 KDFG 315/400 KVF 250/315 KFMF 250/315 KZF 200 KZF-ES 200		TN-21-M16-11-C JN-28-21-M16-11
400-800	I	28	29	36	25.5	13.75	M20	11	2BLE250;2BLN250;KG400;KL400 KP400;KT400;KTGF400;NH400 NHF400;QLC400;UVE400;KG500 KL500;KLNC500;KP500;KT500 KTGF500;NH500;NHF500;UVE500 KSHF560;KS630;KSL630;KSHF630 KT630;KTGF630;NH630;NHF630	400 INTERNATIONAL 400 HYD. FRONT END 500 HYD. FRONT END	HSL 400 ROTA NC 400/500 ROTA NC-D 400 ROTA NC-F 400/500 ROTA NC-O 400 TH 400/500 THF 400/500	HSL 400 ROTA NC-400/500 ROTA NC-D 400 ROTA NC-F 400/500 ROAT NC-O 400 TH 400/500 THF 400/500		TN-25.5-M20-11 JN-35-25.5-M20-11
400-800	II	61	29	36	25.5	35	M20	11	UVE630;UVE800					

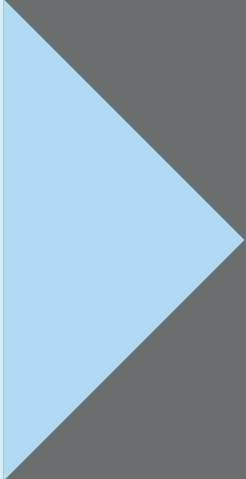
Jaw Nuts (T-Nuts)



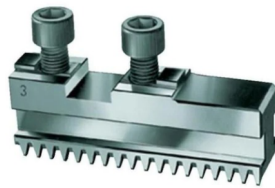
All dimensions are in mm

Chucks: HOWA									
Chuck Size	A	B	C	D	E	F	G	Chuck Model#	Item#
160	40	22	18	12	20	M10	7	HO1MA6;HO7MA6;HO15M6 HO22M6;HO24M6;HO27M6 HO47M6;HO37M6;HO5M6	JN-20-12-M10-7-B
200-210	45	23	20	14	25	M12	8.5	HO1MA8;HO2M8;HO7MA8 HO15M8;HO23M8	JN-25-14-M12-8.5-B
250	49	23	22	16	30	M12	8	HO1MA10;HO2M10	JN-30-16-M12-8
250	45	26.5	22	16	25	M12	8.5	HO7MA10;HO15M10;HO23M10 HO27M8;HO22M8;HO47M8 HO24M8;HO37M8;HO5M8	JN-25-16-M12-8.5
300	55	27.5	25	18	30	M14	9.5	HO7MA12;HO22M10;HO24M10 HO15M12;HO23M12;HO27M10 HO47M10;HO37M10;HO34M10 HO5M10	JN-30-18-M14-9.5-B
300	55	33.5	25	18	30	M14	13.5	HO1MA12;HO2M12	JN-30-18-M14-13.5
300	68	29	30	21	40	M16	10.5	HO7MA12;HO22M12;HO24M12 HO23M15;HO5M12	JN-40-21-M16-10.5
300	61	29	30	21	35	M16	10.5	HO27M12;HO47M12;HO34M12 HO37M12	JN-35-21-M16-10.5
381-610	82	40	34	26	50	M20	17	HO1MA15;HO1MA18;HO1MA2 1 HO1MA24	JN-50-26-M20-17
381-610	74	40	34	26	42	M20	17	HO27M15;HO47M15	JN-42-26-M20-17
Chucks: Matsumoto									
Chuck Size	A	B	C	D	E	F	G	MATSUMOTO Model#	Item#
125-150	32	20	16.5	11	20	M8	7	HA5-6;HH6;HX6;HJ6;H6;STC-6	JN-20-11-M8-7
150-200	45	22	20	14	25	M12	8.5	HA6-8;HJ-8;HX-8;HHJ-8;H-8 STC-8;HH-8	JN-25-14-M12-8.5-C
200-280	49	23	22	16	30	M12	8	HA8-10;H10;HHJ-10;HH- 10;HHL10	JN-30-16-M12-8
300	55	33.5	25	18	30	M14	13.5	HA8-12;HJ-12;HX-12;HHJ-12 H-12;HH-12;HHL-12	JN-30-18-M14-13.5
381-457	90	39.5	33	22	50	M20	19.5	HA11-15;H15;HA11-18;H18 HH15;HH18;HHL15	JN-50-22-M20-19.5

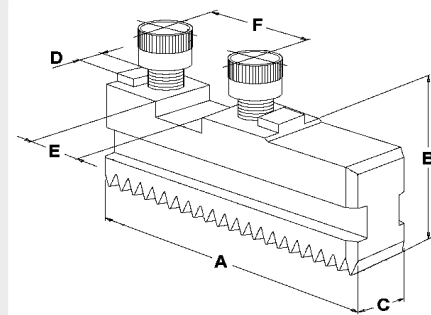
QUICK CHANGE JAWS



Base Jaws - Hard - "GBK" (Straight Teeth) For Quick Jaw Change Chuck



Straight Teeth

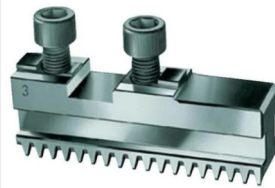


All dimensions are in mm

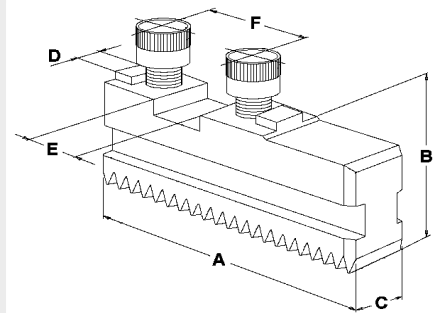
Mandrini / Chucks : SMW/AUTOBLOK - SCHUNK

CODICE CODE	MAND CHUCK	A	B	C	D	E	F	KG	SMW-Autoblok	Schunk
GBK140	140	56	30	20	8	18	32	0.4	KNCS140,KNCS-N140	-
GBK160	160-185	65	30	22	8	18	32	0.7	HG160,HG-N160	ROTA-G160
									KNCS160-175,KNCS-A175	ROTA NCW185
									KNCS-N170,KNSP160	THW165R
									RMG160	
GBK200	200-225	85	32	26	10	20	40	1.0	HG200,HG-N210	ROTA-G200
									KNCS200-225,KNCS-A200	ROTANCW225
									KNCS-N210-225,KNSP200	THW210R
									RMG200	
GBK250	250-265	104	40	32	12	20	40	1.8	HG250,HG-N260	ROTA-G250
									KNCS250-260,KNCS-A250	ROTA NCW265
									KNCS-N260,RMG250	THW250/265R
GBK315	315	115	46	32	12	20	40	2.7	HG315,HG-N315	ROTA-GG315
									KNCS-N315,KNCS-A315	ROTA NCW315
									KNCS-N315	THW315R
GBK400	400	125	46	32	12	26	54	3.0	HG400,HG-N400	ROTA-G400
									KNCS400,KNCS-A400	ROTA NCW400
									KNCS-N400	THW400R
GBK500	500	160	61	45	18	30	60	7.5	KNCS500,HG500,HG-N500	THW500-128R
									KNCS-A500,KNCS-N500	ROTA-G500
GBK630	630	200	61	45	18	30	60	9	KNCS630,HG630,HG-N630	
									KNCS-N630	THW630-160R

Base Jaws - Hard - "SFG" (Angled Teeth) For Quick Jaw Change Chuck



Angled Teeth

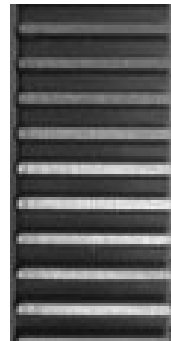


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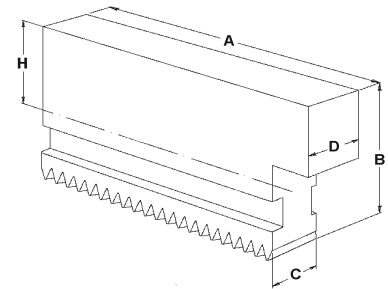
Mandrini / Chucks : SMW/AUTOBLOK - SCHUNK - FORKARDT - ROHM

CODICE CODE	CHUCK	A	B	C	D	E	F	KG	Autoblok	FORKARDT	ROHM	Schunk
SFG160	160-175	75	29.5	20	8	18	32	0.8	HG-F160	F160,F+160	DURO160	
										KTNC160	DURO-NC160	ROTA-S160
										FNC175	DURO-NC175	ROTA -SPLUS160
										KTNCV160-175	DURO-NCE160	
SFG200	200-225	90	35	22	10	20	40	1.2	HG-F210	F200,F+200	DURO200	ROTA-NCWF210
										KTNC200	DURO-NCE200	ROTA-S200
										KTNCV200	DURO-NC200	THW210F
										FNC200	DURO-NC225	ROTA-SPLUS200
SFG250	250-315	110	40	26	12	20	40	2.0	HG-F260	F250,F+250	DURO250	ROTA-NCWF250
										FNC250-315	DURO-NCE250	315,ROTA-S250
										KTNC250-280-315	DURO-NC315	THW250-265F
										KTNCV250-315	DURO-NC250	ROTA-SPLUS250
SFG315	315-400	125	46	32	12	26	54	3.3	HG-F315	F315,F+315		ROTA-S315
										FNC400,UNC400	DURO315	THW315-400F
										KTNC360-400	DURO-NCE400	ROTA-SPLUS315
										KTNCV400	DURO-NC315	
SFG400	400-500	160	55	45	18	30	60	7.3	HG-F400 HG-F500	F400,FNC500-630		
										KTNC500-630	DURO400-500	ROTA-S400
										KTNC500-630	DURO-NC400	ROTA-S500
										F+500L,F500-L	DURO-NC500	ROTA-SPLUS400
										F+400,UNC500	DURO-NCE500	ROTA-SPLUS500
SFG630	630	230	105	65	24	40	82	17.4	HG-F630	F630	DURO630	ROTA-S630
										F+630	DURO-NC630	ROTA-SPLUS630

