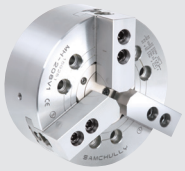


POWER CHUCK



MH
Standard Mega-Bore 3-Jaw High-Speed Open -Center Chuck
6P



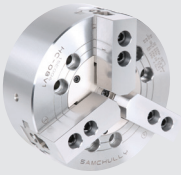
HC-SE
3-Jaw Sealed Close-Center Chuck
30P



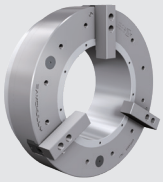
QJC
Quick Jaw Change Chuck
56P



MHT/F
Mega-Bore 2, 4-Jaw High-Speed Open-Center Chuck
8P



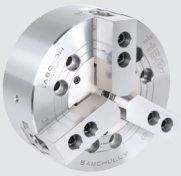
HC
Standard 3-Jaw Close-Center Chuck
32P



PAC-R
Mega-Bore Pneumatic Self-Contained Chuck
58P



HS/HS-A
(Adaptor)
Standard 3-Jaw High-Speed Open-Center Chuck
10P



HC-A
(Adaptor)
Standard 3-Jaw Close-Center Chuck
38P



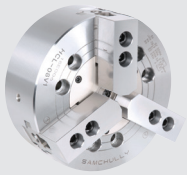
HST/F
2, 4-Jaw High-Speed Open-Center Chuck
16P



HCT/F
2, 4-Jaw Close-Center Chuck
42P



HSL
(Long Stroke)
3-Jaw High-Speed Open-Center Chuck
18P



HCL
(Long Stroke)
Standard 3-Jaw Close-Center Chuck
46P



HCH
Standard 3-Jaw Open- Center Chuck
20P



HCLT/F
(Long Stroke)
2, 4-Jaw Close-Center Chuck
48P



HCH-A
(Adaptor)
Standard 3-Jaw Open-Center Chuck
24P



IDF
Self centering 2+2 Jaw Power Chuck
50P



HCHT/F
2, 4-Jaw Open Center Chuck
28P



IDS
Self centering 2+2+2 Jaw Power Chuck
54P

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



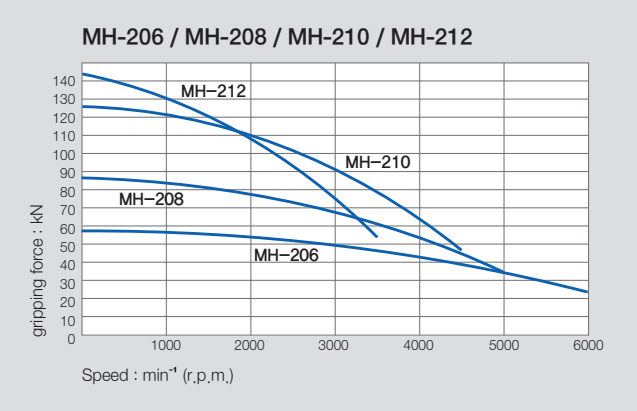
Application

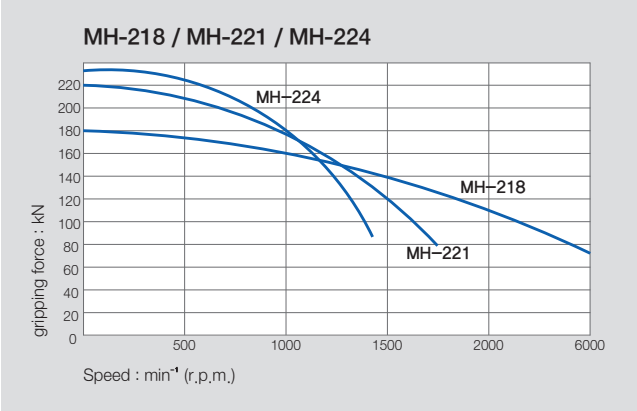
Mega-bore 3-Jaw wedge-style, open-center power chuck

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





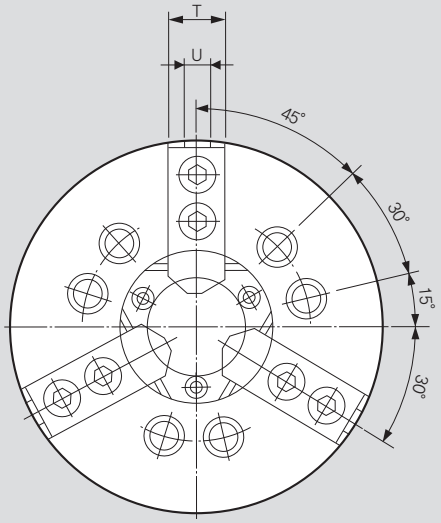
※ When using taller heavier Jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly..

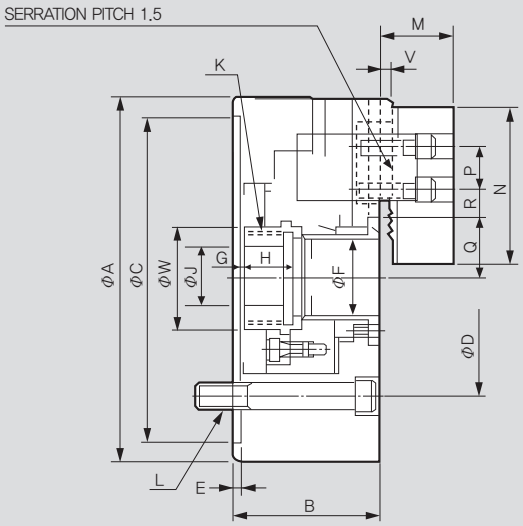
SPECIFICATIONS

	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^{-1}]	6000	5000	4500	3000	2000	1700	1400
Weight [kg]	11.9	23	32	55.3	170	228	293
Moment of inertia [$kg \cdot m^2$]	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^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø52~Ø190
Clamping Range : Ø16.5~Ø610





※ 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
ΦA	175	210	254	315	457	530	610
B	81	91	100	110	135	140	149
ΦC(H6)	140	170	220	300	380	380	380
ØD	104.8	133.4	171.45	235	300	330.2	330.2
E	5	5	5	6	6	6	6
ØF	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
ΦJ	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
ΦW	65	80	101	124	186	197	210

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

MHT / MHF

Mega Bore 2-Jaw / 4-Jaw Ultrahigh-Speed Open-Center Chuck



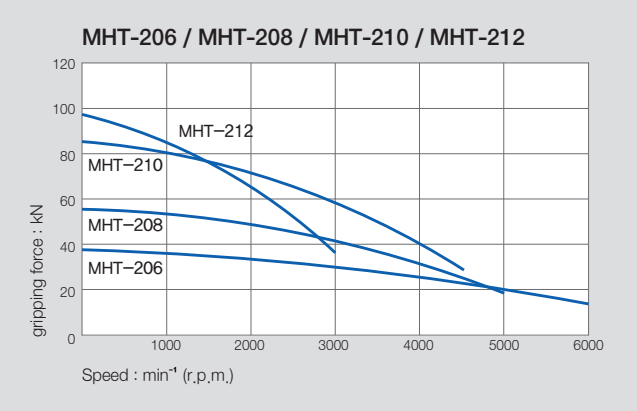
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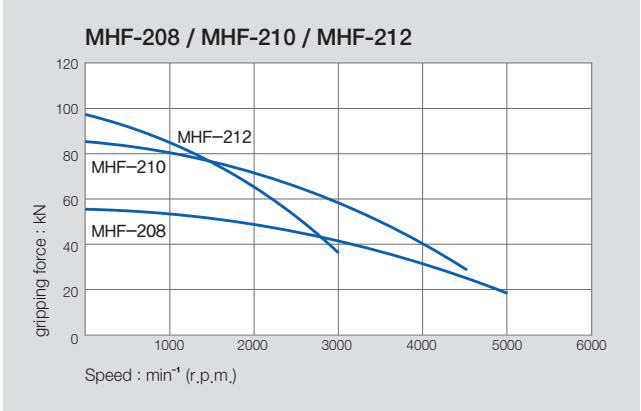
Mega-bore 2-Jaw, 4-Jaw wedge-style, open-center power chuck

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





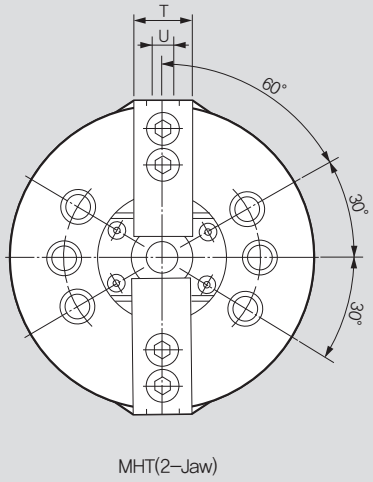
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

SPECIFICATIONS

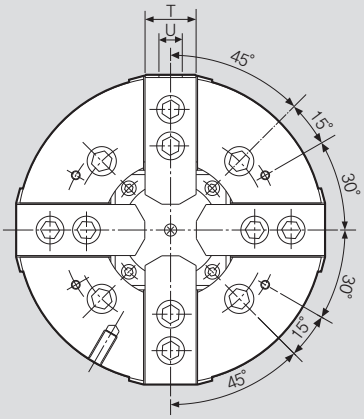
	MHT-206	MHT-208	MHT-210	MHT-212	MHF-208	MHF-210	MHF-212
Thru Hole Dia. [mm]	52	66	82	103	66	82	103
Grip Dia. Max [mm]	175	210	254	315	210	254	315
Grip Dia. Min. [mm]	16.5	23	30	54	23	30	54
Jaw Stroke Dia. [mm]	6.4	7.4	8.8	10.6	7.4	8.8	10.6
Plunger Stroke [mm]	14	16	19	23	16	19	23
Max. Permissible Input 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^{-1}]	6000	5000	4500	3000	5000	4500	3000
Weight [kg]	11.5	21.7	31	55.3	23.5	32	55.3
Moment of inertia [$kg \cdot m^2$]	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^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

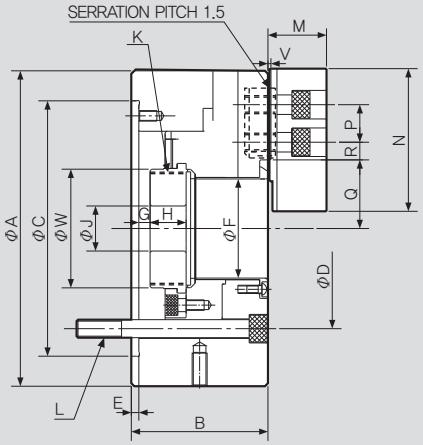
Thru Hole Range : Ø52~Ø103
Clamping Range : Ø16.5~Ø315



MHT(2-Jaw)



MHF(4-Jaw)



※ 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
ΦA	175	210	254	315	210	254	315
B	81	91	100	110	91	100	110
ΦC	140	170	220	300	170	220	300
ØD	104.8	133.4	171.45	235	133.4	171.45	235
E	5	5	5	6	5	5	6
ØF	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
ΦJ	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
ΦW	65	80	101	124	80	101	124

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

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



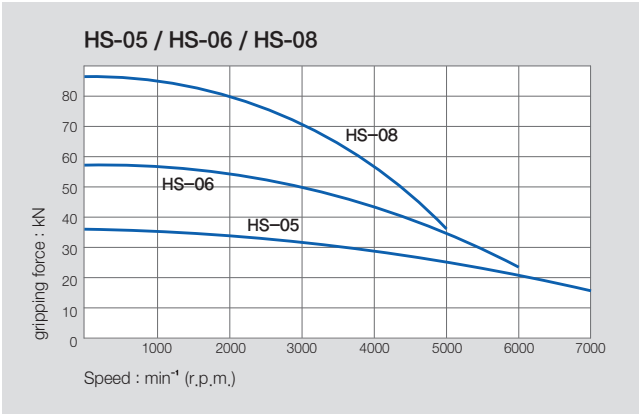
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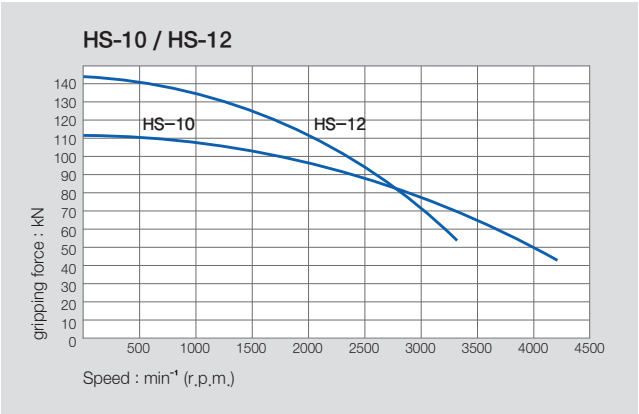
Standard high-speed 3-Jaw wedge-style open center power chuck

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





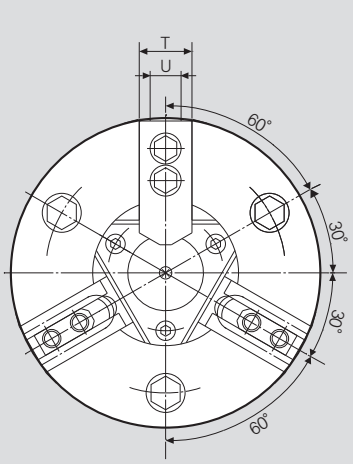
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

SPECIFICATIONS

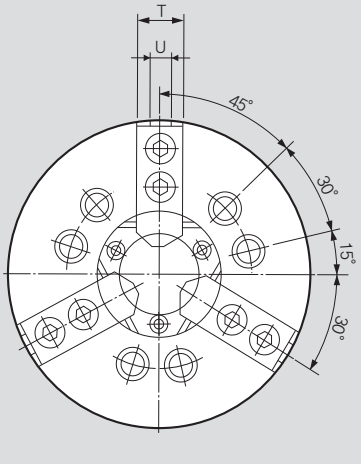
	HS-05	HS-06	HS-08	HS-10	HS-12
Thru Hole Dia. [mm]	33	46	52	77	91
Grip Dia. Max [mm]	135	169	210	254	304
Grip Dia. Min [mm]	12	15	13	31	34
Jaw Stroke Dia. [mm]	5.4	5.5	7.4	8.8	10.6
Plunger Stroke [mm]	10	12	16	19	23
Permissible Input Force [kN(kgf)]	17.5(1784)	22(2243)	34.8(3549)	43(4385)	55(5608)
Max. Static Gripping Force [kN(kgf)]	36(3671)	57(5812)	86(8769)	111(11319)	144(14686)
Max. r.p.m. [min^{-1}]	7000	6000	5000	4200	3300
Weight [kg]	6.7	11.9	22.3	34.5	55.3
Moment of inertia [$kg \cdot m^2$]	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^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

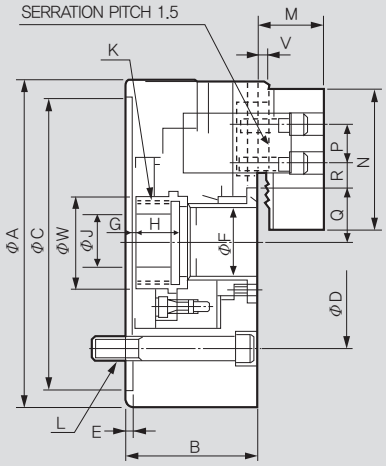
Thru Hole Range : Ø33~Ø91
Clamping Range : Ø12~Ø304



HS-05



HS-06~12



※ 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
ΦA	135	169	210	254	304
B	60	81	91	100	110
ΦC(H6)	110	140	170	220	220
ØD	82.6	104.8	133.4	171.4	171.4
E	4	5	5	5	6
ØF	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
ΦJ	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
ΦW	47	60	66	94	108

