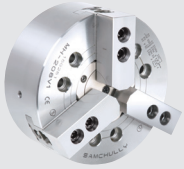




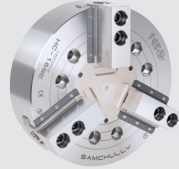
**POWER CHUCK**



## MH

Standard Mega-Bore 3-Jaw High-Speed Open-Center Chuck

6 P



## HC-SE

3-Jaw Sealed Close-Center Chuck

30 P



## QJC

Quick Jaw Change Chuck

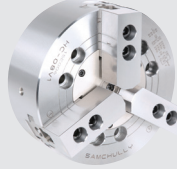
56 P



## MHT/F

Mega-Bore 2, 4-Jaw High-Speed Open-Center Chuck

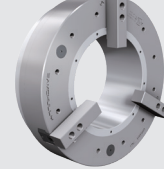
8 P



## HC

Standard 3-Jaw Close-Center Chuck

32 P



## PAC-R

Mega-Bore Pneumatic Self-Contained Chuck

58 P



## HS/HS-A (Adaptor)

Standard 3-Jaw High-Speed Open-Center Chuck

10 P



## HC-A (Adaptor)

Standard 3-Jaw Close-Center Chuck

38 P



## HST/F

2, 4-Jaw High-Speed Open-Center Chuck

16 P



## HCT/F

2, 4-Jaw Close-Center Chuck

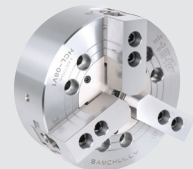
42 P



## HSL (Long Stroke)

3-Jaw High-Speed Open-Center Chuck

18 P



## HCL (Long Stroke)

Standard 3-Jaw Close-Center Chuck

46 P



## HCH

Standard 3-Jaw Open-Center Chuck

20 P



## HCLT/F (Long Stroke)

2, 4-Jaw Close-Center Chuck

48 P



## HCH-A (Adaptor)

Standard 3-Jaw Open-Center Chuck

24 P



## IDF

Self centering 2+2 Jaw Power Chuck

50 P



## HCHT/F

2, 4-Jaw Open Center Chuck

28 P



## IDS

Self centering 2+2+2 Jaw Power Chuck

54 P



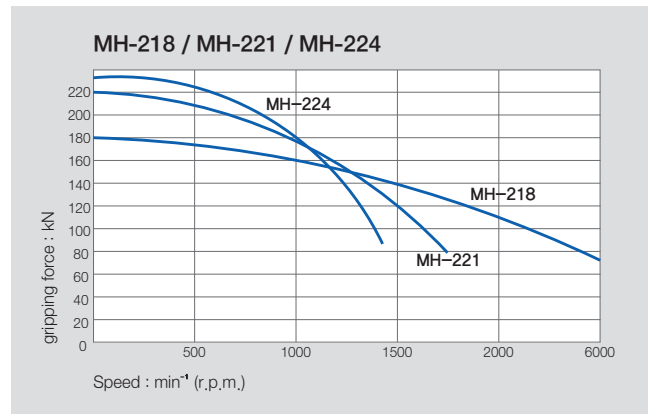
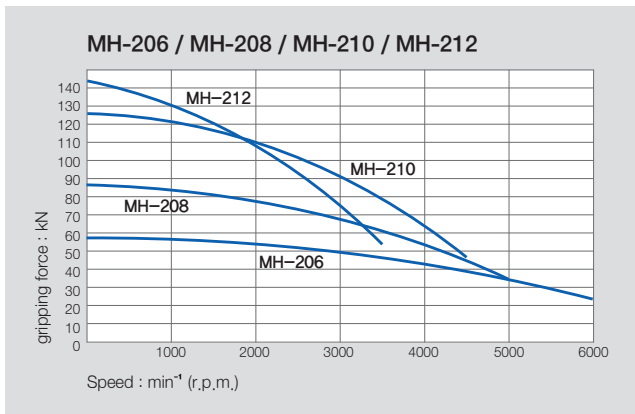
### Application

Mega-bore 3-Jaw wedge-style, open-center power chuck

### Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier Jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

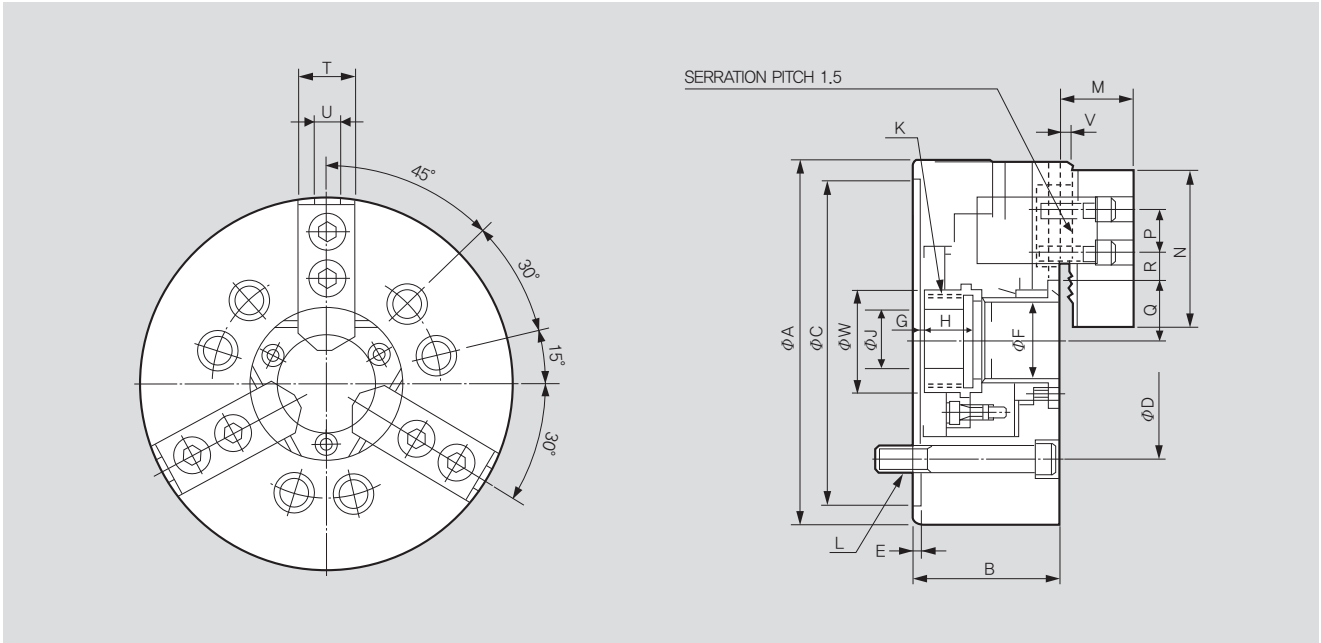
### SPECIFICATIONS

	MH-206	MH-208	MH-210	MH-212	MH-218	MH-221	MH-224
Thru Hole Dia. [mm]	52	66	82	103	166.5	166.5	190
Grip Dia. Max [mm]	175	210	254	315	457	530	610
Grip Dia. Min. [mm]	16.5	23	30	54	73	105	120
Jaw Stroke Dia. [mm]	6.4	7.4	8.8	10.6	11.5	10.6	10.6
Plunger Stroke [mm]	14	16	19	23	25	23	23
Max. Permissible Input Force [kN(kgf)]	24.7(2551)	36.4(3596)	49(4976)	55(5608)	71(7240)	90(9177)	90(9177)
Max. Static Gripping Force [kN(kgf)]	57.3(5847)	87(8872)	126.6(12848)	144(14686)	180(18355)	220(22460)	234(23861)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5000	4500	3000	2000	1700	1400
Weight [kg]	11.9	23	32	55.3	170	228	293
Moment of inertia [kg·m <sup>2</sup> ]	0.05	0.14	0.295	0.785	4.75	8.9	15.9
Operating Cylinder	SD-15452	SD-17568	SD-18582	SD-21510	SDL-30516	SDL-30516	SHL-39024
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.78(18.1)	2.34(23.9)	2.74(28)	2.65(27.2)	3.07(32)	2.86(29.1)	1.57(16.1)
Operating Hard Jaw	HB06A1	HB08A1	HB10A1	HB12N1	HB15A1	HB18B2	HB18B2

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	MH-206	MH-208	MH-210	MH-212	MH-218	MH-221	MH-224
$\Phi A$	175	210	254	315	457	530	610
B	81	91	100	110	135	140	149
$\Phi C(H6)$	140	170	220	300	380	380	380
$\varnothing D$	104.8	133.4	171.45	235	300	330.2	330.2
E	5	5	5	6	6	6	6
$\varnothing F$	52	66	82	103	166.5	166.5	190
G max.	14	7.5	8.5	8	8	11	20
G min.	0	-8.5	-10.5	-15	-17	-12	-3
H	17.5	27	25	28	50	39	40.5
$\Phi J$	20	30	52	66	107	80	80
K max.	M60x2.0	M75x2.0	M90x2.0	M116x2.0	M175x3.0	M180x3.0	M200x3.0
L	3-M10x95	6-M12x115	6-M16x120	6-M20x130	6-M20x130	6-M22x140	6-M22x150
M	32.5	39	43	50.5	69	73	73
N	72	95	110	111	165	180	180
P	20	25	30	30	50	60	60
Q max.	38	45.7	54.5	67.3	102	111.75	119.5
Q min.	34.8	42	50.1	62	96.25	106.5	114.2
R max.	21.75	23.75	32.25	45.75	58.25	72.5	105.5
R min.	10.25	11.75	14.25	15.75	20.25	21.5	21.5
T	31	35	40	49	69	65	65
U	12	14	16	21	22	25	25
V	2	2	2	2	5	5	5
$\Phi W$	65	80	101	124	186	197	210

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT





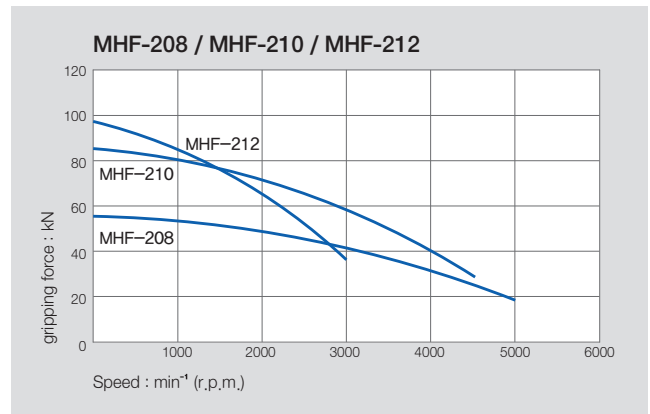
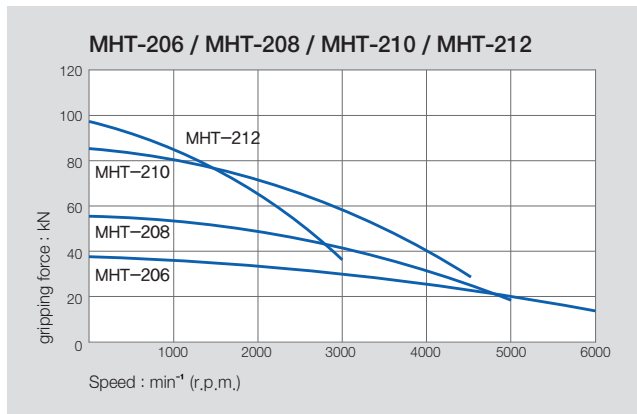
### Application

Mega-bore 2-Jaw, 4-Jaw wedge-style, open-center power chuck

### Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

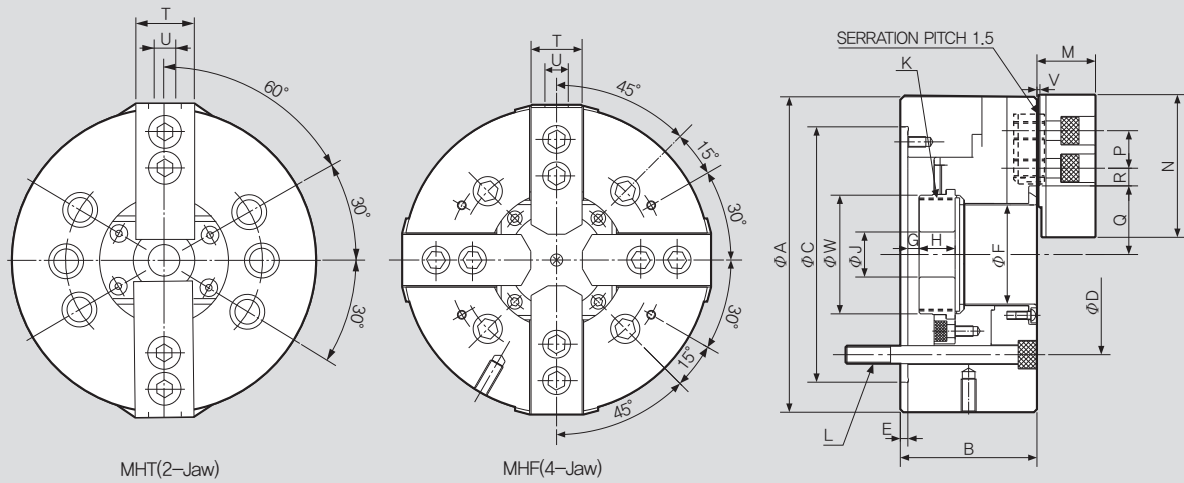
### SPECIFICATIONS

	MHT-206	MHT-208	MHT-210	MHT-212	MHF-208	MHF-210	MHF-212
Thru Hole Dia. [mm]	52	66	82	103	66	82	103
Grip Dia. Max [mm]	175	210	254	315	210	254	315
Grip Dia. Min. [mm]	16.5	23	30	54	23	30	54
Jaw Stroke Dia. [mm]	6.4	7.4	8.8	10.6	7.4	8.8	10.6
Plunger Stroke [mm]	14	16	19	23	16	19	23
Max. Permissible Input Force [kN(kgf)]	16.6(1700)	23.5(2397)	32.5(3306)	36.7(3742)	23.25(2397)	32.5(3306)	36.7(3742)
Max. Static Gripping Force [kN(kgf)]	38(3875)	57.9(5914)	84(8530)	96(9789)	57.9(5914)	84(8530)	96(9789)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5000	4500	3000	5000	4500	3000
Weight [kg]	11.5	21.7	31	55.3	23.5	32	55.3
Moment of inertia [kg·m <sup>2</sup> ]	0.048	0.132	0.3	0.808	0.57	0.329	0.808
Operating Cylinder	SD-15452	SD-17568	SD-18582	SD-21510	SD-17568	SD-18582	SD-21510
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.18(12)	1.59(16.3)	1.86(19)	1.57(16.0)	1.59(16.3)	1.86(19)	1.57(16.0)
Operating Hard Jaw	HB06A1	HB08A1	HB10A1	HB12A1	HBF08A1	HBF10A1	HBF12A1

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	MHT-206	MHT-208	MHT-210	MHT-212	MHF-208	MHF-210	MHF-212
$\Phi A$	175	210	254	315	210	254	315
B	81	91	100	110	91	100	110
$\Phi C$	140	170	220	300	170	220	300
$\varnothing D$	104.8	133.4	171.45	235	133.4	171.45	235
E	5	5	5	6	5	5	6
$\varnothing F$	52	66	82	103	66	82	103
G max.	14	7.5	8.5	8	7.5	8.5	8
G min.	0	-8.5	-10.5	-15	-8.5	-10.5	-15
H	17.5	27	25	28	27	25	28
$\Phi J$	20	30	52	66	30	52	66
K max.	M60x2.0	M75x2.0	M90x2.0	M116x2.0	M75x2.0	M90x2.0	M116x2.0
L	6-M10x95	6-M12x115	6-M16x120	6-M20x130	4-M12x115	4-M16x120	4-M20x130
M	32.5	39	43	50.5	39	43	50.5
N	72	95	110	111	95	110	111
P	20	25	30	30	25	30	30
Q max.	38	45.7	54.5	67.3	45.7	54.5	67.3
Q min.	34.8	42	50.1	62	42	50.1	62
R max.	21.75	23.75	32.25	45.75	23.75	32.25	45.75
R min.	10.25	11.75	14.25	15.75	11.75	14.25	15.75
T	31	35	40	49	35	40	49
U	12	14	16	21	14	16	21
V	2	2	2	2	2	2	2
$\Phi W$	65	80	101	124	80	101	124

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT



# HS Standard 3-Jaw High-Speed Open-Center Chuck



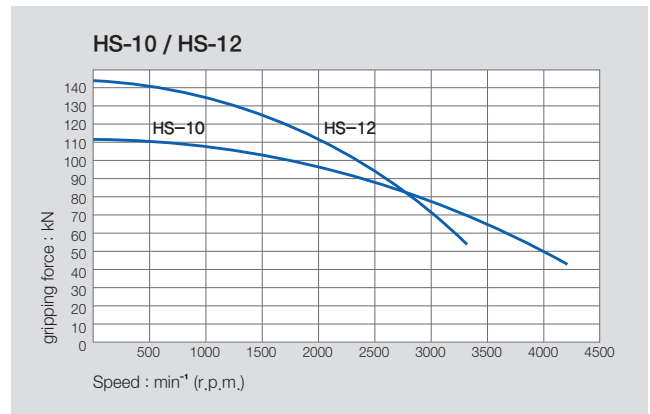
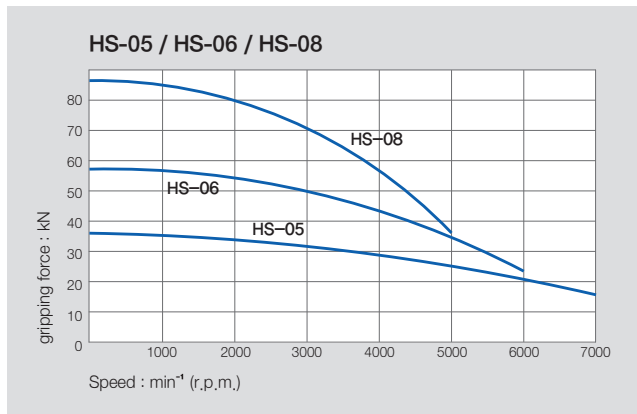
## Application

Standard high-speed 3-Jaw wedge-style open center power chuck

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

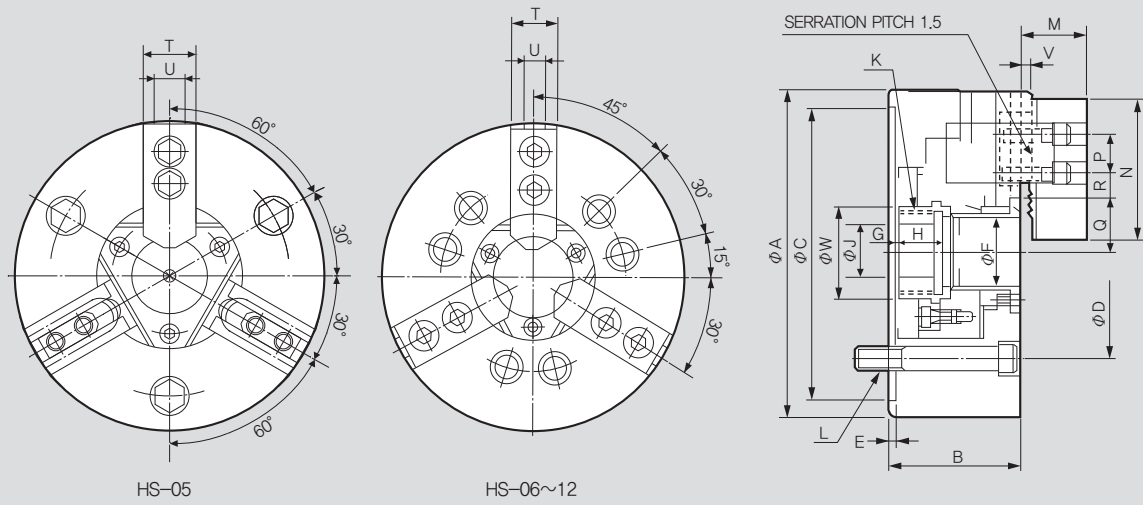
## SPECIFICATIONS

	HS-05	HS-06	HS-08	HS-10	HS-12
Thru Hole Dia. [mm]	33	46	52	77	91
Grip Dia. Max [mm]	135	169	210	254	304
Grip Dia. Min [mm]	12	15	13	31	34
Jaw Stroke Dia. [mm]	5.4	5.5	7.4	8.8	10.6
Plunger Stroke [mm]	10	12	16	19	23
Permissible Input Force [kN(kgf)]	17.5(1784)	22(2243)	34.8(3549)	43(4385)	55(5608)
Max. Static Gripping Force [kN(kgf)]	36(3671)	57(5812)	86(8769)	111(11319)	144(14686)
Max. r.p.m. [min <sup>-1</sup> ]	7000	6000	5000	4200	3300
Weight [kg]	6.7	11.9	22.3	34.5	55.3
Moment of inertia [kg·m <sup>2</sup> ]	0.016	0.052	0.145	0.305	0.707
Operating Cylinder	SH-10036	SD-13546	SD-15452	SD-18577	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.9(30)	2.8(28.6)	2.65(27)	2.7(27.5)	2.7(27.5)
Operating Hard Jaw	HB04N1	HB06A1	HB08A1	HB10A1	HB12N1
KITAGAWA® Model	B-205	B-206	B-208	B-210	B-212

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HS-05	HS-06	HS-08	HS-10	HS-12
$\varnothing A$	135	169	210	254	304
B	60	81	91	100	110
$\varnothing C(H6)$	110	140	170	220	220
$\varnothing D$	82.6	104.8	133.4	171.4	171.4
E	4	5	5	5	6
$\varnothing F$	33	46	52	77	91
G max.	1	11	14.5	8.5	8
G min.	-9	-1	-1.5	-10.5	-15
H	20	19	20.5	25	28
$\varnothing J$	12	20	30	45	50
K max.	M40x1.5	M55x2.0	M60x2.0	M85x2.0	M100x2.0
L	3-M10x60	6-M10x95	6-M12x105	6-M16x120	6-M16x130
M	26	31	38.5	43	50.5
N	54	72	95	110	111
P	14	20	25	30	30
Q max.	26.5	32	38.7	51	61.3
Q min.	23.8	29.25	35	46.6	56
R max.	19.75	22.75	29.75	33.75	45.75
R min.	7.75	9.25	14.75	14.25	15.75
T	23	31	35	40	49
U	10	12	14	16	21
V	2	2	2	2	2
$\varnothing W$	47	60	66	94	108

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT





# HS-A 3-Jaw High-Speed Open-Center Chuck with Adaptor (135mm - 210mm)



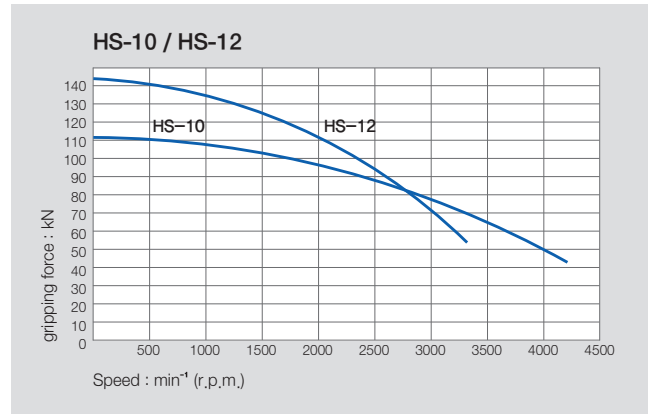
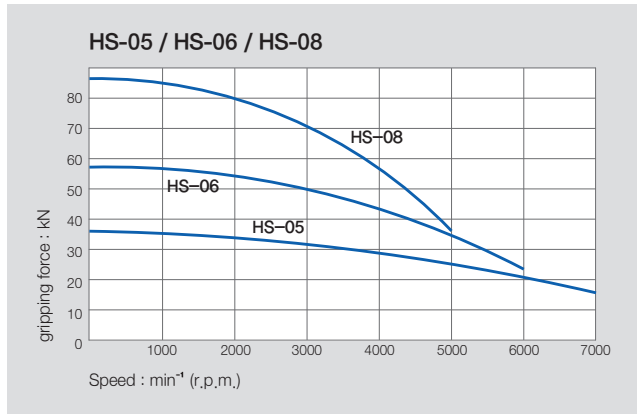
## Application