Base Jaws - Hard - "GBK" (Straight Teeth) For Quick Jaw Change Chuck



Straight Teeth

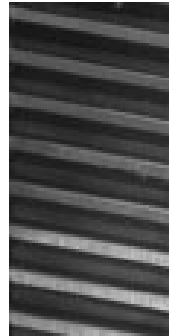


All dimensions are in mm

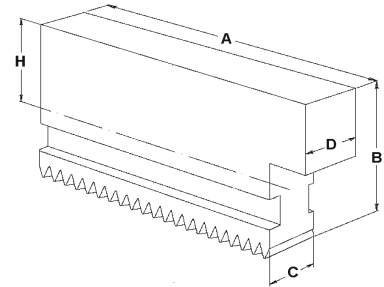
Mandrini / Chucks : SMW/AUTOBLOK - SCHUNK

CODICE CODE	MAND CHUCK	A	B	C	D	H	KG	SMW-Autoblok	Schunk
UVB160	160	65	55	20	20	35	1,7	HG160;HG-N160	ROTA-G160
								KNCS140-160-175;KNCS-A175	ROTA NCW185
								KNCS-N140-170;KNSP160;RMG160	THW165R
UVB160 UVB-H200 UVB-B200	200	77	65	22	22	40	2,6	HG200;HG-N210;KNCS200-225	ROTA-G200
	225	77	85	22	22	60	3,4	KNCS-A200;KNCS-N210-225	ROTANCW225
		77	65	22	40	38	3,9	KNSP200;RMG200	THW210R
UVB250 UVB-H250 UVB-B250	250	97	84	26	26	55	5	HG-250;HG-N260;KNCS250-260	ROTA-G250
	-	97	115	26	26	86	6,8	KNCS-A250;KNCS-N260;RMG250	ROTA NCW265
	265	97	84	26	46	53	7,4		THW250/265R
UVB315 UVB-H315 UVB-B315	315	118	90	32	32	56	6,6	HG315;HG-N315;KNCS315	ROTA-GG315
		118	135	32	32	101	12	KNCS-A315;KNCS-N315	ROTA NCW315
		118	90	32	46	54	10,1	HG400;HG-N400;KNCS400	THW315R
UVB400	400	145	100	32	32	66	11	KNCS-A400;KNCS-N400	ROTA-G400
									ROTA NCW400
UVB500	500	175	124	45	45	77	23	HG500;HG-N500;KNCS500	THW400R
								KNCS-A500;KNCS-N500	ROTA-G500
UVB630	630	230	134	45	45	87	32,7	HG630;HG-N630;KNCS630	THW500R
								KNCS-N630	THW630R

**Monoblock Jaws - Soft - "SMB"
(Angled Teeth) For Quick Jaw
Change Chuck**



Angled Teeth



All dimensions are in mm

Mandrini / Chucks : SMW/AUTOBLOK - SCHUNK - FORKARDT - ROHM

CODICE CODE	CHUCK	A	B	C	H	KG	Autoblok	FORKARDT	ROHM	Schunk
SMB160 SMB-H160	160 160	79 79	45 60	20 20	24 39	0.8	HG-F160	F160,F+160	DURO160	
								KTNC160	DURO-NC160	ROTA-S160
								FNC175	DURO-NC175	ROTA -SPLUS160
								KTNCV160-175	DURO-NCE160	
SMB200 SMB-H200	200	94 94	60 80	22 22	35 55	1.2	HG-F210	F200,F+200	DURO200	ROTA-NCWF210
								KTNC200	DURO-NCE200	ROTA-S200
								KTNCV200	DURO-NC200	THW210F
								FNC200	DURO-NC225	ROTA-SPLUS200
SMB250 SMB-H250	250-315	115 115	70 100	26 26	40 70	2.0	HG-F260	F250,F+250	DURO250	ROTA-NCWF250
								FNC250-315	DURO-NCE250	315,ROTA-S250
								KTNC250-280-315	DURO-NC250	THW250-265F
								KTNCV250-315	DURO-NC315	ROTA-SPLUS250
SMB315 SMB-H315	315-400	140 140	81 135	32 32	46 100	3.3	HG-F315	F315,F+315		
								FNC400,UNC400	DURO315	ROTA-S315
								KTNC360-400	DURO-NCE400	THW315-400F
								KTNCV400	DURO-NC315	ROTA-SPLUS315
SMB400	400-630	176	93	45	53	17.3	HG-F400 HG-F500	F400,FNC500-630		
								KTNC500-630	DURO400-500	ROTA-S400-500
								KTNC500-630	DURO-NCE500	ROTA-SPLUS400
								F+500L,F500-L	DURO-NC400	ROTA-SPLUS500
								F+400,UNC500	DURO-NC500	

SPECIAL JAW (FORM)



Metric & Imperial Serrations

Customer #: _____ Date: _____

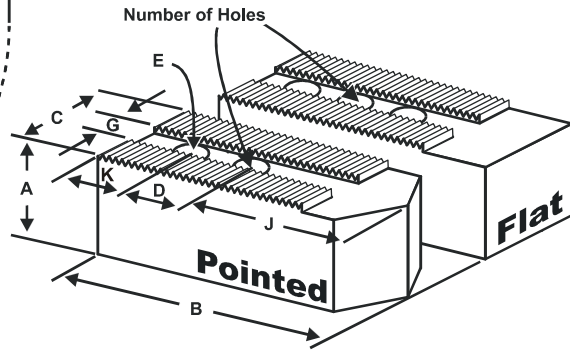
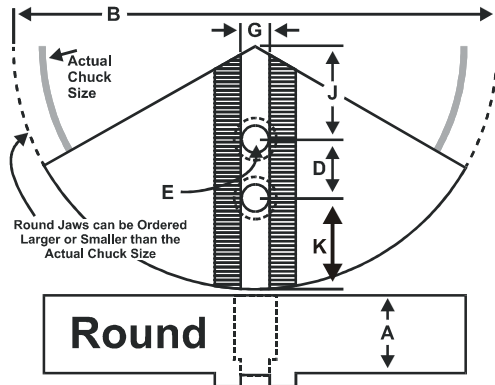
Company Name: _____ Your Name: _____

Address: _____

Phone: _____ FAX: _____

PLEASE NOTE: Special Order jaws are NON-REFUNDABLE. Special Order Soft Jaws have a 3 set (9 piece) minimum. Special Order Round Jaws have no minimum.

Angle of Tooth	Pitch	Style of Jaw you Need	Number of Holes
<input type="checkbox"/> 60° 	<input type="checkbox"/> 1.5 mm (.059")	1.5 mm X 60° Serrations	2 Holes Only
	<input type="checkbox"/> 3.0 mm (.118")	3.0 mm X 60° Serrations	
<input type="checkbox"/> 90° 	<input type="checkbox"/> 1/16 inch	1/16" X 90° Serrations	<input type="checkbox"/> 2 Holes
	<input type="checkbox"/> 3/32 inch	3/32" X 90° Serrations	<input type="checkbox"/> 3 Holes



Style of Jaw: _____ Quantity (in sets of 3) : _____

Actual Chuck Size	Critical Dimensions			Dimensions				Material & Style	
	G Groove Width	E Screw Size	D Hole Space	J Hole to Front	C Width Inch	B Length or Dia.	A Height Inch	Steel Aluminum or Cast Iron	Flat or Pointed or Round

Chuck Make & Model Number _____

Chuck make and model number may help us provide better service to you.

PLEASE FILL OUT IF PLACING AN ORDER:

PO#: _____ Customer Signature: _____ Date: _____

OFFICE USE ONLY	Quoted By: _____
List Price per Set: _____ (Valid for 30 Days)	Job#: _____
Order Will Ship _____ days after receipt of order (i.e. PO#)	Quote#: _____

American Standard Tongue & Groove

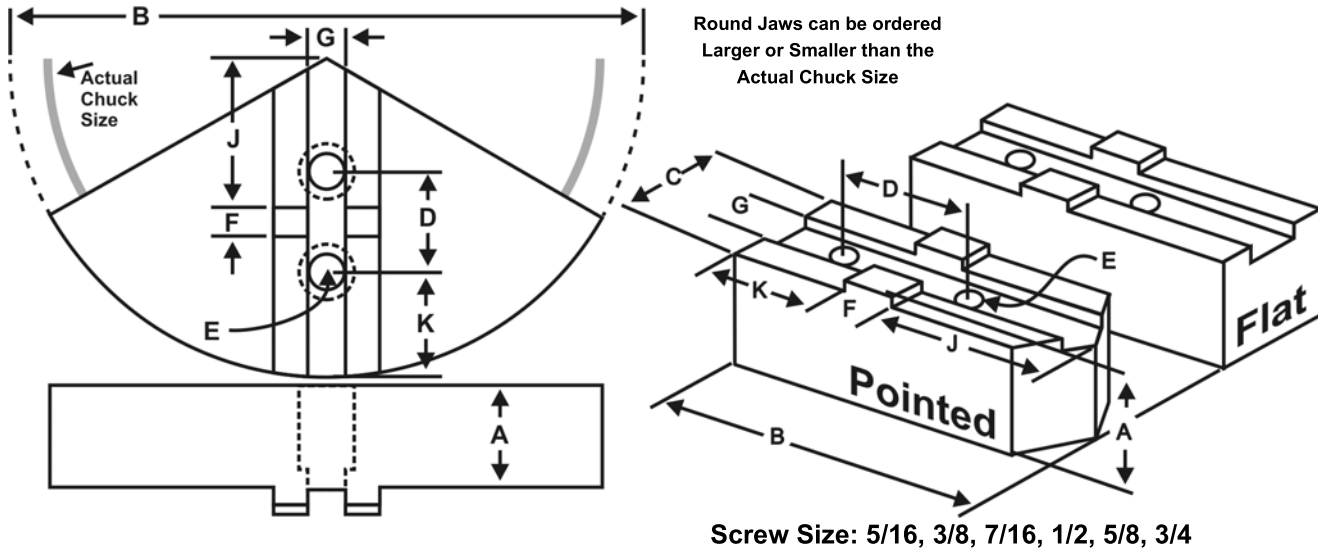
Customer #: _____ Date: _____

Company Name: _____ Your Name: _____

Address: _____

Phone: _____ FAX: _____

PLEASE NOTE: Special Order jaws are NON-REFUNDABLE. Special Order Soft Jaws have a 3 set (9 piece) minimum. Special Order Round Jaws have no minimum.