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

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



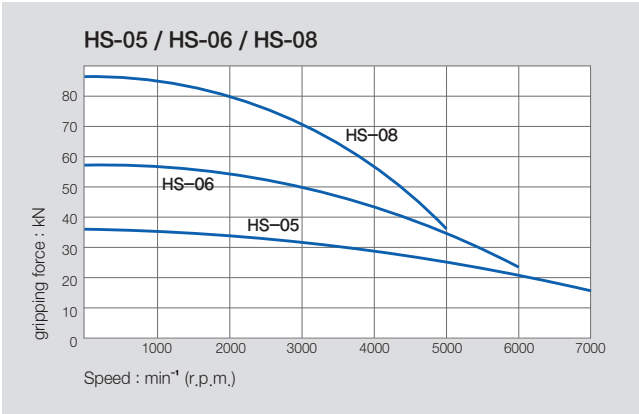
Application

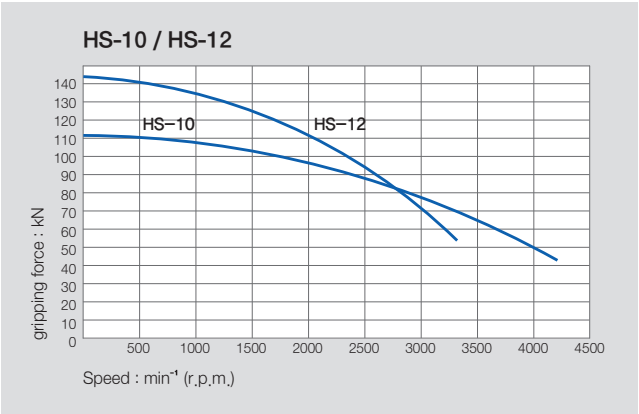
Standard high-speed 3-Jaw wedge-style open center power chuck with adaptor

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





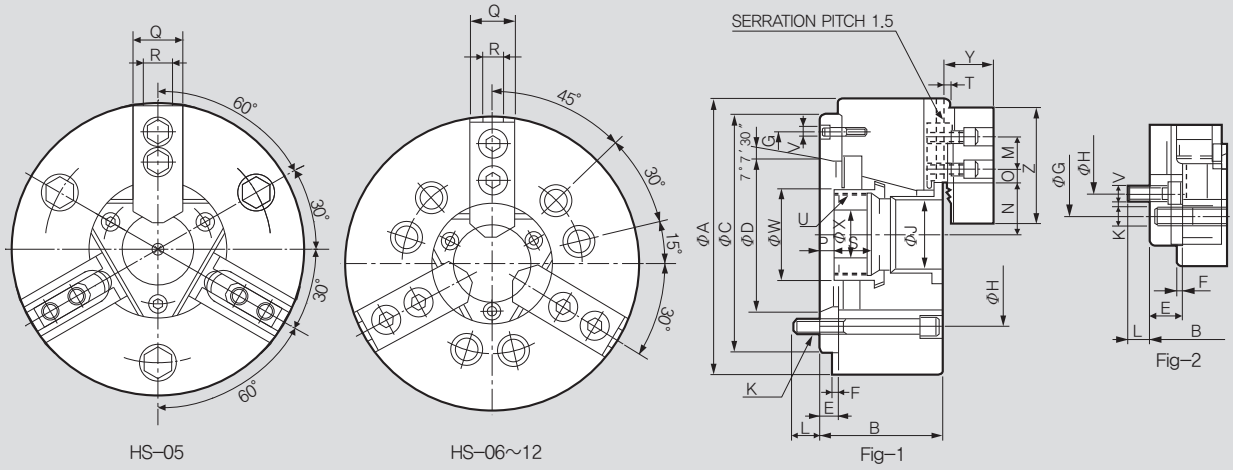
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	7000	6000	5000
Weight [kg]	7.5	13.7	23.6
Moment of inertia [$kg \cdot m^2$]	0.016	0.052	0.145
Operating Cylinder	SH-10036	SD-13546	SD-15452
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ HS-10A06 and HS-10A08 are available with 75mm and 77mm thru holes.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø33~Ø52
Clamping Range : Ø12~Ø210



※ 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
H/S Jaw 160p
Cylinder 62p

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



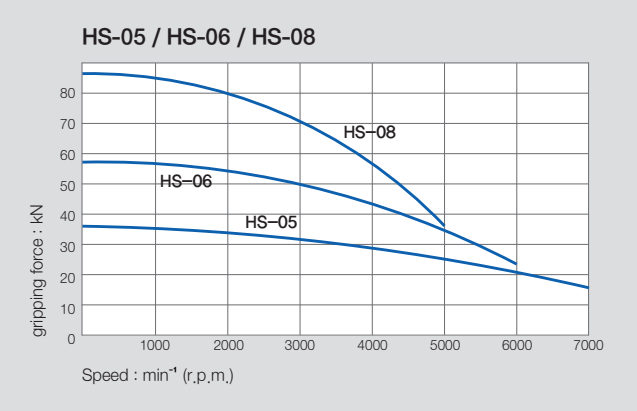
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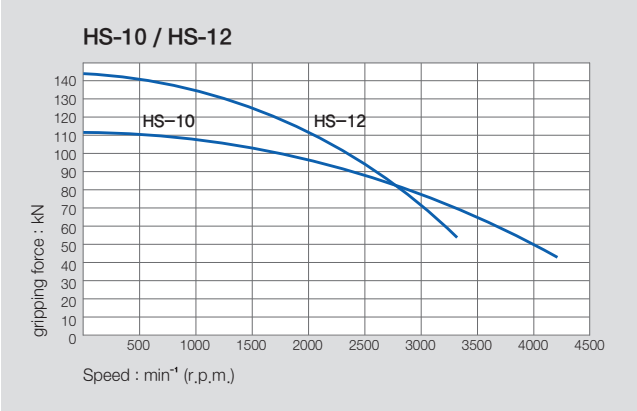
Standard high-speed 3-Jaw wedge-style open center power chuck with adaptor

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



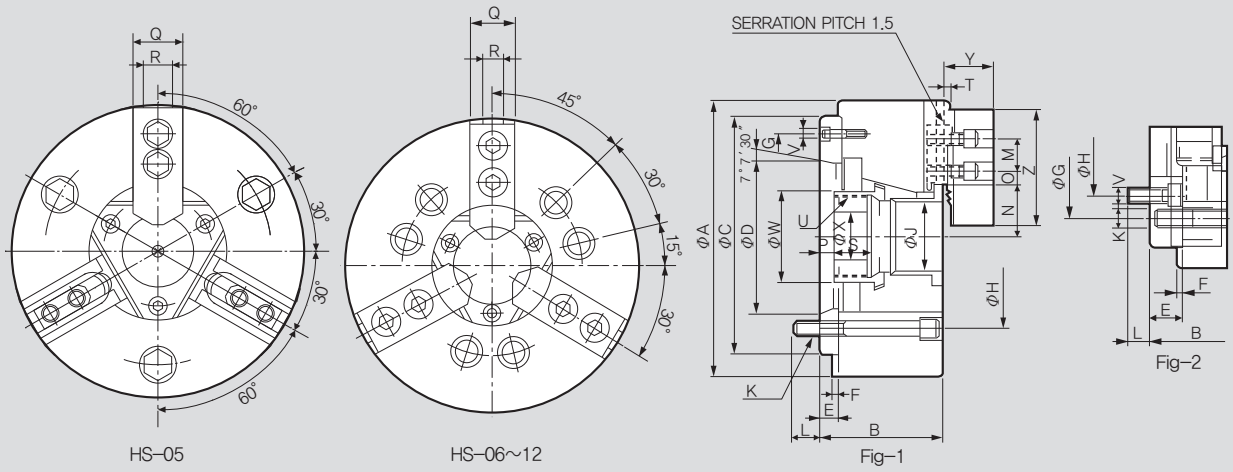


※ Diagram assumes use of standard Samchully soft jaws. Grip force will vary according to jaw size.

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^{-1}]	4200	4200	3300	3300
Weight [kg]	41.5	40	67	64
Moment of inertia [$kg \cdot m^2$]	0.305	0.305	0.707	0.707
Operating Cylinder	SD-18577	SD-18577	SD-20591	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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
ΦA	254	254	304	304
B	120	113	129	122
ΦC(H6)	220	220	220	220
ΦD	106.375	139.719	106.375	139.719
E	25	18	25	18
F	5	5	6	6
ΦG	171.4	171.4	171.4	171.4
ΦH	133.4	171.4	133.4	190
ΦJ	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
ΦW	94	94	108	108
ΦX	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
H/S Jaw 160p
Cylinder 62p

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



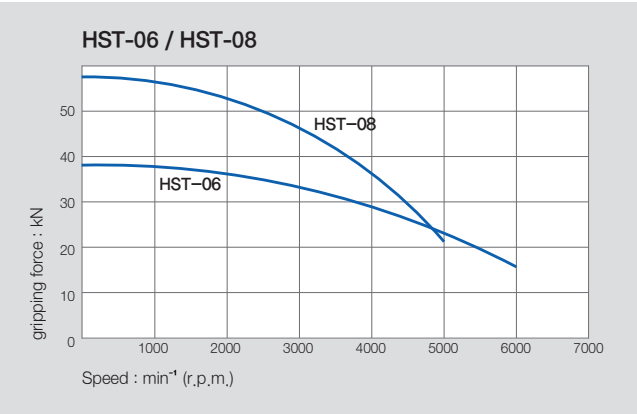
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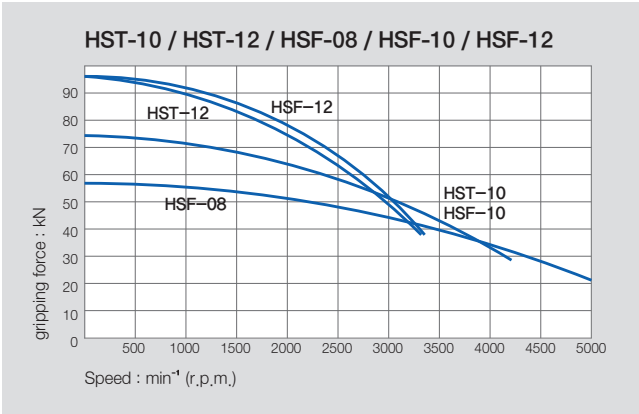
high-speed 2-Jaw, 4-Jaw wedge-style open center power chuck

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





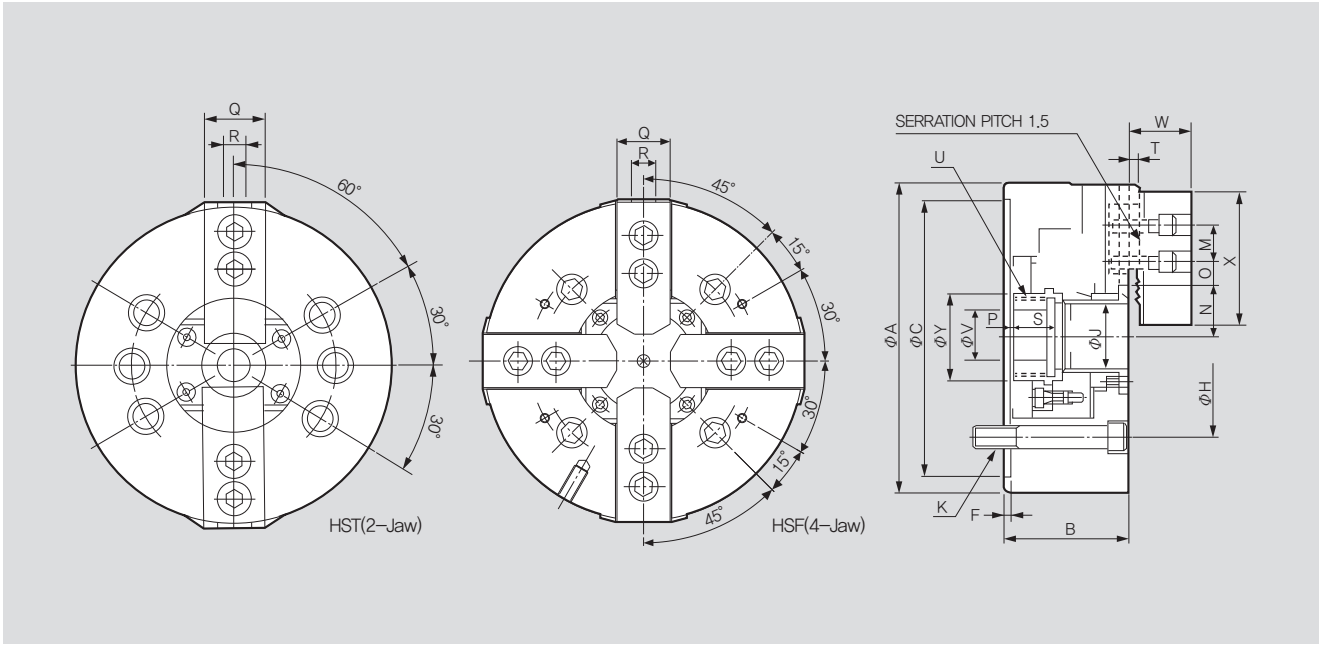
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	6000	5000	4200	3300	5000	4200	3300
Weight [kg]	11.5	21.3	33.5	52	22.5	34.5	52
Moment of inertia [$kg \cdot m^2$]	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^2)]	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 (28.5)
KITAGAWA® Model	BT-206	BT-208	BT-210	BT-212	-	-	-

※ Maximum turning speed is based upon actual measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø46~Ø91
Clamping Range : Ø15~Ø304



※ 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
ΦA	169	210	254	304	210	254	304
B	81	91	100	110	91	100	110
ΦC(H6)	140	170	220	220	170	220	220
F	5	5	5	6	5	5	5
ΦH	104.8	133.4	171.4	171.4	133.4	171.4	171.4
ΦJ	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
ΦV	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
ΦY	60	66	94	108	66	94	108

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

HSL 3-Jaw High-Speed Open-Center Long-Stroke Chuck



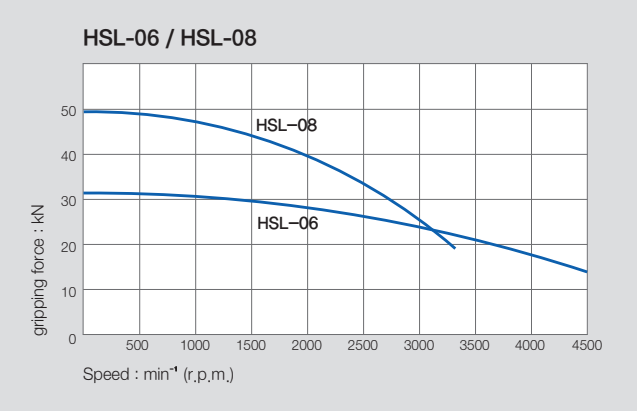
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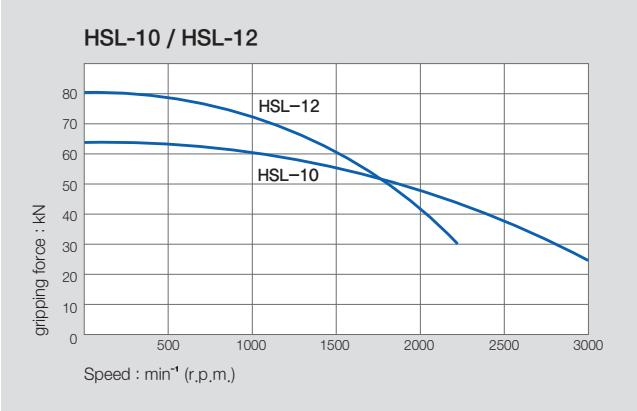
Long-stroke high-speed 3-Jaw wedge-style open-center power chuck