Standard high-speed 3-Jaw wedge-style open center power chuck with adaptor

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram

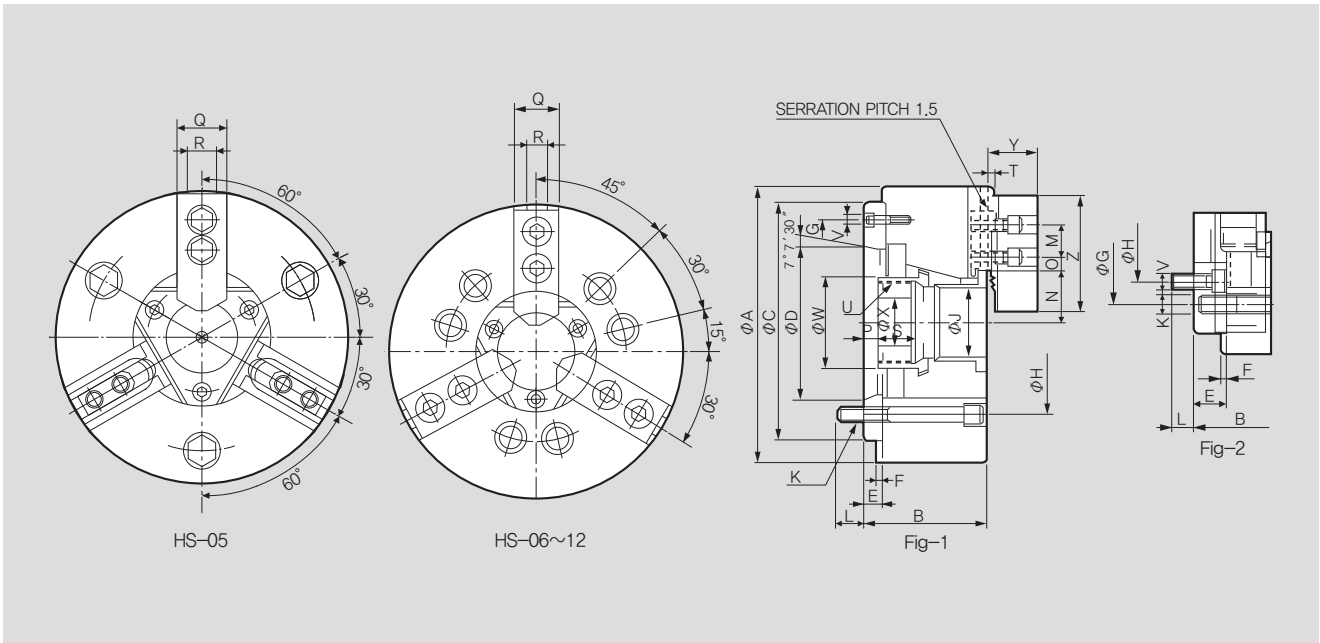


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	HS-05A05	HS-06A05	HS-08A06
Spindle Nose	A2-5	A2-5	A2-6
Thru Hole Dia. [mm]	33	46	52
Grip Dia. Max [mm]	135	169	210
Grip Dia. Min [mm]	12	15	13
Jaw Stroke Dia. [mm]	5.4	5.5	7.4
Plunger Stroke [mm]	10	12	16
Max. Permissible Input Force [kN(kgf)]	17.5(1784)	22(2243)	34.8(3549)
Max. Static Gripping Force [kN(kgf)]	36(3671)	57(5812)	86(8769)
Max. r.p.m. [min <sup>-1</sup> ]	7000	6000	5000
Weight [kg]	7.5	13.7	23.6
Moment of inertia [kg·m <sup>2</sup> ]	0.016	0.052	0.145
Operating Cylinder	SH-10036	SD-13546	SD-15452
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.43(35.0)	2.8(28.6)	2.65(27)
Operating Hard Jaw	HB04N1	HB06A1	HB08A1
KITAGAWA® Model	B-205	B-206A5	B-208A6

- ※ Maximum turning speed is based upon actual measurement.
- ※ Specifications are subject to change without notice.
- ※ HS-10A06 and HS-10A08 are available with 75mm and 77mm thru holes.
- ※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



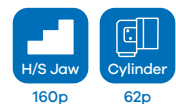
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HS-05A05	HS-06A05	HS-08A06
ΦA	135	169	210
B	72	91	103
ΦC(H6)	110	140	170
ØD	82.56	82.563	106.375
E	16	15	17
F	4	5	5
ØG	104.8	104.8	133.4
ØH	104.8	104.8	133.4
ØJ	33	46	52
K	3-M10x75	6-M10x95	6-M12x105
L	14	16	18
M	14	20	25
N max.	26.5	32	38.7
N min.	23.8	29.25	35
O max.	19.75	22.75	29.75
O min.	7.75	9.25	14.75
P max.	17	26	31.5
P min.	7	14	15.5
Q	23	31	35
R	10	12	14
S	20	19	20.5
T	2	2	2
U max.	M40x1.5	M55x2	M60x2
V	3-M6	3-M6	6-M6
ΦW	47	60	66
ΦX	-	20	30
Y	26	31	38.5
Z	54	72	95

※ Blank and machined draw-nuts are available. "U" is Max. Draw nut size.  
※ Refer to Fig-2 for HS-10A06, HS-12A06.

RELATED PRODUCT



# HS-A 3-Jaw High-Speed Open-Center Chuck with Adaptor (254mm - 304mm)



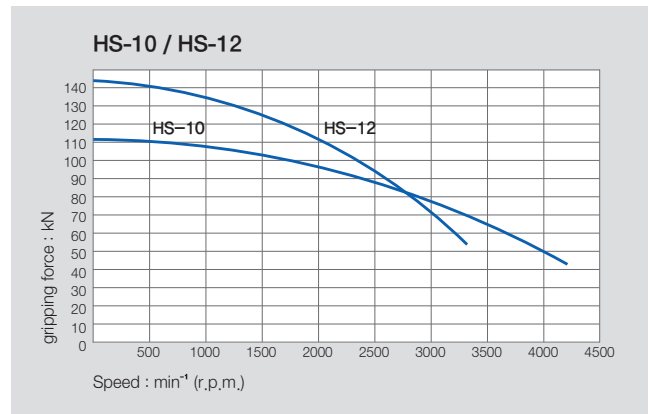
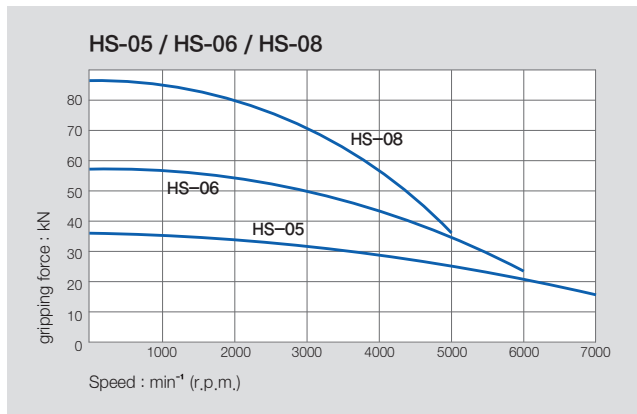
## Application

Standard high-speed 3-Jaw wedge-style open center power chuck with adaptor

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram

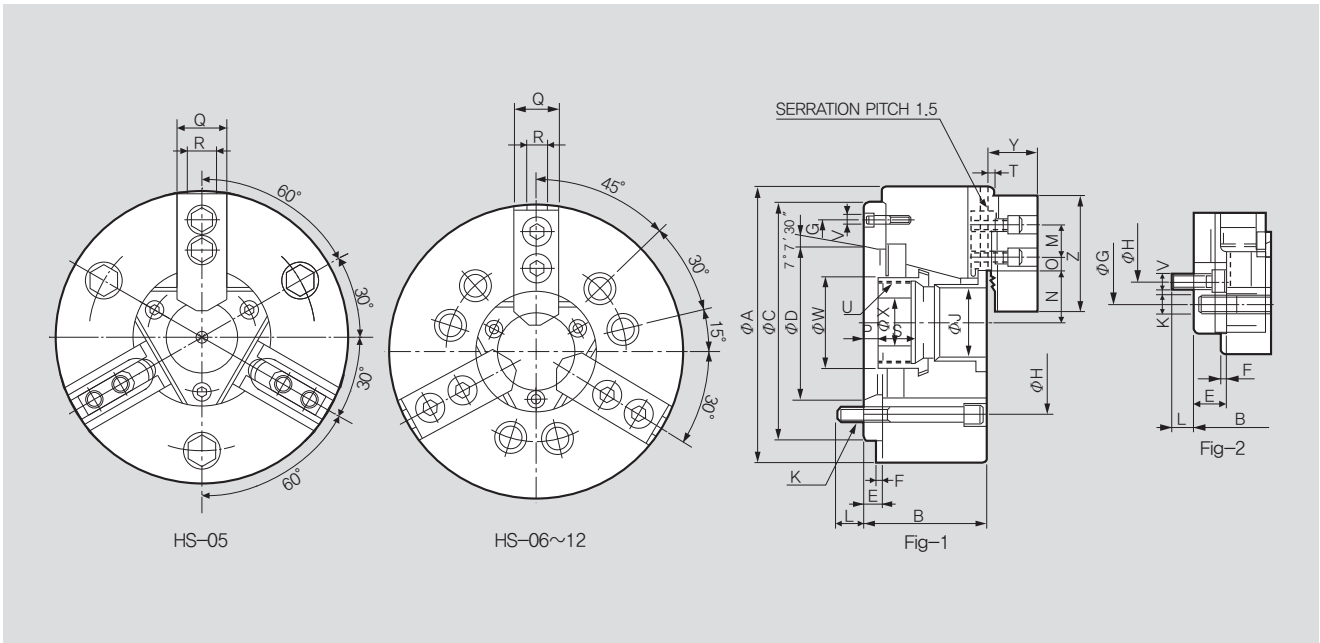


※ Diagram assumes use of standard Samchully soft jaws. Grip force will vary according to jaw size.

## SPECIFICATIONS

	HS-10A06	HS-10A08	HS-12A06	HS-12A08
Spindle Nose	A2-6	A2-8	A2-6	A2-8
Thru Hole Dia. [mm]	77	77	91	91
Grip Dia. Max [mm]	254	254	304	304
Grip Dia. Min [mm]	31	31	34	34
Jaw Stroke Dia. [mm]	8.8	8.8	10.6	10.6
Plunger Stroke [mm]	19	19	23	23
Max. Permissible Input Force [kN(kgf)]	43(4385)	43(4385)	55(5608)	55(5608)
Max. Static Gripping Force [kN(kgf)]	111(11319)	111(11319)	144(14684)	144(14684)
Max. r.p.m. [min <sup>-1</sup> ]	4200	4200	3300	3300
Weight [kg]	41.5	40	67	64
Moment of inertia [kg·m <sup>2</sup> ]	0.305	0.305	0.707	0.707
Operating Cylinder	SD-18577	SD-18577	SD-20591	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.7(27.5)	2.7(27.5)	2.7(27.5)	2.7(27.5)
Operating Hard Jaw	HB10A1	HB10A1	HB12N1	HB12N1
KITAGAWA® Model	B-210A6	B-210A8	B-212A6	B-212A8

- ※ Maximum turning speed is based upon actual measurement.
- ※ Specifications are subject to change without notice.
- ※ HS-10A06 and HS-10A08 are available with 75mm and 77mm thru holes.
- ※ Samchully Machinery Co, Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co, Ltd.



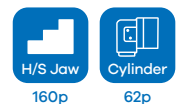
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HS-10A06	HS-10A08	HS-12A06	HS-12A08
$\varnothing A$	254	254	304	304
B	120	113	129	122
$\varnothing C(H6)$	220	220	220	220
$\varnothing D$	106.375	139.719	106.375	139.719
E	25	18	25	18
F	5	5	6	6
$\varnothing G$	171.4	171.4	171.4	171.4
$\varnothing H$	133.4	171.4	133.4	190
$\varnothing J$	77	77	91	91
K	6-M16x100	6-M16x120	6-M16x110	6-M16x130
L	18.5	24	18.5	25
M	30	30	30	30
N max.	51	51	61.3	61.3
N min.	46.6	46.6	56	56
O max.	33.75	33.75	45.75	45.75
O min.	14.25	14.25	15.75	15.75
P max.	33.5	26.5	33	26
P min.	14.5	7.5	10	3
Q	40	40	49	49
R	16	16	21	21
S	25	25	28	28
T	2	2	2	2
U max.	M75x2	M85x2	M90x2	M100x2
V	6xM12	3xM8	6xM12	3xM8
$\varnothing W$	94	94	108	108
$\varnothing X$	45	45	50	50
Y	43	43	50.5	50.5
Z	110	110	111	111

※ Blank and machined draw-nuts are available. "U" is Max. Draw nut size.  
※ Refer to Fig-2 for HS-10A06, HS-12A06.

RELATED PRODUCT



# HST / HSF 2-Jaw, 4-Jaw High-Speed Open-Center Chuck



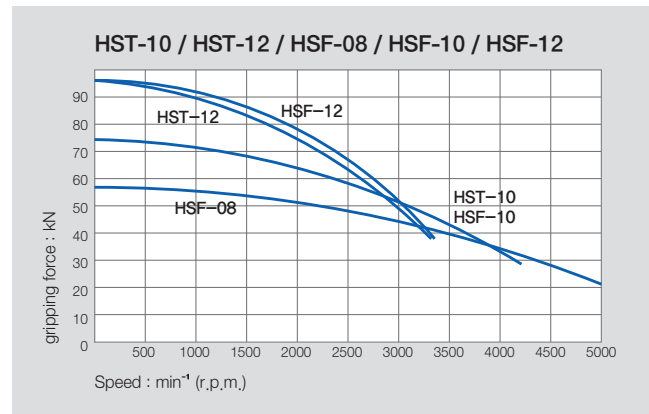
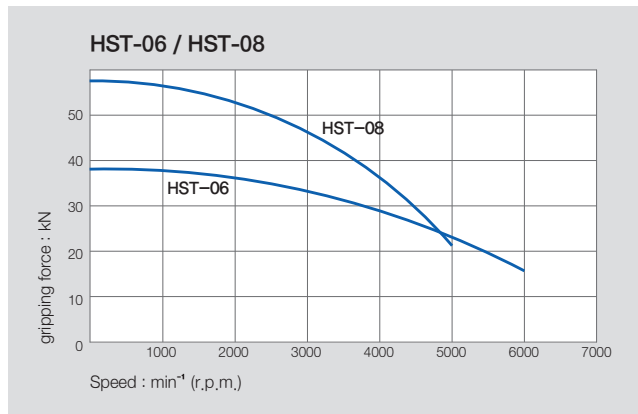
## Application

high-speed 2-Jaw, 4-Jaw wedge-style open center power chuck

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

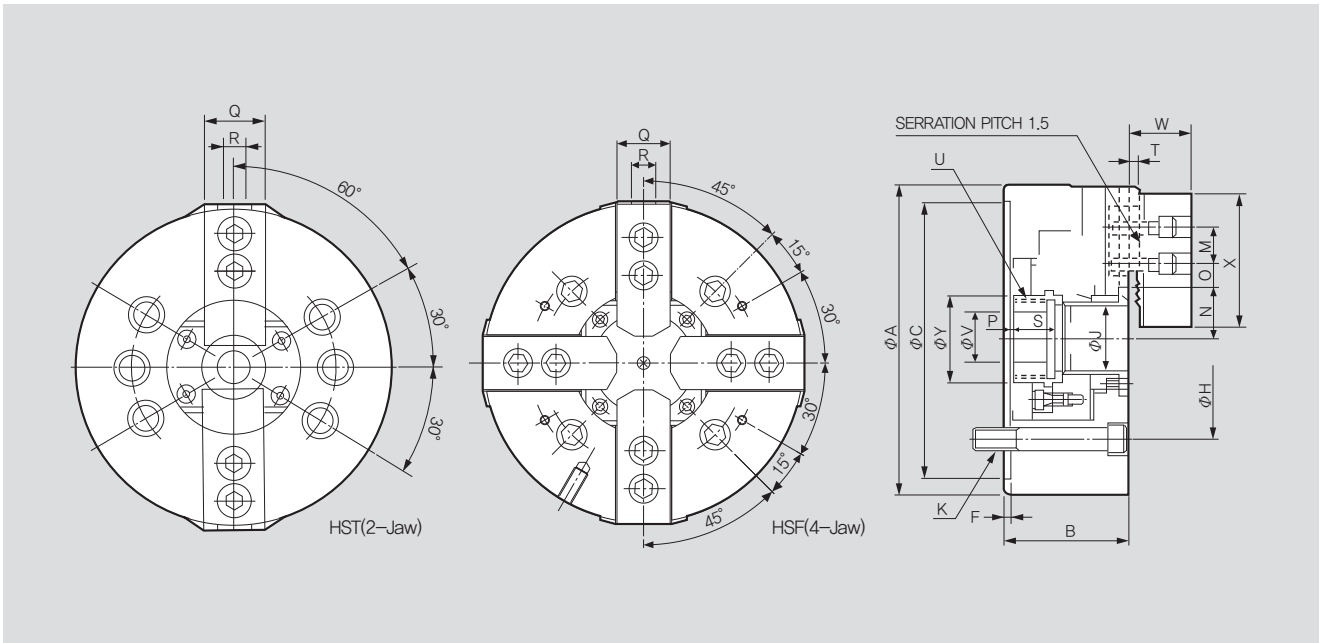
## SPECIFICATIONS

	HST-06	HST-08	HST-10	HST-12	HSF-08	HSF-10	HSF-12
Thru Hole Dia. [mm]	46	52	77	91	52	77	91
Grip Dia. Max [mm]	169	210	254	304	210	254	304
Grip Dia. Min	15	13	31	34	13	31	34
Jaw Stroke Dia. [mm]	5.5	7.4	8.8	10.6	7.4	8.8	10.6
Plunger Stroke [mm]	12	16	19	23	16	19	23
Max. Permissible Input Force [kN(kgf)]	14.5 (1479)	23.2 (2366)	28.5 (2906)	36.7 (3742)	23.2 (2366)	28.5 (2906)	36.7 (3742)
Max. Static Gripping Force [kN(kgf)]	38 (3875)	57.3 (5843)	74 (7546)	96 (9789)	57.3 (5843)	74 (7546)	96 (9789)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5000	4200	3300	5000	4200	3300
Weight [kg]	11.5	21.3	33.5	52	22.5	34.5	52
Moment of inertia [kg·m <sup>2</sup> ]	0.05	0.14	0.298	0.67	0.15	0.312	0.744
Operating Cylinder	SD-13546	SD-15452	SD-18577	SD-20591	SD-15452	SD-18577	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.85 (18.9)	1.80 (18.4)	1.80 (18.4)	1.81 (18.5)	1.80 (18.4)	1.80 (18.4)	1.80 (18.4)
KITAGAWA® Model	BT-206	BT-208	BT-210	BT-212	-	-	-

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HST-06	HST-08	HST-10	HST-12	HSF-08	HSF-10	HSF-12
$\varnothing A$	169	210	254	304	210	254	304
B	81	91	100	110	91	100	110
$\varnothing C(H6)$	140	170	220	220	170	220	220
F	5	5	5	6	5	5	5
$\varnothing H$	104.8	133.4	171.4	171.4	133.4	171.4	171.4
$\varnothing J$	46	52	77	91	52	77	91
K	6-M10x95	6-M12x105	6-M16x120	6-M16x130	4-M12x105	4-M16x120	4-M16x130
M	20	25	30	30	25	30	30
N max.	32	38.7	51	61.4	38.7	51	61.4
N min.	29.25	35	46.6	56	35	46.6	56
O max.	22.75	29.75	33.75	45.75	29.75	33.75	45.75
O min.	9.25	14.75	14.25	15.75	14.75	14.25	15.75
P max	11	14.5	8.5	8	14.5	8.5	8
P min	-1	-1.5	-10.5	-15	-1.5	-10.5	-15
Q	32	35	40	49	35	40	49
R	12	14	16	21	14	16	21
S	19	20.5	25	28	20.5	25	28
Y	2	2	2	2	2	2	2
U max.	M55x2.0	M60x2.0	M85x2.0	M100x2.0	M60x2.0	M85x2.0	M100x2.0
$\varnothing V$	20	30	45	50	30	45	50
W	31	39	43	50.5	39	43	50.5
X	72	95	110	111	95	110	111
$\varnothing Y$	60	66	94	108	66	94	108

※ Blank and machined draw-nuts are available. 'U' is Max. Draw nut size.