Style of Jaw: _____ Quantity (in sets of 3) : _____

Actual Chuck Size	Critical Dimensions			Dimensions					Material & Style	
	G Groove Width	E Screw Size	D Hole Space	F Tongue Width	J Tongue Front	C Width Inch	B Length or Dia.	A Height Inch	Steel Aluminum or Cast Iron	Flat or Pointed or Round

Chuck Make & Model Number _____

Chuck make and model number may help us provide better service to you.

PLEASE FILL OUT IF PLACING AN ORDER:

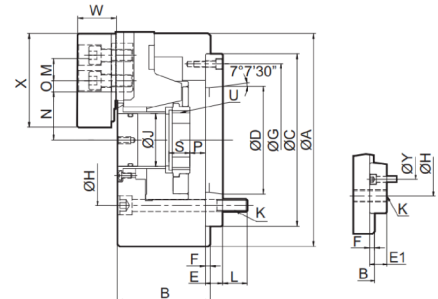
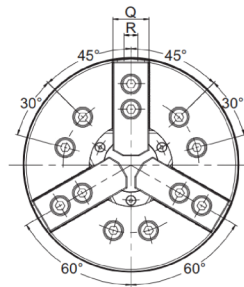
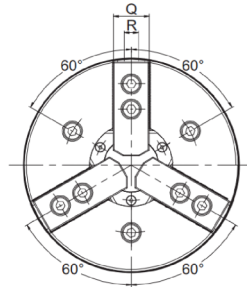
PO#: _____ Customer Signature: _____ Date: _____

OFFICE USE ONLY	Quoted By: _____
List Price per Set: _____ (Valid for 30 Days)	Job#: _____
Order Will Ship _____ days after receipt of order (i.e. PO#)	Quote#: _____

POWER CHUCKS & ACCESSORIES



AFK3 Series - (Kitagawa B200 series)3-Jaw Through Hole Power Chuck



All dimensions are in mm

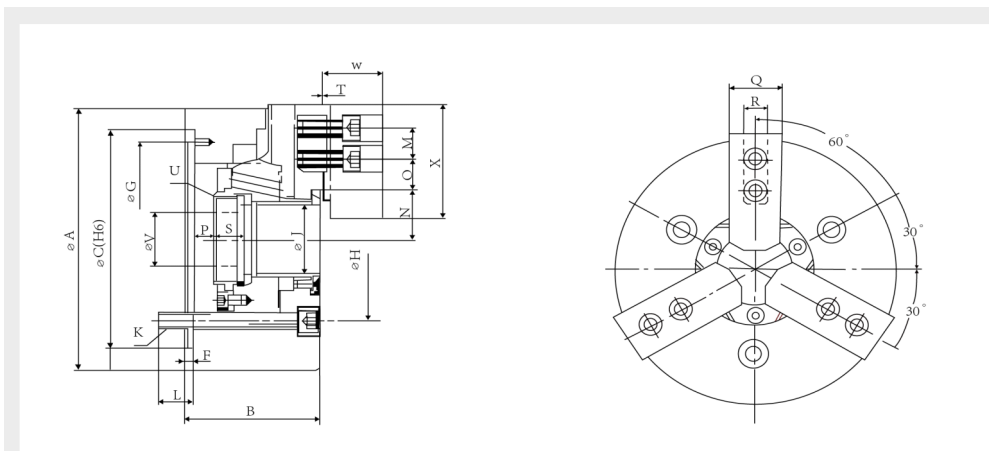
PERFORMANCE PARAMETERS

Item #	Kitagawa Ref#	Spindle	Hole (Diameter) (mm)	Plunger Stroke	Stroke (Diameter) (mm)	x.Speed (r.p.m)	Force (kgf)	Force (kgf)	Pressure (kgf/cm ²)	Net weight (Kg)	Cylinder	Range
AFK3-04		-	26	10	5.4	8000	1400	2900	21	4	AFTK428	Ø 7~Ø 110
AFK3-05		A ₂ 4	33	10	5.4	7000	1730	3570	29	6.1	AFTK536	Ø10~Ø 135
AFK3-06	B-206A5	A ₂ 5	45	12	5.5	6000	2140	5710	28	12.5	AFTK646	Ø15~Ø 169
AFK3-08	B-208A6	A ₂ 6(A ₂ 5)	52	16	7.4	5000	2549	8769	27	23.6	AFTK852	Ø20~Ø 210
AFK3-10	B-210A8	A ₂ 8(A ₂ 6)	75	19	8.8	4200	4280	11010	27	33.7	AFTK1075	Ø25~Ø 254
AFK3-12	B-212A8	A ₂ 8	91	23	10.6	3300	5500	14380	27	55.3	AFTH1291	Ø30~Ø 304
AFK3-15		A ₂ 11(A ₂ 8)	117.5	23	10.6	2500	7240	18250	25	106.8	AFTH1512	Ø35~Ø 381
AFK3-18		A ₂ 11(A ₂ 8)	117.5	23	10.6	2000	7240	18250	25	171	AFTH1512	Ø40~Ø 450
AFK3-21		A ₂ 15	180	23	10.6	1800	9170	23860	24	234	AFTH1512	Ø105~Ø 530
AFK3-24		A ₂ 15	205	26	12	1400	10000	24500	21	284	AFTH1512	Ø135~Ø 610
AFK3-32		A ₂ 15	205	34	18	800	10000	24500	21	560	AFTH1512	Ø205~Ø 800

SIZE PARAMETERS

Item #	A	B	C (h6)	D	E	E1	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.
	110	59	85	-	4	-	4	-	70.6	26	3-M10x1.5P	16	14	20	-	11.3	6.8
AFK3-05	135	60	110	63.513	20	-	4	96	82.6	32.5	3-M10x1.5P	15	14	-	-	19	6
AFK3-06	169	81	140	82.563	15	-	5	116	104.8	45	6-M10x1.5P	16	20	32.35	59.6	24	7
AFK3-08	210	91	170	106.38	17	25	5	150	133.4	52	6-M12x1.75P	18	25	38.7	35	29.75	14.75
AFK3-10	254	100	220	139.72	18	28	5	190	171.4	75	6-M16x2P	19	30	51.5	47.1	34	12
AFK3-12	304	110	220	139.72	18	-	6	190	171.4	91	6-M16x2P	25	30	61.6	56.3	46	12
AFK3-15	381	133	300	196.87	22	33	6	255	235	117.45	6-M20x2.5P	27	43	82.3	77	46	13
AFK3-18	450	133	300	196.87	22	33	6	260	235	117.5	6-M20x2.5P	28	43	82.7	76.7	79.25	13.75
AFK3-21	530	134	380	285.78	32	22	6	330	330	180	6-M24	35	60	112.5	107.2	60.5	24.5
AFK3-24	610	147	520	285.78	32	22	6	330	463	205	6-M24	35	60	131.9	125.9	87.5	24.5
AFK3-32	800	150	520	285.78	32	22	6	330	463	205	6-M24	35	60	162	153	153.5	24.5

AFK3-DK Series - (Kitagawa BB200 BIG BORE series) 3-Jaw LARGE Through Hole Power Chuck



All dimensions are in mm

PERFORMANCE PARAMETERS

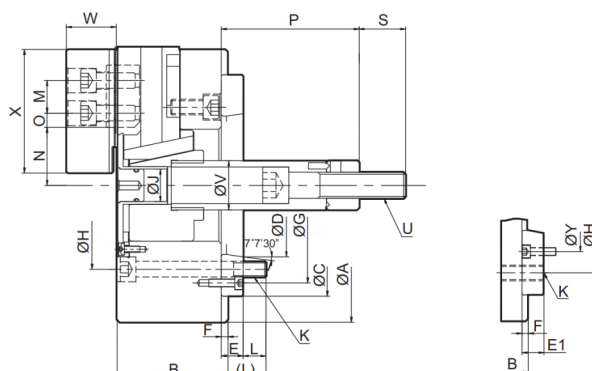
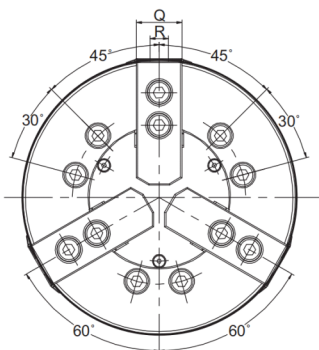
Item #	Kitagawa Ref#	A (mm)	B (mm)	C(H6) (mm)	F (mm)	G (mm)	H (mm)	J (mm)	K (mm)	L (mm)	M (mm)	N max (mm)
AFK3-06DK	BB206	168	140	140	5	116	104.8	52	6-M10×1.5P	15	20	32.0
AFK3-08DK	BB208	210	170	170	5	150	133.4	66	6-M12×1.75P	16	25	38.7
AFK3-10DK	BB210	254	220	220	5	190	171.4	85	6-M16×2P	16	30	51.0

SIZE PARAMETERS

Item #	N min. (mm)	O max. (mm)	O min. (mm)	P max. (mm)	P min. (mm)	Q (mm)	R (mm)	S (mm)	T (mm)	U (mm)	V (mm)	w (mm)	X (mm)
AFK3-06DK	29.25	24	7	11	-1	31	12	19.0	2	M60×2P	20	37	73
AFK3-08DK	35.00	30	10	14.5	-1.6	35	14	20.0	2	M75×2P	30	39	95
AFK3-10DK	46.60	34	12	8.5	-10.5	40	16	25.0	2	M95×2P	40	43	110

Item #	Hole	Plunger Stroke (mm)	Jaw	Max Speed	Max.Pull	ax.Grippi	Matching			Max.Pres	Weigt(kg)
								Max	Min		
AFK3-06DK	52.0	12	5.5	6000	2140(21)	5700(56)	AFTK646	168	13	28(2.7)	12.5
AFK3-08DK	66.0	16	7.4	4800	3350(33)	8350(82)	AFTK852	210	16	26(2.5)	22.0
AFK3-10DK	85.0	19	8.8	4200	4280(42)	11000(108)	AFTK1075	254	25	27(2.6)	33.6

