



CHUCK

Closed Centre Power Chuck

N series

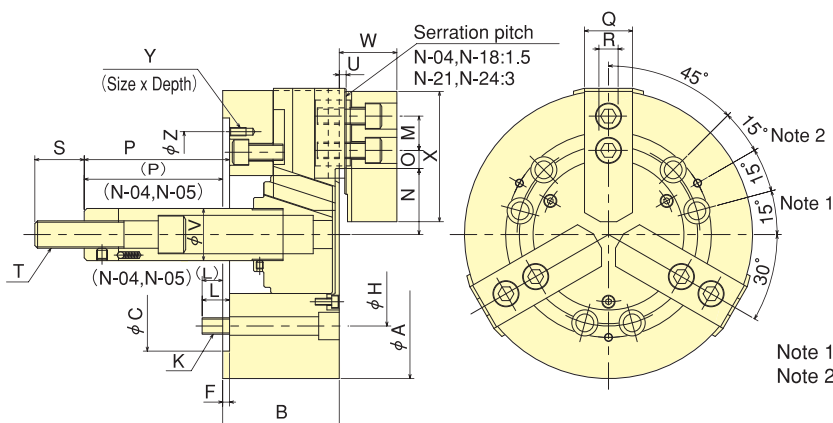
Closed Centre Standard Chuck

The standard Closed Centre chuck

*CE correspondence

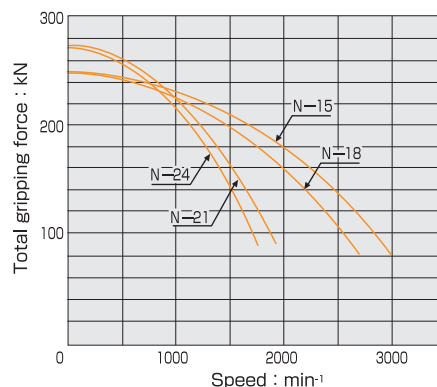
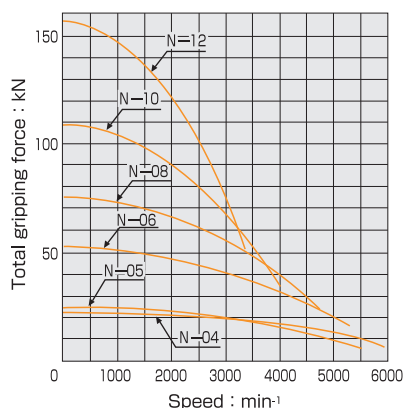


Dimensional Drawings



Gripping Characteristic Graphs

※With standard blank soft top jaw.



Dimensions

※Mounting bolt P. C. D. for N-04 & N-05 : 120° pitch : 3 pcs. ※Mounting bolt P. C. D. for N-21 & N-24 : 60° pitch : 6 pcs.

Dimensions Model	A	B	C (H6)	F	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y	Z
N-04	110	52	60	6	80	-	3-M8	12	14	23.3	20.1	11.25	8.25	18	3	23	10	25	M10×1.5	3	26	27	55	-	-
N-05	135	55	80	7	100	-	3-M8	14	19	30.4	27.2	11.25	6.75	9	-6	23	10	35	M12×1.75	3	28	29	62	-	-
N-06	165	74	140	5	104.8	21	6-M10	14	20	37.8	33.55	13.75	7.75	101.5	81.5	31	12	36	M16×2.0	4	34	35	72	M6×10	116
N-08	210	85	170	5	133.4	25	6-M12	20	25	46.3	41.9	22.25	11.75	127	106	35	14	36	M20×2.5	5	38	42	95	M6×12	150
N-10	254	89	220	5	171.4	34	6-M16	18	30	51.1	46.7	30.75	11.25	158	133	40	16	36	M20×2.5	5	45	46	110	M8×15	190
N-12	304	106	220	6	171.4	34	6-M16	18	30	61	55.75	48.75	12.75	163	133	50	18	36	M20×2.5	5	50	54	129	M8×15	190
N-15	381	114	300	6	235.0	-	6-M20	30	43	77.5	69.5	48.75	23.25	104	69	50	25.5	55	M30×3.5	2	60	61	135	M10×20	260
N-18	450	114	300	6	235.0	-	6-M20	30	43	108	100	48.75	23.25	92	57	50	25.5	55	M30×3.5	2	60	61	135	M10×20	260
N-21	530	125	380	6	330.2	-	6-M22	31	60	86	78	93.5	27.5	97	62	65	25	55	M30×3.5	3	60	71	180	M12×30	330.2
N-24	610	125	380	6	330.2	-	6-M22	31	60	125	117	93.5	27.5	97	62	65	25	55	M30×3.5	3	60	71	180	M12×30	330.2

Specifications

※Max. speed is shown using actual test data. ※For large type more than N-24, confer with KITAGAWA.

Specifications Model	Gripping range mm Max.	Gripping range mm Min.	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching pressure	Cylinder air	Max. pressure MPa(kgf/cm ²)	Matching Hard top jaw	Matching Soft top jaw
N-04	110	8	6.4	15	8.2 (836)	22.8 (2325)	6000	4.1	0.008	Y0715R	AY-1315R	2.40(24.5)	-	SB04B1
N-05	135	16	6.4	15	8.2 (836)	25.2 (2570)	5500	6.2	0.015	Y0715R	AY-1315R	2.40(24.5)	HB05C1	SB05B1
N-06	165	19	8.5	20	18.0(1835)	52.5 (5353)	5270	13.0	0.045	Y1020R	AY-1720R	2.60(26.5)	HB06B1	SB06B1
N-08	210	23	8.8	21	25.0(2549)	75.0 (7648)	4760	25.0	0.138	Y1225R	AY-2225R	2.50(25.5)	HB08A1	SB08B1
N-10	254	24	8.8	25	29.0(2957)	108.0(11013)	4010	37.0	0.300	Y1225R	AY-2225R	2.80(28.6)	HB10A1	SB10B1
N-12	304	26	10.5	30	41.0(4181)	156.0(15907)	3380	57.3	0.725	Y1530R	-	2.70(27.5)	HB12B1	SB12A1
N-15	381	72	16	35	82.0(8362)	249.0(25391)	3040	101.0	1.900	Y2035R	-	3.20(32.6)	HB15N1	SB15N1
N-18	450	133	16	35	82.0(8362)	249.0(25391)	2710	126.0	3.300	Y2035R	-	3.20(32.6)	HB15N1	SB15N1
N-21	530	62	16	35	82.0(8362)	273.0(27838)	1940	198.0	7.100	Y2035R	-	3.20(32.6)	HB18B2	SB18A2
N-24	610	152	16	35	82.0(8362)	273.0(27838)	1760	252.0	12.000	Y2035R	-	3.20(32.6)	HB18B2	SB18A2