## RELATED PRODUCT





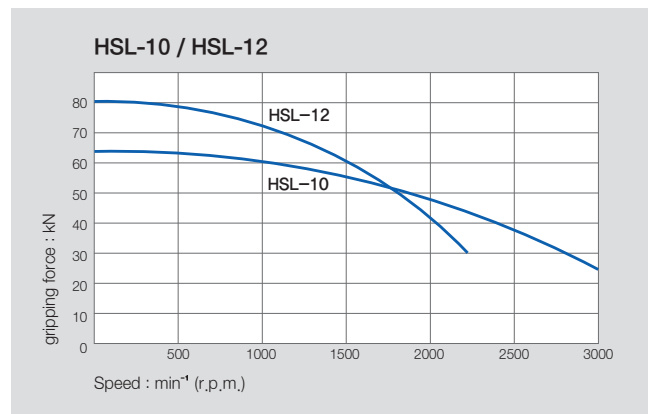
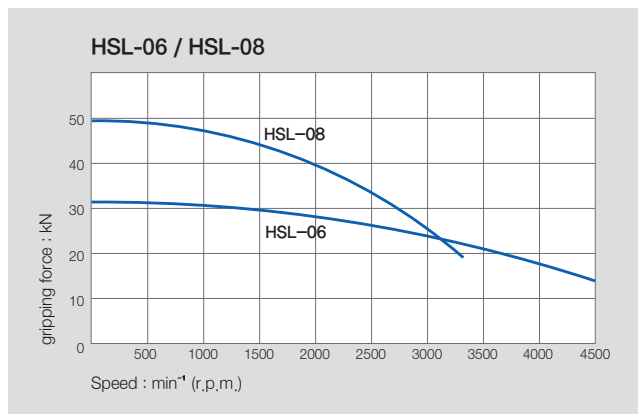
### Application

Long-stroke high-speed 3-Jaw wedge-style open-center power chuck

### Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

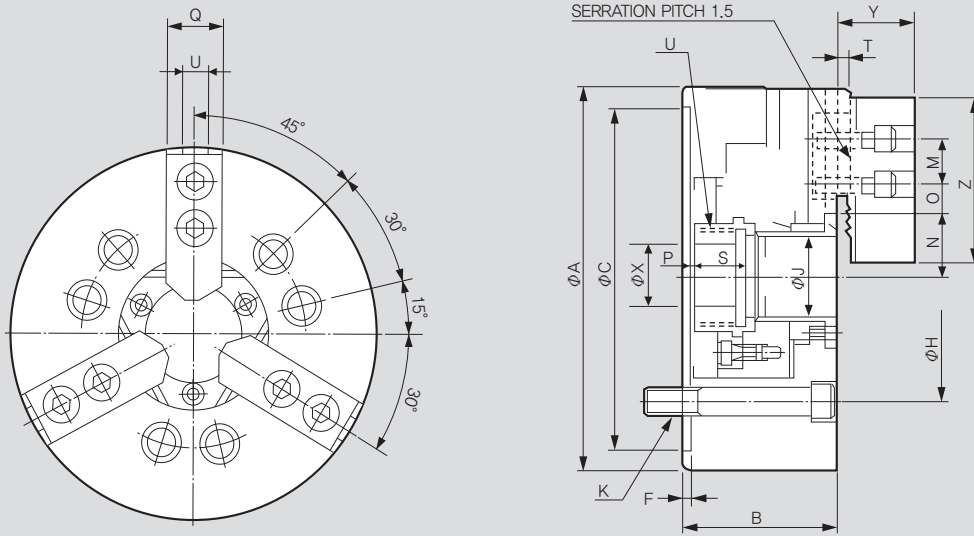
### SPECIFICATIONS

	HSL-06	HSL-08	HSL-10	HSL-12
Thru Hole Dia. [mm]	33	46	53	63
Grip Dia. Max [mm]	169	215	254	304
Grip Dia. Min [mm]	28	32	42	43
Jaw Stroke Dia. [mm]	20.2	25.4	30	36
Plunger Stroke [mm]	15	22	25	30
Max. Permissible Input Force [kN(kgf)]	27.9(2845)	41.1(4191)	53.8(5486)	69.3(7067)
Max. Static Gripping Force [kN(kgf)]	31.2(3182)	49.0(4997)	63.0(6427)	80.4(8199)
Max. r.p.m. [min <sup>-1</sup> ]	4500	3300	3000	2200
Weight [kg]	14	25	45	78
Moment of inertia [kg·m <sup>2</sup> ]	0.043	0.198	0.306	0.918
Operating Cylinder	SD-13546	SD-15452	SD-18577	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.40(34.7)	2.99(30.5)	3.20(32.6)	3.22(32.8)
Operating Hard Jaw	HB06A1	HB08A1	HB10A1	HB12N1
KITAGAWA® Model	BL-206	BL-208	BL-210	BL-212

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HSL-06	HSL-08	HSL-10	HSL-12
$\Phi A$	169	215	254	304
B	84	99	110	130
$\Phi C(H6)$	140	170	220	220
F	5	5	5	6
$\Phi H$	104.8	133.4	171.4	171.4
$\Phi J$	33	46	53	63
K	6-M10	6-M12	6-M16	6-M16
M	20	25	30	30
N max.	39.3	52.3	62	72.5
N min.	29.2	39.6	47	54.5
O max.	16.75	20.75	26.25	36
O min.	9.25	11.75	9.75	14
P max	14	15.5	14.5	15
P min	-1	-6.5	-10.5	-15
Q	31	35	40	49
R	12	14	16	21
S	19	22.5	25	28
T	2	2	2	2
U max.	M42x1.5	M55x2.0	M65x2.0	M75x2.0
W	47	66	80	83
$\Phi X$	20	30	45	50
Y	32.5	37.5	43	50.5
Z	72	95	110	111

※ Blank and machined draw-nuts are available. 'U' is Max. Draw nut size.

## RELATED PRODUCT





# HCH Standard 3-Jaw Open-Center Chuck (110mm - 450mm)



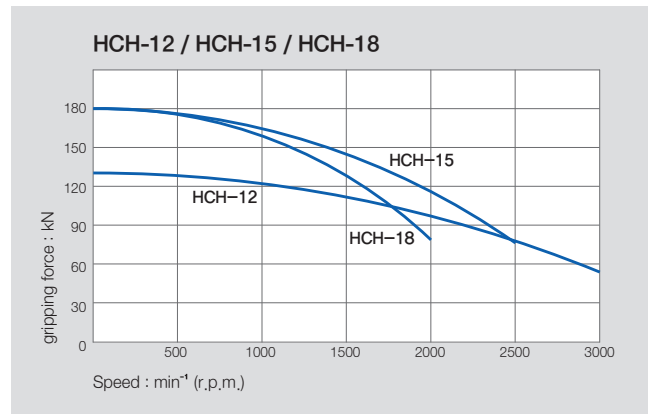
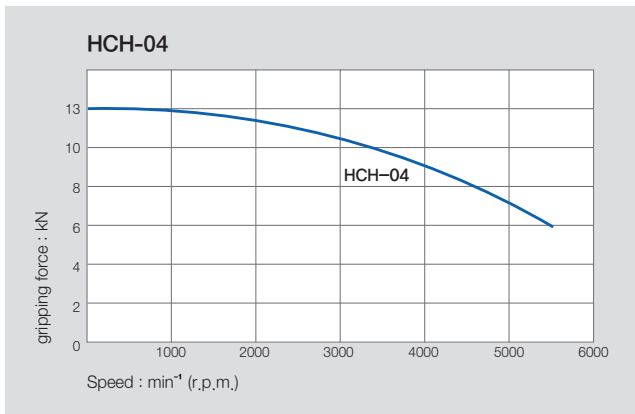
## Application

Standard 3-Jaw wedge-style open center power chuck

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

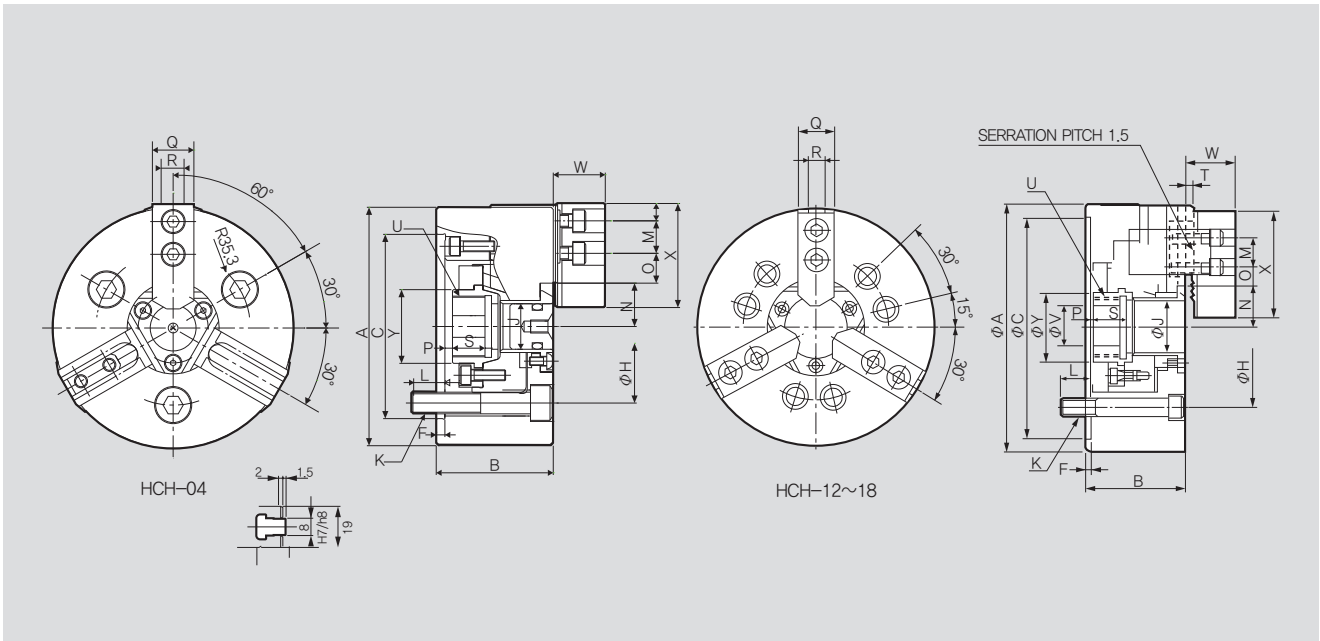
## SPECIFICATIONS

	HCH-04	HCH-15	HCH-18
Thru Hole Dia. [mm]	21	117.5	117.5
Grip Dia. Max [mm]	110	381	450
Grip Dia. Min [mm]	5	30	30
Jaw Stroke Dia. [mm]	4.2	10.6	10.6
Plunger Stroke [mm]	6.5	23	23
Max. Permissible Input Force [kN(kgf)]	8(800)	71(7240)	71(7240)
Max. Static Gripping Force [kN(kgf)]	13(1350)	180(18355)	180(18355)
Max. r.p.m. [min <sup>-1</sup> ]	5500	2500	2000
Weight [kg]	3.7	120	164
Moment of inertia [kg·m <sup>2</sup> ]	0.006	2.35	4.45
Operating Cylinder	HYH-0933	SD-25411	SD-25411
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.2(22.4)	2.3(23.5)	2.3(23.5)
Operating Hard Jaw	HB04A1	HB15A1	HB15A1
KITAGAWA® Model	B-04	B-15	B-18

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCH-04	HCH-15	HCH-18
$\varnothing A$	110	381	450
B	54	133	133
$\varnothing C(H6)$	85	300	380
F	4	6	6
H	70.6	235	235
$\varnothing J$	21	117.5	117.5
K	3-M10	6-M20	6-M20
L	15.5	30	30
M	15	43	43
N max.	20	82	82
N min.	17.9	76.7	76.7
O max.	15.25	46.75	78.25
O min.	7.75	18.25	18.25
P max.	3.5	11	11
P min.	-3	-12	-12
Q	19	62	62
R	8	22	22
S	15	39	39
T	2	5	5
U max.	M28x1.5	M130x2.0	M130x2.0
$\varnothing V$	10	60	60
W	24	70	70
X	48	165	165
$\varnothing Y$	34	139	139

※ Blank and machined draw-nuts are available. 'U' is Max. Draw nut size.

## RELATED PRODUCT



# HCH Standard 3-Jaw Open-Center Chuck (530mm - 800mm)



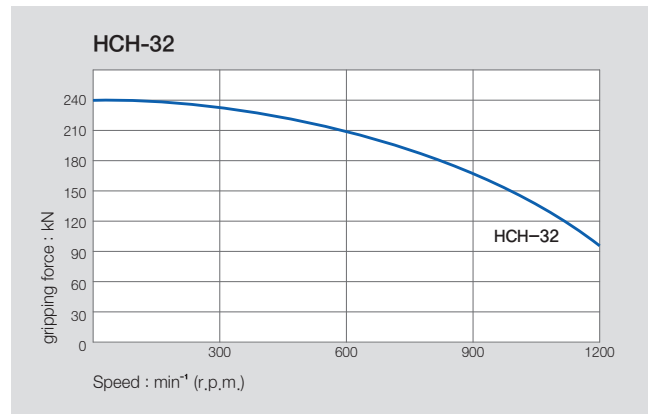
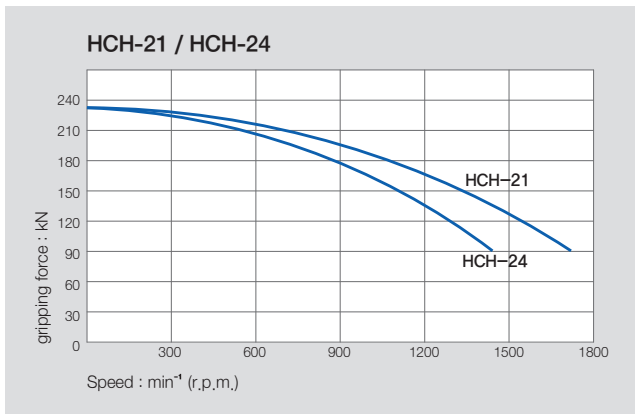
## Application

Standard 3-Jaw wedge-style open center power chuck

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

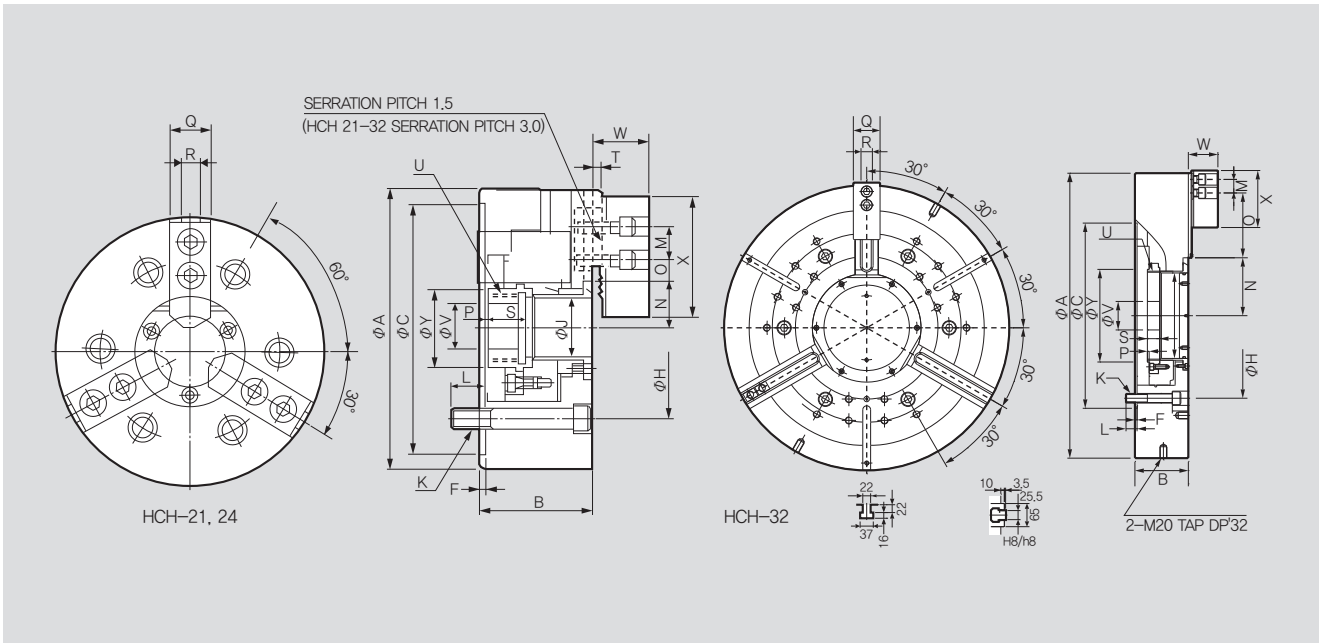
## SPECIFICATIONS

	HCH-21	HCH-24	HCH-32
Thru Hole Dia. [mm]	140	165	240
Grip Dia. Max. [mm]	530	610	800
Grip Dia. Min. [mm]	87	110	240
Jaw Stroke Dia. [mm]	10.6	10.6	18
Plunger Stroke [mm]	23	23	34
Max. Permissible Input Force [kN(kgf)]	90(9177)	90(9177)	100(10193)
Max. Static Gripping Force [kN(kgf)]	234(23861)	234(23861)	240(24464)
Max. r.p.m. [min <sup>-1</sup> ]	1700	1400	1200
Weight [kg]	235	293	530
Moment of inertia [kg·m <sup>2</sup> ]	8.85	15.8	51.5
Operating Cylinder	SD-25411	SDL-30516	SHL-39024
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.0(30.6)	3.0(30.6)	3.2(33.6)
Operating Hard Jaw	HB18B2	HB18B2	HB32B2
KITAGAWA® Model	B-21	B-24	-

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCH-21	HCH-24	HCH-32
$\Phi A$	530	610	800
B	140	149	150
$\Phi C(H6)$	380	380	520
F	6	6	6
H	330.2	330.2	463.6
$\Phi J$	140	165	240
K	6-M22	6-M22	6-M24
L	31	32	31
M	60	60	38
N max.	98.5	108	162.6
N min.	93.2	102.7	153.6
O max.	87.5	117.5	182
O min.	21.5	21.5	20
P max.	11	20	29
P min.	-12	-3	-5
Q	65	65	75
R	25	25	25.5
S	39	40.5	29.5
T	5	5	10
U max.	M155x3.0	M175x3.0	M250x3.0
$\Phi V$	80	80	80
W	72	72	83
X	180	180	160
$\Phi Y$	170	187	260

※ Blank and machined draw-nuts are available. 'U' is Max. Draw nut size.

## RELATED PRODUCT



# HCH-A 3-Jaw Open-Center Chuck with adaptor (304mm - 381mm)



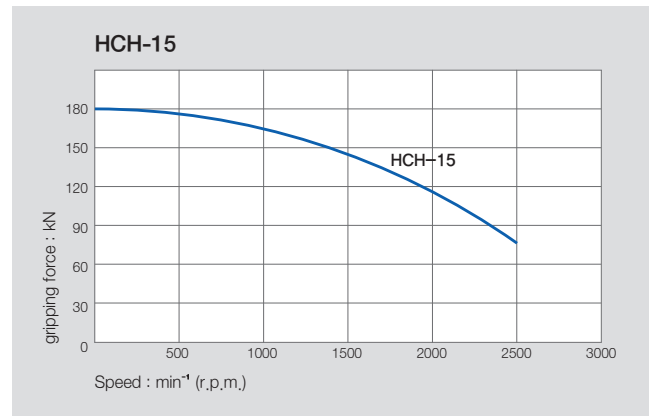
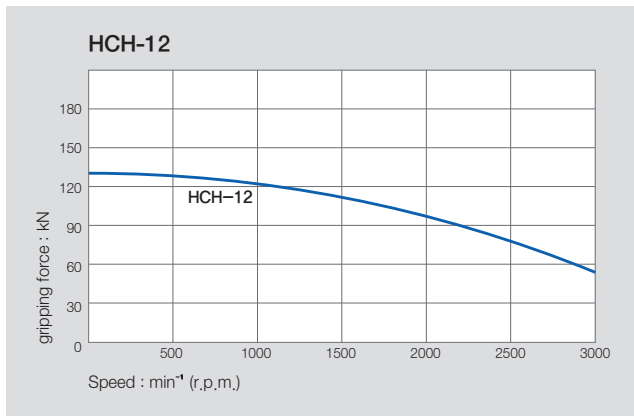
## Application

Standard 3-Jaw wedge-style open center power chuck with adaptor

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

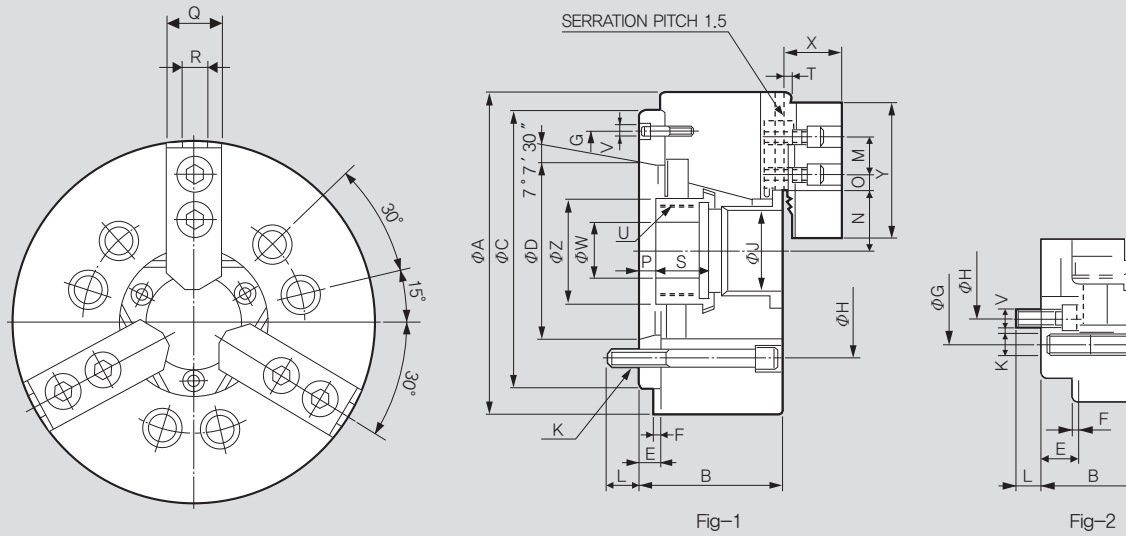
## SPECIFICATIONS

	HCH-15A08	HCH-15A11
Spindle Nose	A2-8	A2-11
Thru Hole Dia. [mm]	117.5	117.5
Grip Dia. Max. [mm]	381	381
Grip Dia. Min. [mm]	30	30
Jaw Stroke Dia. [mm]	10.6	10.6
Plunger Stroke [mm]	23	23
Max. Permissible Input Force [kN(kgf)]	71(7240)	71(7240)
Max. Static Gripping Force [kN(kgf)]	180(18355)	180(18355)
Max. r.p.m. [min <sup>-1</sup> ]	2500	2500
Weight [kg]	134	127
Moment of inertia [kg·m <sup>2</sup> ]	2.35	2.35
Operating Cylinder	SD-25411	SD-25411
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.3(23.5)	2.3(23.5)
Operating Hard Jaw	HB15A1	HB15A1
KITAGAWA® Model	B-15A8	B-15A11

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



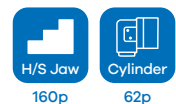
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCH-15A08	HCH-15A11
ΦA	381	381
B	160	149
ΦC(H6)	300	300
ΦD	139.719	196.869
E	33	22
F	6	6
ΦG	235	260
ΦH	171.4	235
ΦJ	117.5	117.5
K	6-M20x130	6-M20x150
L	24	28
M	43	43
N max.	82	82
N min.	76.7	76.7
O max.	43.75	43.75
O min.	18.25	18.25
P max.	44	33
P min.	21	10
Q	62	62
R	22	22
S	39	39
T	5	5
U max.	M130x2.0	M130x2.0
V	6-M16	3-M10
ΦW	60	60
X	70	70
Y	165	165
ΦZ	139	139

※ Blank and machined draw-nuts are available. "U" is Max. Draw nut size.  
※ Refer to Fig-2 for HCH-12A06, HCH-12A08.