AFS3 Series - (Kitagawa N series)3-Jaw Solid Closed Center Power Chuck



All dimensions are in mm

PERFORMANCE PARAMETERS

Item #	Kitagawa Ref#	Spindle	Plunger Stroke mm	Stroke (Diameter)(mm)	x.Speed (r.p.m)	Max.Pull Force (kgf)	x. Gripping Force(kgf)	x.Hydr.P ressure kgf/cm ² £©	Net weight (Kg)	Matching Cylinder
AFS3-04		-	15	6.9	6000	830	2300	19	4.1	AFSH80
AFS3-05		A 24	15	5.4	5500	800	2450	22	6	AFSH80
AFS3-06	N-06	A 25	20	5.4	5000	1730	5200	27	11.4	AFSH100
AFS3-08	N-08	A 26(A 25)	21	7.4	4600	2440	7440	25	21.9	AFSH125
AFS3-10	N-10	A 28(A 26)	25	8.8	4000	2850	10810	29	33.4	AFSH150
AFS3-12	N-12	A 28(A 26)	30	10.5	3200	4080	15500	29	58.5	AFSH200
AFS3-15		A 211	35	16	2800	8260	25290	32.5	100.6	AFSH200
AFS3-18		A 211(A 28)	35	16	2500	8260	25290	32.5	134.3	AFSH200
AFS3-21		A 211	35	16	1900	8360	27800	28	194	AFSH200
AFS3-24		A 211	35	16	1750	8360	27800	28	246	AFSH200
AFS3-32		A 215	35	16	1750	8360	27800	28	350	AFSH250

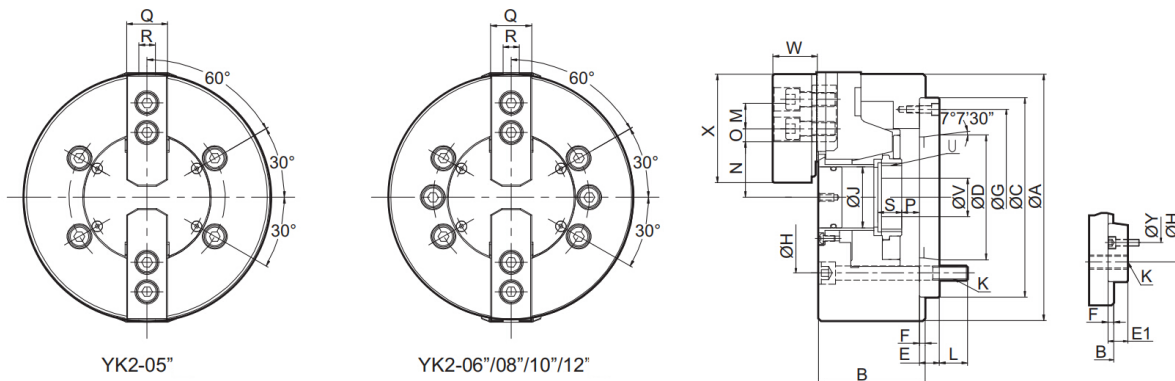
SIZE PARAMETERS

Item #	A	B	C ij (h6)	D	E	E1	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P main.	Q	R	S	U	V	W	X	Y
AFS3-04	110	52	60	-	-	-	6	-	80	26	3-M8x1.25P	12	14	26	23	11.3	8.3	18	3	25	10	25	M10x1.5	26	25	52	-
AFS3-05	135	55	80	63.513	-	-	7	-	100	-	3-M8x1.25P	14	14	30.4	27.2	17	7	9	-6	25	10	35	M12x1.75P	28	31	62	-
AFS3-06	165	74	140	82.563	15	-	5	116	104.8	21	6-M10x1.5P	14	20	37.8	33.25	18	7.5	101.5	81.5	31	12	36	M16x2p	34	39	73	-
AFS3-08	210	85	170	106.38	17	26	5	150	133.4	25	6-M12x1.75P	18	25	46.3	41.9	22.5	9	127	106	35	14	36	M20x2.5P	38	42	95	104.8
AFS3-10	254	89	220	139.72	18	28	5	190	171.4	34	6-M16x2P	25	30	51.4	47	37.5	10.5	158	133	40	16	36	M20x2.5P	45	46	110	133.4
AFS3-12	304	106	220	139.72	18	-	6	190	171.4	34	6-M16x2P	25	30	60.7	55.45	47	11	163	133	50	18	36	M20x2.5P	50	54	129	-
AFS3-15	381	114	300	196.87	22	-	6	260	235	-	6-M20x2.5P	32	43	77.5	69.5	50.25	23.25	104	69	62	25.5	55	M30x3.5P	60	63	165	-
AFS3-18	450	114	300	196.87	22	-	6	260	235	-	6-M20x2.5P	32	43	108	110	49.5	25.5	92	57	62	25.5	55	M30x3.5P	60	63	165	-
AFS3-21	530	131	-	196.87	32	-	6	-	330	60	6-M24	31	60	86	78	93.5	27.5	97	62	65	25	55	M30x3.5P	60	70	180	-
AFS3-24	610	131	-	196.87	32	-	6	-	330	60	6-M24	31	60	125	117	93.5	27.5	97	62	65	25	55	M30x3.5P	60	70	180	-
AFS3-32	800	135	-	285.78	32	-	6	-	330	70	6-M24	39	60	99.4	89.4	212.5	32.5	35	-3	65	25	73	M36x4.0P	102	82	185	-

AFK2 Series Chuck
2 Jaw Through hole power chuck



All dimensions are in mm



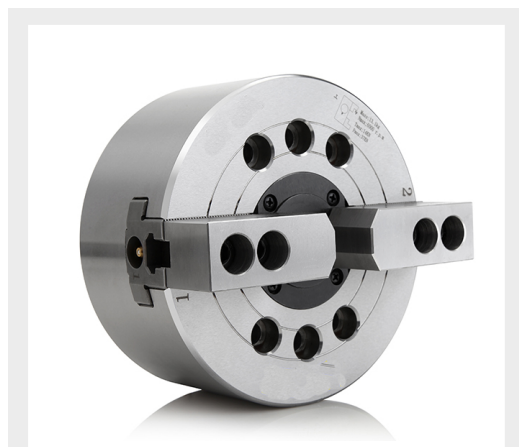
PERFORMANCE PARAMETERS

MODE L/SPEC.	Spindle	ru-Hole (Diameter) (mm)	Stroke (mm)	Jaw Stroke (Diameter) (mm)	ax.Speed (r.p.m)	ax.Pull Force (kgf)	x.Gripping Force (kgf)	Pressure (kgf/cm ²)	Net weight (kg)	Matching Cylinder	Ripping Range
AFK2-04''	/	26	10	5.4	8000	940	1930	19	3.8	AFTK428	Ö7~Ö110
AFK2-05''	A ₂ 4	33	10	5.4	7000	1120	2340	19	6.5	AFTK536	Ö10~Ö135
AFK2-06''	A ₂ 5	45	12	5.5	6000	1420	3770	18.5	13.1	AFTK646	Ö15~Ö169
AFK2-08''	A ₂ 6(A ₂ 5)	52	16	7.4	4800	2240	5710	17	23	AFTK852	Ö20~Ö210
AFK2-10''	A ₂ 8(A ₂ 6)	75	19	8.8	4200	2850	7440	18	35.9	AFTK1075	Ö25~Ö254
AFK2-12''	A ₂ 8	91	23	10.6	3300	3670	9690	18	56.2	AFTK1291	Ö30~Ö304
AFK2-15''	A ₂ 11(A ₂ 8)	117.5	23	10.6	2500	4790	12130	17	103.2	AFTK1512	Ö50~Ö381

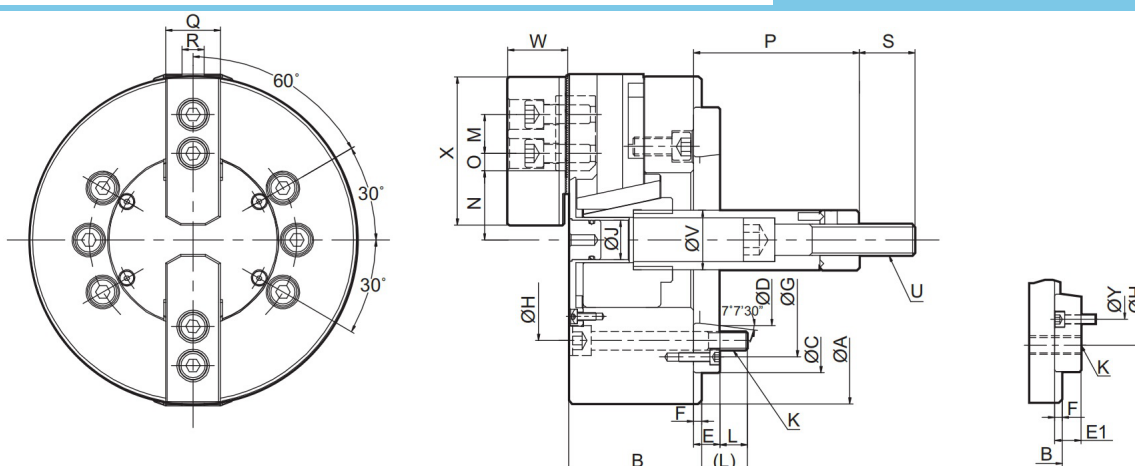
SIZE PARAMETERS

MODE L/SPEC.	A	B	C (h6)	D	E	E1	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P1 min.	Q	R	S	U	W	X	Y
AFK2-04''	110	59	85	/	/	/	4	/	70.6	26	4-M10×1.5P	16	14	/	/	11	6.8	3.5	-6.5	25	10	17.5	M32×1.5P	24	52	/
AFK2-05''	135	60	110	63.513	20	/	4	96	82.6	33	4-M10×1.5P	15	14	26.5	23.8	19	6	1	-9	25	10	20	M40×1.5P	31.5	62	/
AFK2-06''	169	81	140	82.563	15	/	5	116	104.4	45	6-M10×1.5P	16	20	32	29.25	24	7	11	-1	31	12	19	M55×2P	37	73	/
AFK2-08''	210	91	170	106.375	17	23	5	150	133.4	52	6-M12×1.75P	18	25	38.7	35	30	10	14.5	-1.5	35	14	20.5	M60×2P	39	95	104.8
AFK2-10''	254	100	220	139.719	18	28	5	190	171.4	75	6-M16×2P	19	30	51	46.6	34	12	8.5	-10.5	40	16	25	M85×2P	43	110	133.4
AFK2-12''	304	110	220	139.719	18	/	6	190	171.4	91	6-M16×2P	25	30	61.3	56	46	12	8	-15	50	21	28	M100×2P	51	129	/
AFK2-15''	380	133	300	196.869	22	33	6	260	235	117.5	6-M20×2.5P	28	43	82.7	77.4	46	13	8	-15	62	21	42.5	M130×2P	66	165	/