CHUCK

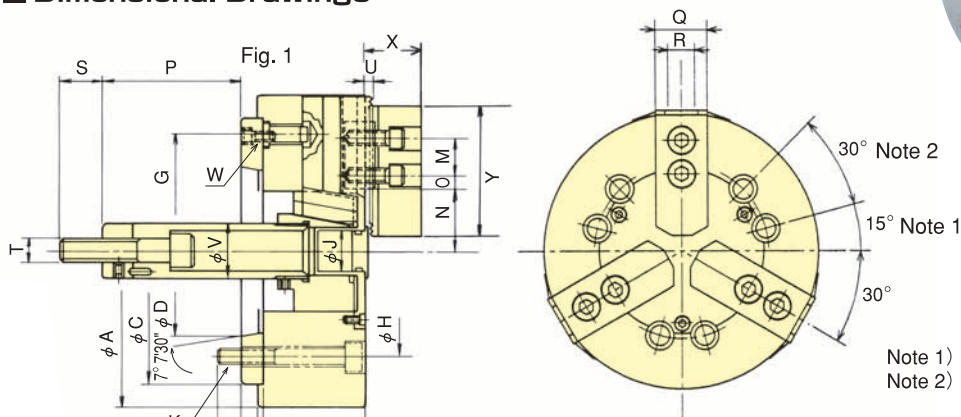
Closed Centre Power Chuck (Direct Mount)

N-A series

Chuck Adaptor is equipped to suit Spindle Nose Closed Centre standard chuck

* CE correspondence

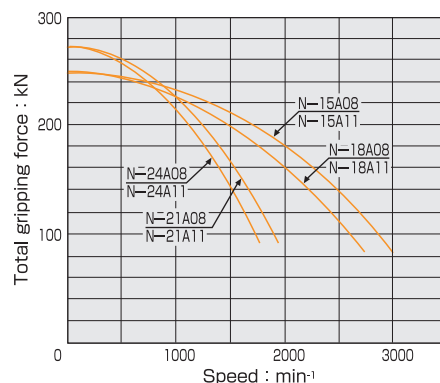
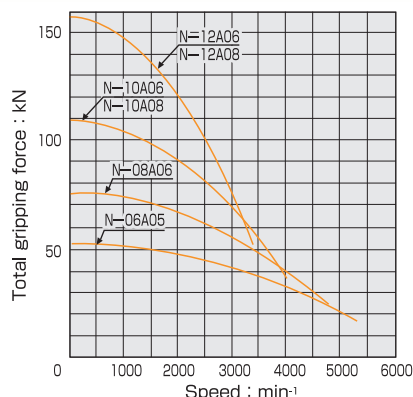
Dimensional Drawings



Standard Chuck

Gripping Characteristic Graphs

*With standard blank soft top jaw.



Dimensions *N-10A06, N-12A06, N-15A08, N-18A08, N-21A08, N-21A11, N-24A11 are referred to in Fig-2 *Mounting Bolt P.C.D for N-21A08~N-24A15: 60° Pitch : 6pcs..

Dimensions	A	B	C	D	E	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y
N-06A05	165	84	140	82.563	15	5	116	104.8	21	6-M10	14	20	37.8	33.55	13.75	7.75	86.5	66.5	31	12	36	M16x2.0	4	34	3-M6	35	72
N-08A06	210	97	170	106.375	17	5	150	133.4	25	6-M12	18	25	46.3	41.9	22.25	11.75	110	89	35	14	36	M20x2.5	5	38	3-M6	42	95
N-10A06	254	104	220	106.375	20	5	171.4	133.4	34	6-M12	18	30	51.1	46.7	30.75	11.25	114	89	40	16	36	M20x2.5	5	45	6-M16	46	110
N-10A08	254	102	220	139.719	18	5	190	171.4	34	6-M16	25	30	51.1	46.7	30.75	11.25	140	115	40	16	36	M20x2.5	5	45	3-M8	46	110
N-12A06	304	120	220	106.375	20	6	171.4	133.4	34	6-M12	18	30	61	55.75	48.75	12.75	119	89	50	18	36	M20x2.5	5	50	6-M16	54	129
N-12A08	304	118	220	139.719	18	6	190	171.4	34	6-M16	25	30	61	55.75	48.75	12.75	145	115	50	18	36	M20x2.5	5	50	3-M8	54	129
N-15A08	381	130	300	139.719	22	6	235.0	171.4	-	6-M16	23	43	77.5	69.5	48.75	23.25	82	47	50	25.5	55	M30x3.5	2	60	6-M20	61	135
N-15A11	381	130	300	196.869	22	6	260	235.0	-	6-M20	33	43	77.5	69.5	48.75	23.25	82	47	50	25.5	55	M30x3.5	2	60	3-M10	61	135
N-18A08	450	130	300	139.719	22	6	235.0	171.4	-	6-M16	23	43	108	100	48.75	23.25	70	35	50	25.5	55	M30x3.5	2	60	6-M20	61	135
N-18A11	450	130	300	196.869	22	6	260	235.0	-	6-M20	33	43	108	100	48.75	23.25	70	35	50	25.5	55	M30x3.5	2	60	3-M10	61	135
N-21A08	530	146	380	139.719	27	6	330.2	171.4	-	6-M16	23	60	86	78	93.5	27.5	70	35	65	25	55	M30x3.5	3	60	6-M22	71	180
N-21A11	530	146	380	196.869	27	6	330.2	235.0	-	6-M20	28	60	86	78	93.5	27.5	70	35	65	25	55	M30x3.5	3	60	6-M22	71	180
N-24A15	530	146	380	285.775	27	6	330.2	330.2	-	6-M22	34	60	86	78	93.5	27.5	70	35	65	25	55	M30x3.5	3	60	3-M12	71	180
N-24A11	610	146	380	196.869	27	6	330.2	235.0	-	6-M20	28	60	125	117	93.5	27.5	70	35	65	25	55	M30x3.5	3	60	6-M22	71	180
N-24A15	610	146	380	285.775	27	6	330.2	330.2	-	6-M22	34	60	125	117	93.5	27.5	70	35	65	25	55	M30x3.5	3	60	3-M12	71	180

Specifications *Max. speed is shown using actual test data.