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



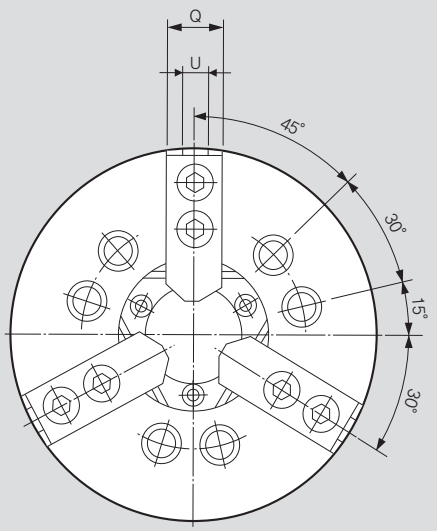


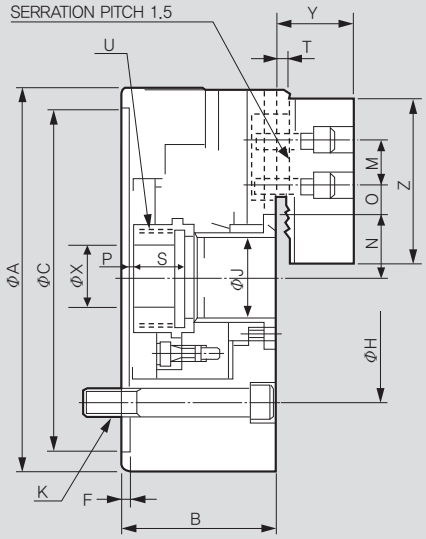
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	4500	3300	3000	2200
Weight [kg]	14	25	45	78
Moment of inertia [$kg \cdot m^2$]	0.043	0.198	0.306	0.918
Operating Cylinder	SD-13546	SD-15452	SD-18577	SD-20591
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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

	HSL-06	HSL-08	HSL-10	HSL-12
ΦA	169	215	254	304
B	84	99	110	130
ΦC(H6)	140	170	220	220
F	5	5	5	6
ΦH	104.8	133.4	171.4	171.4
ΦJ	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
ΦX	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
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

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



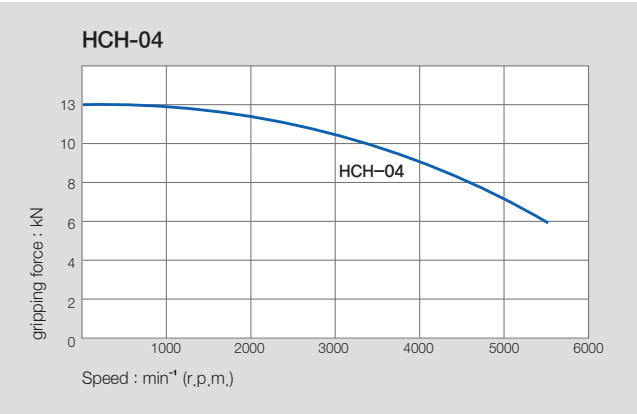
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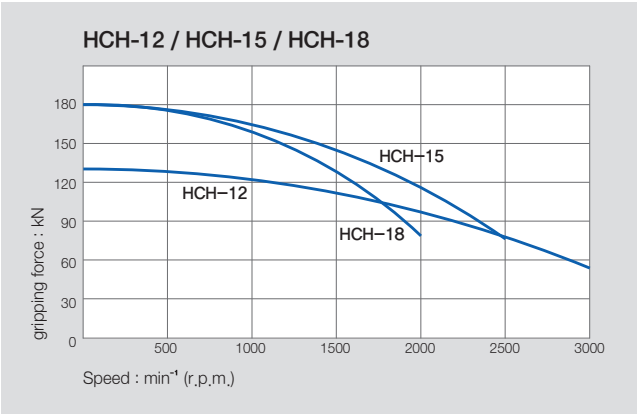
Standard 3-Jaw wedge-style open center power chuck

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





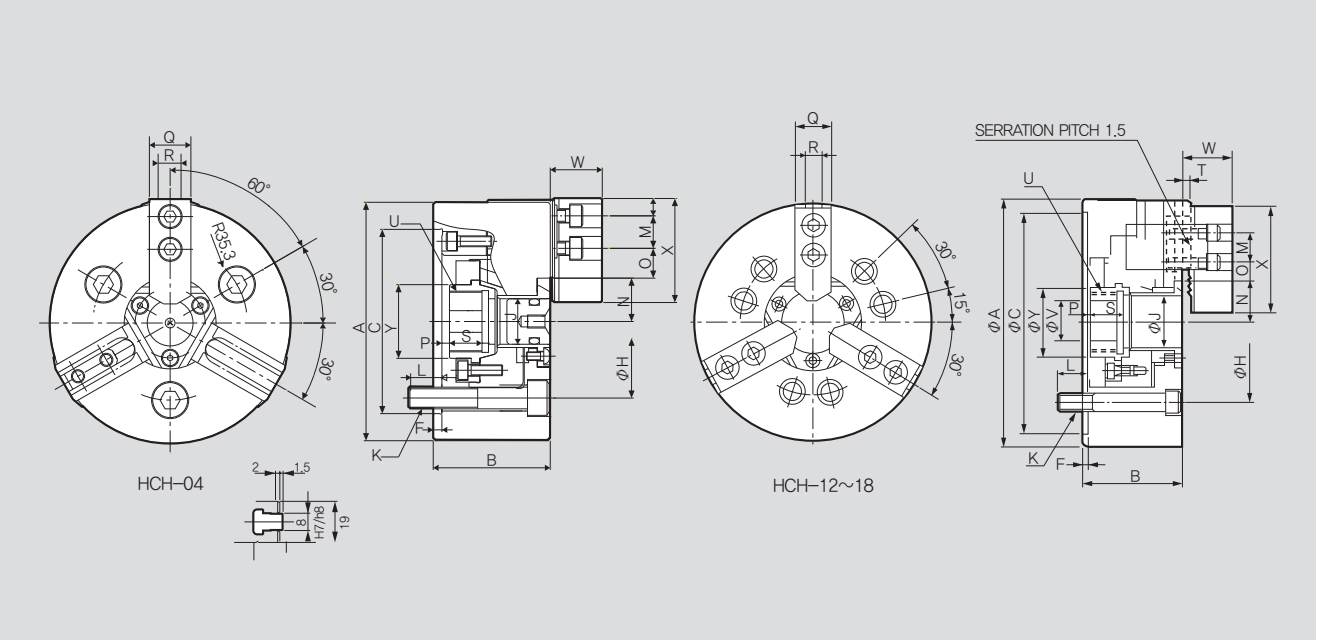
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	5500	2500	2000
Weight [kg]	3.7	120	164
Moment of inertia [$kg \cdot m^2$]	0.006	2.35	4.45
Operating Cylinder	HYH-0933	SD-25411	SD-25411
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø21~Ø117.5
Clamping Range : Ø5~Ø450



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

DIMENSIONS

	HCH-04	HCH-15	HCH-18
ΦA	110	381	450
B	54	133	133
ΦC(H6)	85	300	380
F	4	6	6
H	70.6	235	235
ΦJ	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
ΦV	10	60	60
W	24	70	70
X	48	165	165
ΦY	34	139	139

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

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



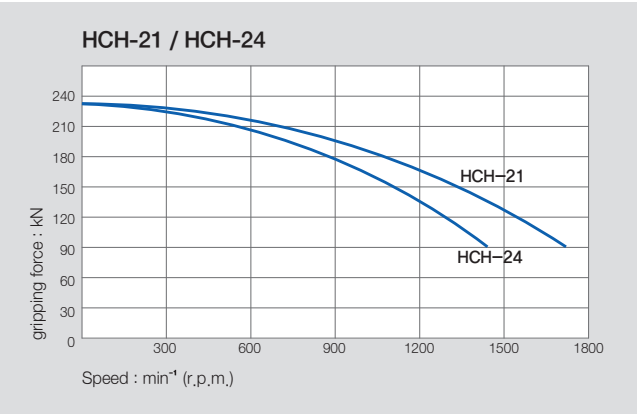
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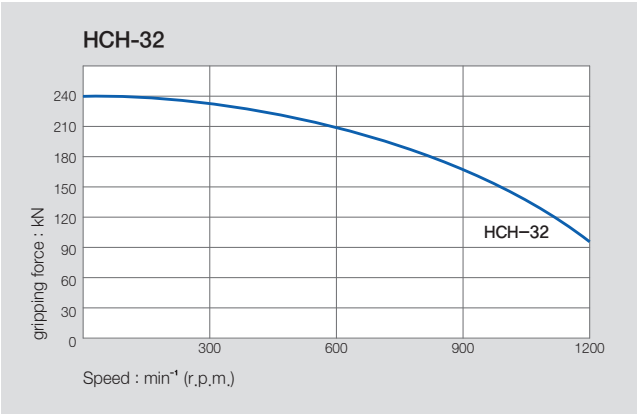
Standard 3-Jaw wedge-style open center power chuck

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





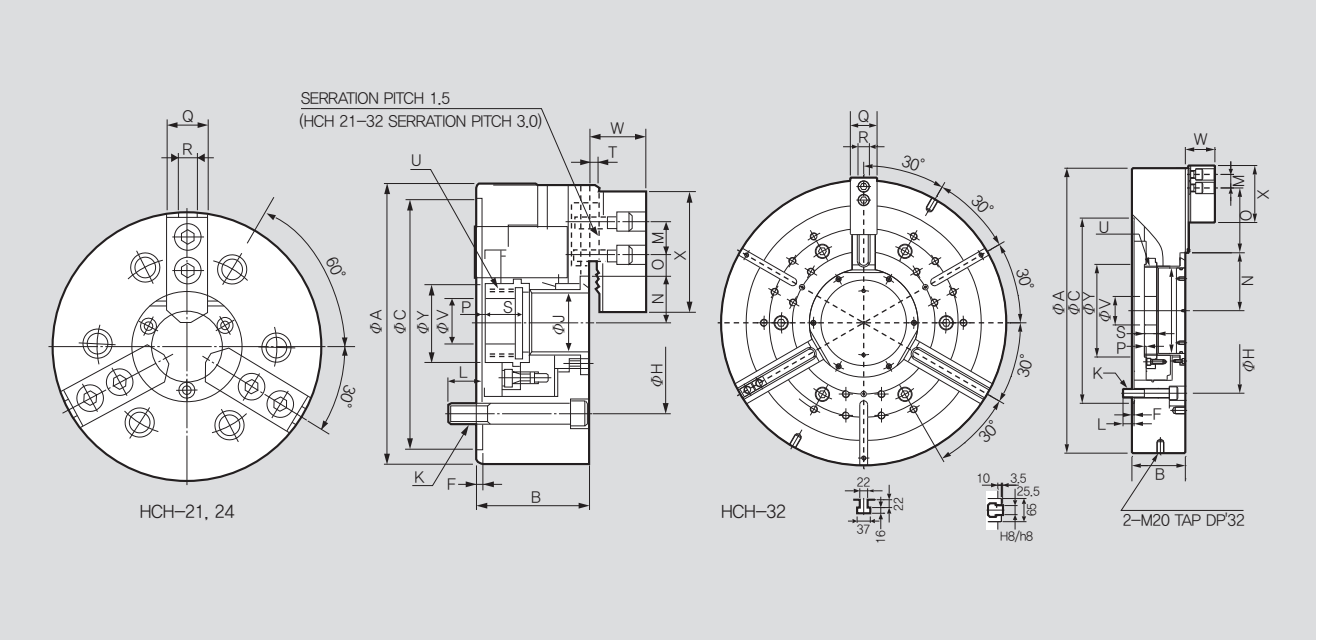
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	1700	1400	1200
Weight [kg]	235	293	530
Moment of inertia [$kg \cdot m^2$]	8.85	15.8	51.5
Operating Cylinder	SD-25411	SDL-30516	SHL-39024
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø140~Ø240
Clamping Range : Ø87~Ø800



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

DIMENSIONS

	HCH-21	HCH-24	HCH-32
ΦA	530	610	800
B	140	149	150
ΦC(H6)	380	380	520
F	6	6	6
H	330.2	330.2	463.6
ΦJ	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
ΦV	80	80	80
W	72	72	83
X	180	180	160
ΦY	170	187	260

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

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



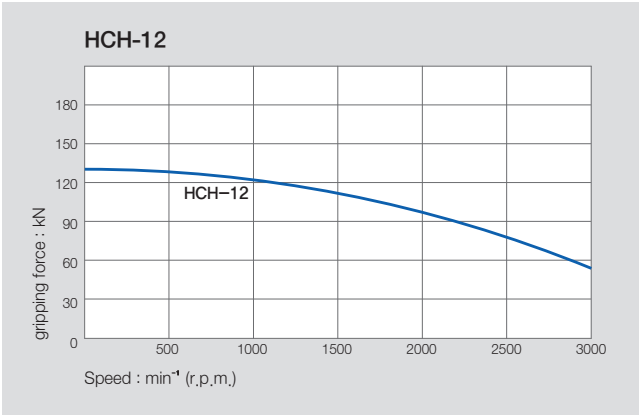
Application

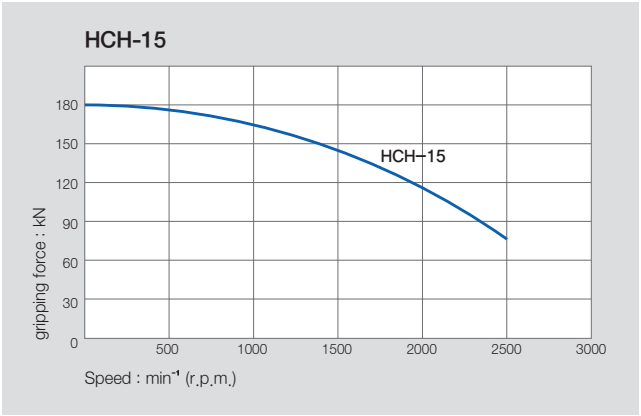
Standard 3-Jaw wedge-style open center power chuck with adaptor

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





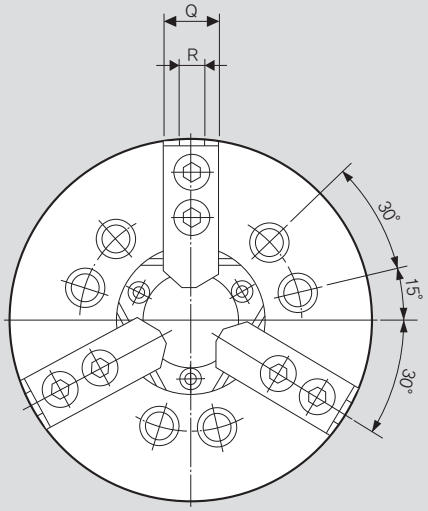
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

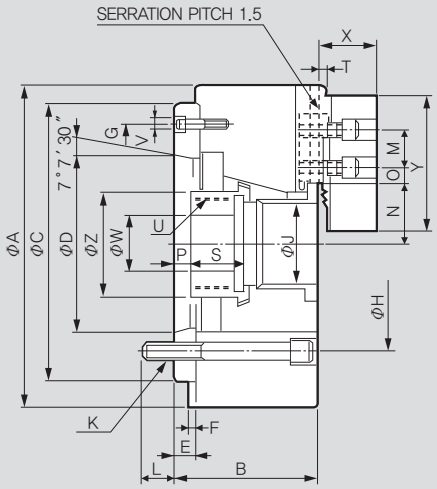
SPECIFICATIONS

	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^{-1}]	2500	2500
Weight [kg]	134	127
Moment of inertia [$kg \cdot m^2$]	2.35	2.35
Operating Cylinder	SD-25411	SD-25411
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	2.3(23.5)	2.3(23.5)
Operating Hard Jaw	HB15A1	HB15A1
KITAGAWA® Model	B-15A8	B-15A11

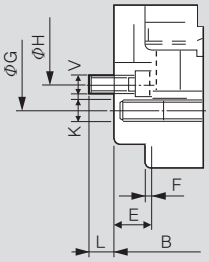
※ Maximum turning speed is based upon actual measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø78~Ø117.5
Clamping Range : Ø19~Ø381