AFS2 Series Chuck
2 Jaw Solid closed Center power chuck



All dimensions are in mm



PERFORMANCE PARAMETERS

MODE L/SPEC.	Nose Of Spindle	r Stroke (mm)	Jaw Stroke (Diameter)(mm)	ax.Speed (r.p.m)	x.Pull Force (kgf)	Gripping Force (kgf)	Max.Hydr. Pressure (kgf/cm ²)	Net weight (kg)	Matching Cylinder	Ripping Range
AFS2-04"	/	15	6.9	6000	540	1500	19	4.1	AFSH65	Ö5~Ö110
AFS2-05"	A ₂ 4	15	6.4	5500	800	2450	22	5.4	AFSH80	Ö8~Ö135
AFS2-06"	A ₂ 5	20	8.5	5000	1220	3460	17.3	11.1	AFSH100	Ö18~Ö165
AFS2-08"	A ₂ 6(A ₂ 5)	21	8.8	4000	1630	4990	16.3	21.3	AFSH125	Ö26~Ö210
AFS2-10"	A ₂ 8(A ₂ 6)	25	8.8	3500	1930	7140	19	32.6	AFSH150	Ö26~Ö254
AFS2-12"	A ₂ 8	30	10.5	3000	2750	10300	18.4	57	AFSH200	Ö26~Ö304

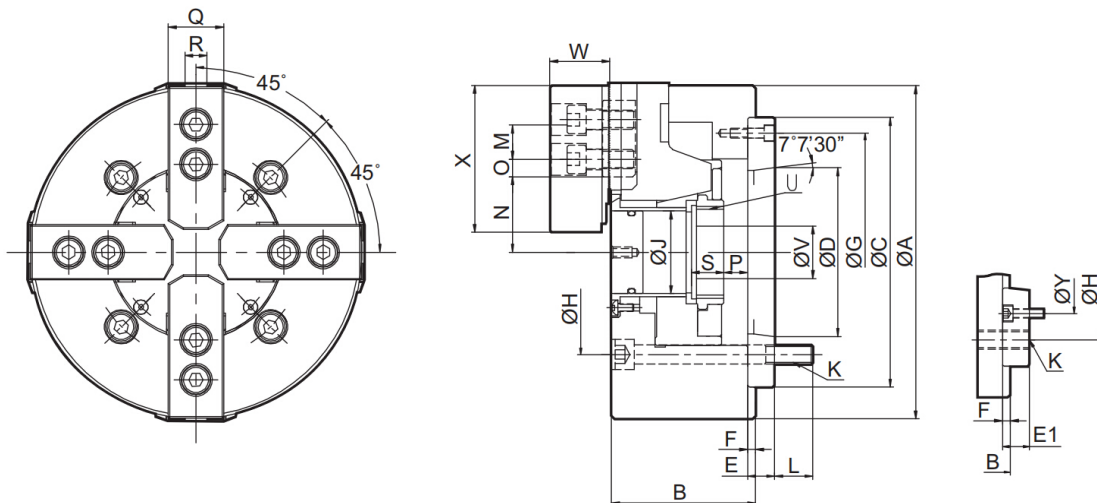
SIZE PARAMETERS

MODEL/ SPEC.	A	B	C (h6)	D	E	E1	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	U	V	W	X	Y
AFYS2-04"	110	52	60	/	/	/	6	/	80	/	/	12	14	/	/	11.3	8.3	18	3	25	10	25	M10X1.5P	26	25	52	/
AFYS2-05"	135	55	80	63.513	/	/	7	/	100	/	3-M10x1.5P	14	14	30.4	27.2	17	7	9	-6	25	10	35	M12X1.75P	28	31	62	/
AFYS2-06"	165	74	140	82.563	15	/	5	116	104.8	21	6-M10×1.5P	14	20	37.8	33.25	18	7.5	107.5	87.5	31	12	36	M16×2P	34	36	73	/
AFYS2-08"	210	85	170	106.375	17	25	5	150	133.4	25	6-M12×1.75P	20	25	46.3	41.9	22.5	9	127	106	35	14	36	M20×2.5P	38	42	95	104.8
AFYS2-10"	254	89	220	139.719	18	28	5	190	171.4	34	6-M16×2P	20	30	51.4	47	37.5	10.5	158	133	40	16	36	M20×2.5P	45	44	110	133.4
AFYS2-12"	304	106	220	139.719	18	/	5	190	171.4	34	6-M16×2P	20	30	60.7	55.45	47	11	163	133	50	18	36	M20×2.5P	50	54	130	/

AFK4 Series Chuck 4 Jaw Through hole power chuck



All dimensions are in mm



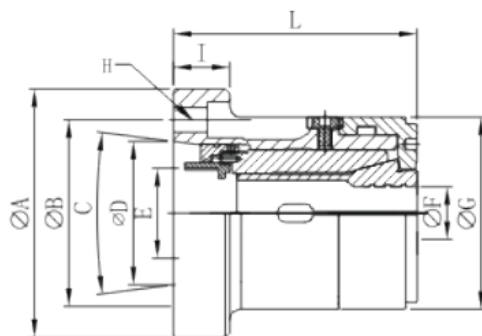
PERFORMANCE PARAMETERS

MOD EL/SPEC.	se Of Spindle	Hole (Diameter) (mm)	ger Stroke(mm)	Jaw Stroke (Diameter) (mm)	ax.Speed (r.p.m)	ax.Pull Force kgf(KN)	Gripping Force (kgf)	Max.Hydr. Pressure (kgf/cm ²)	Net weight (kg)	Matching Cylinder	ping Range
AFK4-06"	A ₂ 5	45	12	5.5	4500	1630	4180	21	14.2	AFTK646	Ö15~Ö169
AFK4-08"	A ₂ 6(A ₂ 5)	52	16	7.4	3600	2440	6010	19	24.5	AFTK852	Ö20~Ö210
AFK4-10"	A ₂ 8(A ₂ 6)	75	19	8.8	3200	3160	8050	20	38.1	AFTK1075	Ö26~Ö254
AFK4-12"	A ₂ 8	91	23	10.6	2500	4080	10400	20	60.5	AFTK1291	Ö30~Ö304
AFK4-15"	A ₂ 11(A ₂ 8)	117.5	23	10.6	1800	5400	12600	19	111.5	AFTK1512	Ö50~Ö381

SIZE PARAMETERS

MODEL/SPEC.	A	B	C (h6)	D	E	E1	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	U	V	W	X	Y
AFYS2-04"	110	52	60	/	/	/	6	/	80	/	/	12	14	/	/	11.3	8.3	18	3	25	10	25	M10X1.5P	26	25	52	/
AFYS2-05"	135	55	80	63.513	/	/	7	/	100	/	3-M10x1.5P	14	14	30.4	27.2	17	7	9	-6	25	10	35	M12X1.75P	28	31	62	/
AFYS2-06"	165	74	140	82.563	15	/	5	116	104.8	21	6-M10x1.5P	14	20	37.8	33.25	18	7.5	107.5	87.5	31	12	36	M16x2P	34	36	73	/
AFYS2-08"	210	85	170	106.375	17	25	5	150	133.4	25	6-M12x1.75P	20	25	46.3	41.9	22.5	9	127	106	35	14	36	M20x2.5P	38	42	95	104.8
AFYS2-10"	254	89	220	139.719	18	28	5	190	171.4	34	6-M16x2P	20	30	51.4	47	37.5	10.5	158	133	40	16	36	M20x2.5P	45	44	110	133.4
AFYS2-12"	304	106	220	139.719	18	/	5	190	171.4	34	6-M16x2P	20	30	60.7	55.45	47	11	163	133	50	18	36	M20x2.5P	50	54	130	/

JP Collet chucks

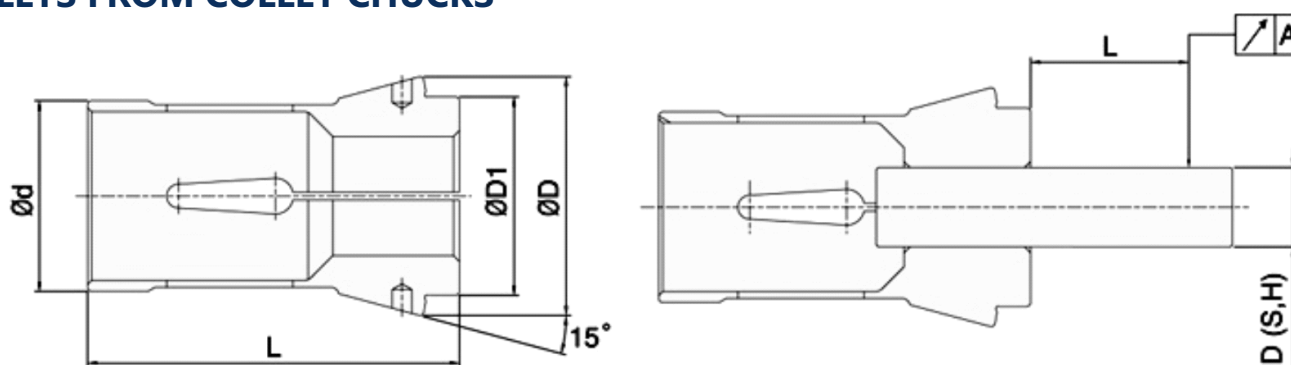


All dimensions are in mm

PERFORMANCE PARAMETERS

Model/Spec.	JP30		JP42		JP60		JP80
	A4	Straight type	A5	Straight type	A6	Straight type	A8
Installation form	A4	Straight type	A5	Straight type	A6	Straight type	A8
A	110	120	155	155	170	185	220
B	82.6	82.6	104.8	104.8	133.4	133.4	171.4
C	14.25	0	14.25	0	14.25	0	14.25
D	63.513	110	82.563	140	106.375	170	139.7
E	M40*2	M40*2	M55*1.5	M55*1.5	M75*2	M75*2	M114.2
F(Max)	30	30	42	42	60	60	80
G	85	85	100	100	130	130	176.4
H	3-M10	3-M10	4-M10	3-M10	4-M12	4-M12	4-M16
I	25	23	28	23	27	27	35
L	108	100	127	120.8	154	154	156
Matching collet	163E	163E	173E	173E	185E	185E	193E
Maximum speed	7000	7000	6000	6000	5000	5000	4000