RELATED PRODUCT



# HCH-A 3-Jaw Open-Center Chuck with adaptor (304mm - 381mm)



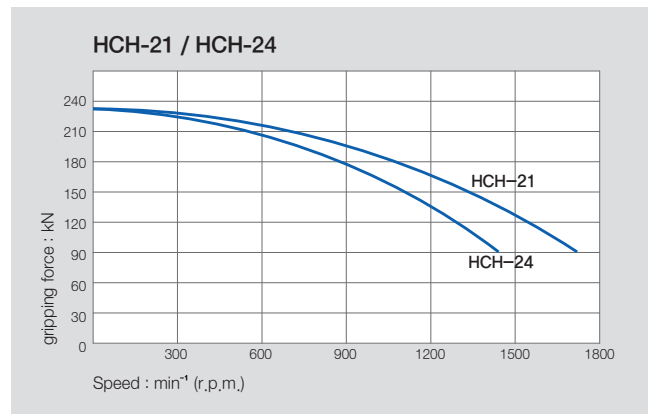
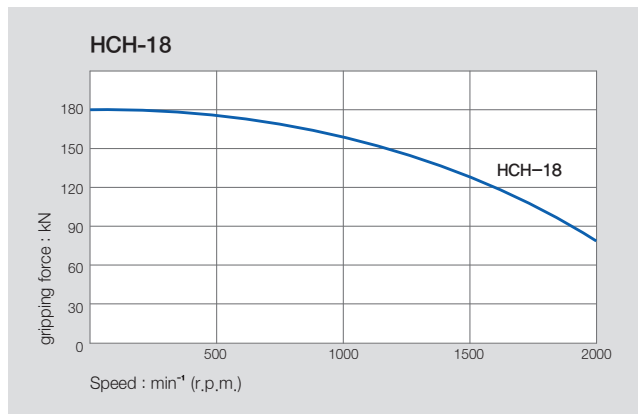
## Application

Standard 3-Jaw wedge-style open center power chuck with adaptor

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

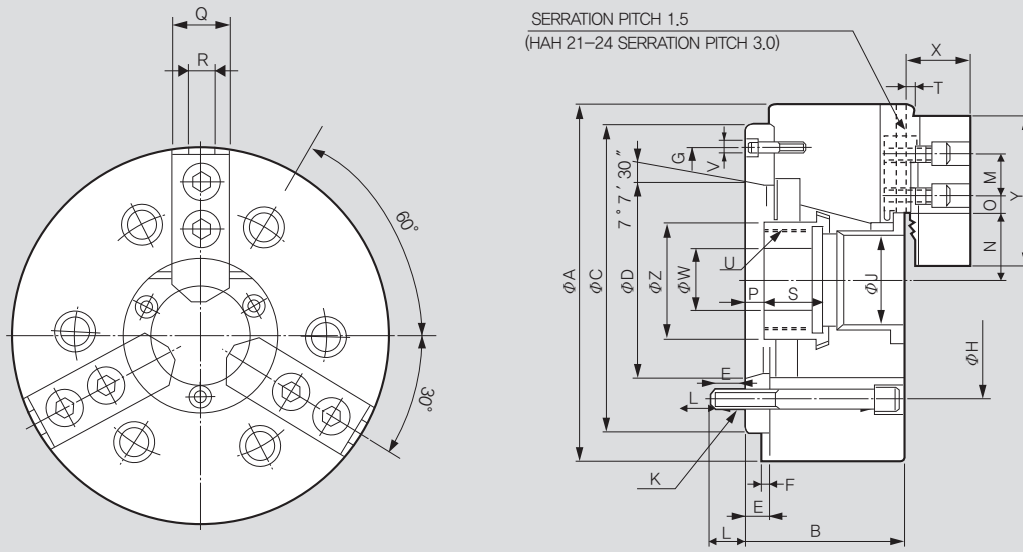
## SPECIFICATIONS

	HCH-18A11	HCH-21A15	HCH-24A15
Spindle Nose	A2-11	A2-15	A2-15
Thru Hole Dia. [mm]	117.5	140	165
Grip Dia. Max. [mm]	450	530	610
Grip Dia. Min. [mm]	30	87	110
Jaw Stroke Dia. [mm]	10.6	10.6	10.6
Plunger Stroke [mm]	23	23	23
Max. Permissible Input Force [kN(kgf)]	71(7240)	90(91770)	90(9177)
Max. Static Gripping Force [kN(kgf)]	180(18355)	234(23861)	234(23861)
Max. r.p.m. [min <sup>-1</sup> ]	2000	1700	1400
Weight [kg]	178	246	304
Moment of inertia [kg·m <sup>2</sup> ]	4.45	8.85	15.8
Operating Cylinder	SD-25411	SD-25411	SDL-30516
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.3(23.5)	3.0(30.6)	3.0(30.6)
Operating Hard Jaw	HB15A1	HB18B2	HB18B2
KITAGAWA® Model	B-18A11	B-21A15	B-24A15

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



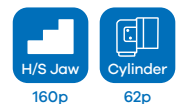
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCH-18A11	HCH-21A15	HCH-24A15
$\varnothing A$	450	530	610
B	149	161	170
$\varnothing C(H6)$	380	380	380
$\varnothing D$	196.869	285.775	285.775
E	22	27	27
F	6	6	6
$\varnothing G$	320	330.2	330.2
$\varnothing H$	235	330.2	330.2
$\varnothing J$	117.5	140	165
K	6-M20x150	6-M22x170	6-M22x180
L	28	34	35
M	43	60	60
N max.	82	98.5	108
N min.	76.7	93.2	102.7
O max.	78.28	87.5	117.5
O min.	18.25	21.5	21.5
P max.	33	38	47
P min.	10	15	24
Q	62	65	65
R	22	25	25
S	39	39	40.5
T	5	5	5
U max.	M130x2.0	M155x3.0	M175x3.0
V	3-M10	3-M12	3-M12
$\varnothing W$	60	80	80
X	70	72	72
Y	165	180	180
$\varnothing Z$	139	170	187

※ Blank and machined draw-nuts are available. "U" is Max. Draw nut size.  
※ HCH-21A15 and HCH24A15 are available with M22 or M24 mounting bolts.

RELATED PRODUCT





# HCHT/HCHF 2-Jaw,4-Jaw Open-Center Chuck



## Application

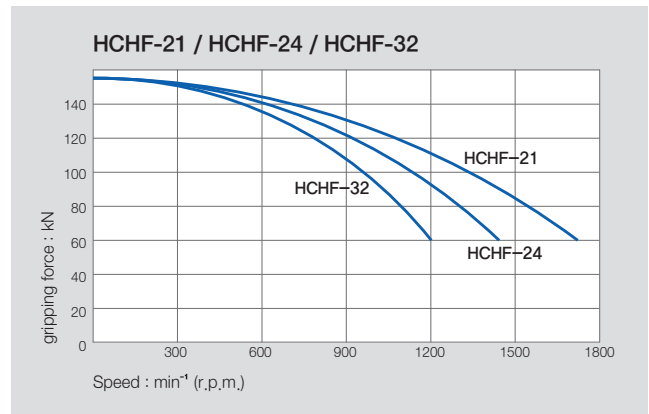
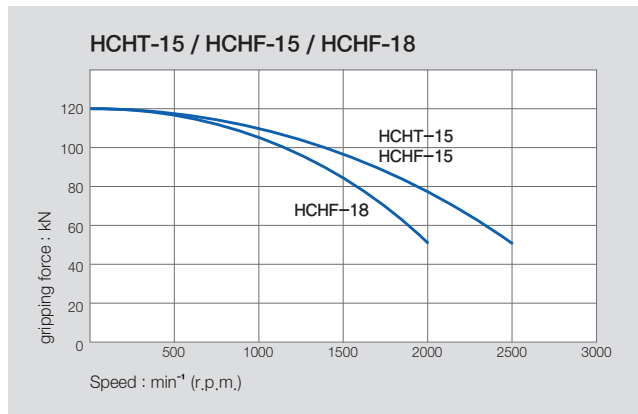
Standard 3-jaw wedge-style open-center chuck

## Technical features

Gripping force transmission by wedge structure

Hardening treatment to assure greatest precision and longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

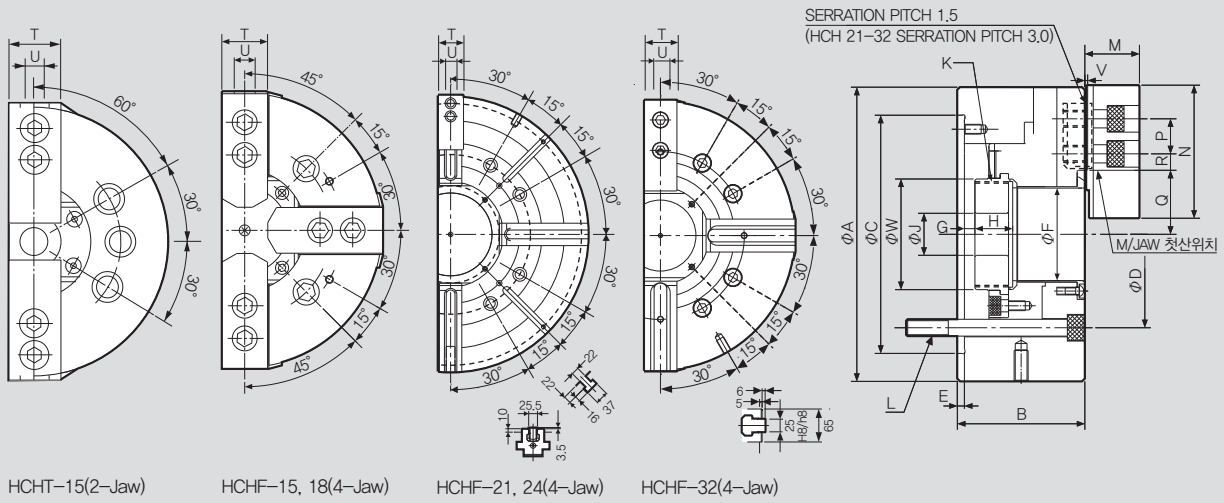
## SPECIFICATIONS

	HCHT-15	HCHF-15	HCHF-18	HCHF-21	HCHF-24	HCHF-32
Thru Hole Dia. [mm]	117.5	117.5	117.5	140	165	240
Grip Dia. Max. [mm]	381	381	450	530	610	800
Grip Dia. Min. [mm]	30	30	30	87	110	160
Jaw Stroke Dia. [mm]	10.6	10.6	10.6	10.6	10.6	18
Plunger Stroke [mm]	23	23	23	23	23	34
Max. Permissible Input Force [kN(kgf)]	47(4793)	47(4793)	47(4793)	60(6117)	60(6117)	67(6795)
Max. Static Gripping Force [kN(kgf)]	120(12236)	120(12236)	120(12236)	156(15907)	156(15907)	160(16309)
Max. r.p.m. [min <sup>-1</sup> ]	2500	2500	2000	1700	1400	1200
Weight [kg]	115	115	159	235	293	530
Moment of inertia [kg·m <sup>2</sup> ]	2.18	2.52	4.82	9.4	16.5	54.2
Operating Cylinder	SD-25411	SD-25411	SD-25411	SD-25411	SD-25411	SDL-30516
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.5(15.3)	1.5(15.3)	1.5(15.3)	1.97(20.1)	1.97(20.1)	2.2(22.4)
Operating Hard Jaw	HB15A1	HB15A1	HB15A1	HB18B2	HB18B2	HB32B2
KITAGAWA® Model	BT-15	-	-	-	-	-

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCHT-15	HCHF-15	HCHF-18	HCHF-21	HCHF-24	HCHF-32
$\Phi A$	381	381	450	530	610	800
B	133	133	133	140	149	150
$\Phi C(H6)$	300	300	380	380	380	520
$\Phi D$	235	235	235	330.2	330.2	463.6
E	6	6	6	6	6	6
$\Phi F$	117.5	117.5	117.5	140	165	240
G max.	11	11	11	11	20	29
G min.	-12	-12	-12	-12	-3	-5
H	39	39	39	39	40.5	34.5
$\Phi J$	60	60	60	80	80	80
K max.	M130x2.0	M130x2.0	M130x2.0	M155x3.0	M175x3.0	M250x3.0
L	6-M20x150	4-M20x130	4-M20x130	8-M22x140	8-M22x150	8-M24x130
M	70	70	70	72	72	83
N	165	165	165	180	180	160
P	43	43	43	60	60	38
Q max.	82	82	82	98.5	108	162.6
Q min.	76.7	76.7	76.7	93.2	102.7	153.6
R max.	43.75	43.75	78.25	87.5	117.5	182
R min.	18.25	18.25	18.25	21.5	21.5	20
T	62	62	62	65	65	75
U	22	22	22	25	25	25.5
V	5	5	5	5	5	10
$\Phi W$	139	139	139	170	187	260

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT



# HC-SE 3-Jaw Sealed Closed-center Chuck



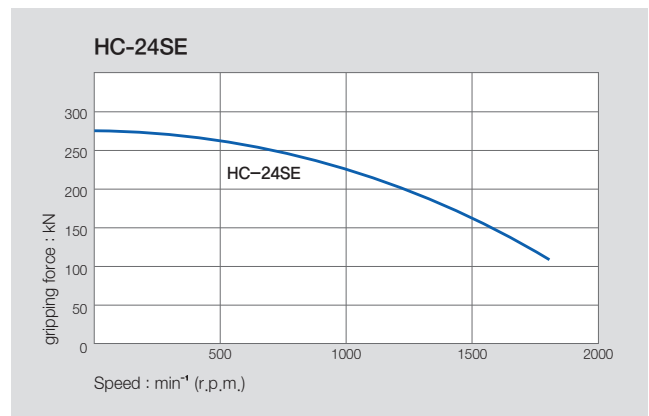
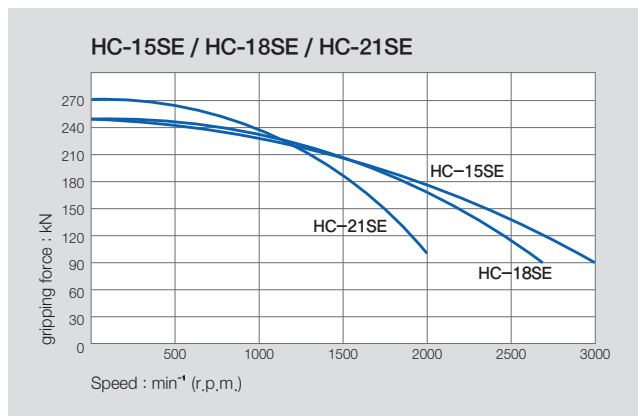
## Application

Sealed against coolant and chips

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

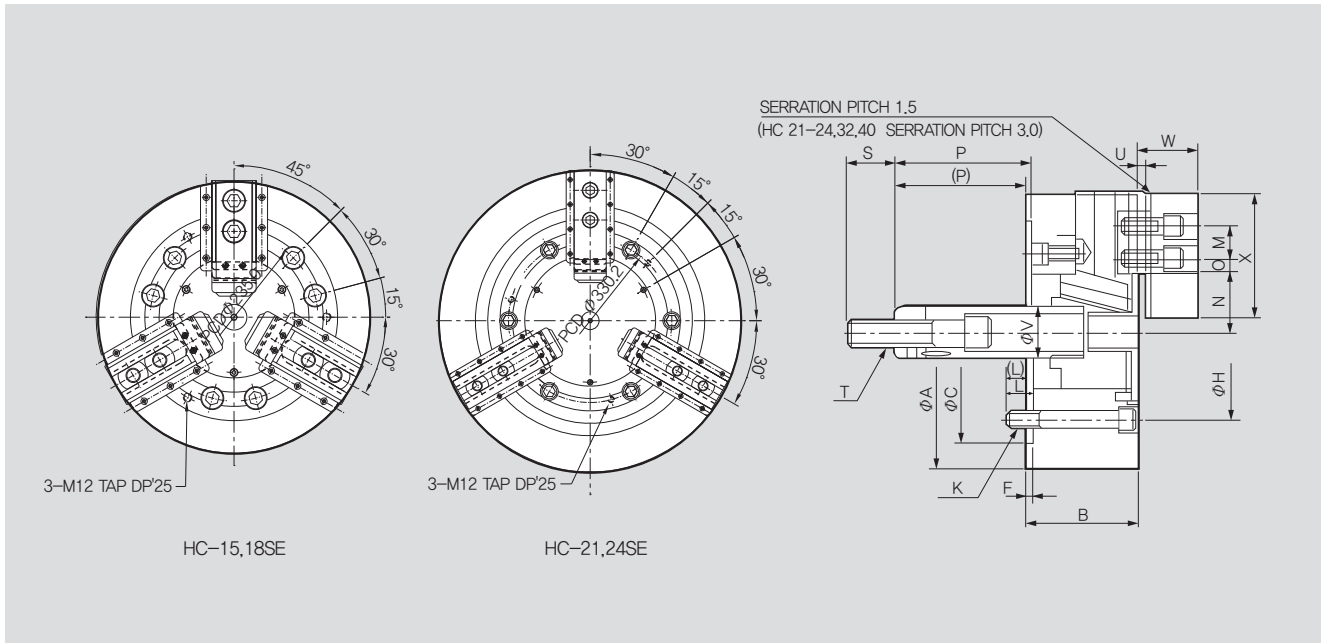
## SPECIFICATIONS

	HC-15SE	HC-18SE	HC-21SE	HC-24SE
Jaw Stroke Dia. [mm]	16	16	16	16
Plunger Stroke [mm]	35	35	35	35
Grip Dia. Max [mm]	381	450	530	610
Grip Dia. Min [mm]	71	133	62	152
Max. Permissible Input Force [kN(kgf)]	82(8362)	82(8362)	82(8362)	82(8362)
Max. Static Gripping Force [kN(kgf)]	249(25391)	249(25391)	273(27838)	273(27838)
Max. r.p.m. [min <sup>-1</sup> ]	3040	2710	1940	1760
Weight [kg]	96	124	180	223
Moment of inertia [kg·m <sup>2</sup> ]	1.8	2.35	4.8	6.925
Max.hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)
Operating Cylinder Hydraulic	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)
Operating Hard Jaw	HB15N1	HB15N1	HB18B2	HB18B2
KITAGAWA® Model	N-15	N-18	N-21	N-24

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ HCF-12 is also available with long stroke.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-15SE	HC-18SE	HC-21SE	HC-24SE
$\Phi A$	381	450	530	610
B	114	114	125	125
$\Phi C(H6)$	300	300	380	380
F	6	6	6	6
$\Phi H$	235.0	235.0	330.2	330.2
K	6-M20x150	6-M20x115	6-M22x120	6-M22x120
L	65	30	31	31
M	43	43	60	60
N max.	77.5	108	86	125
N min.	69.5	100	78	117
O max.	48.75	48.75	93.5	93.5
O min.	23.25	23.25	27.5	27.5
P max.	104	92	97	97
P min.	69	57	62	62
Q	62	62	65	65
R	25.5	25.5	25	25
S	55	55	55	55
T	M30x3.5	M30x3.5	M30x3.5	M30x3.5
U	2	2	3	3
$\Phi V$	60	60	60	60
W	61	61	71	71
X	135	135	180	180

## RELATED PRODUCT



# HC Standard 3-Jaw Closed-Center Chuck (110mm - 304mm)



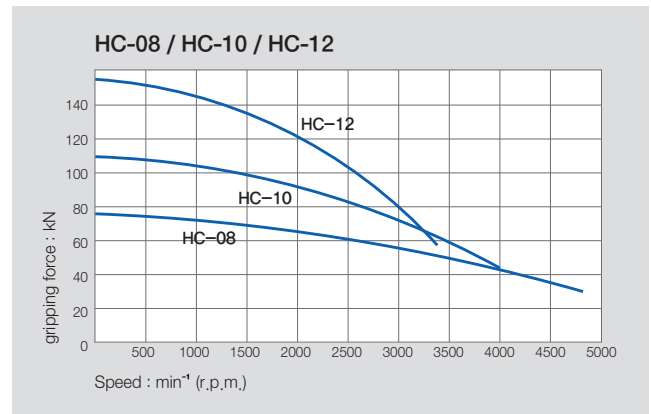
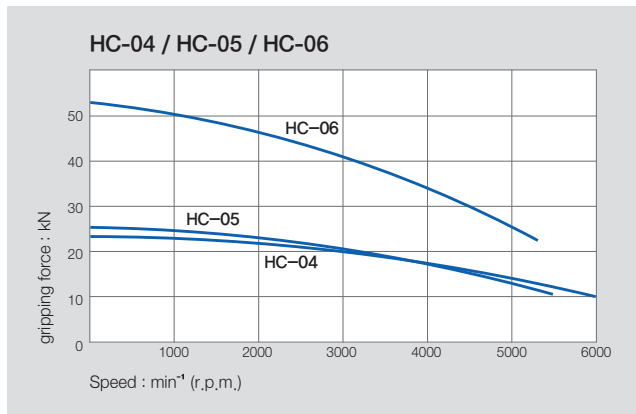
## Application

Standard high-speed 3-Jaw wedge-style closed center power chuck

## Technical features

Gripping force transmission by wedge structure  
Hardening treatment to assure greatest precision and longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

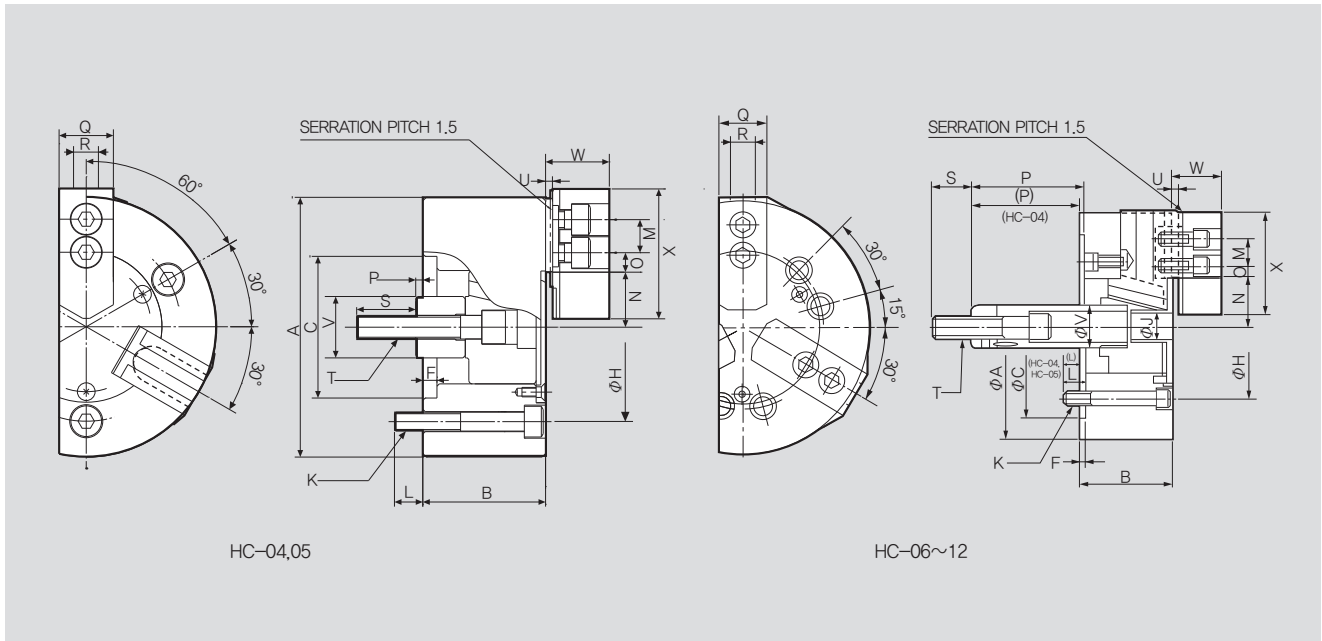
## SPECIFICATIONS

	HC-04	HC-05	HC-06	HC-08	HC-10	HC-12
Jaw Stroke Dia. [mm]	6.4	6.4	8.5	8.8	8.8	10.5
Plunger Stroke [mm]	15	15	18.5	19	25	30
Grip Dia. Max. [mm]	110	135	165	210	254	304
Grip Dia. Min. [mm]	8	16	19	23	24	26
Max. Permissible Input Force [kN(kgf)]	8.2(836)	8.2(836)	18(1835)	25(2549)	29(2957)	41(4181)
Max. Static Gripping Force [kN(kgf)]	22.8(2325)	25.2(2570)	52.5(5353)	75(7648)	108(11013)	156(15907)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5500	5270	4760	4010	3380
Weight [kg]	4.1	6.2	13	25	37	57.3
Moment of inertia [kg·m <sup>2</sup> ]	0.008	0.014	0.042	0.135	0.3	0.72
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.4(24.5)	2.4(24.5)	2.6(26.5)	2.5(25.5)	2.8(28.6)	2.7(27.5)
Operating Cylinder Hydraulic	Y-0715R(RE)	Y-0715R(RE)	Y-1020R(RE)	Y-1225R(RE)	Y-1225R(RE)	Y-1530R(RE)
Operating Cylinder Pneumatic	AY-1315R	AY-1315R	AY-1720R	AY-2225R	AY-2225R	AY-2730R
Operating Hard Jaw	HB04N1	HB04N1	HB06A1	HB08A1	HB10A1	HB12B1
KITAGAWA® Model	N-04	N-05	N-06	N-08	N-10	N-12

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-04	HC-05	HC-06	HC-08	HC-10	HC-12
$\Phi A$	110	135	165	210	254	304
B	52	55	74	85	89	106
$\Phi C(H6)$	60	80	140	170	220	220
F	6	7	5	5	5	6
$\Phi H$	80	100	104.8	133.4	171.4	171.4
$\Phi J$	-	-	21	25	34	34
K	3-M8x55	3-M8x60	6-M10x85	6-M12x100	6-M16x105	6-M16x120
L	12	14	24	30	38	38
M	14	19	20	25	30	30
N max.	23.3	30.4	37.8	46.3	51.1	61
N min.	20.1	27.2	33.55	41.9	46.7	55.75
O max.	11.25	11.25	13.75	22.25	30.75	48.75
O min.	8.25	6.75	7.75	11.75	11.25	12.75
P max.	18	6	100	111	125	163
P min.	3	-9	81.5	92	100	133
Q	23	23	31	35	40	49
R	10	10	12	14	16	18
S	25	35	36	36	38	36
T	M10x1.5	M12x1.75	M16x2.0	M20x2.5	M20x2.5	M24x3.0(단)/ M20x2.5(장)
U	3	3	4	5	5	5
$\Phi V$	26	28	34	38	45	50
W	27	29	34.5	41.5	46	53.5
X	54	62	72	95	110	129

※ The numbers in parentheses in columns P and T are also available upon request.