Fig–1



Fig–2

※ 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
H/S Jaw 160p
Cylinder 62p

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



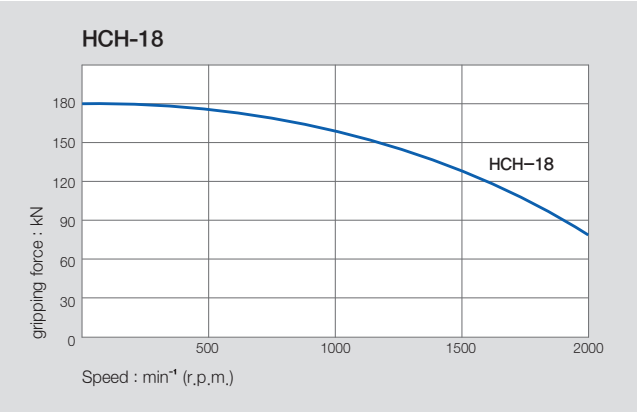
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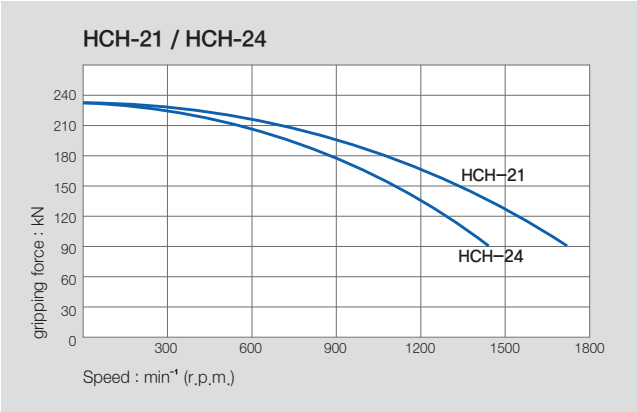
Standard 3-Jaw wedge-style open center power chuck with adaptor

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





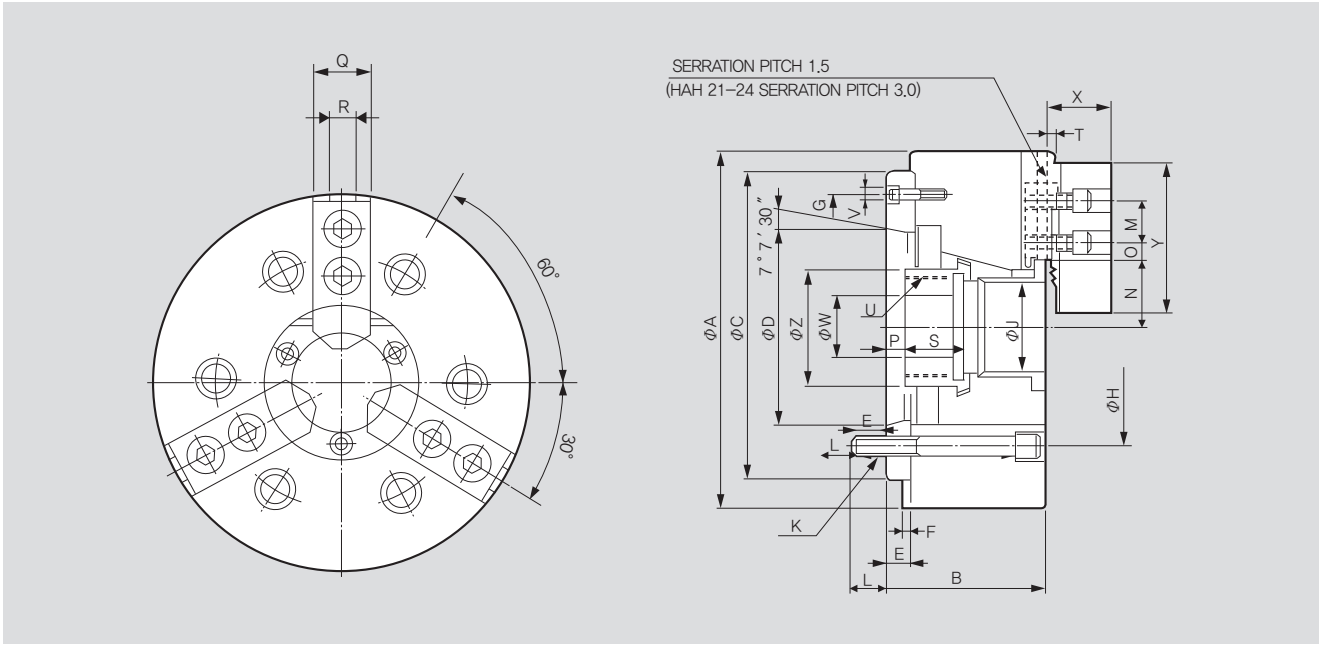
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	2000	1700	1400
Weight [kg]	178	246	304
Moment of inertia [$kg \cdot m^2$]	4.45	8.85	15.8
Operating Cylinder	SD-25411	SD-25411	SDL-30516
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø117.5~Ø165
Clamping Range : Ø30~Ø610



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

DIMENSIONS

	HCH-18A11	HCH-21A15	HCH-24A15
ΦA	450	530	610
B	149	161	170
ΦC(H6)	380	380	380
ΦD	196.869	285.775	285.775
E	22	27	27
F	6	6	6
ΦG	320	330.2	330.2
ΦH	235	330.2	330.2
ΦJ	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
ΦW	60	80	80
X	70	72	72
Y	165	180	180
ΦZ	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
H/S Jaw 160p
Cylinder 62p

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



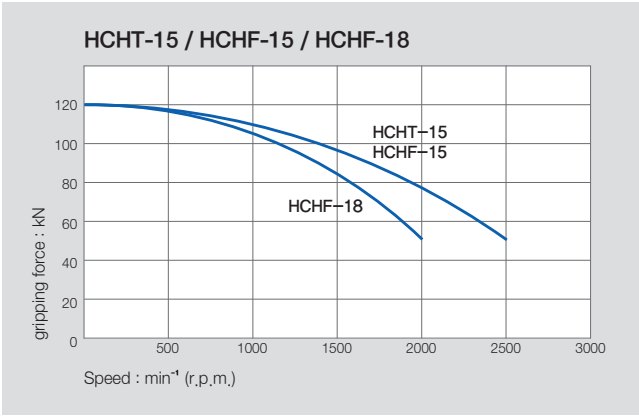
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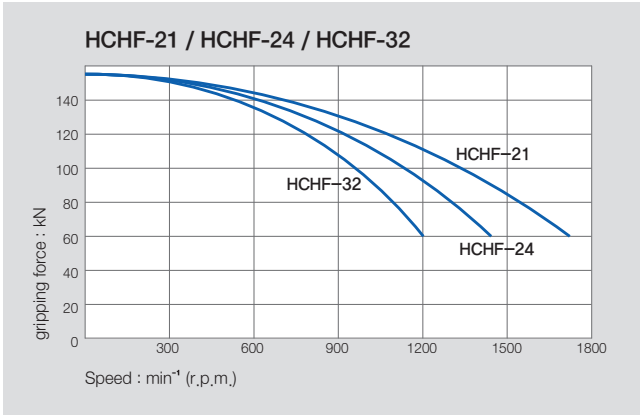
Standard 3-jaw wedge-style open-center chuck

Technical features

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

Dynamic Grip Force Diagram





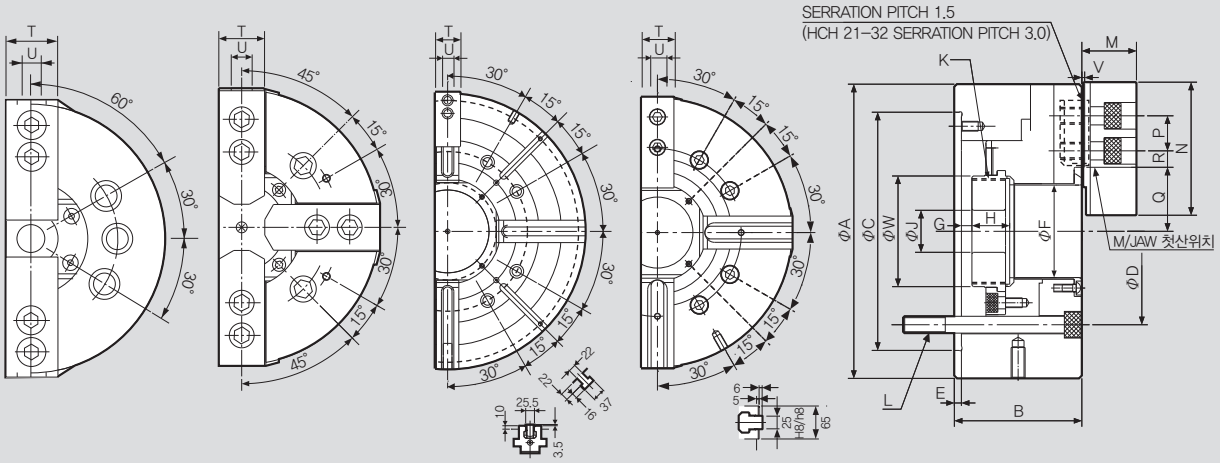
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	2500	2500	2000	1700	1400	1200
Weight [kg]	115	115	159	235	293	530
Moment of inertia [$kg \cdot m^2$]	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^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.

Thru Hole Range : Ø117.5~Ø240
Clamping Range : Ø30~Ø800



HCHT–15(2–Jaw) HCHF–15, 18(4–Jaw) HCHF–21, 24(4–Jaw) HCHF–32(4–Jaw)

※ 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
ΦA	381	381	450	530	610	800
B	133	133	133	140	149	150
ΦC(H6)	300	300	380	380	380	520
ΦD	235	235	235	330.2	330.2	463.6
E	6	6	6	6	6	6
ΦF	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
ΦJ	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
ΦW	139	139	139	170	187	260

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

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

HC-SE 3-Jaw Sealed Closed-center Chuck



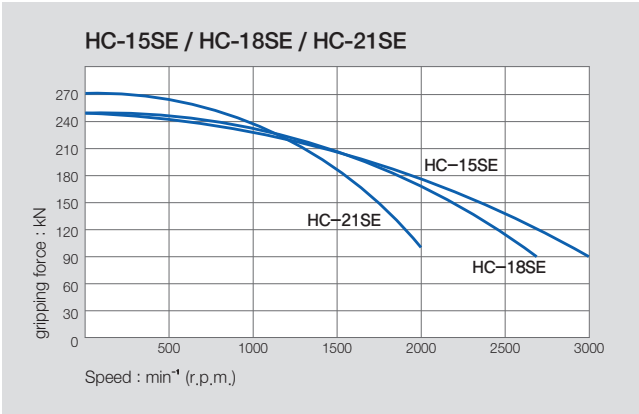
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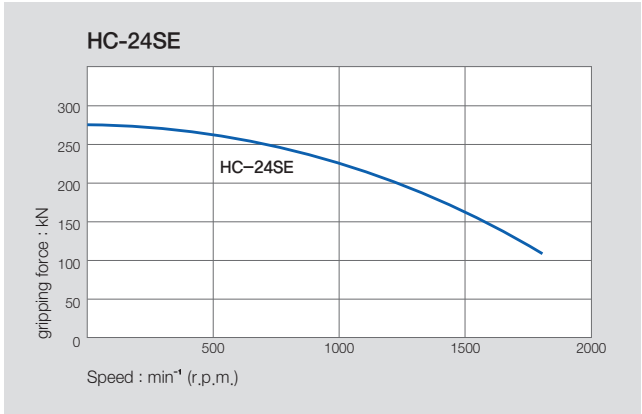
Sealed against coolant and chips

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



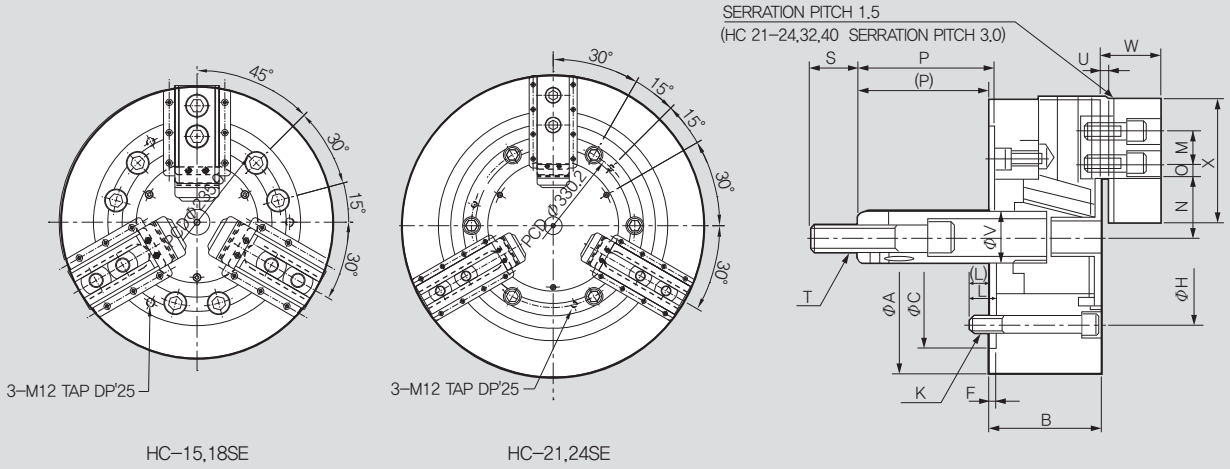


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	3040	2710	1940	1760
Weight [kg]	96	124	180	223
Moment of inertia [$kg \cdot m^2$]	1.8	2.35	4.8	6.925
Max.hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ HCF-12 is also available with long stroke.