COLLETS FROM COLLET CHUCKS

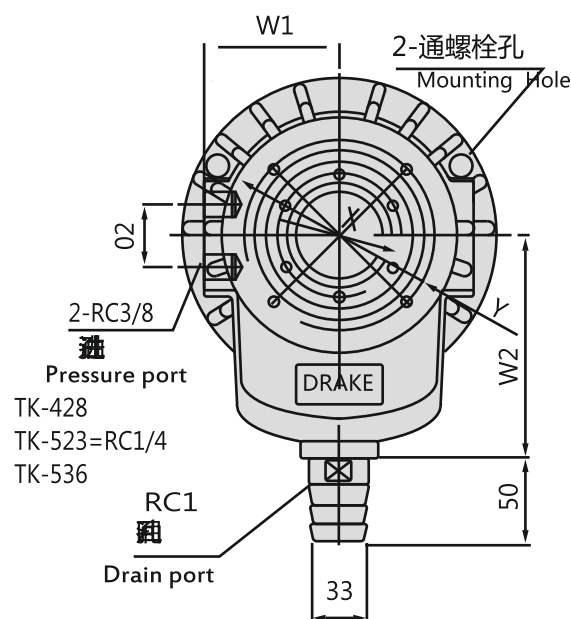
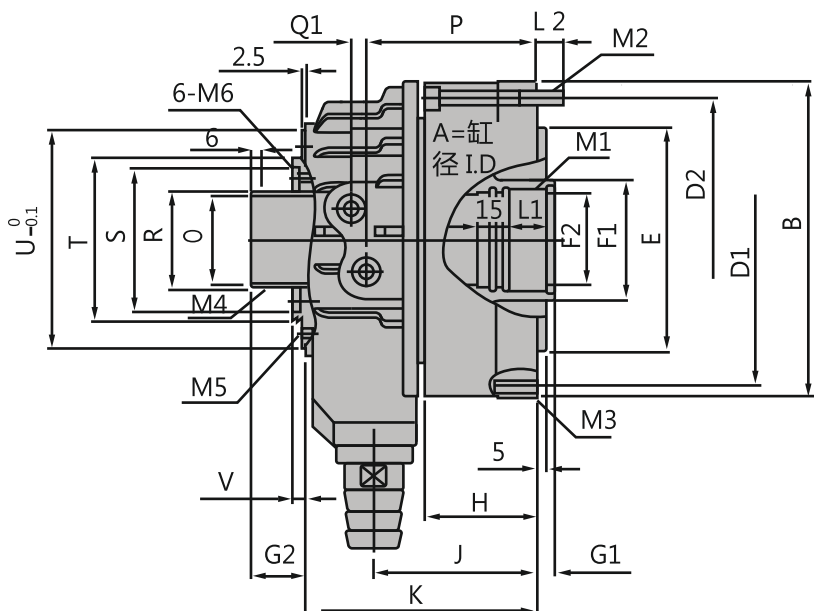


Model	Clamping range			d	D	D1	L	Chuck
	Round	Hex	Square					
163E	3-30	4-26	4-20	35	48	38	80	JP30
173E	3-42	6-36	6-29	48	60	50	94	JP42
185E	5-60	8-52	7-42	66	84	73	110	JP60
193E	20-80	18-69	15-56	90	107	92	130	JP80

The above product data is for reference only, can be changed according to the needs of the workpiece, and can be customized according to the workpiece and processing requirements. Product continuous improvement, please contact us if there are any changes to this catalogue parameter. Subject to final confirmation parameters!

AFTK Rotary Cylinder

All dimensions are in mm



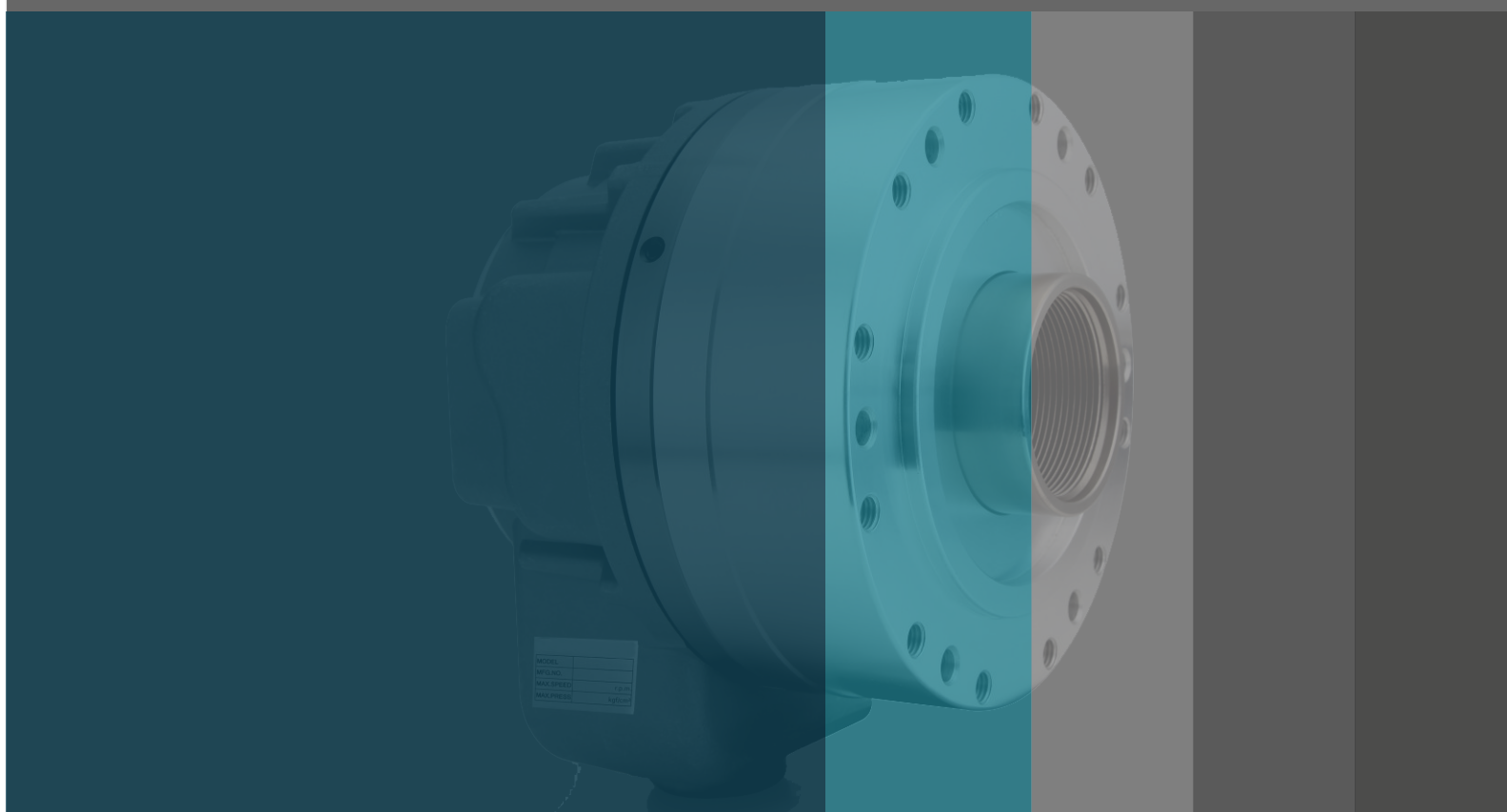
PERFORMANCE PARAMETERS

Model/Spec	Piston area?cm ² ?		Highest turnover number min-1(rpm)	Max.working pressure Mpa(kgf/cm ²)	£" kg.m ²)	Total volume of oil drainage	Weight (kg)
	Ñ ¹² à	À ² à					
	Press side	Pull side					
AFTK428	53.2	50.5	8000	3.5(35)	0.03	2.0	5
AFTK536	70.7	62.8	9200	4.5(45)	0.05	2.5	7.7
AFTK646	99.1	88.0	8000	4.5(45)	0.06	3.0	8.5
AFTK646 (s)	99.1	88.0	8000	4.5(45)	0.06	3.0	8.5
AFTK852	135.3	125.0	6500	4.5(45)	0.11	3.9	11.8
AFTK1075	179.5	163.5	5500	4.5(45)	0.24	4.2	21.5
AFTK1075 (s)	179.5	163.5	5500	4.5(45)	0.24	4.2	21.5
AFTK1291	250.6	234.1	3500	4.5(45)	0.15	4.2	30
AFTK1512	356.5	335.3	3000	4.0(40)	0.38	7	53.6