Specifications	Gripping range mm	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia N·m ² (kg·m ²)	Matching pressure	Cylinder air	Max. pressure MPa (kgf/cm ²)	Matching Hard top jaw	Matching Soft top jaw	Spindle nose size
N-06A05	165 19	8.5	20	18.0 (1835)	52.5 (5353)	5270	14.0	0.050	Y1020R	AY1720R	2.60 (26.5)	HB06B1	SB06B1	A2-5
N-08A06	210 23	8.8	21	25.0 (2549)	75.0 (7648)	4760	27.0	0.148	Y1225R	AY2225R	2.50 (25.5)	HB08B1	SB08B1	A2-6
N-10A06	254 24	8.8	25	29.0 (2957)	108.0 (11013)	4010	40.0	0.335	Y1225R	AY2225R	2.80 (28.6)	HB10A1	SB10B1	A2-6
N-10A08	254 24	8.8	25	29.0 (2957)	108.0 (11013)	4010	40.0	0.328	Y1225R	AY2225R	2.80 (28.6)	HB10A1	SB10B1	A2-8
N-12A06	304 26	10.5	30	41.0 (4181)	156.0 (15907)	3380	67.0	0.760	Y1530R	-	2.70 (27.5)	HB12B1	SB12A1	A2-6
N-12A08	304 26	10.5	30	41.0 (4181)	156.0 (15907)	3380	66.0	0.753	Y1530R	-	2.70 (27.5)	HB12B1	SB12A1	A2-8
N-15A08	381 72	16	35	82.0 (8362)	249.0 (25391)	3040	111.0	2.000	Y2035R	-	3.20 (32.6)	HB15N1	SB15N1	A2-8
N-15A11	381 72	16	35	82.0 (8362)	249.0 (25391)	3040	108.0	2.000	Y2035R	-	3.20 (32.6)	HB15N1	SB15N1	A2-11
N-18A08	450 133	16	35	82.0 (8362)	249.0 (25391)	2710	136.0	3.400	Y2035R	-	3.20 (32.6)	HB15N1	SB15N1	A2-8
N-18A11	450 133	16	35	82.0 (8362)	249.0 (25391)	2710	133.0	3.400	Y2035R	-	3.20 (32.6)	HB15N1	SB15N1	A2-11
N-21A08	530 62	16	35	82.0 (8362)	273.0 (27838)	1940	219.0	7.500	Y2035R	-	3.20 (32.6)	HB18B2	SB18A2	A2-8
N-21A11	530 62	16	35	82.0 (8362)	273.0 (27838)	1940	216.0	7.500	Y2035R	-	3.20 (32.6)	HB18B2	SB18A2	A2-11
N-24A15	530 62	16	35	82.0 (8362)	273.0 (27838)	1940	225.0	7.700	Y2035R	-	3.20 (32.6)	HB18B2	SB18A2	A2-15
N-24A11	610 152	16	35	82.0 (8362)	273.0 (27838)	1760	270.0	12.400	Y2035R	-	3.20 (32.6)	HB18B2	SB18A2	A2-11
N-24A15	610 152	16	35	82.0 (8362)	273.0 (27838)	1760	263.0	12.300	Y2035R	-	3.20 (32.6)	HB18B2	SB18A2	A2-15

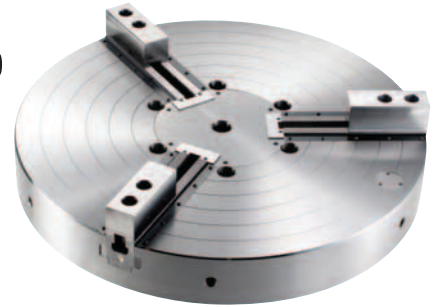


CHUCK

Large Power Chuck for Vertical Lathes

NV series

Low maintenance Power Chuck for Vertical Lathes Sealed Base Jaw to prevent Swarf and Coolant ingress



- Protection against Swarf and Coolant Protector and Scraper at Base Jaw prevent Swarf and Coolant ingress.

- Standard Jaw NV series is compatible with standard Hard and Soft Jaws as sealing is at the Base Jaw.