## RELATED PRODUCT





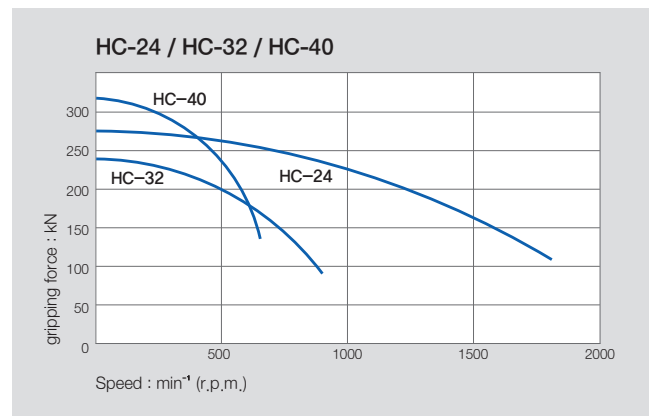
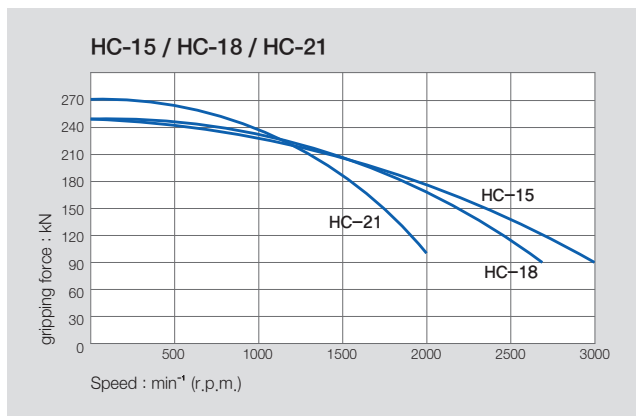
### Application

Standard high-speed 3-Jaw wedge-style closed center power chuck

### Technical features

Gripping force transmission by wedge structure  
Hardening treatment to assure greatest precision and longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

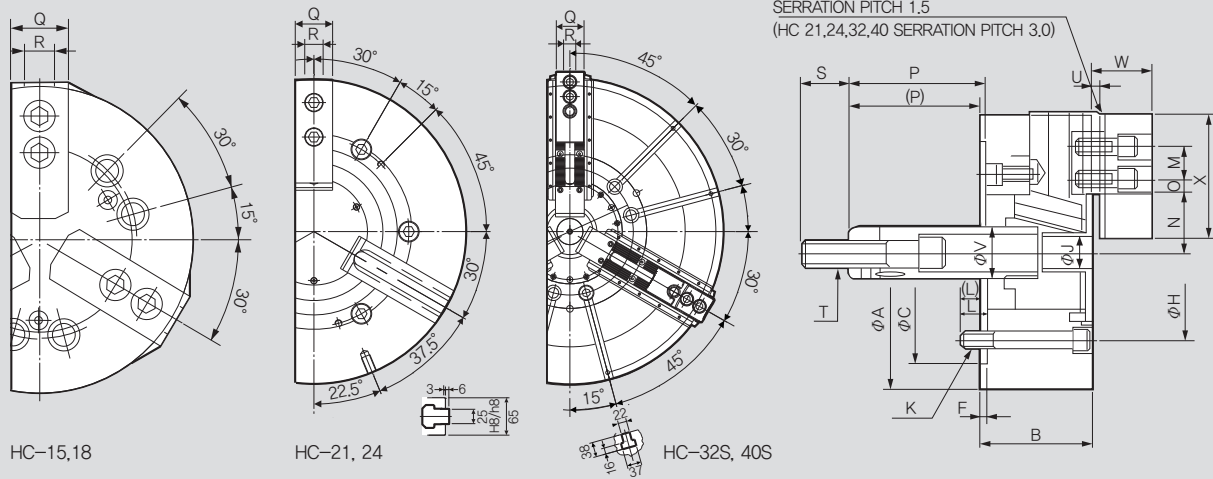
### SPECIFICATIONS

	HC-15	HC-18	HC-21	HC-24	HC-32S	HC-40S
Jaw Stroke Dia. [mm]	16	16	16	16	20	46
Plunger Stroke [mm]	35	35	35	35	38	57
Grip Dia. Max. [mm]	381	450	530	610	800	1000
Grip Dia. Min. [mm]	71	133	62	152	200	330
Max. Permissible Input Force [kN(kgf)]	82(8362)	82(8362)	82(8362)	82(8362)	100(12236)	180(18256)
Max. Static Gripping Force [kN(kgf)]	249(25391)	249(25391)	273(27838)	273(27838)	240(21805)	320(32454)
Max. r.p.m. [min <sup>-1</sup> ]	3040	2710	1940	1760	800	630
Weight [kg]	96	124	180	223	350	600
Moment of inertia [kg·m <sup>2</sup> ]	1.85	3.2	7.1	12.2	38.5	89
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.99(40.8)	3.99(40.8)
Operating Cylinder Hydraulic	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2050R(RE)	Y-2560RE
Operating Hard Jaw	HB15N1	HB15N1	HB18B2	HB18B2	HB32SB2	HB40SB2
KITAGAWA® Model	N-15	N-18	N-21	N-24	-	-

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-15	HC-18	HC-21	HC-24	HC-32S	HC-40S
$\Phi A$	381	450	530	610	800	1000
B	114	114	125	125	150	180
$\Phi C(H6)$	300	300	380	380	380	520
F	6	6	6	6	6	8
$\Phi H$	235	235	330.2	330.2	330.2	463.6
$\Phi J$	27	27	27	27	65	50
K	6-M20X150	6-M20X115	6-M22X120	6-M22X120	6-M24X120	6-M24X140
L	65	30	31	31	39	32
M	43	43	60	60	76.2	120
N max.	77.5	108	86	125	117.3	187.3
N min.	69.5	100	78	117	102.3	164.3
O max.	48.75	48.75	93.5	93.5	234.1	184
O min.	23.25	23.25	27.5	27.5	36	34
P max.	104	92	97	97	38	35
P min.	69	57	62	62	0	-22
Q	62	62	65	65	75	110
R	25.5	25.5	25	25	25.5	30
S	55	55	55	55	70	65
T	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M36x4.0
U	2	2	3	3	8	-4
$\Phi V$	60	60	60	60	55	70
W	60	61	71	71	81	106
X	135	135	180	180	185	270

## RELATED PRODUCT





# HC (groove type)

## 3-Jaw Hydraulic / 4-Jaw Independent Chuck (800mm -1600mm)



### Application

Standard high-speed 3-Jaw wedge-style closed center power chuck

### Technical features

3-Jaw Power Chuck (HC-32G,HC-40G)

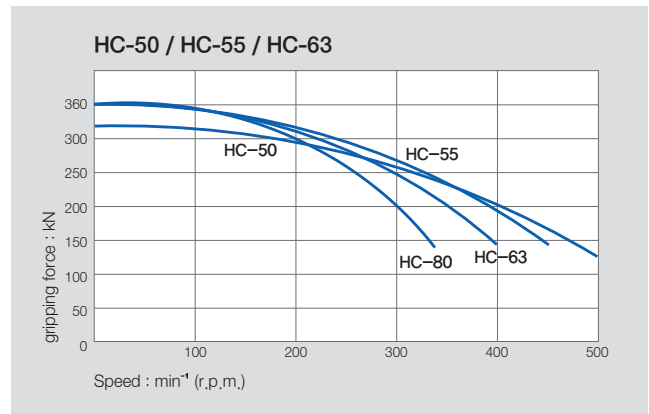
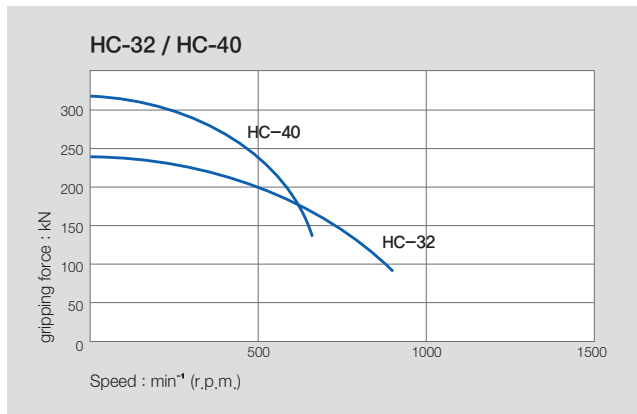
4-Jaw independent closed-center power chuck

(HC-50G,HC-55G,HC-63G)

Gripping force transmission by wedge structure

Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



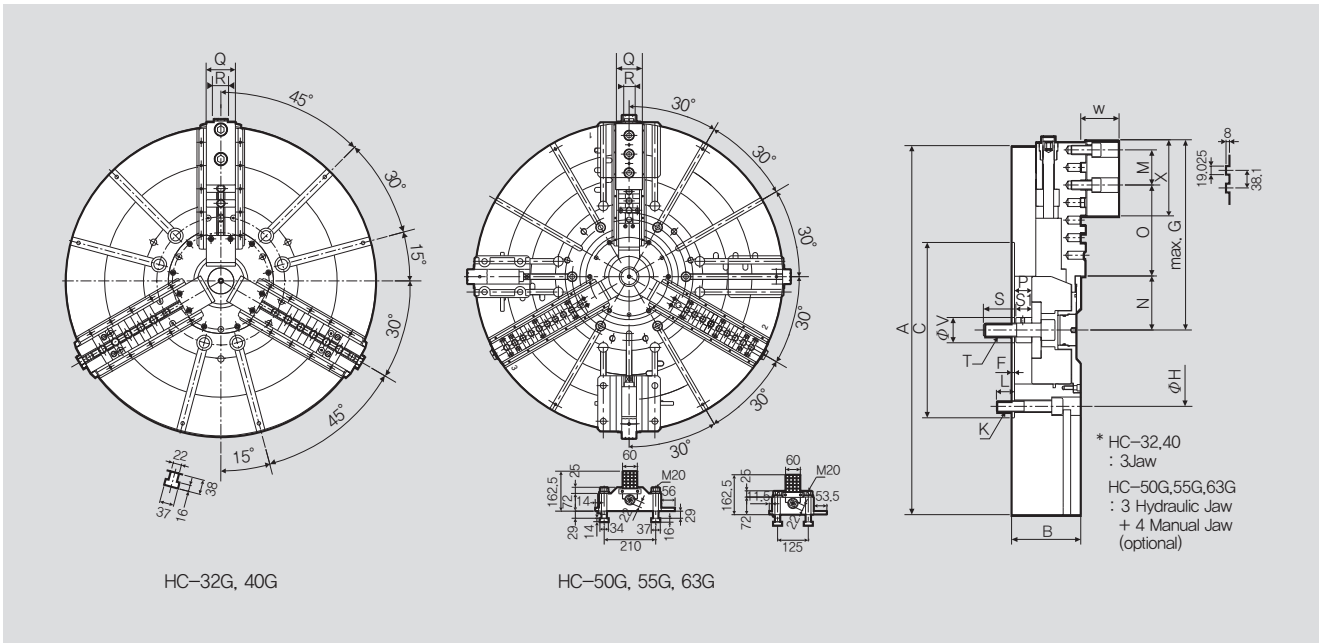
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

### SPECIFICATIONS

	HC-32G	HC-40G	HC-50G	HC-55G	HC-63G
Jaw Stroke Dia. [mm]	20	46	46	48	48
Manual Setting	30	30	30	40	40
Plunger Stroke [mm]	38	57	57	60	60
Grip Dia. Max [mm]	800	1000	1250	1400	1600
Grip Dia. Min [mm]	200	330	330	460	460
Max. Permissible Input Force [kN(kgf)]	100 (12170)	180 (18256)	180 (18256)	200 (20394)	200 (20394)
Max. Static Gripping Force [kN(kgf)]	240 (21805)	320 (32454)	320 (32454)	360 (36710)	360 (36710)
Max. r.p.m. [min <sup>-1</sup> ]	800	630	500	450	400
Weight [kg]	350	600	1000	1350	1850
Moment of inertia [kg·m <sup>2</sup> ]	15.25	43.625	55	70	125
Operating Cylinder	Y-2050RE	Y-2560RE	Y-2560RE	Y-2560RE	Y-2560RE
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.99(40.8)	3.99(40.8)	3.99(40.8)	4.5(46)	4.5(46)
Operating Hard Jaw	HB32GB	HB40GB	HB40GB	HB40GB	HB40GB

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.



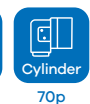
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-32G	HC-40G	HC-50G	HC-55G	HC-63G
$\Phi A$	800	1000	1250	1400	1600
B	150	180	180	220	220
$\Phi C(H6)$	380	520	520	720	720
F	6	8	8	8	8
G	442.5	509.6	623.9	710.6	786.8
$\Phi H$	330.2	463.6	463.6	647.6	647.6
K	M24X120L	M24X140L	M24X110L	M24X160L	M30X160L
L	39	32	32	36	46
M	76.2	76.2	76.2	76.2	76.2
N max.	117.6	217.3	217.3	250	250
N min.	102.7	194.3	194.3	226	226
O max.	196.9	91.1	205.4	259.4	335.6
O min.	44.5	14.9	14.9	68.9	68.9
P max.	38	60	60	82	82
P min.	0	3	3	22	22
Q	75	110	110	110	110
S	70	65	65	65	65
S1	35	35	35	35	35
T	M30x3.5	M36x4.0	M36x4.0	M36x4.0	M36x4.0
$\Phi V$	55	70	70	70	70
W	83	106	106	104	104
X	165	270	270	270	270
a1	12.7	30	30	30	30
a2	8	-4	-4	-6	-6
a3	3	4	4	4	4
a4	75	85	85	110	110

※ HC-32, HC-40 19.025mm key Groove type.

## RELATED PRODUCT



# HC-A 3-Jaw Closed-Center Chuck with Adaptor (165mm - 304mm)



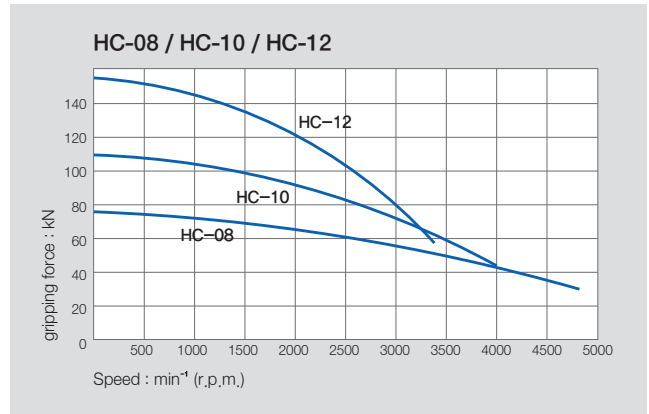
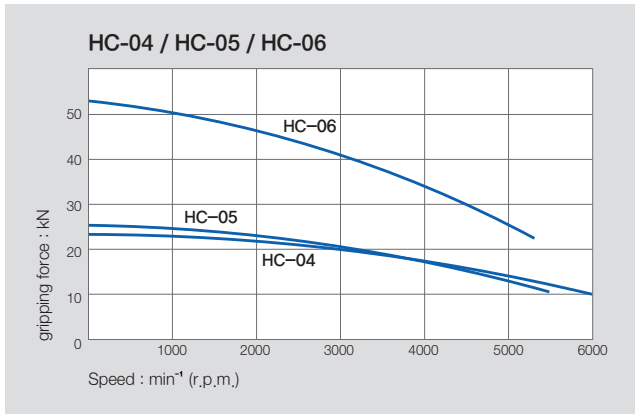
## Application

Standard high-speed 3-Jaw wedge-style closed center power chuck with adaptor

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

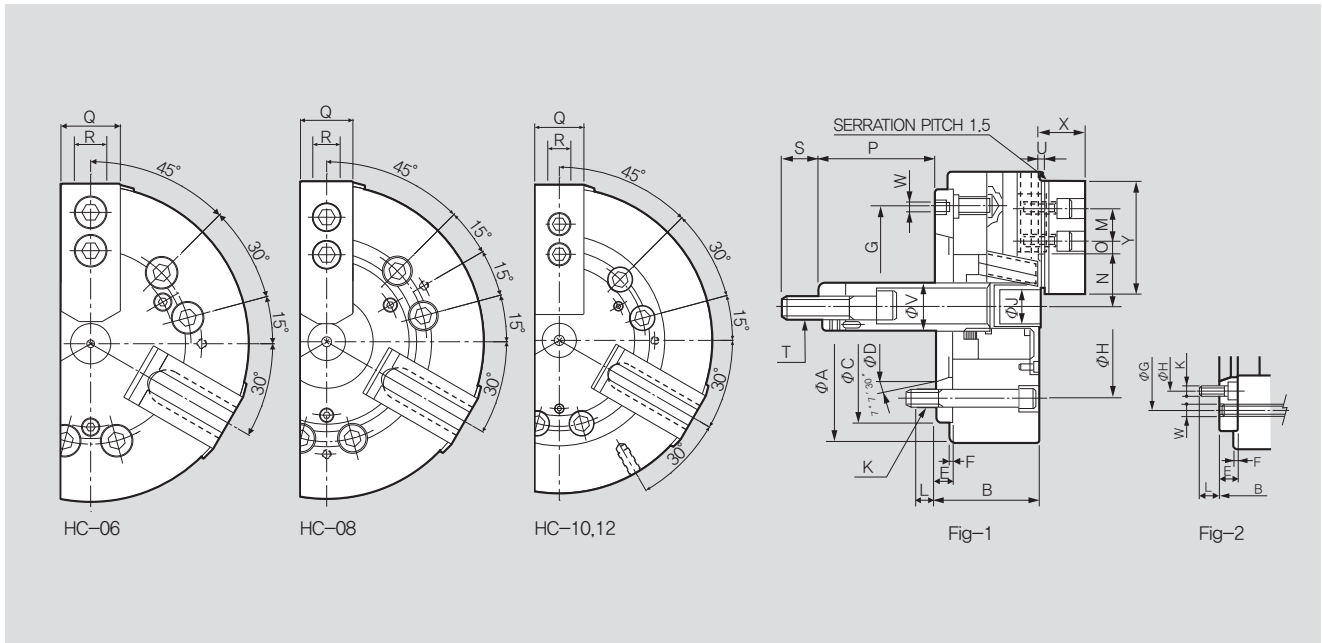
	HC-06A05	HC-08A06	HC-10A06	HC-10A08	HC-12A06	HC-12A08
Spindle Nose No.	A2-5	A2-6	A2-6	A2-8	A2-6	A2-8
Jaw Stroke Dia. [mm]	8.5	8.8	8.8	8.8	10.5	10.5
Plunger Stroke [mm]	18.5	19	25	25	30	30
Grip Dia. Max. [mm]	165	210	254	254	304	304
Grip Dia. Min. [mm]	19	23	24	224	26	26
Max. Permissible Input Force [kN(kgf)]	18(1835)	25(2549)	29(2957)	29(2957)	41(4181)	41(4181)
Max. Static Gripping Force [kN(kgf)]	52.5(5353)	75(7648)	108(11013)	108(11013)	156(15907)	156(15907)
Max. r.p.m. [min <sup>-1</sup> ]	5270	4760	4010	4010	3380	3380
Weight [kg]	14	27	40	40	67	66
Moment of inertia [kg·m <sup>2</sup> ]	0.042	0.135	0.3	0.3	1.85	1.85
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.6(26.5)	2.5(25.5)	2.8(28.6)	2.8(28.6)	2.7(27.5)	2.7(27.5)
Operating Cylinder Hydraulic	Y-1020R(RE)	Y-1225R(RE)	Y-1225R(RE)	Y-1225R(RE)	Y-1530R(RE)	Y-1530R(RE)
Operating Cylinder Pneumatic	AY-1720R	AY-2225R	AY-2225R	AY-2225R	AY-2730R	AY-2730R
Operating Hard Jaw	HB06A1	HB08A1	HB10A1	HB10A1	HB12A1	HB12A1
KITAGAWA® Model	N-06A05	N-08A06	N-10A06	N-10A08	N-12A06	N-12A08

※ Refer to Fig-2 for HC-10A06 and HC-12A06.

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



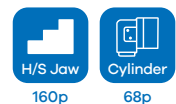
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-06A05	HC-08A06	HC-10A06	HC-10A08	HC-12A06	HC-12A08
$\varnothing A$	165	210	254	254	304	304
B	84	97	109	102	125	118
$\varnothing C(H6)$	140	170	220	220	220	220
$\varnothing D$	82.563	106.375	106.375	139.719	106.375	139.719
E	15	17	25	18	25	18
F	5	5	5	5	6	6
$\varnothing G$	116	150	171.4	190	171.4	190
$\varnothing H$	104.8	133.4	133.4	171.4	133.4	171.4
$\varnothing J$	21	25	34	34	34	34
K	6-M10	6-M12	6-M16	6-M16	6-M16	6-M16
L	14	18	18.5	25	18	25
M	20	25	30	30	30	30
N max.	37.8	46.3	51.1	51.1	61	61
N min.	33.55	41.9	46.7	46.7	55.75	55.75
O max.	13.75	22.25	30.75	30.75	48.75	48.75
O min.	7.75	11.75	11.25	11.25	12.75	12.75
P max.	85	92(108)	94(133)	101(140)	117(138)	124(145)
P min.	66.5	73(89)	69(108)	76(115)	87(108)	94(115)
Q	31	35	40	40	49	49
R	12	14	16	16	18	18
S	35.8	36	38	38	36	36
T	M16x2.0	M20x2.5	M20x2.5	M20x2.5	M24x3.0(M20x2.5)	M24x3.0(M20x2.5)
U	4	5	5	5	5	5
$\varnothing V$	34	38	45	45	50	50
W	3-M6	3-M6	6-M16	3-M8	6-M16	3-M8
X	34.5	41.5	46	46	53.5	53.5

※ Blank and machined draw-nuts are available. 'U' is Max. Draw nut size.