SIZE PARAMETERS

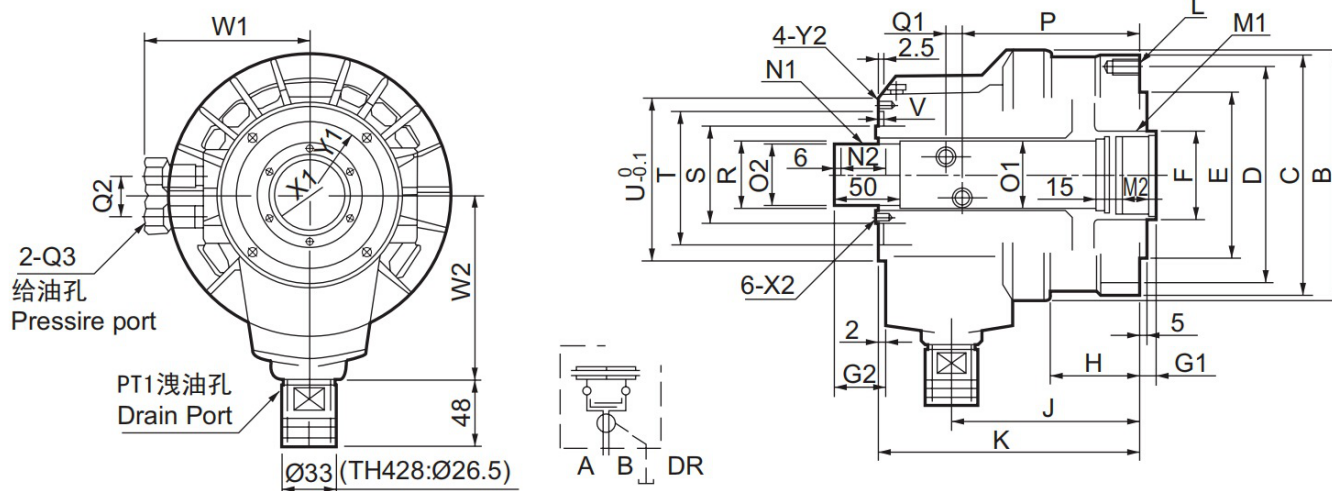
Model/Spec	A	B	C	D	E (h7)	F	G1 max	G1 min	G2 max	G2 min	H	J	K	L1	L2	M1	M2	M3
AFTK428	90	126	100	108	80	40	10	0	23	13	53	88	139	M 8*60	14	M33*1.5	25	15
AFTK536	105	141	115	125	100	48	15	0	38	23	75	110	148	M8*70	14	M42*1.5	25	15
AFTK646	125	165	140	140	120	65	15	0	38	23	75	110	148	M 8*75	15	M55*2	25	15
AFTK646(s)	125	165	130	147	100	65	15	0	38	23	75	110	148	M 8*75	15	M55*2	25	15
AFTK852	150	185	170	165	130	70	20	0	43	23	77	107	150	M 8*75	12	M60*2	30	15
AFTK1075	175	215	195	190	160	95	25	0	50	25	88	129	180	M10*90	20	M85*2	35	15
AFTK1075(s)	175	215	190	195	160	95	25	0	50	25	88	129	180	M10*90	20	M85*2	35	15
AFTK1291	205	248	215	225	180	110	30	0	50	20	95	144	196	M12*100	20	M100*2	35	-
AFTK1512	250	305	275	280	230	140	30	0	55	25	113	156	245	M12*120	16	M130*2	35	16

Model/Spec	N1	N2	O	O1 H8	O2 H8	P	Q1	Q2	R g7	T	U	V	W1	W2	X1	X2	Y1	Y2
AFTK428	M34.1.5	25	PT1/4	30	28	89	7	28	32	65	86	2	63	80	43	M6*8	76	M5*6
AFTK536	M44*1.5	28	PT1/4	38	36	107	9	32	42	75	98	4.5	61	110	54	M6*8	83	M5*6
AFTK646	M52*1.5	31	PT3/8	50	46	115	9	32	50	91	116	5	62	119	63	M6*8	98	M5*6
AFTK646(s)	M52*1.5	31	PT3/8	50	46	115	9	32	50	91	116	5	62	119	63	M6*8	98	M5*6
AFTK852	M58*1.5	34	PT3/8	55	52	109	9	36	56	100	127	6	77	130	72	M6*8	110	M6*8
AFTK1075	M 84*2	36	PT3/8	80	75	128	12	36	81	124	164	7	98	163	97	M6*8	155	M6*8
AFTK1075(s)	M 84*2	36	PT3/8	80	75	128	12	36	81	124	164	7	98	163	97	M6*8	155	M6*8
AFTK1291	M99*2	34	PT3/8	-	91	142	10	52	95	142	183	9	110	165	110	M6*8	170	M6*8
AFTK1512	M129*2	50	PT3/8	126	120	172	17	50	126	204	218	7	134	210	138	M6*8	210	M6*10



AFTH Rotary Cylinder

All dimensions are in mm



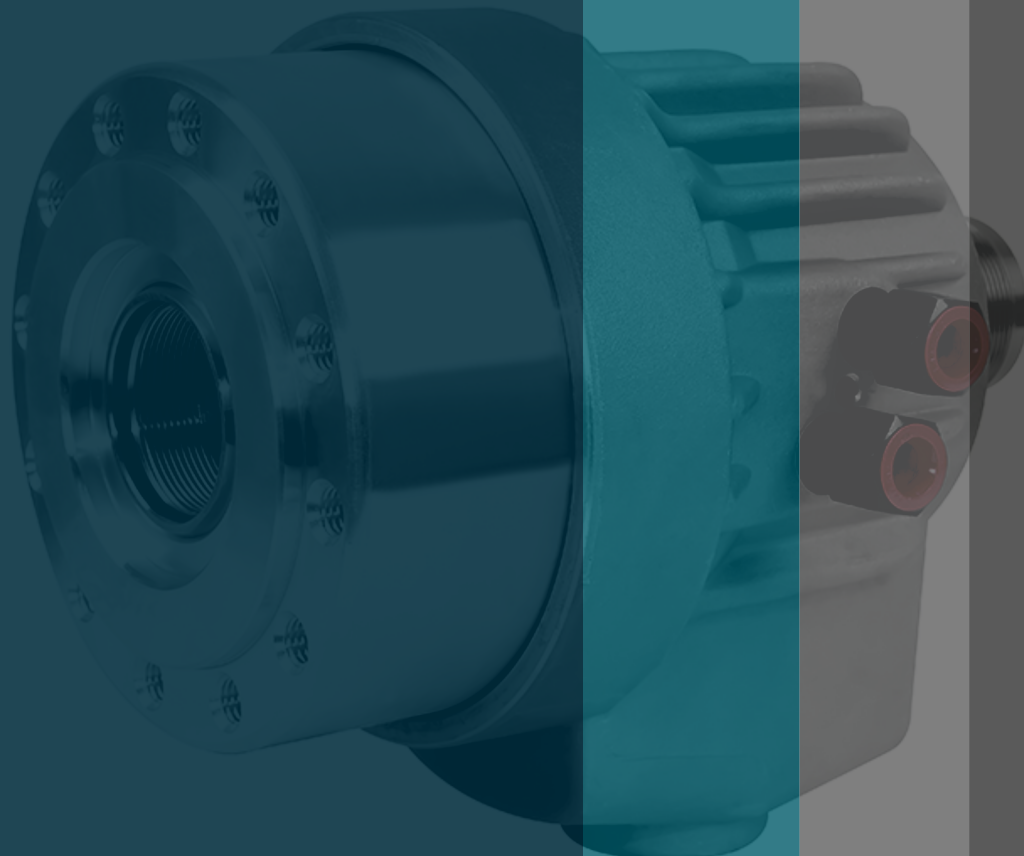
PERFORMANCE PARAMETERS

Model/Spec.	Piston area (cm ²)		Stroke (mm)	Highest turnover number min-1(rpm)	Maximum working pressure MPa(kgf/cm ² £©)	GD2 (kg.m ²)	Total volume of oil drainage	Weight (kg)
	Ñ²à Press side	À²à Pull side						
AFTH428	53.2	50.5	10	8000	4.0(40)	0.02	3	5.8
AFTH536	69.8	67.5	15	8000	4.0(40)	0.05	3	8.5
AFTH646	97.3	87.9	15	7000	4.0(40)	0.09	3	13.5
AFTH852	146.8	136.6	20	6200	4.0(40)	0.2	3.9	16.4
AFTH1075	196.2	182	25	4700	4.0(40)	0.4	4.2	25.8
AFTH1291	250.6	234.1	30	3800	4.0(40)	0.61	4.5	33
AFTH1512	345.4	334.6	30	2800	4.0(40)	1.5	7	50

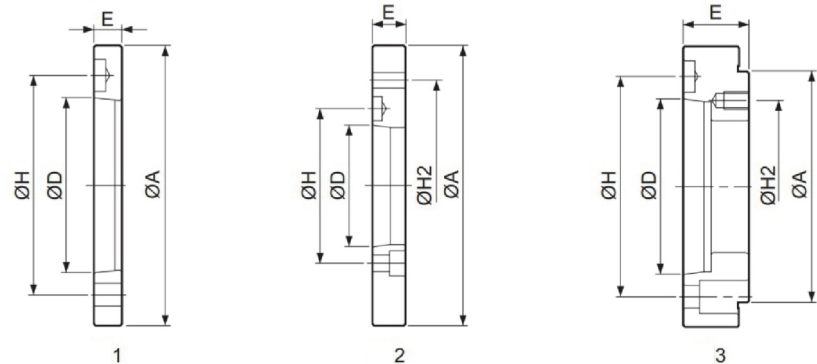
SIZE PARAMETERS

Model/ Spec.	A I.D	B	C	D	E (h7)	F	G1 max.	G1 min.	G2 max.	G2 min.	H	J	K	L	M1	M2	N1	N2
AFTH428	90	130	120	100	80	40	10	/	35	/	45	127.5	155	6-M8×15	M33×1.5	25	M34×1.5	26
AFTH536	105	150	135	115	100	50	15	/	40	/	47.5	125.5	170.5	6-M10×20	M42×1.5	25	M44×1.5	28
AFTH646	125	169	156	130	100	65	15	/	40	/	60	135.5	193.5	12-M10×20	M55×2	30	M52×1.5	32
AFTH852	150	198	188	170	130	70	20	0	45	25	66	145	198	12-M10×20	M60×2	30	M58×1.5	34
AFTH1075	175	225	213	190	160	95	25	/	50	/	62	166.5	231	12-M10×22	M85×2	35	M84×2	40
AFTH1291	205	255	240	215	180	110	30	/	55	/	64.5	180.5	250	12-M12×24	M100×2	35	M99×2	46
AFTH1512	250	315	305	275	230	140	30	/	55	/	68	193	273	12-M16×32	M130×2	45	M134×2	46