*CE correspondence

Dimensional Drawings

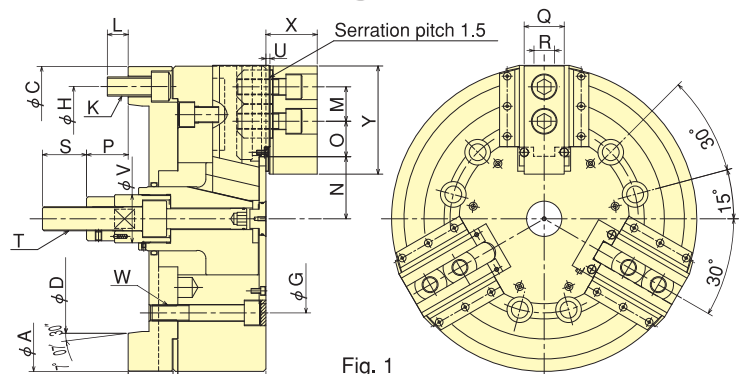


Fig. 1

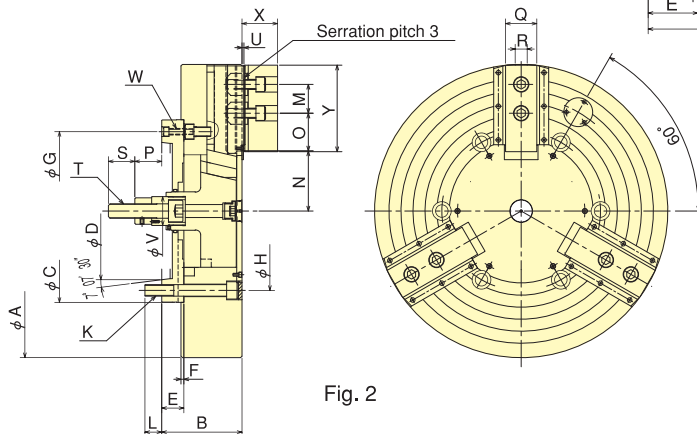
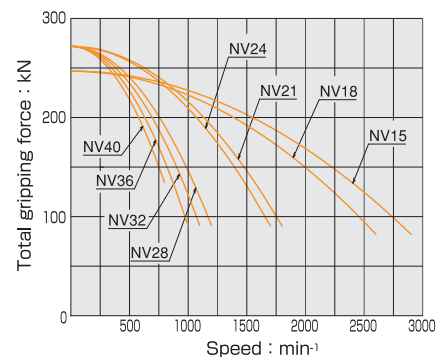


Fig. 2

Gripping Characteristic Graphs

※With standard blank soft top jaw.



Dimensions ※NV15&18 are based on Fig.1. NV21~40 are based on Fig.2.

Model	A	B	C	D	E	F	G	H	J	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y
NV15C15	381	172	380	285.775	62	6	235.0	330.2	—	6-M24	26	43	77.5	69.5	48.75	23.25	91	56	50	25.5	55	M30	5	60	6-M20	64	135
NV18C15	450	172	380	285.775	62	6	235.0	330.2	—	6-M24	26	43	108.0	100.0	48.75	23.25	91	56	50	25.5	55	M30	5	60	6-M20	64	135
NV21C15	530	167	380	285.775	46	6	330.2	330.2	—	6-M24	35	60	86.0	78.0	93.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180
NV24C15	610	167	380	285.775	46	6	330.2	330.2	—	6-M24	29	60	125.0	117.0	93.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180
NV28C15	700	167	380	285.775	46	6	330.2	330.2	—	6-M24	29	60	125.0	117.0	141.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180
NV32C15	800	167	380	285.775	46	6	330.2	330.2	—	6-M24	29	60	125.0	117.0	189.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180
NV36C15	914	167	380	285.775	46	6	330.2	330.2	—	6-M24	29	60	125.0	117.0	249.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180
NV40C15	1000	167	380	285.775	46	6	330.2	330.2	—	6-M24	29	60	125.0	117.0	282.50	27.50	91	56	65	25.0	55	M30	6	60	3-M12	74	180

※The above dimensions are for mounting back plate of 15-nose. The back plate of 11-nose can also be mounted.

Specifications

Model	Gripping range mm Max. Min.	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching Cylinder	Max. pressure MPa (kgf/cm ²)	Matching Soft top jaw	Spindle nose size
NV15C15	381 72	16	35	82 (8362)	247 (25187)	2900	139	2.700	Y2035R	3.2 (32.6)	SB15N1	A ₂ -15
NV18C15	450 133	16	35	82 (8362)	247 (25187)	2600	166	4.100	Y2035R	3.2 (32.6)	SB15N1	A ₂ -15
NV21C15	530 62	16	35	82 (8362)	272 (27736)	1800	227	7.600	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15
NV24C15	610 152	16	35	82 (8362)	272 (27736)	1700	282	12.800	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15
NV28C15	700 152	16	35	82 (8362)	272 (27736)	1200	360	21.900	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15
NV32C15	800 152	16	35	82 (8362)	272 (27736)	1100	472	37.200	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15
NV36C15	914 152	16	35	82 (8362)	272 (27736)	1000	594	62.400	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15
NV40C15	1000 152	16	35	82 (8362)	272 (27736)	800	738	91.500	Y2035R	3.2 (32.6)	SB18A2	A ₂ -15

※The above specifications are for mounting back plate of 15-nose. The back plate of 11-nose can also be mounted.