RELATED PRODUCT



# HC-A

## 3-Jaw Closed-Center Chuck with Adaptor (381mm - 610mm)



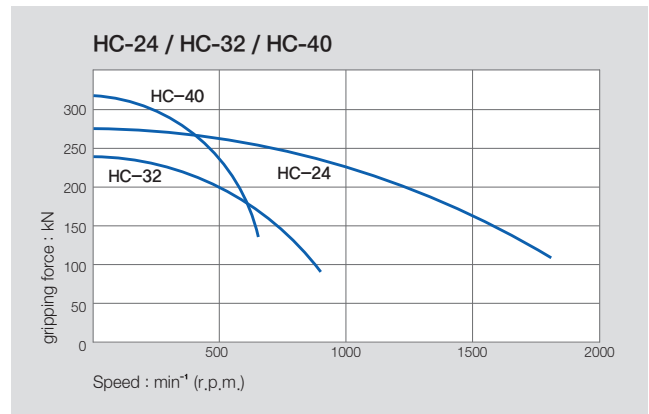
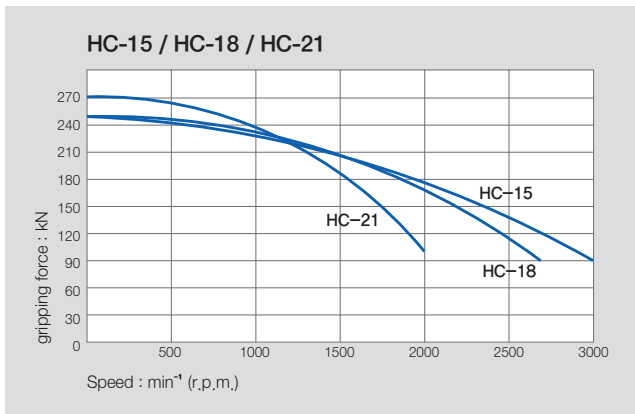
### Application

Standard high-speed 3-Jaw wedge-style closed center power chuck with adaptor

### Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

### SPECIFICATIONS

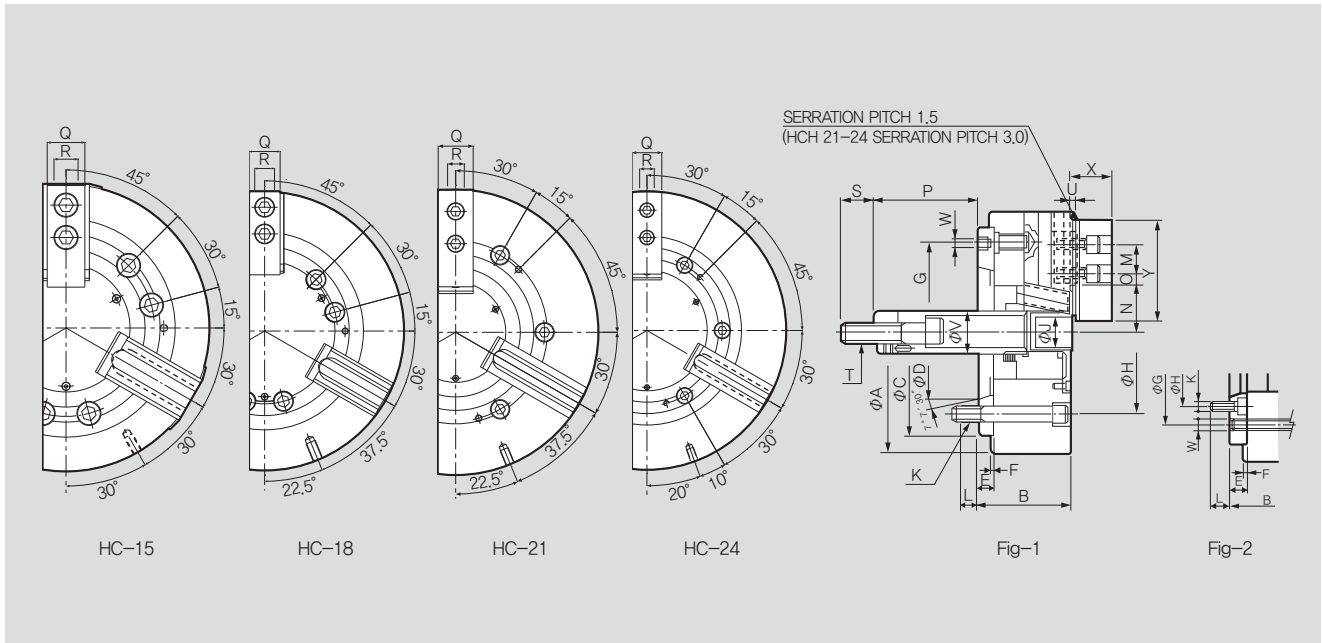
	HC-15A08	HC-15A11	HC-18A08	HC-18A11	HC-21A11	HC-21A15	HC-24A11	HC-24A15
Spindle Nose No.	A2-8	A2-11	A2-8	A2-11	A2-11	A2-15	A2-11	A2-15
Jaw Stroke Dia. [mm]	16	16	16	16	16	16	16	16
Plunger Stroke [mm]	35	35	35	35	35	35	35	35
Grip Dia. Max. [mm]	381	381	450	450	530	530	610	610
Grip Dia. Min. [mm]	71	71	133	133	62	62	152	152
Max. Permissible Input Force [kN(kgf)]	82(8362)	82(8362)	82(8362)	82(8362)	82(8362)	82(8362)	82(8362)	82(8362)
Max. Static Gripping Force [kN(kgf)]	249(25391)	249(25391)	249(25391)	249(25391)	273(27838)	273(27838)	273(27838)	273(27838)
Max. r.p.m. [min <sup>-1</sup> ]	3040	3040	2710	2710	1940	1940	1760	1760
Weight [kg]	105	103	134	131	198	190	241	234
Moment of inertia [kg·m <sup>2</sup> ]	1.85	1.85	3.2	3.2	7.1	7.1	12.2	12.2
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)	3.2(32.6)
Operating Cylinder Hydraulic	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)
Operating Hard Jaw	HB15N1	HB15N1	HB15N1	HB15N1	HB18B2	HB18B2	HB18B2	HB18B2
KITAGAWA® Model	N-15A08	N-15A08	N-18A11	N-18A11	N-21A11	N-21A15	N-24A11	N-24A15

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Refer to Fig-2 for HC-15A08, HC-18A08, HC-21A11, HC-24A11.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

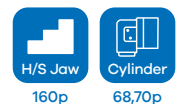


※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HC-15A08	HC-15A11	HC-18A08	HC-18A11	HC-21A11	HC-21A15	HC-24A11	HC-24A15
$\Phi A$	381	381	450	450	530	530	610	610
B	141	130	141	130	161	146	161	146
$\Phi C(H6)$	300	300	300	300	380	380	380	380
$\varnothing D$	139.719	196.869	139.719	196.869	196.869	285.775	196.869	285.775
E	33	22	33	22	42	27	42	27
F	6	6	6	6	6	6	6	6
$\varnothing G$	235	260	235	260	330.2	330.2	330.2	330.2
$\varnothing H$	171.4	235	171.4	235	235	330.2	235	330.2
$\varnothing J$	27	27	27	27	27	27	27	27
K	6-M20	6-M20	6-M20	6-M20	6-M22	6-M22	6-M22	6-M22
L	24	33	24	33	29	34	29	34
M	43	43	43	43	60	60	60	60
N max.	77.5	77.5	108	108	86	86	125	125
N min.	69.5	69.5	100	100	78	78	117	117
O max.	48.75	48.75	48.75	48.75	93.5	93.5	93.5	93.5
O min.	23.25	23.25	23.25	23.25	27.5	27.5	27.5	27.5
P max.	71	82	59	70	55	70	55	70
P min.	36	47	24	35	20	35	20	35
Q	50	50	50	50	65	65	65	65
R	25.5	25.5	25.5	25.5	25	25	25	25
S	55	55	55	55	55	55	55	55
T	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5
U	2	2	2	2	3	3	3	3
$\Phi V$	60	60	60	60	60	60	60	60
W	6-M20	3-M10	6-M20	3-M10	6-M22	3-M12	6-M22	6-M12
X	60	60	61	61	71	71	70	70

RELATED PRODUCT



# HCT 2-Jaw Closed-Center Chuck



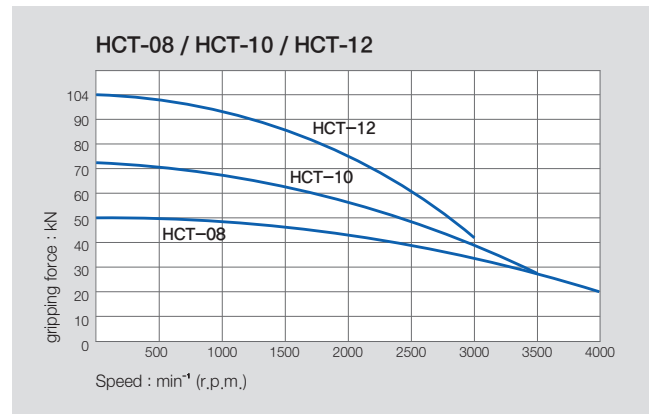
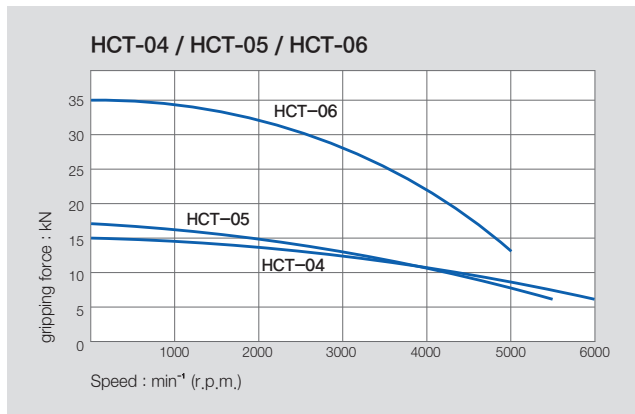
## Application

High-speed 2-Jaw wedge-style closed center power chuck

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

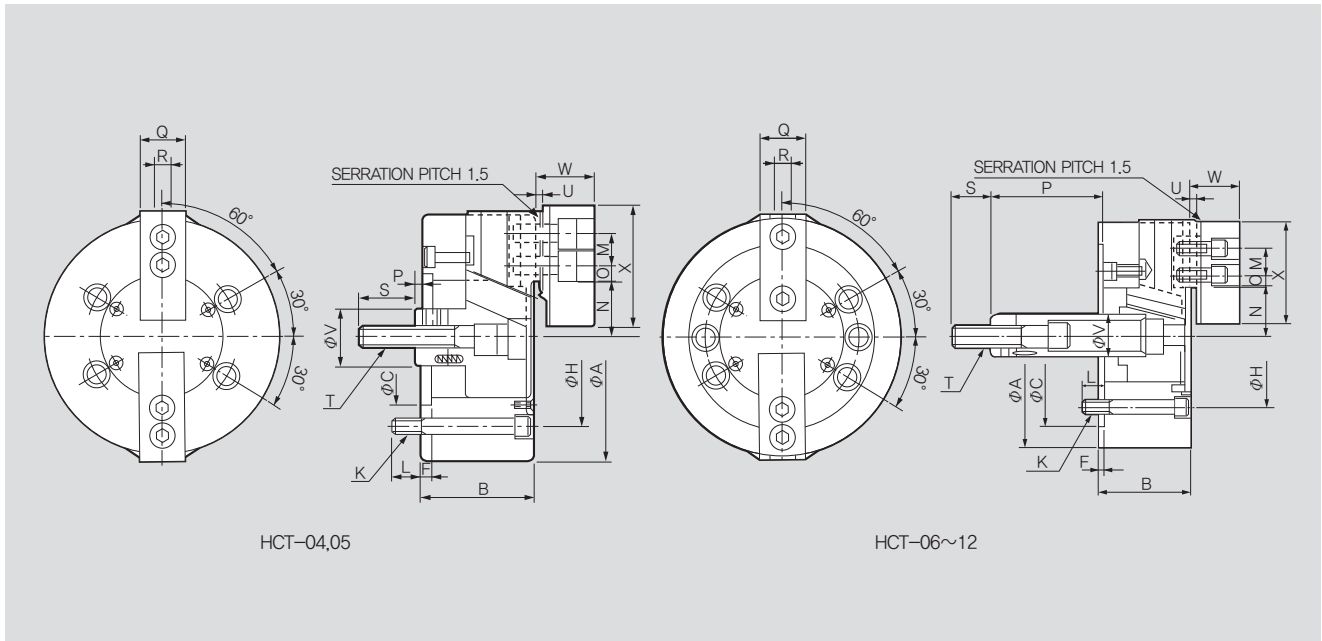
## SPECIFICATIONS

	HCT-04	HCT-05	HCT-06	HCT-08	HCT-10	HCT-12
Jaw Stroke Dia. [mm]	6.4	6.4	8.5	8.8	8.8	10.5
Plunger Stroke [mm]	14	14	18.5	19	25	30
Grip Dia. Max [mm]	110	135	165	210	254	310
Grip Dia. Min [mm]	5	16	14	17	22	22
Max. Permissible Input Force [kN(kgf)]	5.3(540)	5.3(540)	12(1224)	16.5(1683)	19.5(1988)	27.5(2804)
Max. Static Gripping Force [kN(kgf)]	15.2(1550)	16.9(1713)	35(3569)	50(5099)	72(7342)	104(10605)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5500	5500	4000	3500	3000
Weight [kg]	3.8	5.8	11.4	22	31.6	55
Moment of inertia [kg·m <sup>2</sup> ]	0.007	0.013	0.04	0.13	0.293	0.68
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.68(17.1)	1.68(17.1)	1.7(17.3)	1.6(16.3)	1.9(19.4)	1.8(18.4)
Operating Cylinder	Y-0715R	Y-0715R	Y-1020R	Y-1225R	Y-1225R	Y-1530R
KITAGAWA® Model	NT-04	NT-05	NT-06	NT-08	NT-10	NT-12

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



HCT-04,05

HCT-06~12

※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCT-04	HCT-05	HCT-06	HCT-08	HCT-10	HCT-12
ΦA	110	135	165	210	254	304
B	52	55	74	85	89	106
ΦC(H6)	60	80	140	170	220	220
F	6	7	5	5	5	6
ΦH	80	100	104.8	133.4	171.4	171.4
K	4-M8x55	4-M8x60	6-M10x70	6-M12x85	6-M16x85	6-M16x100
L	12	14	14	20	18	18
M	14	19	20	25	30	30
N max.	23.3	30.4	37.8	46.3	51.1	61
N min.	20.1	27.2	33.55	41.9	46.7	55.75
O max.	11.25	11.25	13.75	22.25	30.75	48.75
O min.	8.25	6.75	7.75	11.75	11.25	12.75
P max.	17	6	100	125	158	163
P min.	3	-8	81.5	106	133	133
Q	23	23	31	35	40	49
R	10	10	12	14	16	18
S	25	35	36	36	36	36
T	M10x1.5	M12x1.75	M16x2.0	M20x2.5	M20x2.5	M20x2.5
U	3	3	4	5	5	5
ΦV	26	28	34	38	45	50
W	27	29	35	42	46	53.5
X	54	62	72	95	110	129

## RELATED PRODUCT





# HCF 4-Jaw Closed-Center Chuck



## Application

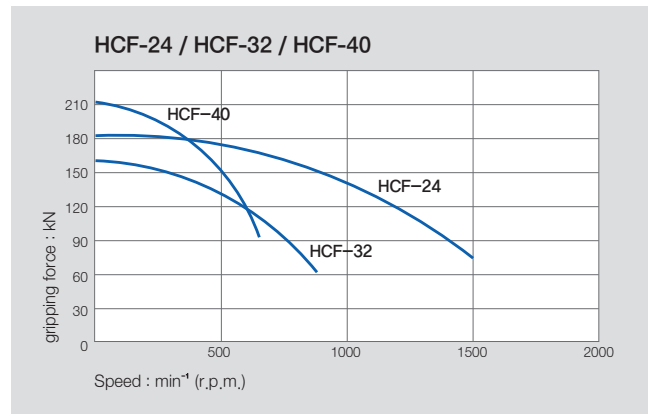
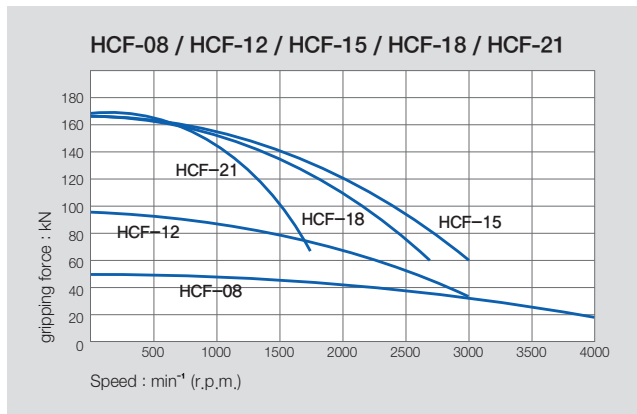
High-speed 4-Jaw wedge-style closed center power chuck

## Technical features

Gripping force transmission by wedge structure

Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

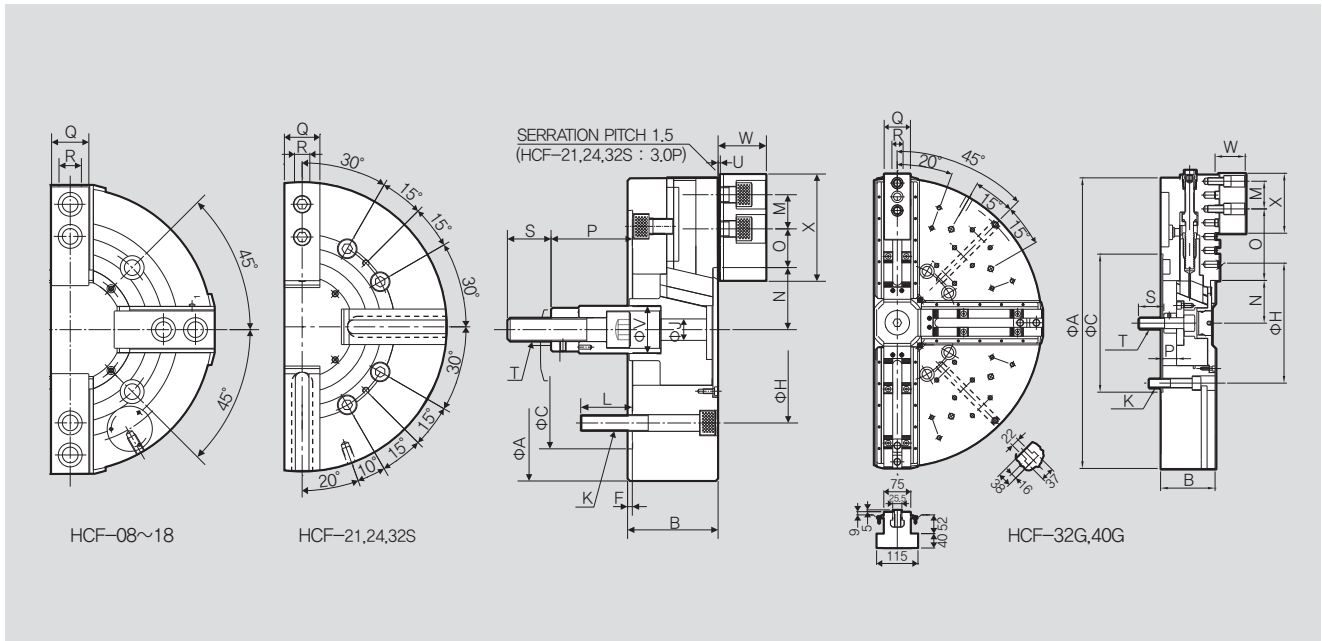
## SPECIFICATIONS

	HCF-08	HCF-12	HCF-15	HCF-18	HCF-21	HCF-24	HCF-32	HCF-40
Jaw Stroke Dia. [mm]	8.8	10.5	16	16	16	16	20	46
Plunger Stroke [mm]	19	30	35	35	35	35	38	57
Grip Dia. Max [mm]	210	304	381	450	530	610	800	1000
Grip Dia. Min [mm]	17	26	71	133	62	152	85	150
Max. Permissible Input Force [kN(kgf)]	16.5(1638)	27.5(2804)	54.6(5575)	54.6(5575)	54.6(5575)	54.6(5575)	88(8925)	120(12245)
Max. Static Gripping Force [kN(kgf)]	50(5099)	104(10605)	165.8(16927)	165.8(16927)	183(18550)	183(18550)	156(15821)	213(21769)
Max. r.p.m. [min <sup>-1</sup> ]	4000	3000	3040	2710	1700	1500	800	630
Weight [kg]	22	55	98	124	180	223	350	620
Moment of inertia [kg·m <sup>2</sup> ]	0.14	0.76	2.02	3.57	7.6	12.9	41.2	94
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	1.6(16.3)	1.8(18.4)	2.13(21.7)	2.13(21.7)	2.13(21.7)	2.13(21.7)	3(30.6)	2.7(27.2)
Operating Cylinder	Y-1225R(RE)	Y-1530R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2035R(RE)	Y-2050RE	Y-2560RE
Operating Hard Jaw	HB08A1	HB12B1	HB15N1	HB15N1	HB18B2	HB18B2	HB32SB2	HB40SB2

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ HCF-12 is also available with long stroke.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

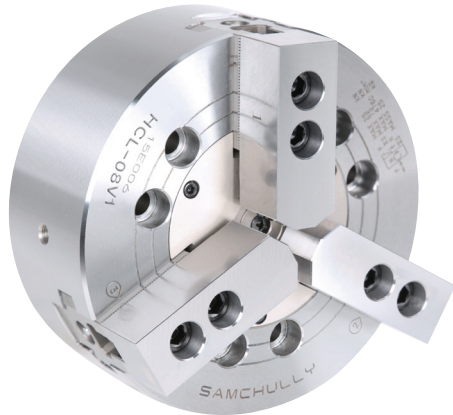
	HCF-08	HCF-12	HCF-15	HCF-18	HCF-21	HCF-24	HCF-32S	HCF-32G	HCF-40G
$\Phi A$	210	304	381	450	530	610	800	800	1000
B	85	106	114	114	125	125	150	150	180
$\Phi C(H6)$	170	220	300	300	380	380	380	380	520
F	5	6	6	6	6	6	6	6	8
$\Phi H$	150	171.4	235	235	330.2	330.2	330.2	330.2	463.6
$\Phi J$	25	34	27	27	27	27	65	65	32
K	6-M12	4-M16	4-M20	4-M20	8-M22	8-M22	8-M24x160L	8-M24x120L	8-M24X120L
L	30	38	65	30	31	31	41	39	32
M	25	30	43	43	60	60	76.2	76.2	76.2
N max.	46.3	61	78	108	86	125	99.4	117.6	217.3
N min.	41.9	55.7	70	100	78	117	89.4	107.7	194.3
O max.	22.25	48.75	48.75	48.75	93.5	93.5	212.5	196.9	91.1
O min.	11.75	12.75	23.25	23.25	27.5	27.5	32.5	44.5	14.9
P max.	125	163	104	87	97	97	3	3	60
P min.	106	133	69	52	62	62	-35	-35	0
Q	35	49	50	50	65	65	75	75	110
R	14	18	26	25.5	25	25	25.5	25.5	30
S	36	36	55	59	55	55	73	70	65
T	M20x2.5	M20x2.5	M30x3.5	M30x3.5	M30x3.5	M30x3.5	M36x4	M30x3.5	M36x4.0
U	5	5	2	2	3	3	9	5	4
$\Phi V$	38	50	60	60	57	60	100	55	70
W	42	53.5	61	61	71	70	82	84	106
X	95	129	135	135	180	180	185	165	270

※ Blank and machined draw-nuts are available. Groove type is standard model on HCF-32G and HCF-40G.

※ HCF-21 and HCF-24 are available with M22 to M24 mounting bolts.