Model/ Spec.	01 H8	02 H8	P	Q1	Q2	Q3	R (g7)	S	T	U	V	W1	W2	X1	X2
AFTH428	30	28	101.5	11	24	PT1/4	32	45	65	88	4	72	105	/	/
AFTH536	38	36	119	11	24	PT1/4	42	55	80	98	4	80	110	/	/
AFTH646	50	46	127.5	12	30	PT3/8	50	70	95	116	4	98	125	62	M4×8
AFTH852	55	52	135.5	12	32	PT3/8	56	75	100	128	4	100	130	67	M4×8
AFTH1075	80	75	153.5	17	36	PT3/8	81	100	125	158	5	115	160	92	M4×8
AFTH1291	95	91	165	21	34	PT1/2	96	120	142	180	5	136	185	110	M4×8
AFTH1512	125	120	176.5	23	40	PT1/2	130	160	204	218	6	160	210	171	M6×10



Flange



SIZE PARAMETERS

Model/ Spec.	Nose of Spindle D	A	H	H2	E	Reference Drawing
-05A24	A24	110	82.6	/	20	1
-06A25	A25	140	104.8	/	15	1
-08A26	A26	170	133.4	/	17	1
-10A28	A28	220	171.4	/	18	1
-12A28	A28	220	171.4	/	18	1
-15A211	A211	300	235	/	22	1
-18A211	A211	300	235	/	22	1
-21A215	A215	380	300.2	/	27	1
-06A24	A24	140	82.6	104.8	20	2
-08A24	A25	170	104.8	133.4	23	2
-10A26	A26	220	133.4	171.4	28	2
-12A26	A26	220	133.4	171.4	28	2
-15A28	A28	300	171.4	235	33	2
-18A28	A28	300	171.4	235	33	2
-21A211	A211	380	235	330.2	41	2
-05A25	A25	110	104.8	82.6	45	3
-06A26	A26	140	133.4	104.8	40	3
-08A28	A28	170	171.4	133.4	45	3
-12A211	A211	220	235	171.4	54	3

AFJS Coolant collector

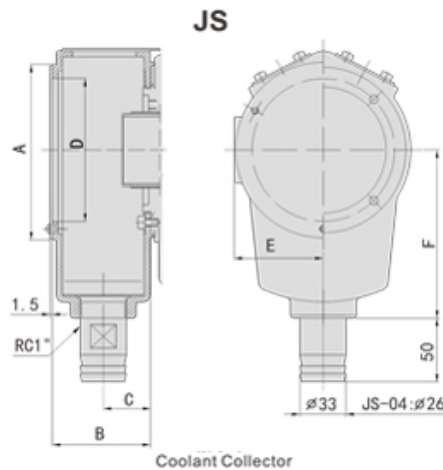
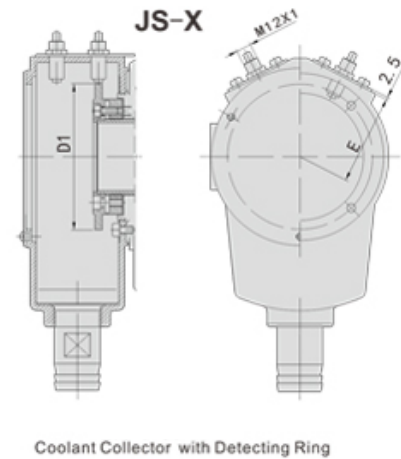
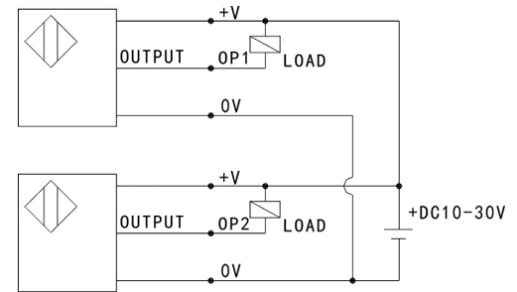


Fig 1



Coolant Collector with Detecting Ring

Fig 2

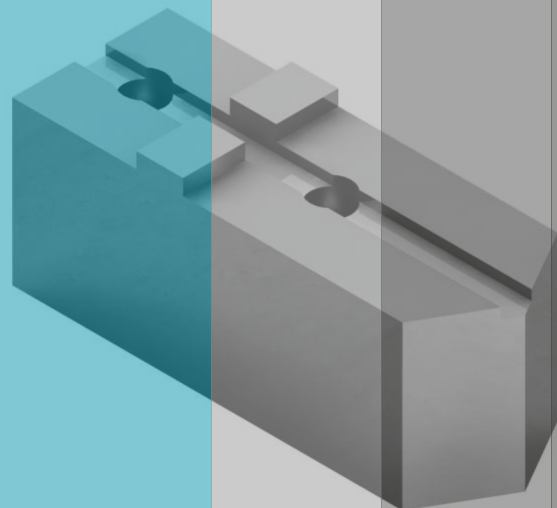
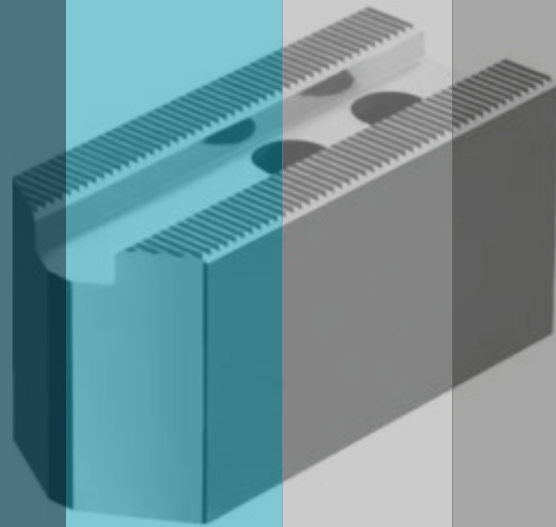
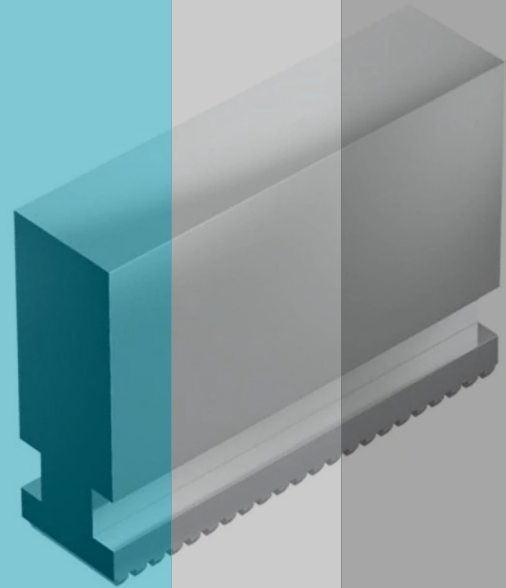
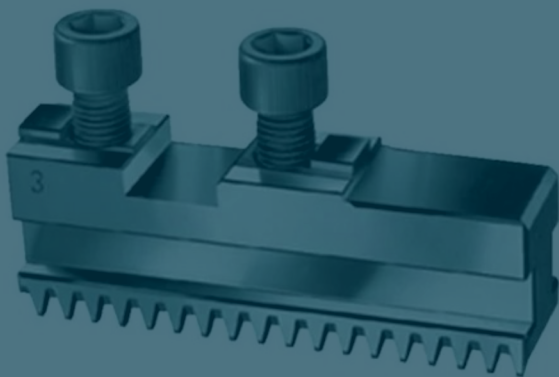
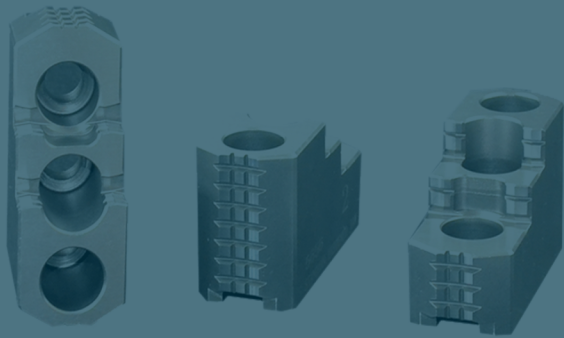
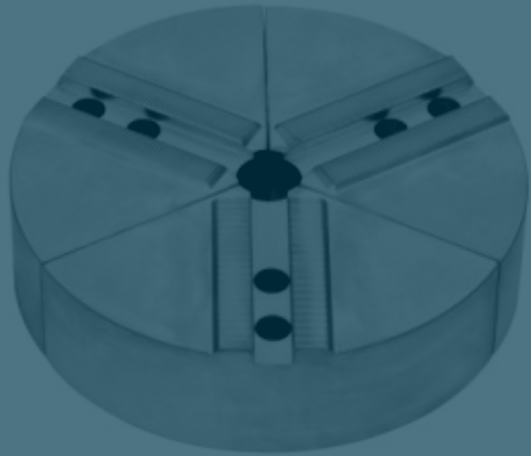


Model	E2E-X2E-Z
Spec	(Omron)
Power supply	DC10-30V
Switching cap	200mA
Output tpye	(NPN)

Mark	Terminal Connections
Op2	BLACK
+V	BROWN
0V	BLUE
Op1	BLACK

Dimensions(mm)

Spec	A	B	C	D	D1	E	F	Matching cyl.	Weight kg	Fig
AFJS-04	98	60	30	79	78	50	100	AFTK-428	0.88	Fig1
AFJS-04x									1.06	Fig2
AFJS-05	120	70	35	100	88	61	115	AFTK-532, AFTK-536 AFTK-642, AFTK-646	1.15	Fig1
AFJS-05X										
AFJS-06					138				76	38
AFJS-06X	1.70	Fig2								
AFJS-08	185	85	42	158	128	94	160	AFTK-1068, AFTK-1075, AFTK-1287, AFTK-1291	1.80	Fig1
AFJS-08X										
AFJS-10	235	90	45	206	196	120	210	AFTK-1511, AFTK-1512	2.90	Fig1
AFJS-10X									4.10	Fig2



THANK YOU



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