HC–15,18SE HC–21,24SE

※ 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
ΦA	381	450	530	610
B	114	114	125	125
ΦC(H6)	300	300	380	380
F	6	6	6	6
ΦH	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
ΦV	60	60	60	60
W	61	61	71	71
X	135	135	180	180

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 68,70p

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



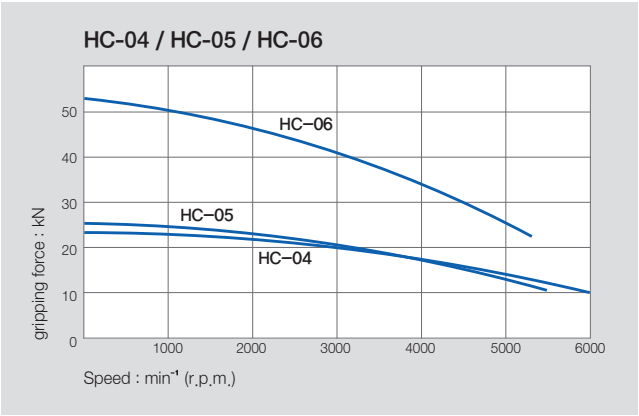
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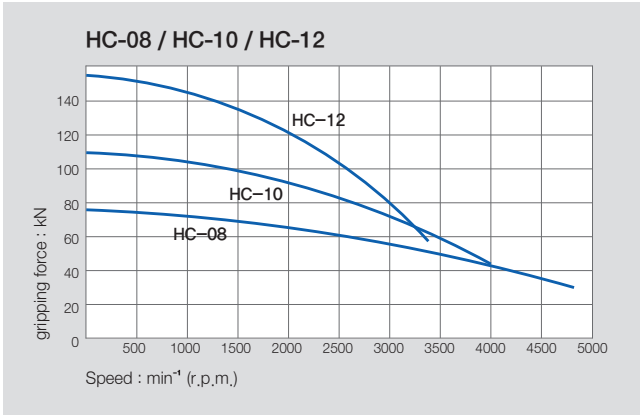
Standard high-speed 3-Jaw wedge-style closed center power chuck

Technical features

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

Dynamic Grip Force Diagram



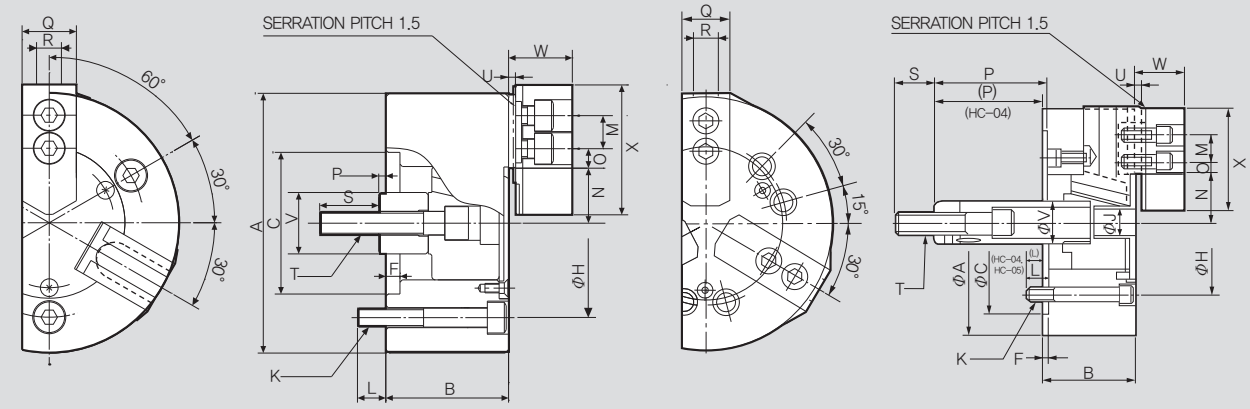


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	6000	5500	5270	4760	4010	3380
Weight [kg]	4.1	6.2	13	25	37	57.3
Moment of inertia [$kg \cdot m^2$]	0.008	0.014	0.042	0.135	0.3	0.72
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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

	HC-04	HC-05	HC-06	HC-08	HC-10	HC-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
ΦJ	-	-	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
ΦV	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
Adaptor 166p
H/S Jaw 160p
Cylinder 68,82p

HC Standard 3-Jaw Closed-Center Chuck (381mm - 1000mm)



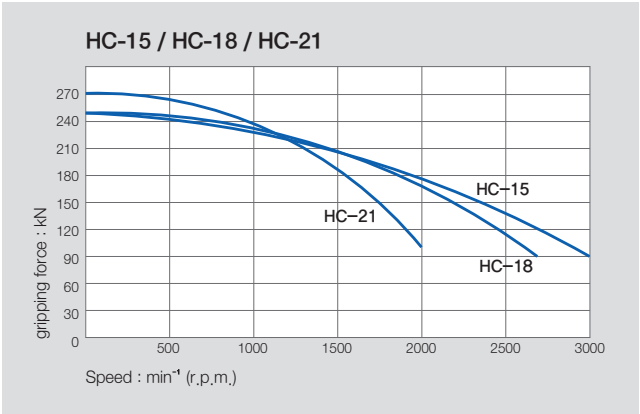
Application

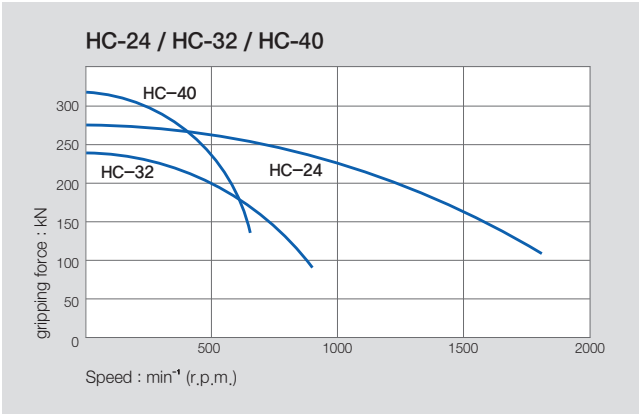
Standard high-speed 3-Jaw wedge-style closed center power chuck

Technical features

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

Dynamic Grip Force Diagram



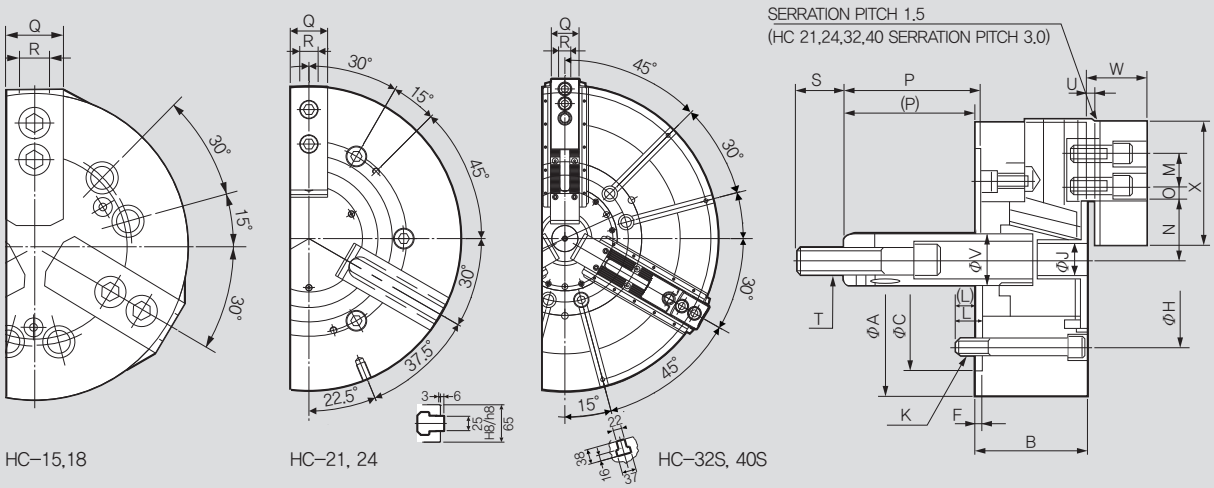


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	3040	2710	1940	1760	800	630
Weight [kg]	96	124	180	223	350	600
Moment of inertia [$kg \cdot m^2$]	1.85	3.2	7.1	12.2	38.5	89
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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

	HC-15	HC-18	HC-21	HC-24	HC-32S	HC-40S
ΦA	381	450	530	610	800	1000
B	114	114	125	125	150	180
ΦC(H6)	300	300	380	380	380	520
F	6	6	6	6	6	8
ΦH	235	235	330.2	330.2	330.2	463.6
ΦJ	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
ΦV	60	60	60	60	55	70
W	60	61	71	71	81	106
X	135	135	180	180	185	270

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 68,70p

HC (groove type) 3-Jaw Hydraulic / 4-Jaw Independent Chuck (800mm -1600mm)



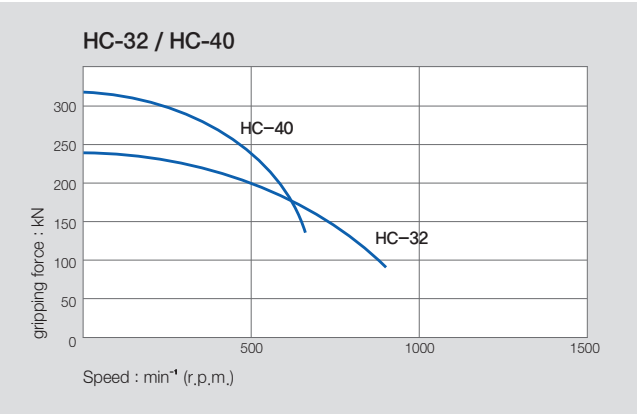
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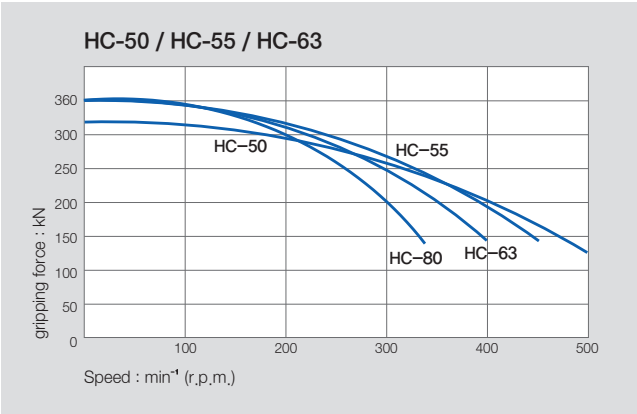
Standard high-speed 3-Jaw wedge-style closed center power chuck

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



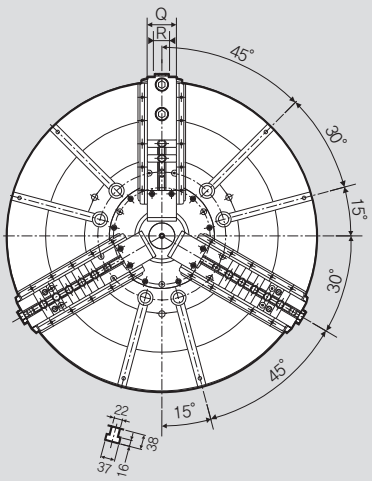


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

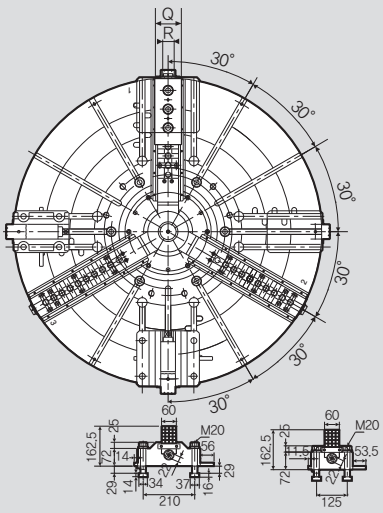
SPECIFICATIONS

	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^{-1}]	800	630	500	450	400
Weight [kg]	350	600	1000	1350	1850
Moment of inertia [$kg \cdot m^2$]	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^2)]	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

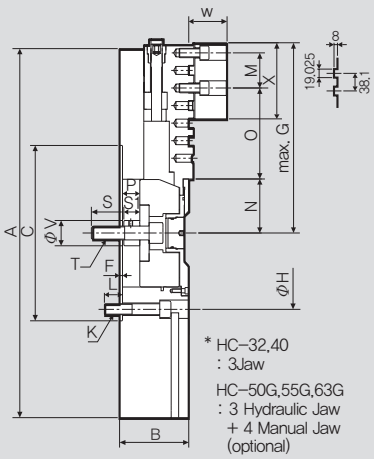
※ Maximum turning speed is based upon actual measurment.
※ Specifications are subject to change without notice.



HC–32G, 40G



HC–50G, 55G, 63G



* HC–32,40
: 3Jaw
HC–50G,55G,63G
: 3 Hydraulic Jaw
+ 4 Manual Jaw
(optional)

※ 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
ΦA	800	1000	1250	1400	1600
B	150	180	180	220	220
ΦC(H6)	380	520	520	720	720
F	6	8	8	8	8
G	442.5	509.6	623.9	710.6	786.8
ΦH	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
ΦV	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
Adaptor 166p
H/S Jaw 160p
Cylinder 70p

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



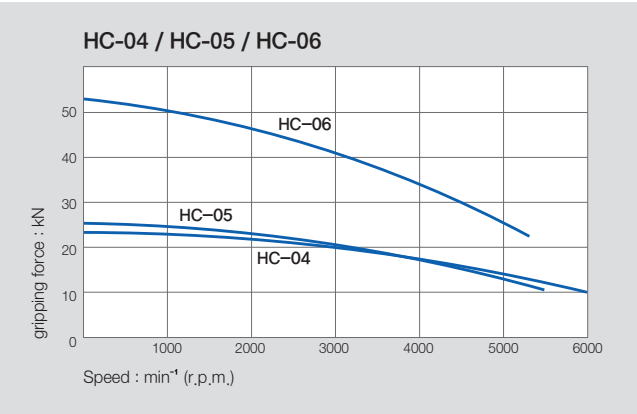
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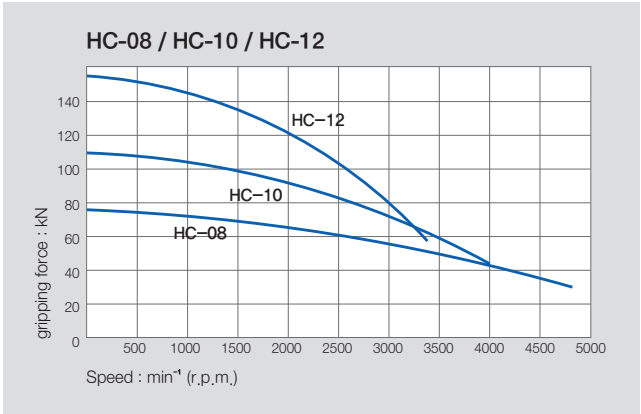
Standard high-speed 3-Jaw wedge-style closed center power chuck with adaptor

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



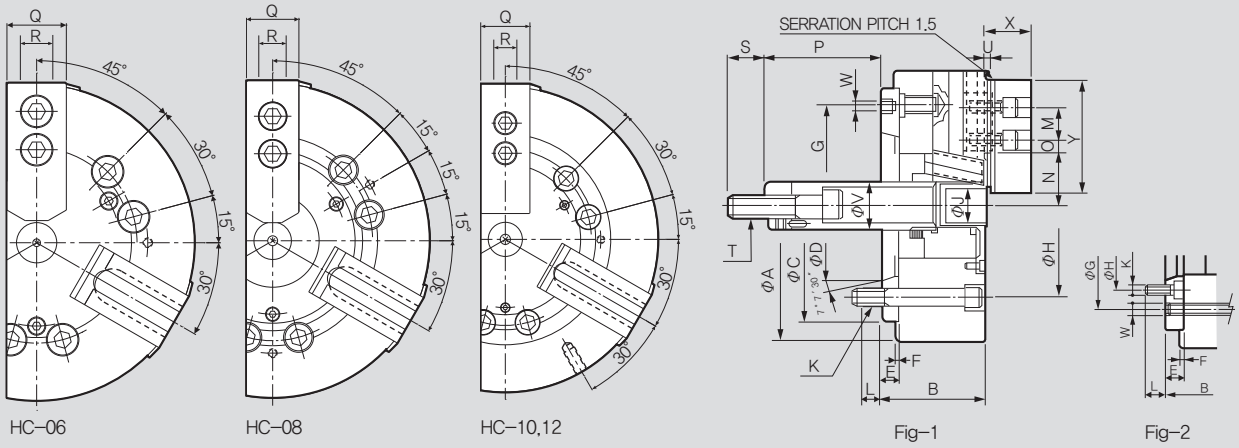


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	5270	4760	4010	4010	3380	3380
Weight [kg]	14	27	40	40	67	66
Moment of inertia [$kg \cdot m^2$]	0.042	0.135	0.3	0.3	1.85	1.85
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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

	HC-06A05	HC-08A06	HC-10A06	HC-10A08	HC-12A06	HC-12A08
ΦA	165	210	254	254	304	304
B	84	97	109	102	125	118
ΦC(H6)	140	170	220	220	220	220
ØD	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
ØG	116	150	171.4	190	171.4	190
ØH	104.8	133.4	133.4	171.4	133.4	171.4
ØJ	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
ΦV	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
H/S Jaw 160p
Cylinder 68p