## RELATED PRODUCT





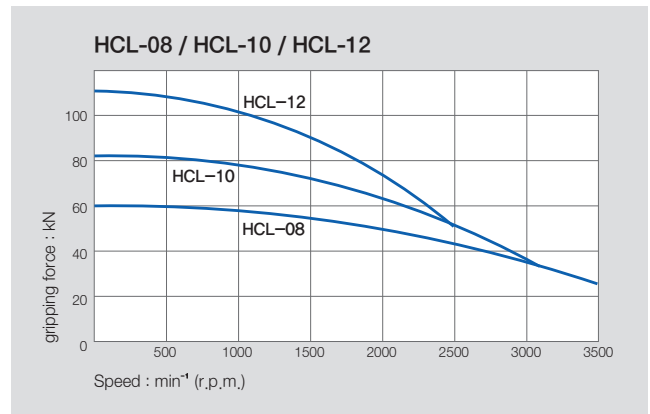
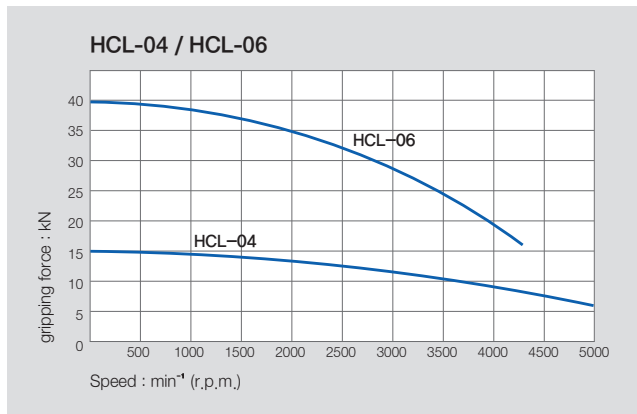
### Application

High-speed 3-Jaw wedge-style closed center power chuck (long stroke)

### Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

### Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

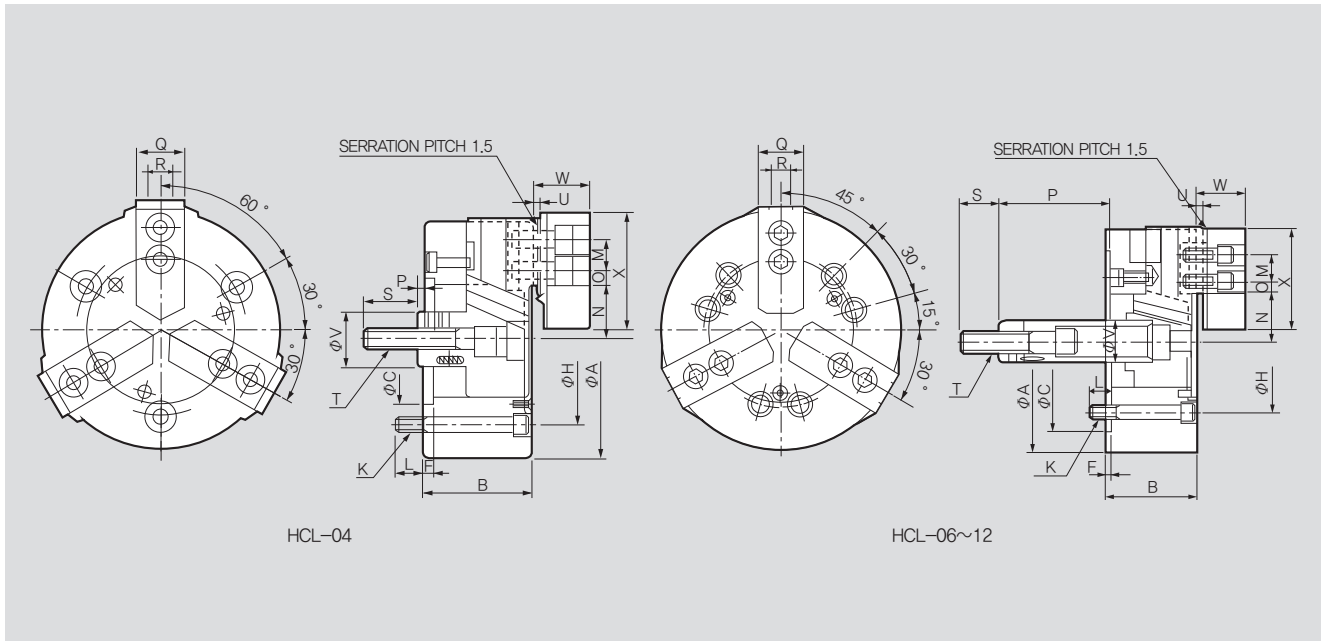
### SPECIFICATIONS

	HCL-04	HCL-06	HCL-08	HCL-10	HCL-12
Jaw Stroke Dia. [mm]	12.1	13	16.2	18.1	19.4
Plunger Stroke [mm]	15	20	25	28	30
Grip Dia. Max [mm]	110	165	210	254	304
Grip Dia. Min [mm]	12	22	23	27	33
Max. Permissible Input Force [kN(kgf)]	10(1020)	21(2141)	30(3059)	40(4079)	54(5506)
Max. Static Gripping Force [kN(kgf)]	14.4(1468)	39(3977)	60(6118)	81(8260)	111(11319)
Max. r.p.m. [min <sup>-1</sup> ]	5000	4300	3600	3100	2500
Weight [kg]	4.1	12	22.9	34.6	60
Moment of inertia [kg·m <sup>2</sup> ]	0.008	0.045	0.138	0.3	0.725
Max.hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.9(29.6)	3.0(29.6)	2.9(29.6)	2.8(28.6)	3.6(36.7)
Operating Cylinder	Y-0715R(RE)	Y-1020R(RE)	Y-1225R(RE)	Y-1530R(RE)	Y-1530R(RE)
Operating Hard Jaw	HB04N1	HB06A1	HB08A1	HB10A1	HB12B1
KITAGAWA® Model	NL-04	NT-06	NT-08	NT-10	NT-12

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCL-04	HCL-06	HCL-08	HCL-10	HCL-12
$\Phi A$	110	165	210	254	304
B	52	74	85	89	106
$\Phi C(H6)$	60	140	170	220	220
F	6	5	5	5	6
$\Phi H$	80	104.8	133.4	171.4	171.4
K	3-M8	6-M10	6-M12	6-M16	6-M16
L	12	14	20	18	18
M	14	20	25	30	30
N max.	26.5	40.5	48.1	54.4	65.7
N min.	20.45	34	40	43.35	56
O max.	9.75	13.75	20.75	29.5	42.75
O min.	6.75	9.25	11.75	11.5	12.25
P max.	18	101.5	131	161	163
P min.	3	81.5	106	133	133
Q	23	31	35	40	50
R	10	12	14	16	18
S	25	36	36	36	36
T	M10x1.5	M16x2.0	M20x2.5	M20x2.5	M20x2.5
U	3	4	5	5	5
$\Phi V$	26	34	38	45	50
W	27	35	42	46	54
X	55	72	95	110	129

## RELATED PRODUCT



# HCLT / HCLF 2-Jaw, 4-Jaw Closed-Center Long-Stroke Chuck



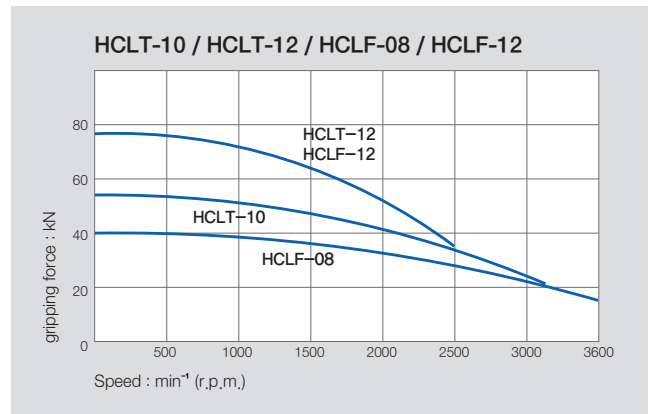
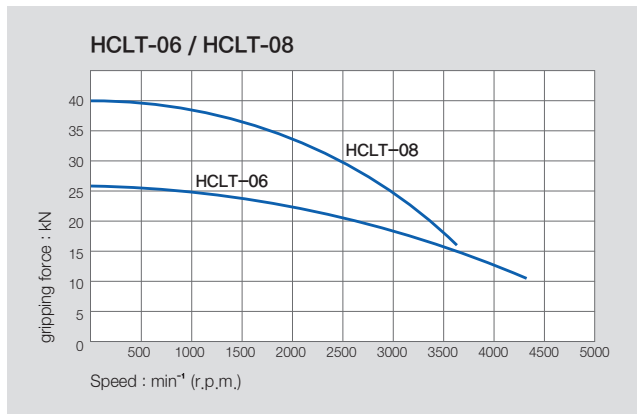
## Application

High-speed 2-Jaw, 4-Jaw wedge-style closed center power chuck (long stroke)

## Technical features

Gripping force transmission by wedge structure  
Greatest precision and Hardening treatment of major part to maintain longer chuck life

## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

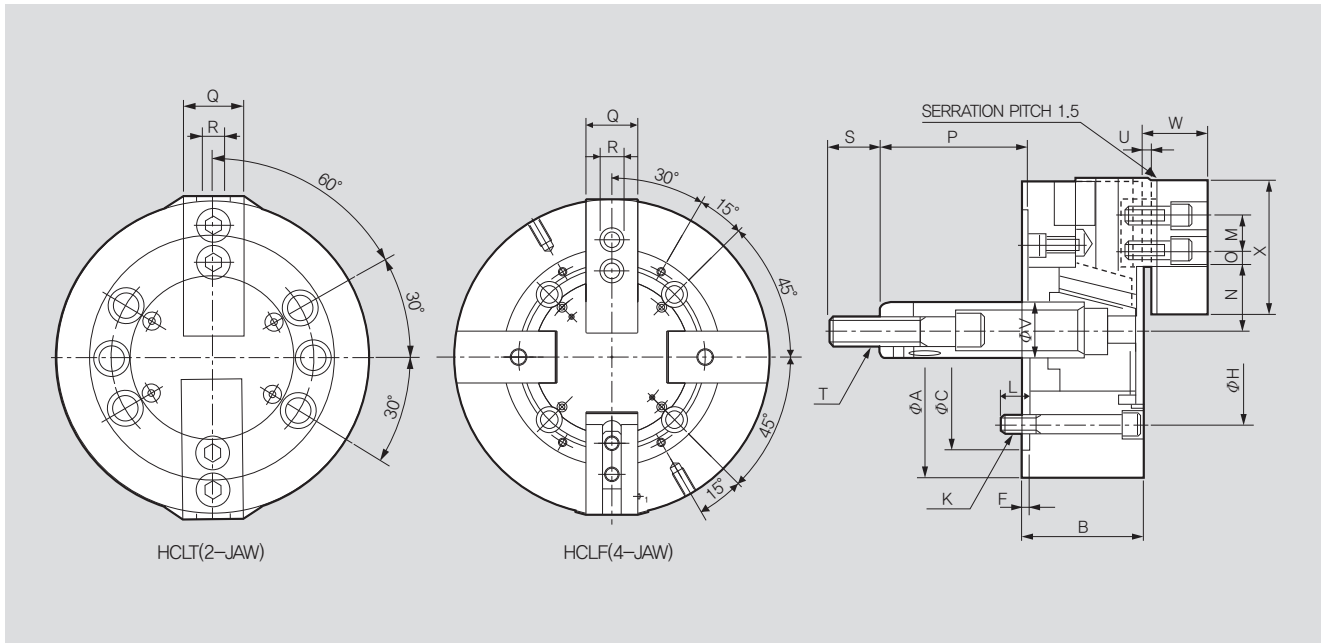
## SPECIFICATIONS

	HCLT-06	HCLT-08	HCLT-10	HCLT-12	HCLF-08	HCLF-12
Jaw Stroke Dia. [mm]	13	16.2	18.1	19.4	16.2	19.4
Plunger Stroke [mm]	20	25	28	30	25	30
Grip Dia. Max [mm]	165	210	254	304	210	304
Grip Dia. Min [mm]	22	24	27	33	24	33
Max. Permissible Input Force [kN(kgf)]	14(1428)	20(2039)	27(2753)	36(3671)	20(2039)	36(3671)
Max. Static Gripping Force [kN(kgf)]	26(2651)	40(4079)	54(5508)	74(7546)	40(4079)	74(7546)
Max. r.p.m. [min <sup>-1</sup> ]	4300	3600	3100	2500	3600	2500
Weight [kg]	12.5	12.5	35.5	60.5	24	60.5
Moment of inertia [kg·m <sup>2</sup> ]	0.043	0.133	0.293	0.71	0.132	0.71
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	2.06(21.0)	2.03(20.7)	1.93(19.7)	2.50(25.5)	2.03(20.7)	2.50(25.5)
Operating Cylinder	Y-1020R	Y-1225R	Y-1530R	Y-1530R	Y-1225R	Y-1530R
KITAGAWA® Model	NLT-06	NLT-08	NLT-10	NLT-12	NLT-08	NLT-12

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.

※ Samchully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	HCLT-06	HCLT-08	HCLT-10	HCLT-12	HCLF-08	HCLF-12
$\Phi A$	165	210	254	304	210	304
B	74	85	89	106	85	106
$\Phi C(H6)$	140	170	220	220	170	220
F	5	5	5	6	5	6
$\Phi H$	104.8	133.4	171.4	171.4	133.4	171.45
K	6-M10x70	6-M12x85	6-M16x105	6-M16x120	4-M16x85	4-M16x120
L	14	20	38	38	20	38
M	20	25	30	30	25	30
N max.	40.5	48.1	54.4	65.7	48.1	65.7
N min.	34	40	45.35	56	40	56
O max.	13.75	21	29.5	42.75	21	42.75
O min.	9.25	12	11.5	12.25	12	12.25
P max.	101.5	131	161	163	131	163
P min.	81.5	106	133	133	106	133
Q	31	35	40	50	35	50
R	12	14	16	18	14	18
S	36	36	36	36	36	36
T	M16x2.0	M20x2.5	M20x2.5	M20x2.5	M20x2.5	M20x2.5
U	4	5	5	5	5	5
$\Phi V$	34	38	45	50	38	50
W	35	42	46	54	42	54
X	72	95	110	129	95	129

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT



# IDF Self centering 2+2 Jaw Power Chuck



## Application

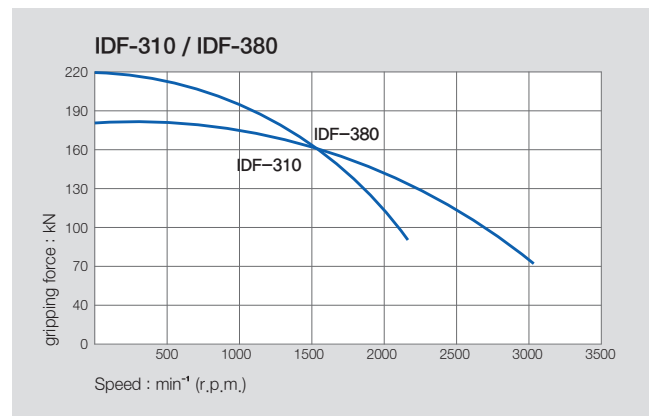
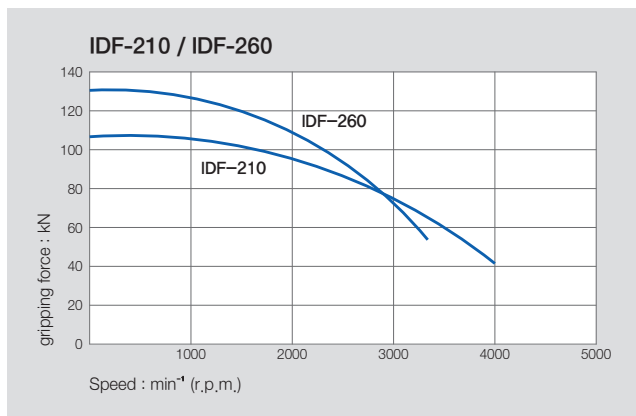
High precision self-centering 4-Jaw power chuck(2+2 Jaw)

## Technical features

Ideal for rectangular and square work pieces self-centering in two axes

Single wedge actuation does not require dual-piston cylinder  
2+2 Jaw chuck with 2 independent self-centering Jaws

## Dynamic Grip Force Diagram



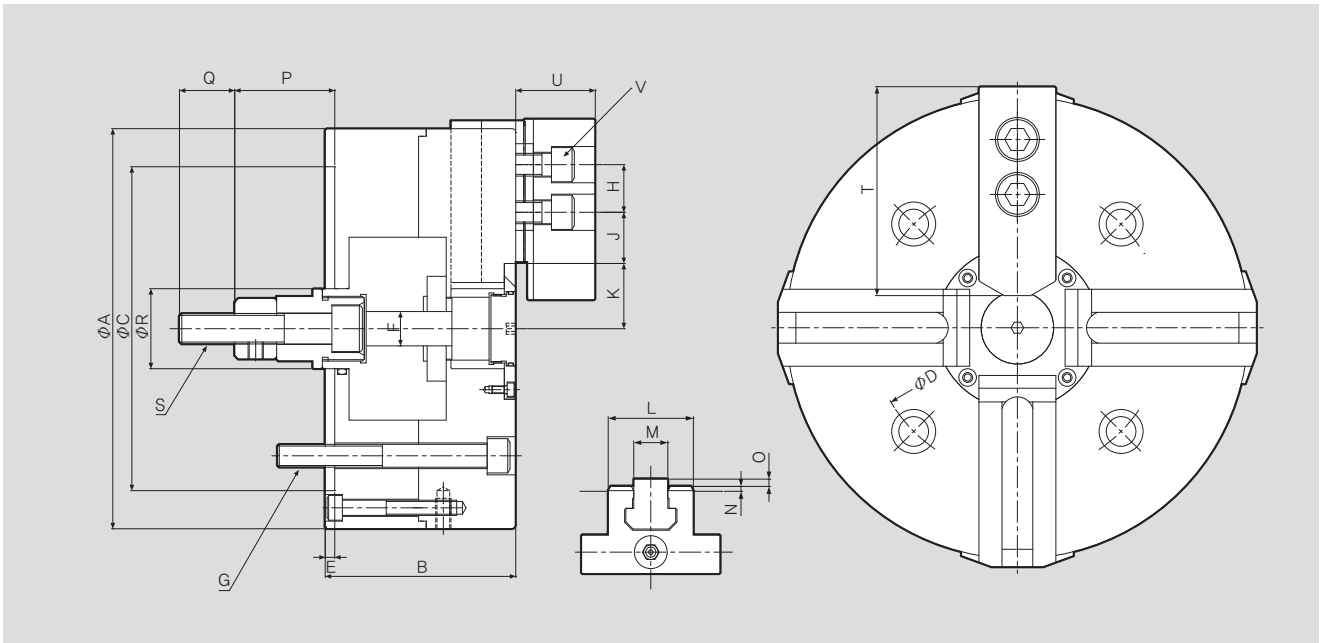
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	IDF-210	IDF-260	IDF-310	IDF-380
Jaw Stroke Radial. [mm]	5.2	6.2	6.2	6.2
Compensation [mm]	± 2	± 2	± 2	± 2
Plunger Stroke [mm]	10	12	12	12
Max. Permissible Input Force [kN(kgf)]	40(4081)	50(5102)	70(7143)	80(8163)
Max. Static Gripping Force [kN(kgf)]	100(10204)	130(13265)	180(18367)	200(20394)
Max. r.p.m. [min <sup>-1</sup> ]	4000	3200	3000	2100
Operating Cylinder	Y-1225RE	Y-1530RE	Y-1530RE	Y-2035RE
Weight [kg]	24	43	68	110
Moment of inertia [kg·m <sup>2</sup> ]	0.14	0.39	0.88	2.2

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

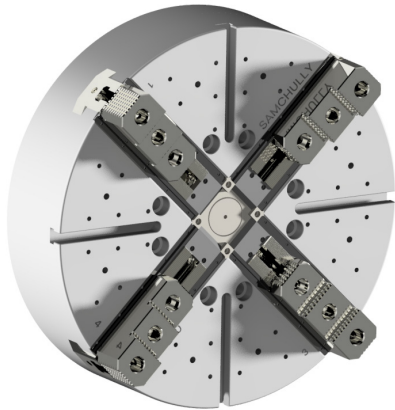
	IDF-210	IDF-260	IDF-310	IDF-380
$\varnothing A$	210	260	310	380
B	102	120	127	135
$\varnothing C$	170	220	220	300
$\varnothing D$	133.4	171.4	171.4	235
E	5	5	5	5
F	24	30	30.5	40.5
G	M12	M16	M16	M20
H	25	30.5	30	43
J (Max/Min)	39/10	45/13	58/13	53/18
K (Max/Min)	34.2/29	46.2/40	53.2/47	74.2/68
L	35	40	50	62
M	14	16	18	25.5
N	2	5	5	5
O	3	3	3	3
P (Max/Min)	62.5/50.5	68/56	65/53	93/81
Q	29	30	33	50
R	42	50	55	80
S	M16x80	M20x85	M20x85	M30x120
T	95	98	115	135
U	42	46	54	63
V	M12x30	M12x30	M14x45	M20x55

RELATED PRODUCT





# IDF Self centering 2+2 Jaw Power Chuck



## Application

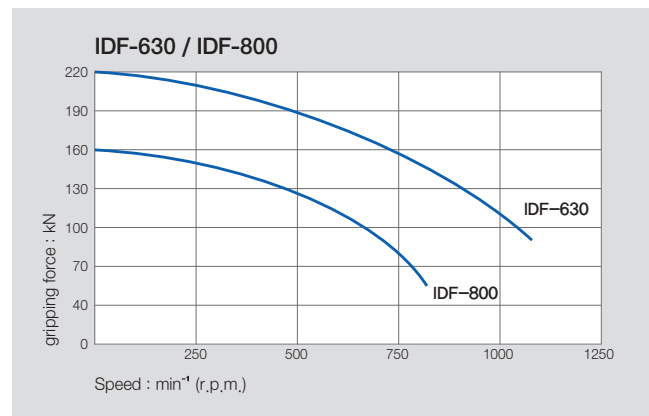
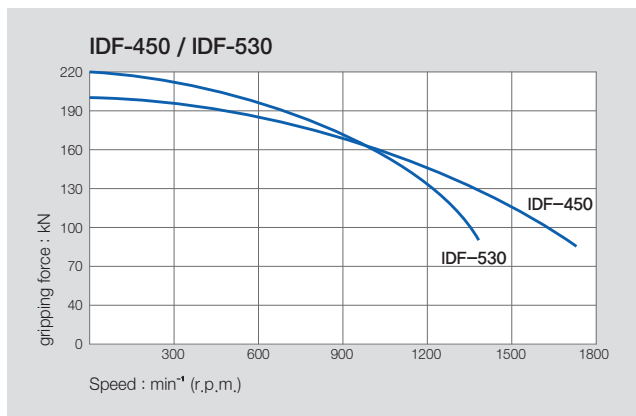
High precision self-centering 4-Jaw power chuck(2+2 Jaw)

## Technical features

Ideal for rectangular and square work pieces self-centering in two axes

Single wedge actuation does not require dual-piston cylinder  
2+2 Jaw chuck with 2 independent self-centering Jaws