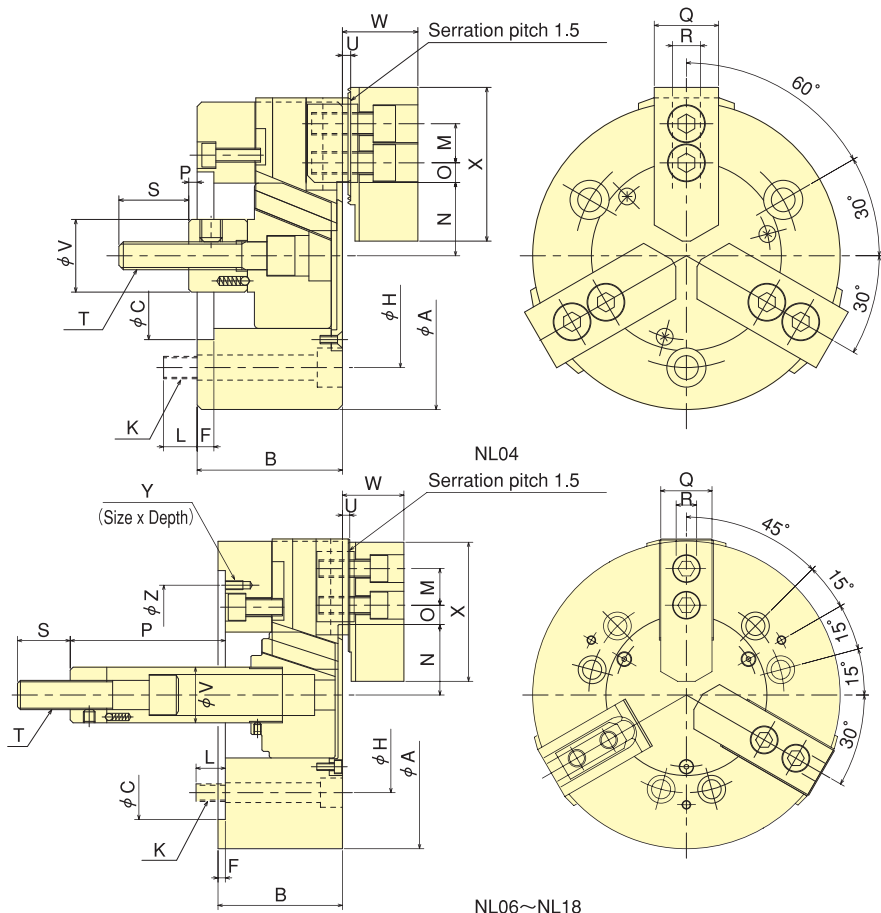
CHUCK

Closed Centre Power Chuck (Long Stroke) NL series

Extra Long Jaw Stroke Flange work securely gripped

*CE correspondence

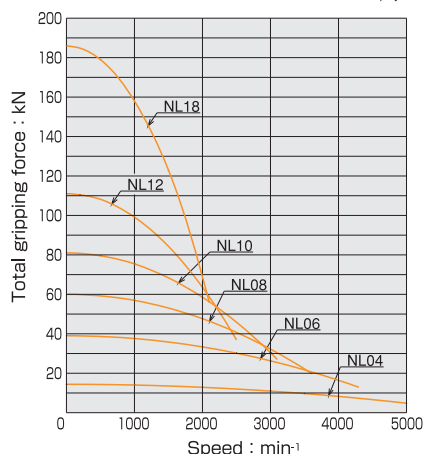
Dimensional Drawings



Standard Chuck

Gripping Characteristic Graphs

*With standard blank soft top jaw.



Dimensions

Dimensions Model	A	B	C (H6)	F	H	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y	Z
NL04	110	52	60	6	80	3-M 8	12	14	26.5	20.45	9.75	6.75	18	3	23	10	25	M10×1.5	3	26	27	55	-	-
NL06	165	74	140	5	104.8	6-M10	14	20	40.5	34	13.75	9.25	101.5	81.5	31	12	36	M16×2.0	4	34	35	72	M6×10	116
NL08	210	85	170	5	133.4	6-M12	20	25	48.1	40	20.75	11.75	131	106	35	14	36	M20×2.5	5	38	42	95	M6×12	150
NL10	254	89	220	5	171.4	6-M16	18	30	54.4	45.35	29.5	11.5	161	133	40	16	36	M20×2.5	5	45	46	110	M8×15	190
NL12	304	106	220	6	171.4	6-M16	18	30	65.7	56	42.75	12.75	47	17	50	18	46	M24×3.0	5	50	54	129	M8×15	190
NL18	450	114	300	6	235	6-M20	30	43	110.5	97.5	47.25	23.25	97	57	50	25.5	55	M30	2	55	61	135	M10×20	260

Specifications

Specifications Model	Gripping range mm		Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m²	Matching Cylinder	Max. pressure MPa (kgf/cm²)	Matching Hard top jaw	Matching Soft top jaw
	Max.	Min.											
NL04	110	12	12.1	15	10.0(1020)	14.4 (1468)	5000	4.1	0.008	Y0715R	2.90(29.6)		SB04B1
NL06	165	22	13	20	21.0(2141)	39.0 (3977)	4300	12.0	0.045	Y1020R	3.00(30.6)	HB06B1	SB06B1
NL08	210	23	16.2	25	30.0(3059)	60.0 (6118)	3600	22.9	0.138	Y1225R	2.90(29.6)	HB08A1	SB08B1
NL10	254	27	18.1	28	40.0(4079)	81.0 (8260)	3100	34.6	0.300	Y1530R	2.80(28.6)	HB10A1	SB10A1
NL12	304	33	19.4	30	54.0(5506)	111.0(11319)	2500	60.0	0.725	Y1530R	3.60(36.7)	HB12B1	SB12A1
NL18	450	124	26	40	91.0(9279)	186.0(18966)	2100	124.0	2.350	Y2050R	3.50(35.9)		SB15N1



CHUCK

Closed Centre Power Chuck (Long Stroke, Direct Mount)