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



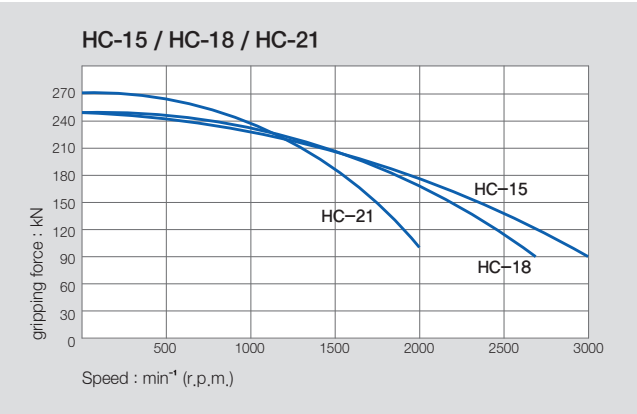
Application

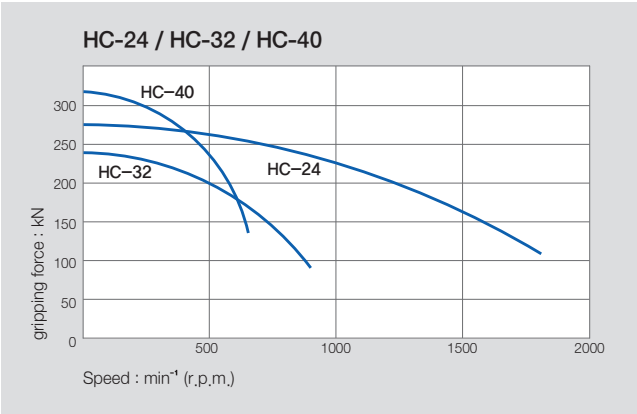
Standard high-speed 3-Jaw wedge-style closed center power chuck with adaptor

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



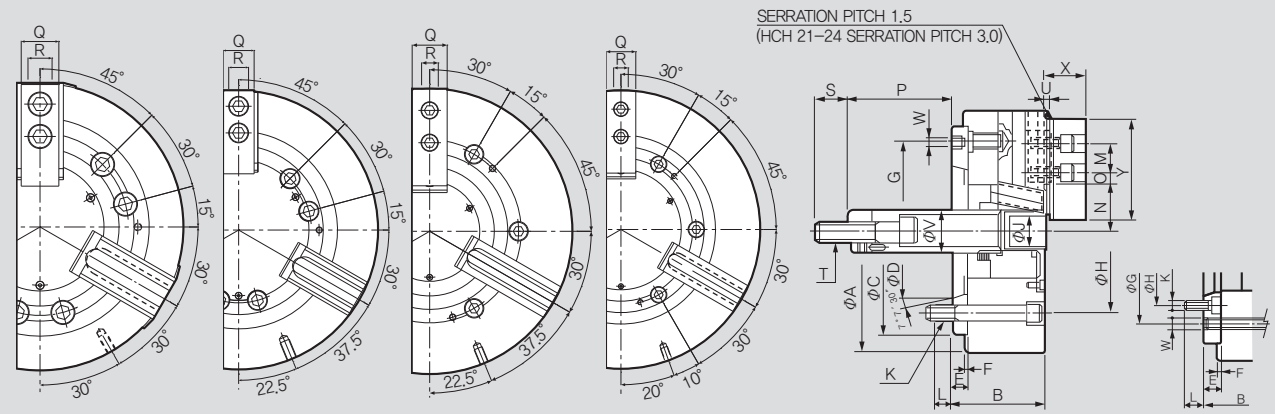


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	3040	3040	2710	2710	1940	1940	1760	1760
Weight [kg]	105	103	134	131	198	190	241	234
Moment of inertia [$kg{\cdot}m^2$]	1.85	1.85	3.2	3.2	7.1	7.1	12.2	12.2
Max. Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Refer to Fig-2 for HC-15A08, HC-18A08, HC-21A11, HC-24A11.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



HC–15 HC–18 HC–21 HC–24 Fig–1 Fig–2

※ 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
ΦA	381	381	450	450	530	530	610	610
B	141	130	141	130	161	146	161	146
ΦC(H6)	300	300	300	300	380	380	380	380
ØD	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
ØG	235	260	235	260	330.2	330.2	330.2	330.2
ØH	171.4	235	171.4	235	235	330.2	235	330.2
ØJ	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
ΦV	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
H/S Jaw 160p
Cylinder 68,70p

HCT 2-Jaw Closed-Center Chuck



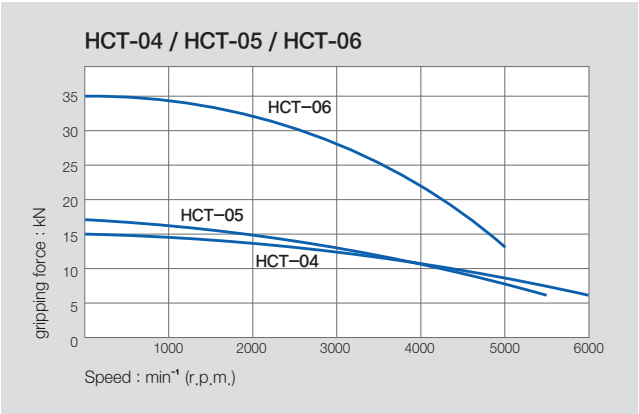
Application

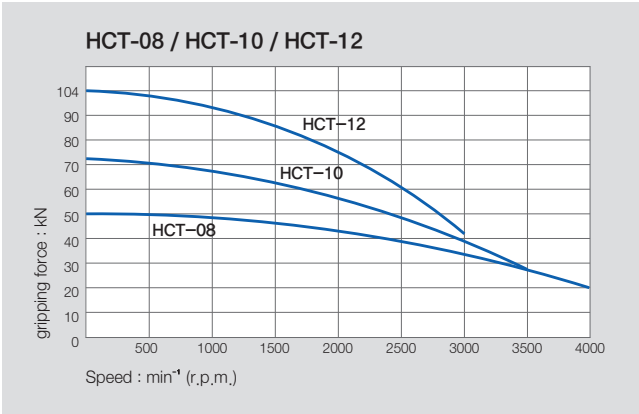
High-speed 2-Jaw wedge-style closed center power chuck

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



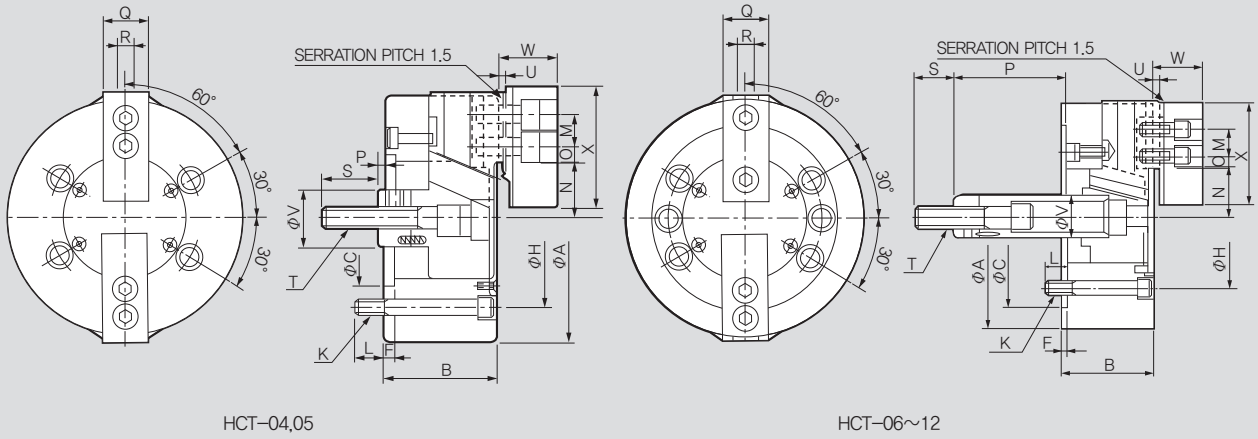


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	6000	5500	5500	4000	3500	3000
Weight [kg]	3.8	5.8	11.4	22	31.6	55
Moment of inertia [$kg \cdot m^2$]	0.007	0.013	0.04	0.13	0.293	0.68
Max.Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ Specifications are subject to change without notice.
※ Samcully 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
Adaptor 166p
H/S Jaw 160p
Cylinder 68p

HCF 4-Jaw Closed-Center Chuck



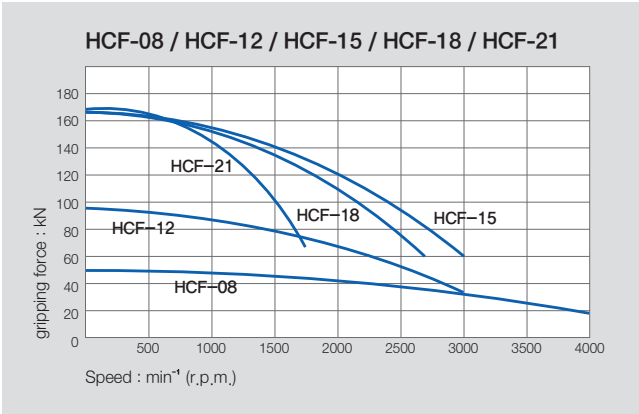
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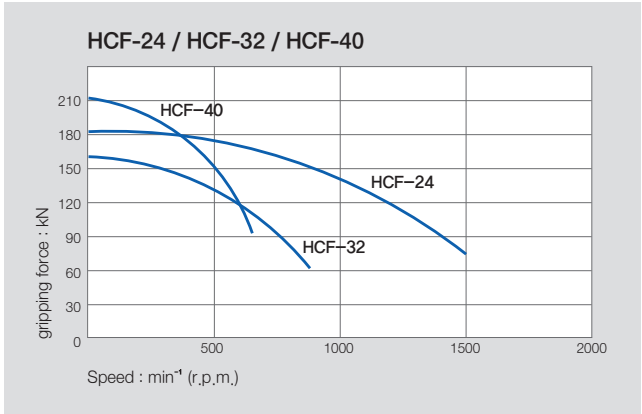
High-speed 4-Jaw wedge-style closed center power chuck

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



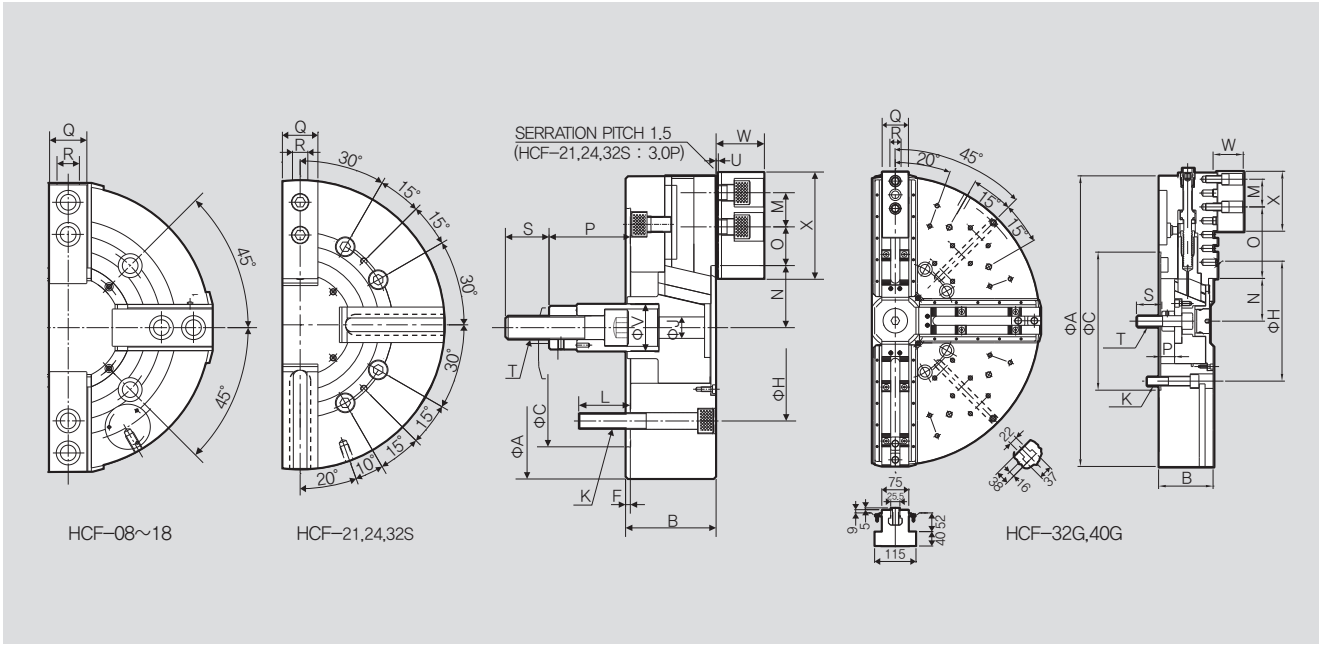


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	4000	3000	3040	2710	1700	1500	800	630
Weight [kg]	22	55	98	124	180	223	350	620
Moment of inertia [$kg \cdot m^2$]	0.14	0.76	2.02	3.57	7.6	12.9	41.2	94
Max.Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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
ΦA	210	304	381	450	530	610	800	800	1000
B	85	106	114	114	125	125	150	150	180
ΦC(H6)	170	220	300	300	380	380	380	380	520
F	5	6	6	6	6	6	6	6	8
ΦH	150	171.4	235	235	330.2	330.2	330.2	330.2	463.6
ΦJ	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
ΦV	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 ro M24 mounting bolts.

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 68,70p

HCL 3-Jaw Closed-Center Long-Stroke Chuck



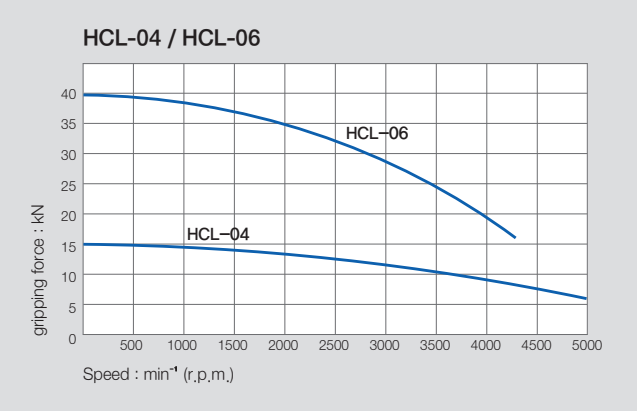
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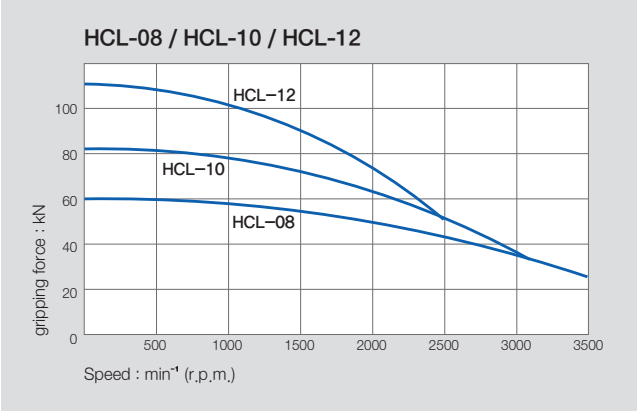
High-speed 3-Jaw wedge-style closed center power chuck (long stroke)

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



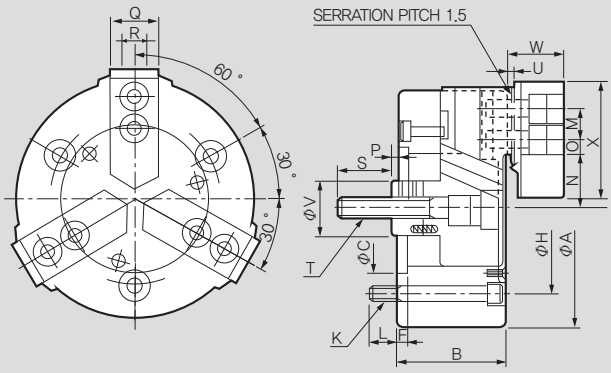


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

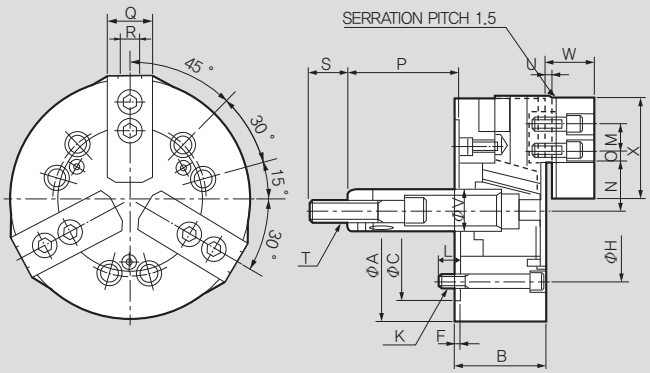
SPECIFICATIONS

	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^{-1}]	5000	4300	3600	3100	2500
Weight [kg]	4.1	12	22.9	34.6	60
Moment of inertia [$kg \cdot m^2$]	0.008	0.045	0.138	0.3	0.725
Max.hydraulic Pressure [$MPa(kgf/cm^2)$]	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)
Operrating 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 measurment.
※ Specifications are subject to change without notice.
※ Samcully Machinery Co., Ltd. is no longer an OEM manufacturer for Kitagawa® Iron Works Co., Ltd.