## Dynamic Grip Force Diagram



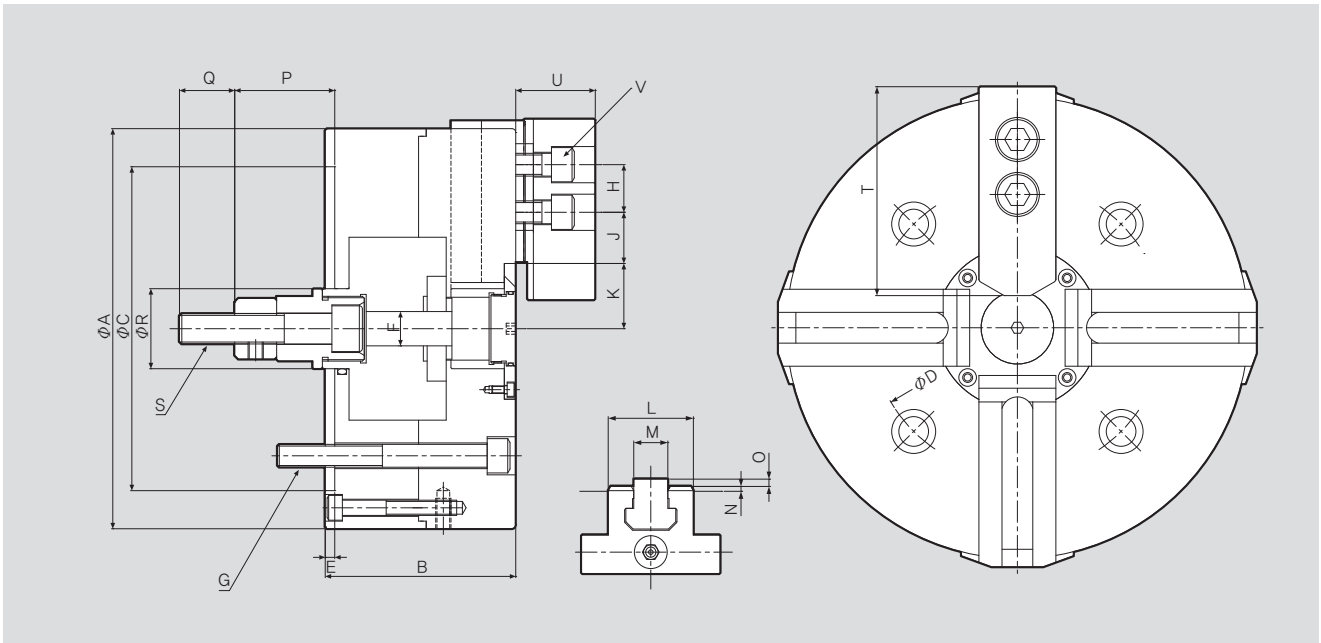
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	IDF-450	IDF-530	IDF-630	IDF-800
Jaw Stroke Radial. [mm]	6	8	9.7	9.7
Compensation [mm]	±2	±2	±4	±4
Plunger Stroke [mm]	12	18	20	20
Max. Permissible Input Force [kN(kgf)]	80(8158)	90(9177)	90(9177)	120(12237)
Max. Static Gripping Force [kN(kgf)]	200(20394)	220(22434)	220(22434)	160(16315)
Max. r.p.m. [min <sup>-1</sup> ]	1700	1400	1100	800
Operating Cylinder	Y-2035R	Y-2035R	Y-2035R	Y-2560RE
Weight [kg]	180	290	400	425
Moment of inertia [kg·m <sup>2</sup> ]	7.4	15.2	17.7	27.5

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	IDF-450	IDF-530	IDF-630	IDF-800
$\varnothing A$	450	530	630	800
B	145	176	188	215
$\varnothing C$	300	380	380	380
$\varnothing D$	235	330.2	330.2	330.2
E	5	8	8	8
F	42	55	55	70
G	M20	M22	M22	M24
H	43	60	60	76.2
J (Max/Min)	89/21	98/23	149.5/23.5	197.5/23.5
K (Max/Min)	75.5/69.5	87/79	90/80.3	106/96.3
L	52	65	65	75
M	25.5	25	25	25.5
N	5	4	4	4
O	3	5	5	5
P(Max/Min)	93/81	73/55	75	45
Q	50	70	55	75
R	80	92	92	110
S	M30x120	M30x125	M30x125	M36x130
T	135	180	180	185
U	63	77	77	77
V	M20x50	M20x50	M20x50	M24x90

RELATED PRODUCT



# IDS Self centering 2+2+2 Jaw Power Chuck



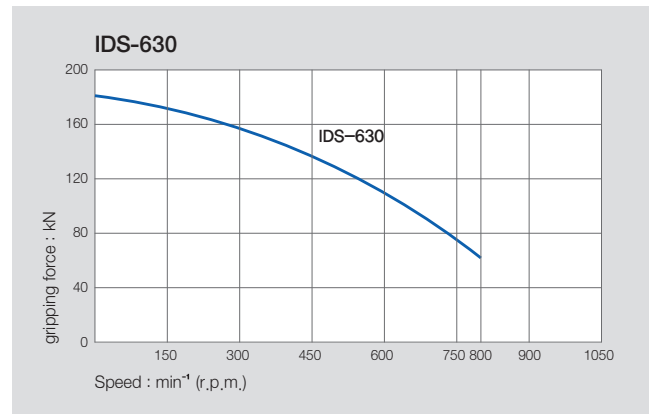
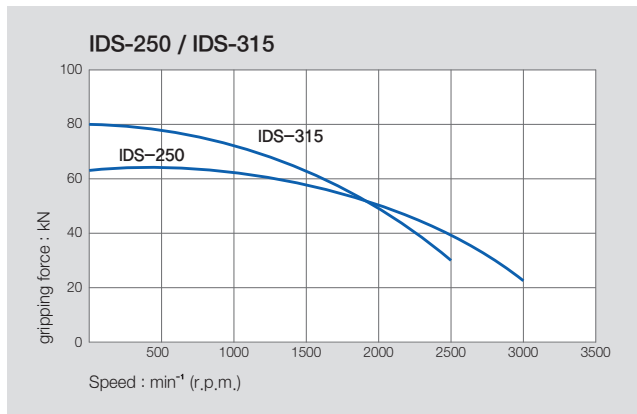
## Application

High accuracy Self centering 2+2+2 Jaw power chuck

## Technical features

Ideal for thin workpiece (Easily deformable workpiece)  
Compensating deviation of workpieces by 2+2+2 Jaw (clamping 6 point at once)  
100% compatibility with existing cylinder

## Dynamic Grip Force Diagram



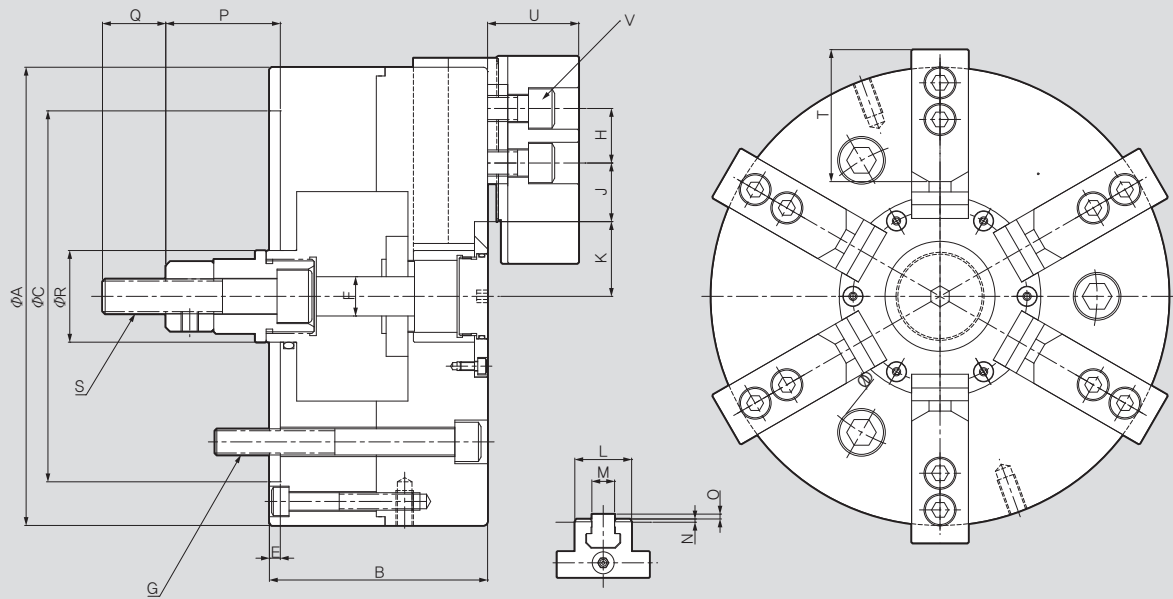
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	IDS-250	IDS-315	IDS-630
Jaw Stroke Radial. [mm]	6	6	7.5
Compensation [mm]	±2	±2	±4
Plunger Stroke [mm]	12	12	30
Max. Permissible Input Force [kN(kgf)]	38(3875)	40(4079)	120(12237)
Max. Gripping Force [kN(kgf)]	64(6526)	80(8158)	180(18354)
Max. r.p.m. [min <sup>-1</sup> ]	3000	2500	800
Operating Cylinder	Y-1530RE	Y-1530RE	Y-2560RE
Weight [kg]	39	65	425
Moment of inertia [kg·m <sup>2</sup> ]	0.35	0.75	27.5

※ Maximum turning speed is based upon actual measurement.

※ Specifications are subject to change without notice.



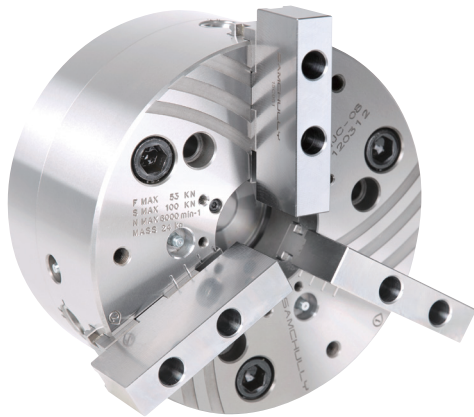
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	IDS-250	IDS-315	IDS-630
$\varnothing A$	250	315	630
B	113	121	195
$\varnothing C$	220	220	380
$\varnothing D$	171.4	171.4	330.2
E	6	6	8
F	34	38	65
G	M16	M16	M24
H	20	20	30
J max.	42.6	64	160
J min.	10.75	10.75	15
K max.	57	68	109.5
K min.	51	62	102
L	31	31	52
M	12	12	18
N	4	4	5
O	3	3	3
P max.	75	75	100
P min.	63	63	70
Q	36	36	55
R	56	70	100
S	M20x90	M20x90	M30x125
T	72	72	129
U	35	35	53.5
V	M10x30	M10x30	M14x45

RELATED PRODUCT





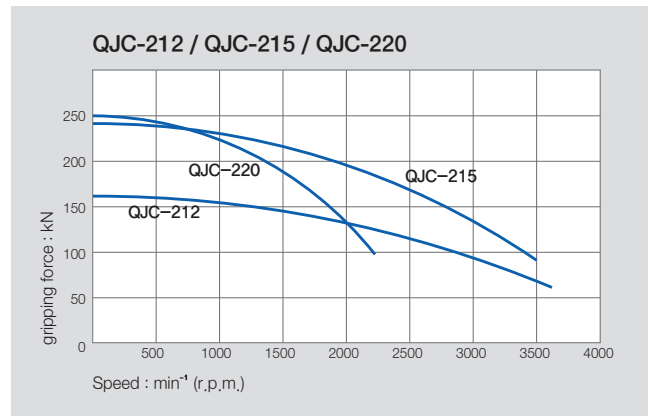
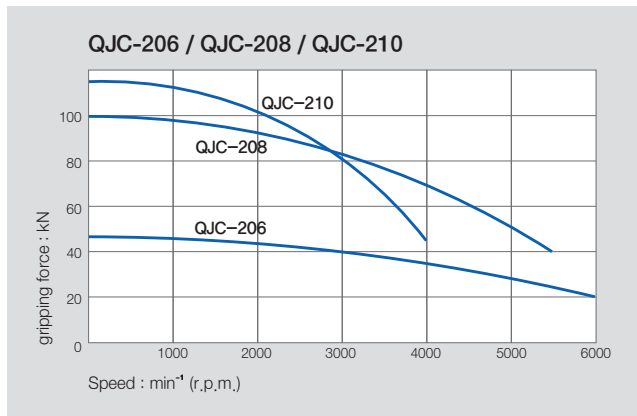
## Application

Minimal Jaw set-up times(within 1 minute),  
Jaws are reversible(180°)

## Technical features

High repeatability when changing Jaws(runout < 0.02mm)  
Minimum loss of gripping force because of wedge bars  
The built-in safety interlock eliminates misoperation

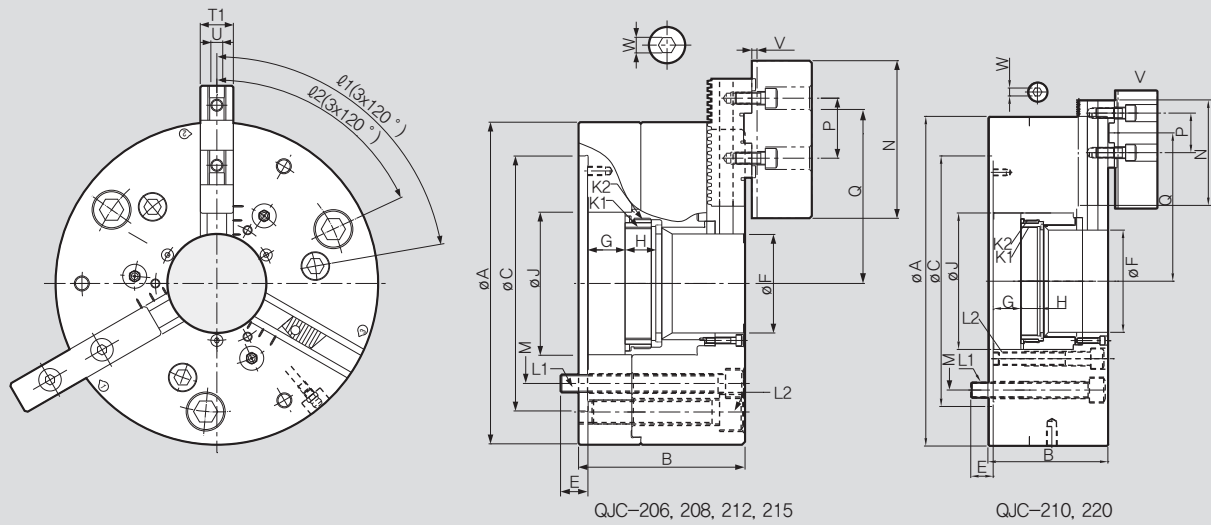
## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	QJC-206	QJC-208	QJC-210	QJC-212	QJC-215	QJC-220
Jaw Stroke Dia. [mm]	11.4	14.4	16	16	17	20
Plunger Stroke [mm]	20	25	28	28	32	42
Permissible Input Force [kN(kgf)]	30(3059)	54(5404)	65(6628)	90(9177)	133(13562)	120(12236)
Max.static Gripping Force [kN(kgf)]	45(4538)	100(10197)	115(11726)	160(16315)	240(24473)	250(25492)
Max. r.p.m. [min <sup>-1</sup> ]	6000	5500	4000	3600	3500	2200
Weight [kg]	13	24	42	66	109	225
Moment of inertia [kg·m <sup>2</sup> ]	0.11	0.11	0.41	0.97	2.3	6.5
Operating Cylinder	SD-13546	SD-17568	SD-18582	SD-21510	SDL-25411	SDL-30516
Max. Hydraulic Pressure [MPa(kgf/cm <sup>2</sup> )]	3.0(30.5)	3.0(35.6)	3.7(37.7)	4.0(40.7)	4.0(40.7)	2.9(29.5)



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

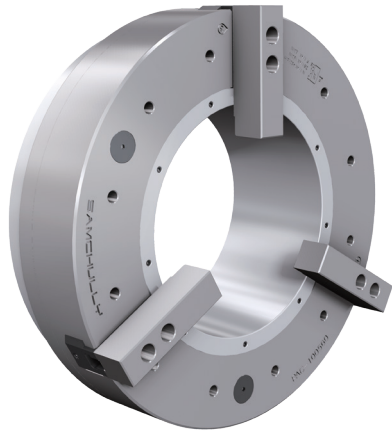
	QJC-206	QJC-208	QJC-210	QJC-212	QJC-215	QJC-220
ØA	165	215	260	315	400	500
B	95	111	129.3	138.1	144	182
ØC	140	170	220	220	300	380
E	14	18	23.7	24.9	25	34
ØF	45	66	81	104	128	155
G max.	20.2	25	28	28.5	32	42
G min.	0	0	0	0	0	0
H	18	20.5	22	23.2	22	29
ØJ	68	95	114	148	180	207
K1	M50	M75	M90	M115	M138	M165
K2	M60	M87	M105	M135	M160	M185
L1	3-M10	3-M12	3-M16	3-M16	3-M20	3-M24
L2	3-M12	3-M16	3-M12	3-M20	3-M24	3-M20
i1	80°	80°	80°	80°	70°	85°
i2	20°	65°	65°	70°	60°	75°
M	104.8	133.4	171.4	171.4	235	330.2
N	85	97	125	125	145	160
P	32	40	40	40	54	60
Q max.	76.8	113.5	129.7	161.9	185.1	225
Q min.	58	71	96.7	109.7	124.7	141
T1	20	22	30	30	35	45
T2	20	22	26	32	32	48
U	8	10	12	12	12	18
V	2.5	2.5	3	3	3	4
W	8	10	10	10	10	12

※ Blank and machined draw-nuts are available. 'K' is Max. Draw nut size.

## RELATED PRODUCT



# PAC-R Mega-Bore Pneumatic Self-Contained Chuck



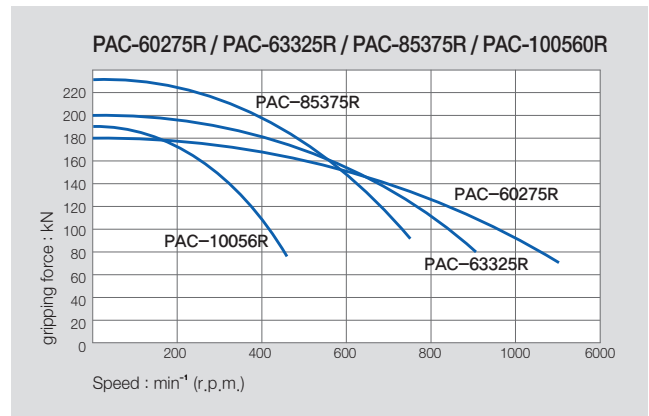
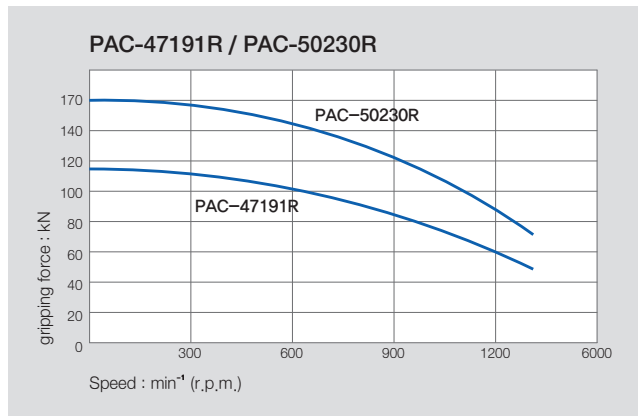
## Application

Suitable for large pipe machining, Full spindle through-hole can be used

## Technical features

- Application of rapid traverse section (Securing long stroke range)
- Stroke positioning detection plate applied (prevent clamping in rapid traverse section)
- Built-in pneumatic cylinder (with built-in lock valve)
- Continuously check clamp pressure (with built-in pressure drop check valve)

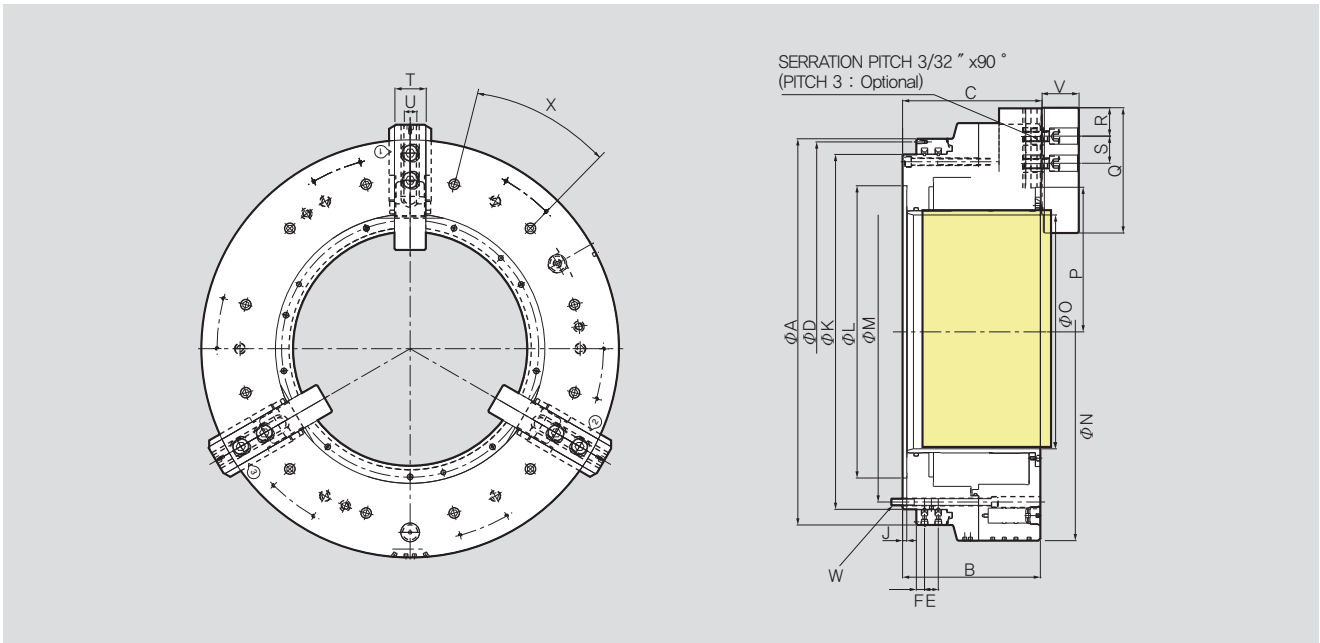
## Dynamic Grip Force Diagram



※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

## SPECIFICATIONS

	PAC-47191R	PAC-50230R	PAC-60275R	PAC-63325R	PAC-85375R	PAC-10056R
Thru Hole Dia. [mm]	191	230	275	325	375	560
Jaw Stroke Dia. [mm]	20	25.4	25.4	25.4	25.4	25.4
Rapid	13	16.9	16.9	16.9	13.4	15
Clamp	7	8.5	8.5	8.5	12	10.4
Operating Pressure [MPa]	0.2~0.8	0.2~0.8	0.2~0.8	0.2~0.8	0.2~0.8	0.2~0.8
Clamping Force [kN]	115	170	180	200	230	190
Max. r.p.m. [min <sup>-1</sup> ]	1300	1300	1100	900	750	450
Weight [kg]	190	325	355	530	970	960
Moment of inertia [N·m <sup>2</sup> (kg·m <sup>2</sup> )]	9.8	16.1	20.6	35.1	105	157.6



※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

## DIMENSIONS

	PAC-47191R	PAC-50230R	PAC-60275R	PAC-63325R	PAC-85375R	PAC-10056R
$\Phi A$	470	570	605	685	850	925
B	238	280	280	305.5	352	330
C	240	282	282	307.5	354	334
$\Phi D$	448	550	585	666	830	910
E	26	26	26	33	33	33
F	17	17	17	19.5	19.5	19.5
J	8	8	8	8	8	10
$\Phi K$	400	500	535	610	775	850
$\Phi L$	310	415	450	510	700	700
$\Phi M$	374	474	508	580	745	815
$\Phi N$	470	570	605	685	850	1000
$\Phi O$	191	230	275	325	375	560
P Max.	147	180.5	205.9	230.9	266.7	346.3
P Min.	127	156	180.5	205.5	241.3	320.9
Q	170	195	195	240	300	300
R	25	37	37	42	68	68
S	40	40	40	65	65	65
T	60	60	60	75	75	75
U	25.5	25.5	25.5	30	30	30
V	60	80	80	80	90	90
W	9-M12	12-M12	12-M12	12-M16	12-M16	12-M16
X	40°	30°	30°	30°	30°	30°