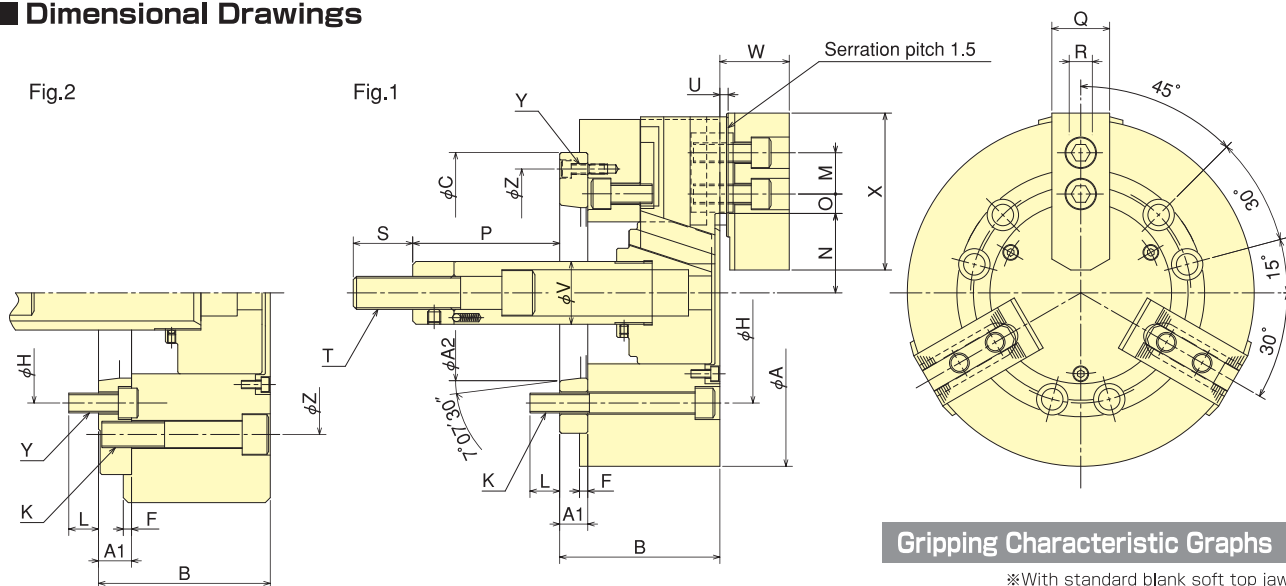
NL-A series

Chuck Adaptor is equipped to suit Spindle Nose Flange work securely gripped

* CE correspondence

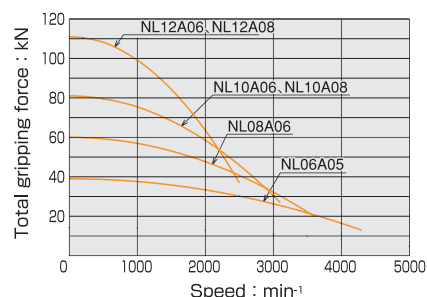


Dimensional Drawings



Gripping Characteristic Graphs

*With standard blank soft top jaw.



Dimensions *NL10A06 and NL12A06 are based on Fig. 2.

Dimensions Model	A	B	C	F	H	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y	Z	A1	A2
NL06A05	165	84	140	5	104.8	6-M10	14	20	40.5	34	13.75	9.25	86.5	66.5	31	12	36	M16	4	34	35	72	3-M6	116	15	82.563
NL08A06	210	97	170	5	133.4	6-M12	18	25	48.1	40	20.75	11.75	114	89	35	14	36	M20	5	38	42	95	3-M6	150	17	106.375
NL10A06	254	104	220	5	133.4	6-M16	18	30	54.4	45.35	29.5	11.5	141	113	40	16	36	M20	5	45	46	110	6-M12	171.4	20	106.375
NL10A08	254	102	220	5	171.4	6-M16	25	30	54.4	45.35	29.5	11.5	143	115	40	16	36	M20	5	45	46	110	3-M8	190	18	139.719
NL12A06	304	120	220	6	133.4	6-M16	18	30	65.7	56	42.75	12.75	3	-27	50	18	46	M24	5	50	54	129	6-M12	171.4	20	106.375
NL12A08	304	118	220	6	171.4	6-M16	25	30	65.7	56	42.75	12.75	1	-29	50	18	46	M24	5	50	54	129	3-M8	190	18	139.719

Specifications

Specifications Model	Gripping range mm Max.	Gripping range mm Min.	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m²	Matching Cylinder	Max. pressure MPa (kgf/cm²)	Matching Hard top jaw	Matching Soft top jaw
NL06A05	165	22	13	20	21.0(2141)	39.0 (3977)	4300	12.5	0.048	Y1020R	3.00(30.6)	HB06B1	SB06B1
NL08A06	210	23	16.2	25	30.0(3059)	60.0 (6118)	3600	24.5	0.148	Y1225R	2.90(29.6)	HB08A1	SB08B1
NL10A06	254	27	18.1	28	40.0(4079)	81.0 (8260)	3100	40.0	0.335	Y1530R	2.80(28.6)	HB10A1	SB10A1
NL10A08	254	27	18.1	28	40.0(4079)	81.0 (8260)	3100	37.6	0.326	Y1530R	2.80(28.6)	HB10A1	SB10A1
NL12A06	304	33	19.4	30	54.0(5506)	111.0(11319)	2500	64.6	0.759	Y1530R	3.60(36.7)	HB12B1	SB12A1
NL12A08	304	33	19.4	30	54.0(5506)	111.0(11319)	2500	63.0	0.750	Y1530R	3.60(36.7)	HB12B1	SB12A1



CHUCK

Mega-Long Stroke Chuck

ML series

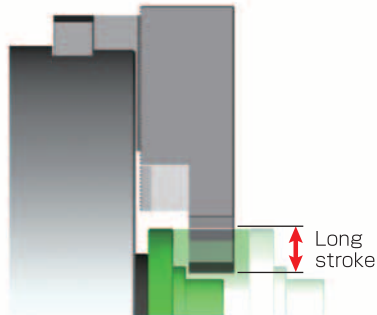
Exceptionally long Jaw stroke
Suitable for Multi-Diameter gripping and flange work

* CE correspondence



Standard Chuck

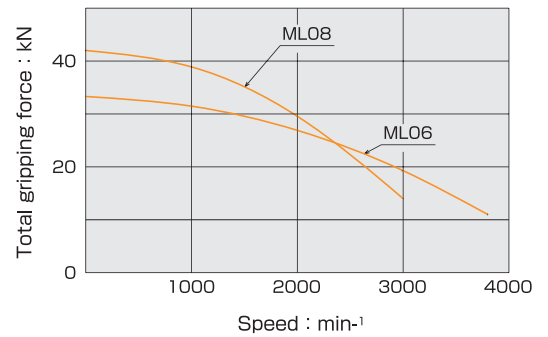
Gripping Example



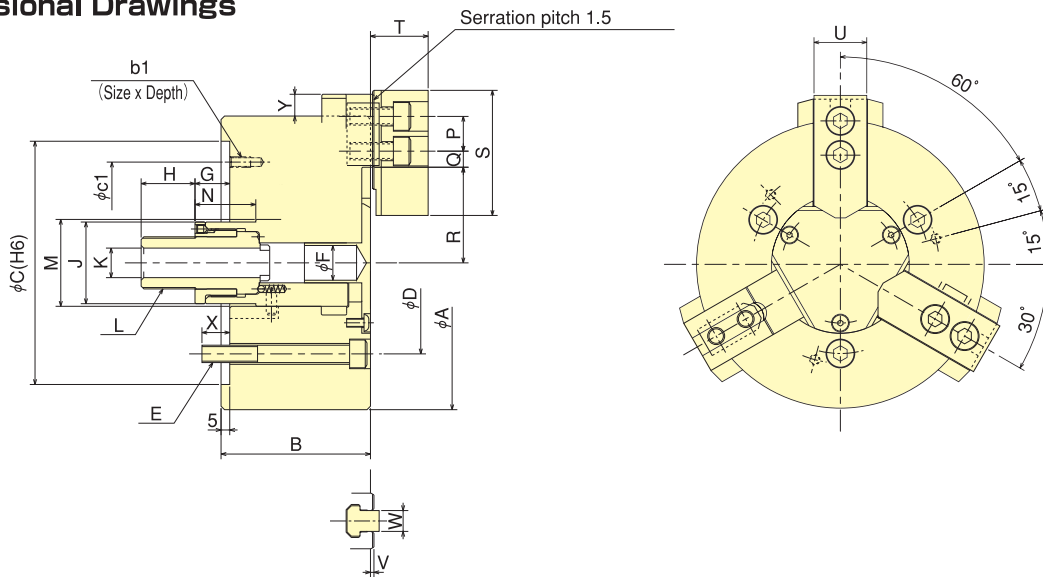
● Suitable for works with large flange

Gripping Characteristic Graphs

*With standard blank soft top jaw.



