



**CHUCK**

**High Precision, Ultra-large Through-hole, High-speed Power Chuck**

**BR series**

Pat. No. 6411619  
Pat. No. 6345321

## The next generation standard chuck

Gripping accuracy of 0.01mm T.I.R. or less immediately after jaw forming.\*

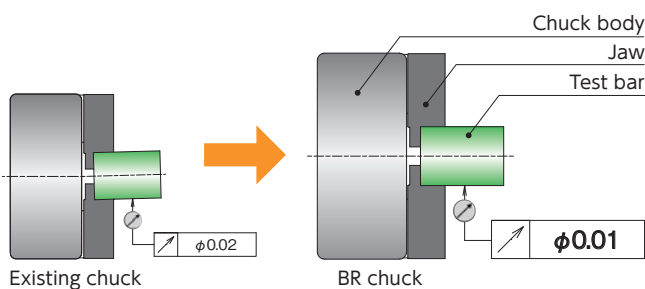
\*CE correspondence

Received the 2021 JSME Award (Technology)

Next Generation  
Standard Chuck **BR**  
SERIES



- Gripping accuracy of 0.01mm T.I.R. or less\*  
Unprecedented high gripping accuracy of standard chuck is also suitable for finish machining.



- With the optional special T-nuts, it will become more accurate.

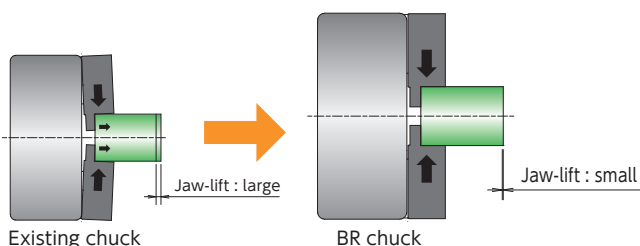
Use of the optional Tnut-Plus eliminates the need for jaw reforming.

Gripping accuracy 0.01mm T.I.R. or less even detaching and attaching formed jaws.\*

Kitagawa standard soft jaws (SJ) are usable. High repeatability can be realized only with Kitagawa genuine soft jaws. Use of jaws manufactured by a third party may cause deterioration of repeatability, sliding surface seizure or damage to parts. Due to high accuracy of jaw mounting expensive special jaws are not needed.

\*See page 96 about Tnut-Plus.

- Stable machining quality  
Reduced jaw-lift provides stable machining quality.



Optional special Tnut

**Tnut-Plus**

Pat. No. 6345375



To master BR series

- Special website for BR chuck

**BRchuck.com**

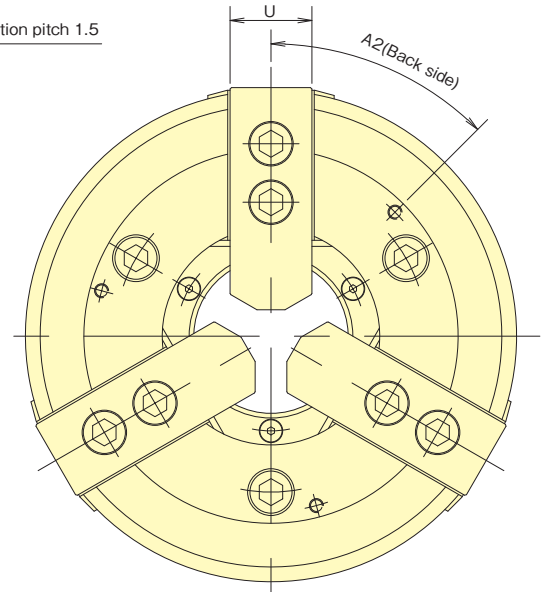
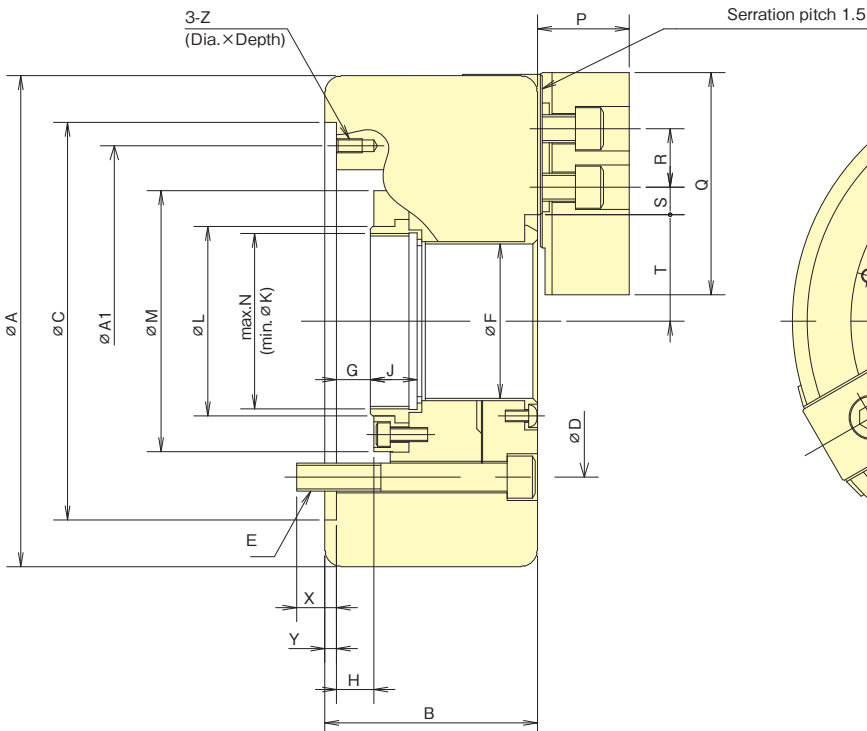
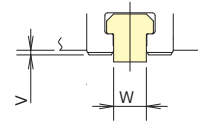