HCL-04



HCL-06~12

※ 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
ΦA	110	165	210	254	304
B	52	74	85	89	106
ΦC(H6)	60	140	170	220	220
F	6	5	5	5	6
ΦH	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
ΦV	26	34	38	45	50
W	27	35	42	46	54
X	55	72	95	110	129

RELATED PRODUCT
Adaptor 166p
H/S Jaw 160p
Cylinder 68,70p

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



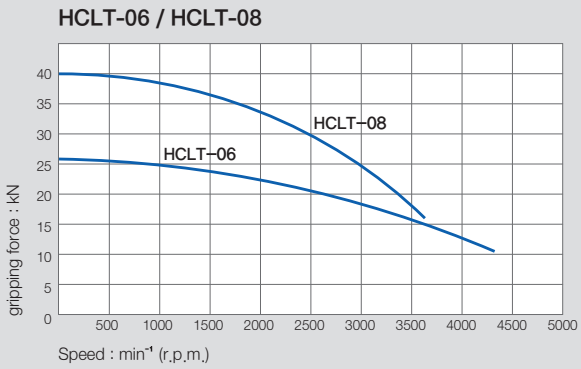
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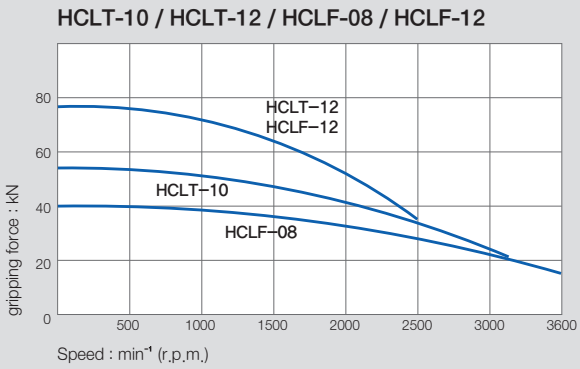
High-speed 2-Jaw, 4-Jaw wedge-style closed center power chuck (long stroke)

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



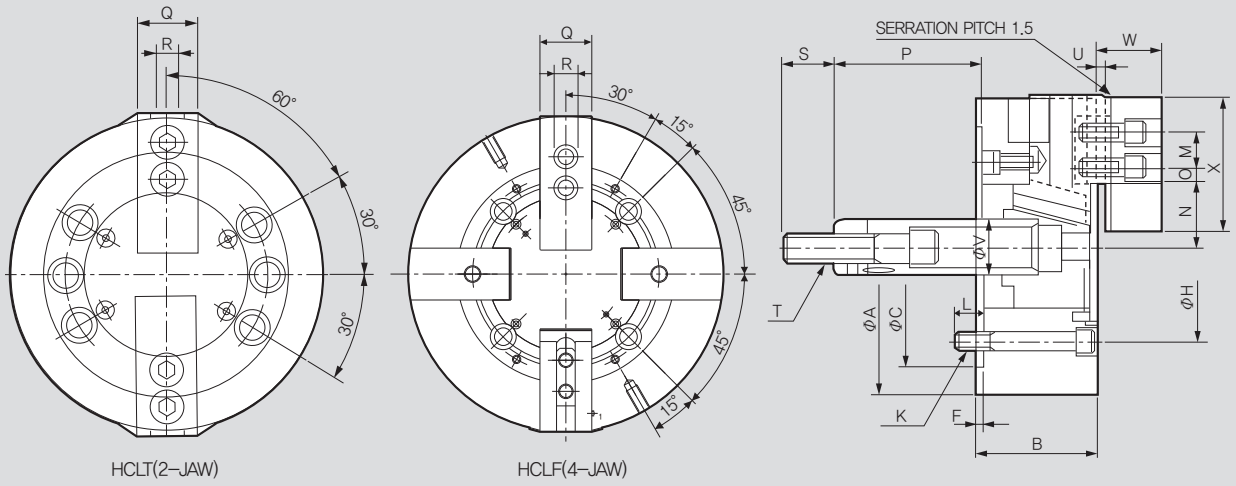


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	4300	3600	3100	2500	3600	2500
Weight [kg]	12.5	12.5	35.5	60.5	24	60.5
Moment of inertia [$kg \cdot m^2$]	0.043	0.133	0.293	0.71	0.132	0.71
Max.Hydraulic Pressure [MPa(kgf/cm^2)]	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 measurment.
※ 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

	HCLT-06	HCLT-08	HCLT-10	HCLT-12	HCLF-08	HCLF-12
ΦA	165	210	254	304	210	304
B	74	85	89	106	85	106
ΦC(H6)	140	170	220	220	170	220
F	5	5	5	6	5	6
ΦH	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
ΦV	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
Adaptor 166p
H/S Jaw 160p
Cylinder 68p

IDF Self centering 2+2 Jaw Power Chuck



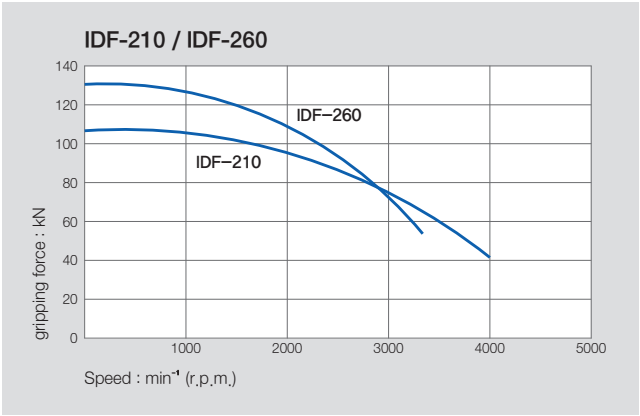
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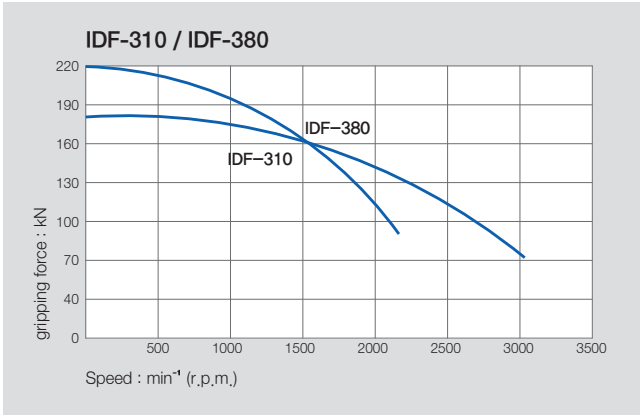
High precision self-centering 4-Jaw power chuck(2+2 Jaw)

Technical features

Ideal for rectangular and square work pieces self-centering in two axles
Single wedge actuation does not require dual-piston cylinder
2+2 Jaw chuck with 2 independent self-centering Jaws

Dynamic Grip Force Diagram



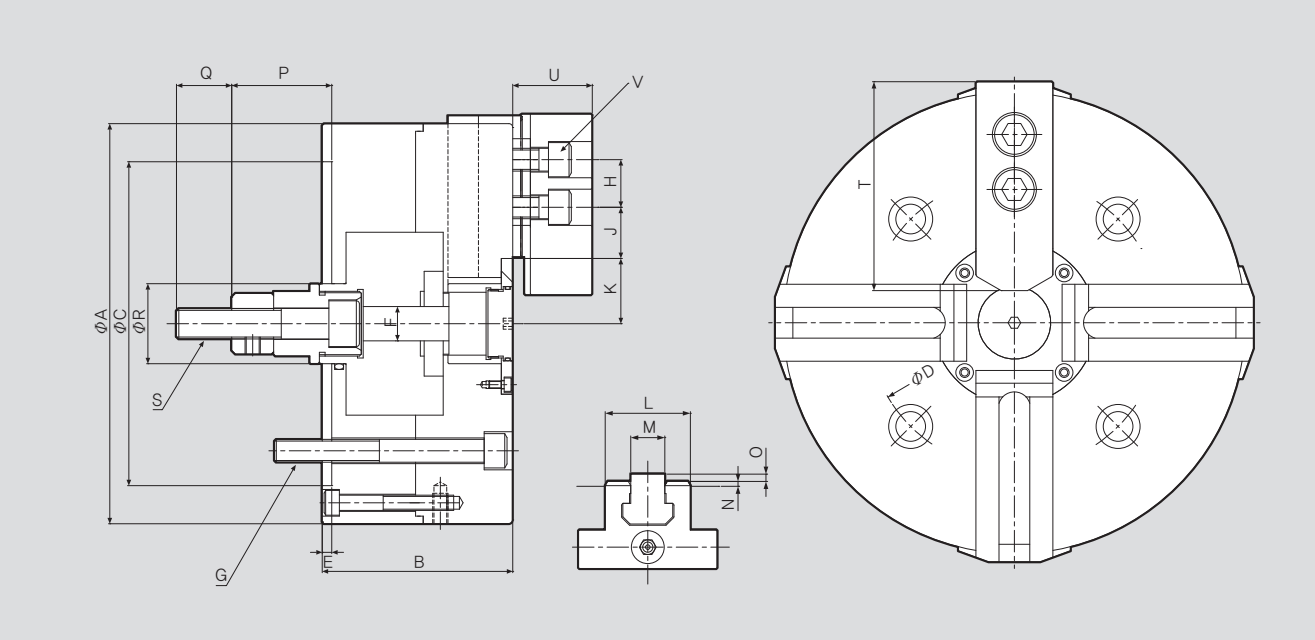


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	4000	3200	3000	2100
Operating Cylinder	Y-1225RE	Y-1530RE	Y-1530RE	Y-2035RE
Weight [kg]	24	43	68	110
Moment of inertia [$kg \cdot m^2$]	0.14	0.39	0.88	2.2

※ Maximum turning speed is based upon actual measurment.
※ Specifications are subject to change without notice.



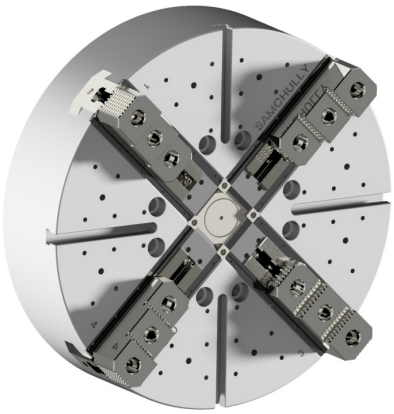
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

	IDF-210	IDF-260	IDF-310	IDF-380
ΦA	210	260	310	380
B	102	120	127	135
ΦC	170	220	220	300
ΦD	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
Cylinder
70p

IDF Self centering 2+2 Jaw Power Chuck



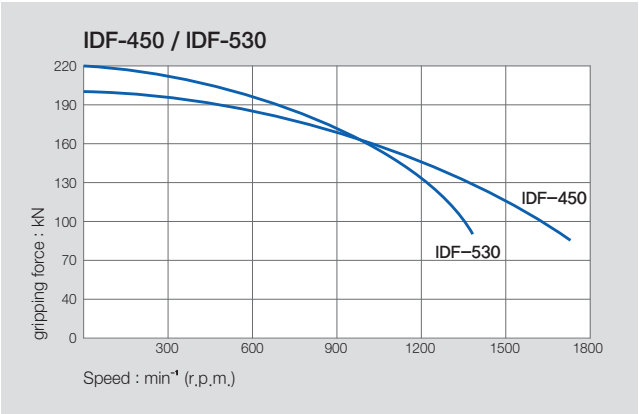
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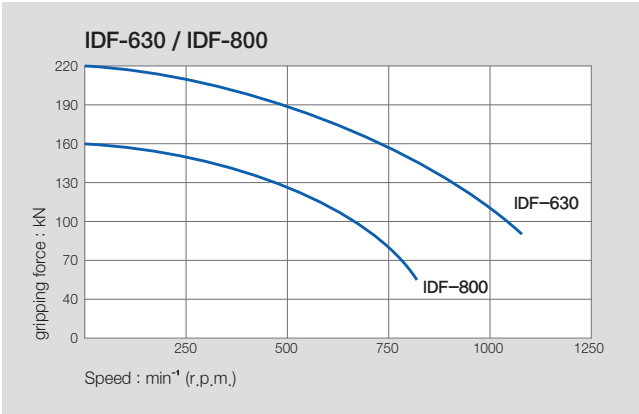
High precision self-centering 4-Jaw power chuck(2+2 Jaw)

Technical features

Ideal for rectangular and square work pieces self-centering in two axles
Single wedge actuation does not require dual-piston cylinder
2+2 Jaw chuck with 2 independent self-centering Jaws

Dynamic Grip Force Diagram



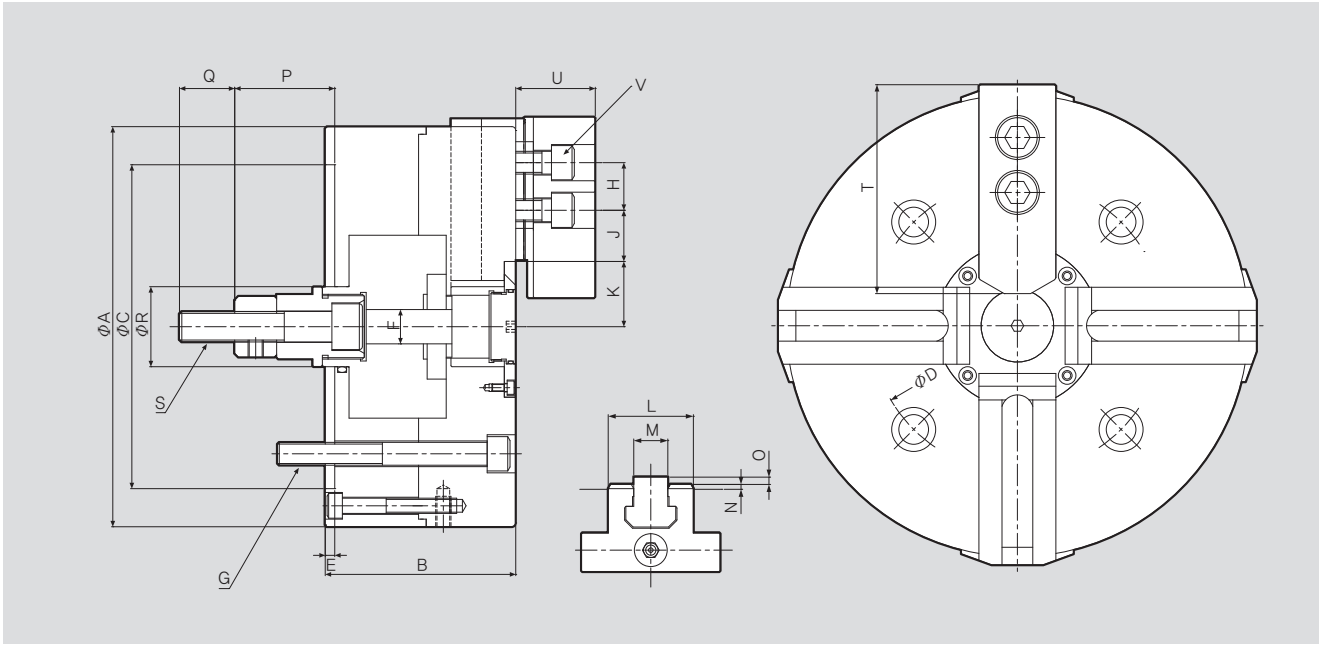


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	1700	1400	1100	800
Operating Cylinder	Y-2035R	Y-2035R	Y-2035R	Y-2560RE
Weight [kg]	180	290	400	425
Moment of inertia [$kg \cdot m^2$]	7.4	15.2	17.7	27.5