Dimensional Drawings



Dimensions

Model	A	B	C	D	E	F	G max.	G min.	H	J	K	L	M	N	P	Q max.	Q min.
ML06	169	86	140	104.8	3-M10	20	40	20	31	47	17	M30×1.5	50	35	20	13.75	9.25
ML08	215	99	170	133.4	3-M12	20	34	9	34	54	17	M33×1.5	70	29	25	17.75	11.75

Model	R max.	R min.	S	T	U	V	W	X	Y max.	b1	c1
ML06	55	35	72	33.2	31	2	12	16	12.5	3-M6×12	116
ML08	65.6	40.6	95	39.2	35	2	14	21	12.1	3-M6×12	150

Specifications

Model	Gripping range mm	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching Cylinder	Max. pressure MPa (kgf/cm ²)	Matching Soft top jaw
ML06	Max. 169 Min. 55	40	20	36.0 (3671)	33.0 (3365)	3800	13.7	0.048	Y1225R	3.46 (35.3)	SB06B1
ML08	Max. 215 Min. 54	50	25	45.0 (4589)	42.0 (4283)	3000	26.0	0.167	Y1530R	3.06 (31.2)	SB08B1



CHUCK

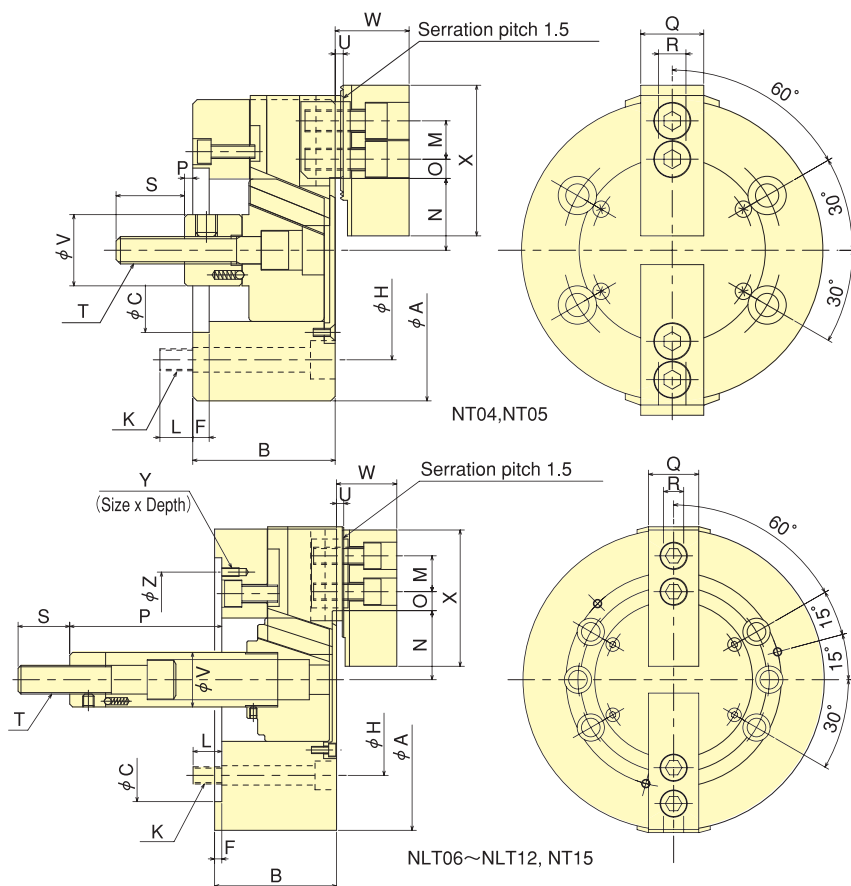
2-Jaw Closed Center Power Chuck (NLT-Long Stroke)

NT·NLT series

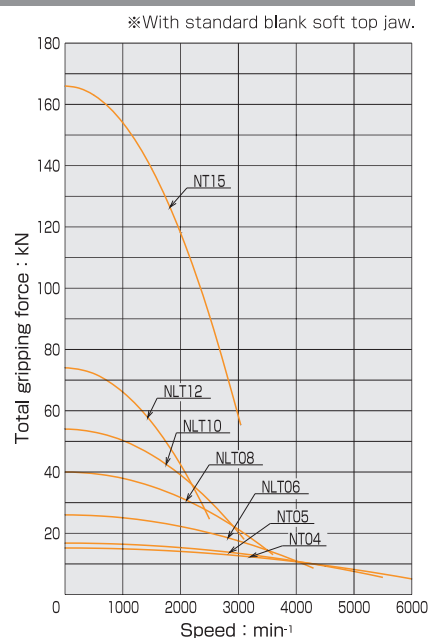
Best suited for gripping Irregular shaped components