- Introducing with video



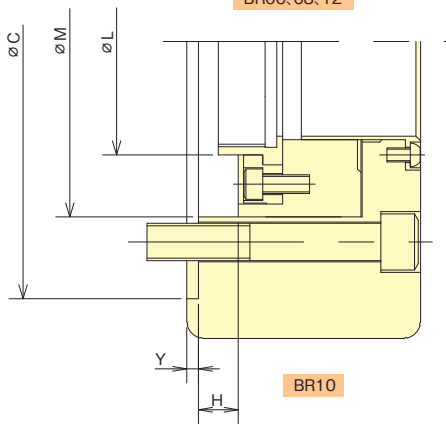
\*Only for BR12, the gripping accuracy is 0.015mm T.I.R.

## Dimensional Drawings



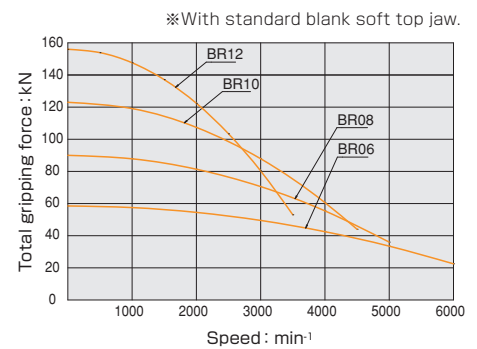
Standard Chuck

BR06, 08, 12



BR10

## Gripping Characteristic Graphs



## Dimensions

\*Blank draw nut equipped.

Dimensions	A	B	C (H6)	D	E	F	G max.	G min.	H max.	H min.	J	K	L	M	N max.	P	Q	R	S max.	S min.	T max.	T min.	U	V	W	X	Y	Z	A1	A2
BR06	170	81	140	104.8	3-M10	53	11	-1	12	0	17.5	20	66	89.7	M60x2	33.2	72	20	21.25	9.25	36.05	33.3	31	2	12	16	5	M6x11	116	90°
BR08	210	91	170	133.4	3-M12	66	14.5	-1.5	16	0	20	30	81	111.6	M75x2	39.2	95	25	23.75	11.75	45.5	41.8	35	2	14	17	5	M6x11	150	45°
BR10	254	100	220	171.4	3-M16	81	8.5	-10.5	19	0	25	45	97	150	M90x2	43.2	110	30	32.25	11.25	54	49.6	40	2	16	22	5	M8x15	190	75°
BR12	315	108	300	235	3-M20	106	8	-15	23	0	28	50	124	166.7	M115x2	52	111	30	45.75	12.75	68.8	63.5	50	2.8	21	29	6	M10x16	260	75°

## Specifications

\*Gripping dia./ Gripping range is with standard jaws.

Specifications	Thru-Hole mm	Gripping range mm	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Speed min <sup>-1</sup>	Max. Draw Bar Pull Force kN	Max. Gripping Force kN	Dynamic gripping force at max. speed kN	Net Weight kg	Moment of inertia kg·m <sup>2</sup>	Matching Cylinder	Max. pressure MPa	Matching Soft top jaw
BR06	53	170 16	5.5	12	6000	23	58.5	22.5	12.8	0.052	SR1453C SS1453K	2.3 2.1	SJ06B1
BR08	66	210 22	7.4	16	5000	35	90	36	22.2	0.14	SR1566C SS1566K	3.2 2.5	SJ08B1
BR10	81	254 31	8.8	19	4500	49	123	44	35.8	0.32	SR1781C SS1781K	3.4 3.1	SJ10B1
BR12	106	315 44	10.6	23	3500	60	156	53	57.0	0.80	SR2010C SS2110K	3.4 3.0	SJ12N1

\*The weight and the moment of inertia include mounting bolts and soft jaws.  
The calculation is assuming that the master jaws are at the centre of stroke and soft jaws are at as of the outline drawing.