※ Maximum turning speed is based upon actual measurment.
※ 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
ΦA	450	530	630	800
B	145	176	188	215
ΦC	300	380	380	380
ΦD	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
Cylinder
70p

IDS Self centering 2+2+2 Jaw Power Chuck



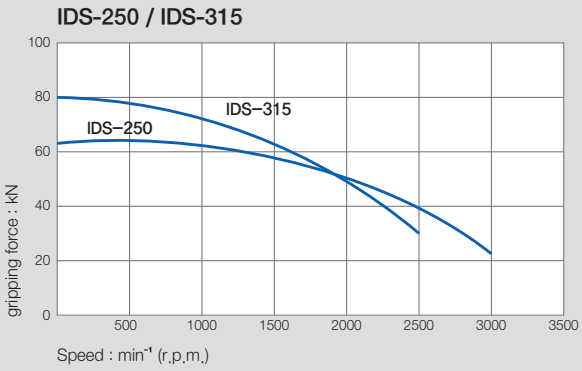
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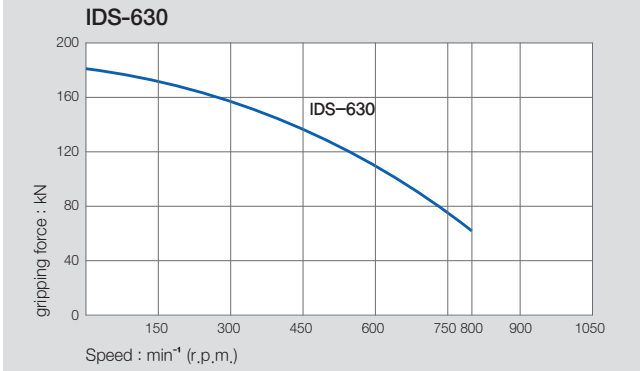
High accuracy Self centering 2+2+2 Jaw power chuck

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



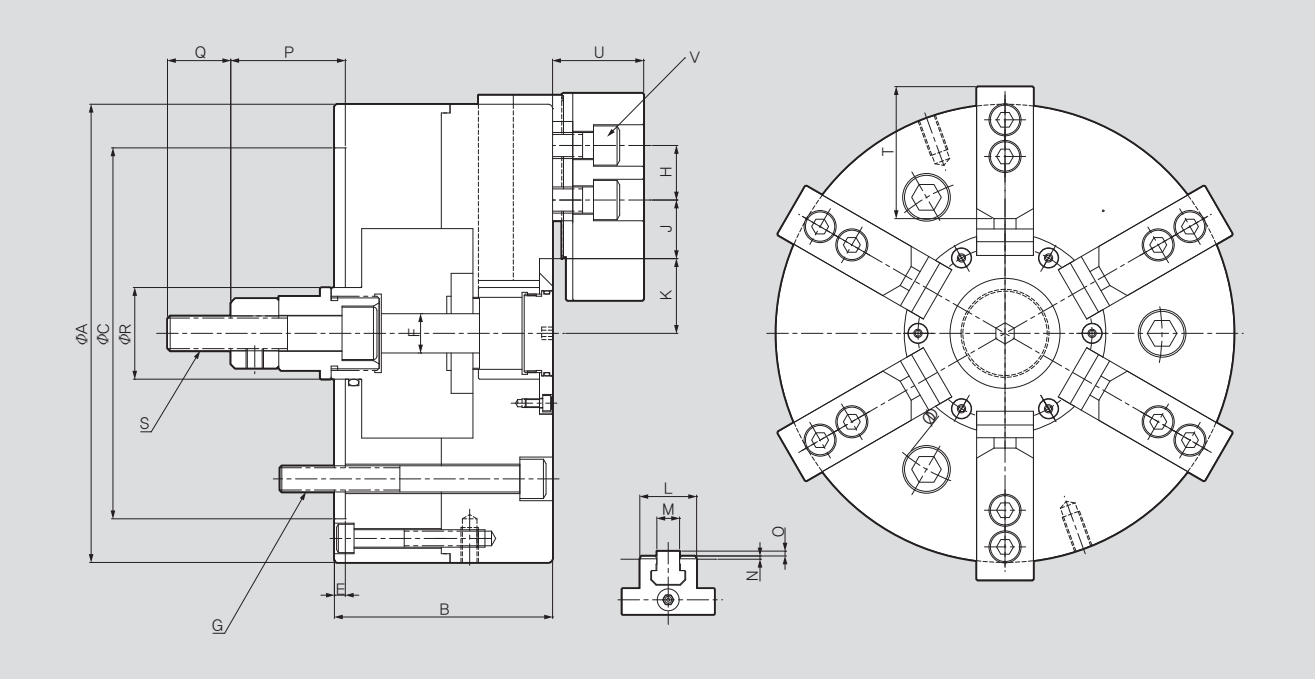


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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. Permissi ble 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^{-1}]	3000	2500	800
Operating Cylinder	Y-1530RE	Y-1530RE	Y-2560RE
Weight [kg]	39	65	425
Moment of inertia [$kg \cdot m^2$]	0.35	0.75	27.5

※ Maximum turning speed is based upon actual measurment.
※ Specifications are subject to change without notice.



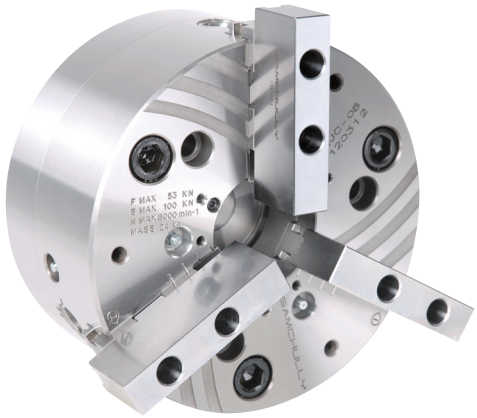
※ It is recommended to grease chucks at least twice a day in order to maximize longevity.

DIMENSIONS

	IDS-250	IDS-315	IDS-630
ΦA	250	315	630
B	113	121	195
ΦC	220	220	380
ØD	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
Cylinder
70p

QJC Quick Jaw Change Chuck



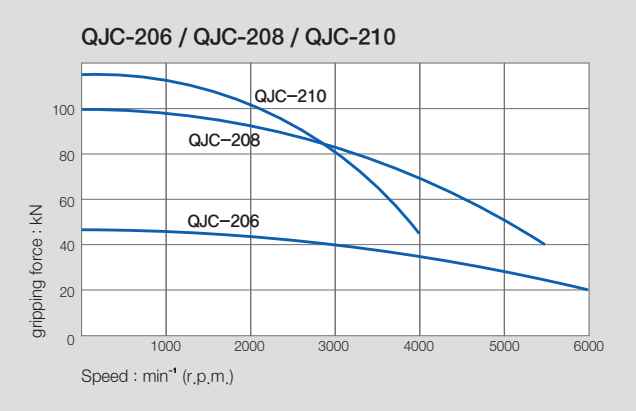
Application

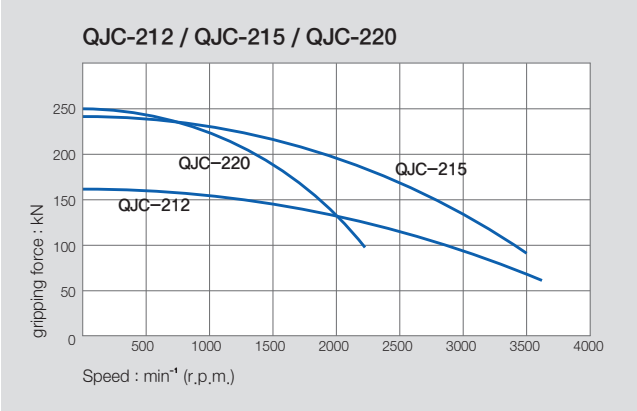
Minimal Jaw set-up times(within 1 minute),
Jaws are reversible(180°)

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



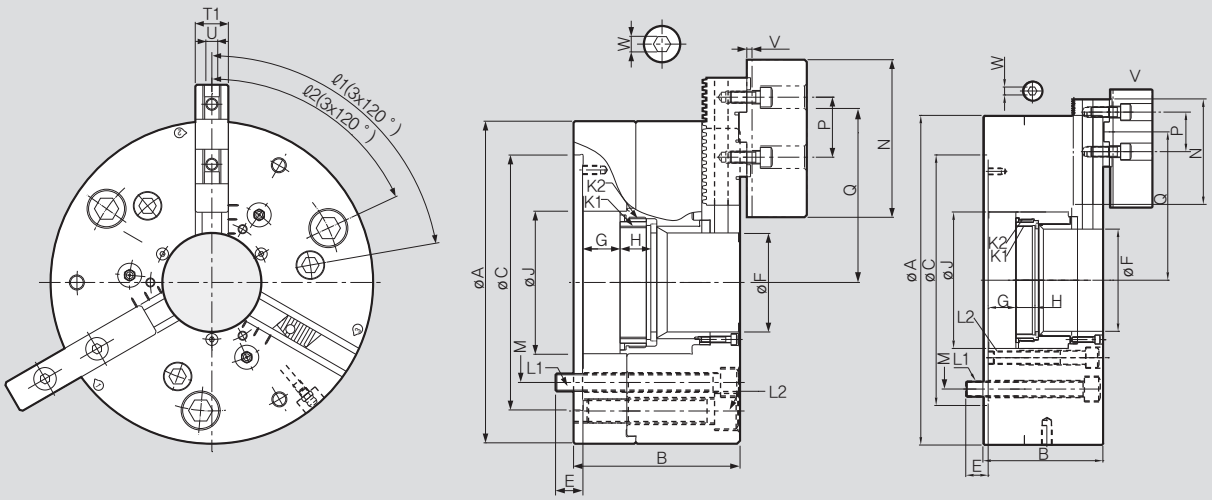


※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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
Pemissible 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^{-1}]	6000	5500	4000	3600	3500	2200
Weight [kg]	13	24	42	66	109	225
Moment of inertia [$kg \cdot m^2$]	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^2)]	3.0(30.5)	3.0(35.6)	3.7(37.7)	4.0(40.7)	4.0(40.7)	2.9(29.5)

Thru Hole Range : Ø45~Ø155
Clamping Range : Ø15~Ø400



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

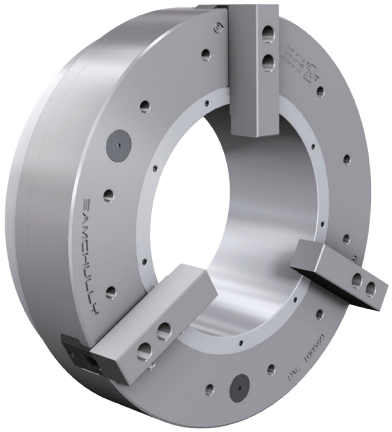
DIMENSIONS

	QJC-206	QJC-208	QJC-210	QJC-212	QJC-215	QJC-220
ΦA	165	215	260	315	400	500
B	95	111	129.3	138.1	144	182
ΦC	140	170	220	220	300	380
E	14	18	23.7	24.9	25	34
ΦF	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
ΦJ	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
ι1	80°	80°	80°	80°	70°	85°
ι2	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
Adaptor 166p
H/S Jaw 160p
Cylinder 62p

PAC-R Mega-Bore Pneumatic Self-Contained Chuck



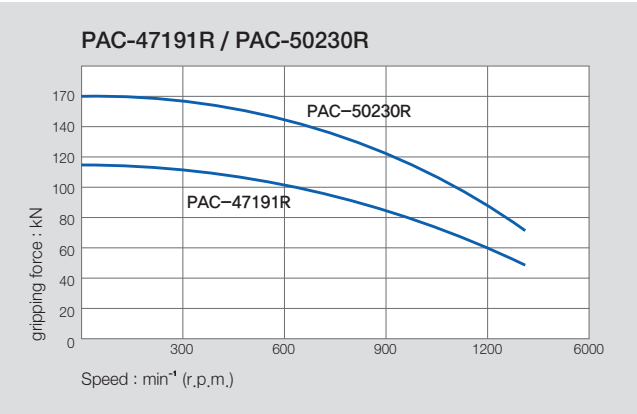
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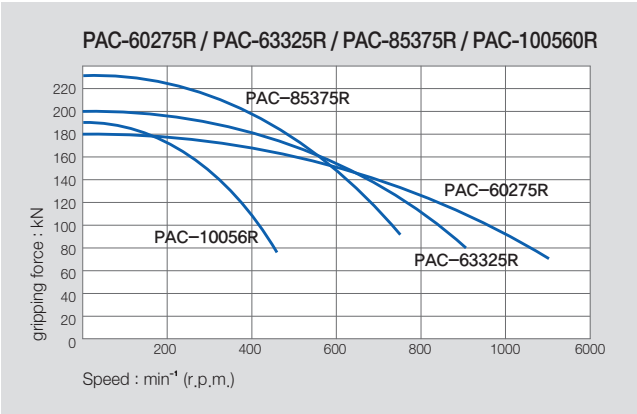
Suitable for large pipe machining, Full spindle through-hole can be used

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



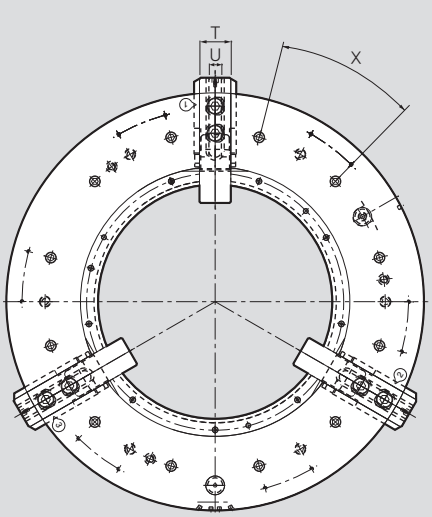


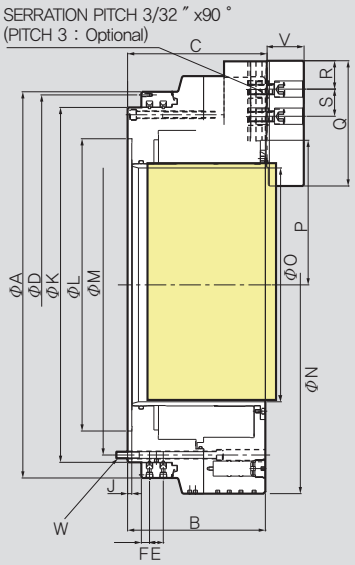
※ When using taller heavier jaw or clamping on a bigger diameter reduce draw pull rotating speed accordingly.

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^{-1}]	1300	1300	1100	900	750	450
Weight [kg]	190	325	355	530	970	960
Moment of inertia [$N{\cdot}m^2$($kg{\cdot}m^2$)]	9.8	16.1	20.6	35.1	105	157.6

Thru Hole Range : Ø191~Ø560
Clamping Range : Ø80~Ø800





※ 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
ΦA	470	570	605	685	850	925
B	238	280	280	305.5	352	330
C	240	282	282	307.5	354	334
ΦD	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
ΦK	400	500	535	610	775	850
ΦL	310	415	450	510	700	700
ΦM	374	474	508	580	745	815
ΦN	470	570	605	685	850	1000
ΦO	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°