*CE correspondence

Dimensional Drawings



Gripping Characteristic Graphs



Dimensions

Dimensions Model	A	B	C (H6)	F	H	K	L	M	N max.	N min.	O max.	O min.	P max.	P min.	Q	R	S	T	U	V	W	X	Y	Z
NT04	110	52	60	6	80	4-M8	12	14	23.3	20.1	10.25	8.75	18	3	23	10	25	M10	3	26	27	55	-	-
NT05	135	55	80	7	100	4-M8	14	19	30.4	27.2	11.5	7	9	-6	23	10	35	M12	3	28	29	62	-	-
NLT06	165	74	140	5	104.8	6-M10	14	20	40.5	34	13.75	9.25	101.5	81.5	31	12	36	M16	4	34	35	72	M6×10	116
NLT08	210	85	170	5	133.4	6-M12	20	25	48.1	40	21	12	131	106	35	14	36	M20	5	38	42	95	M6×12	150
NLT10	254	89	220	5	171.4	6-M16	18	30	54.4	45.35	29.5	11.5	161	133	40	16	36	M20	5	45	46	110	M8×15	190
NLT12	304	106	220	6	171.4	6-M16	18	30	65.7	56	42.75	12.75	163	133	50	18	36	M20	5	50	54	129	M8×15	190
NT15	381	114	300	6	235	6-M20	30	43	77.5	69.5	48.75	23.25	104	69	50	25.5	55	M30	2	55	61	135	M10×20	260

Specifications

※Max. speed is shown using actual test data.

Specifications Model	Gripping range mm		Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching Cylinder	Max. pressure MPa (kgf/cm ²)	Matching Soft top jaw
NT04	110	5	6.4	15	5.3 (540)	15.2 (1550)	6000	3.8	0.007	Y0715R	1.68 (17.1)	SB04A1T
NT05	135	16	6.4	15	5.3 (540)	16.8 (1713)	5500	5.8	0.013	Y0715R	1.68 (17.1)	SB05A1T
NLT06	165	22	13	20	14.0 (1428)	26.0 (2651)	4300	12.5	0.043	Y1020R	2.06 (21.0)	SB06A1T
NLT08	210	24	16.2	25	20.0 (2039)	40.0 (4079)	3600	24.0	0.133	Y1225R	2.03 (20.7)	SB08A1T
NLT10	254	27	18.1	28	27.0 (2753)	54.0 (5506)	3100	35.5	0.293	Y1530R	1.93 (19.7)	SB10A1T
NLT12	304	33	19.4	30	36.0 (3671)	74.0 (7546)	2500	60.5	0.708	Y1530R	2.50 (25.5)	SB12A1T
NT15	381	72	16	35	54.7 (5578)	166.0 (16927)	3040	93.0	1.790	Y2035R	2.10 (21.4)	SB15N1T

※Altering Back Plate enables to change over 3-Jaw Chuck into 2-Jaw Chuck.



CHUCK

2-Jaw Mega-Long Stroke Chuck MLT series

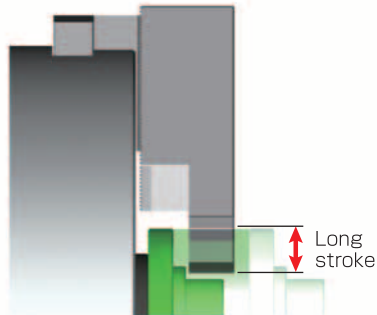
Exceptionally long Jaw stroke
Best suited for gripping irregular shaped components

* CE correspondence



Standard Chuck

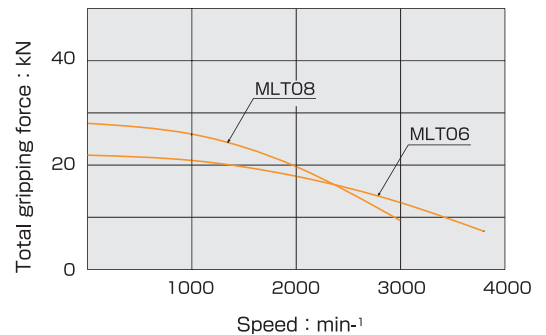
Gripping Example



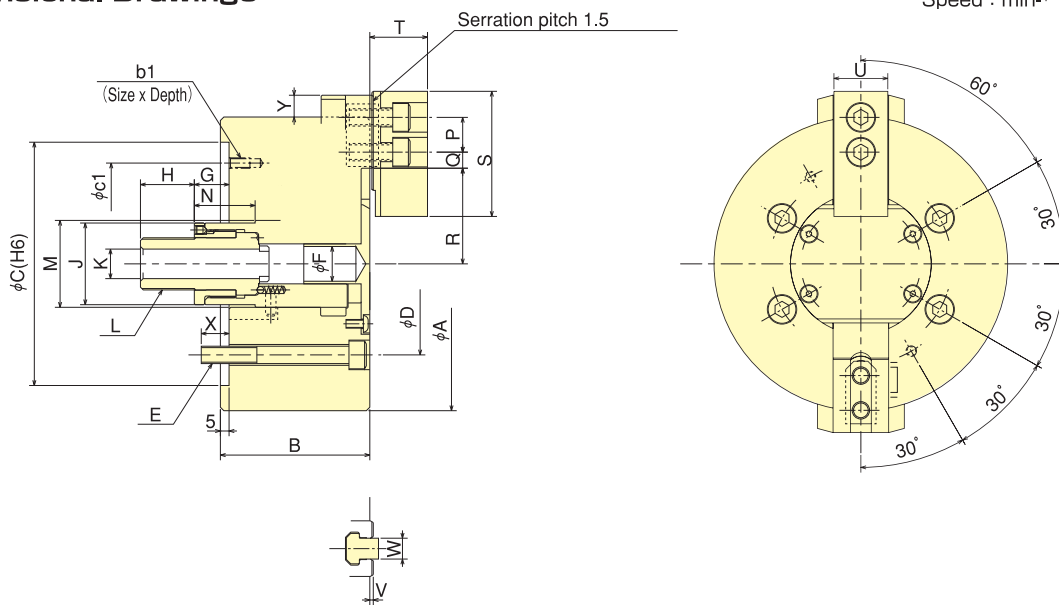
- Suitable for machining of valves.
Common jaw sets can be used due to long stroke.

Gripping Characteristic Graphs

※With standard blank soft top jaw.



Dimensional Drawings



Dimensions

Model	A	B	C	D	E	F	G max.	G min.	H	J	K	L	M	N	P	Q max.	Q min.
MLT06	169	86	140	104.8	4-M10	20	40	20	31	47	17	M30×1.5	50	35	20	13.75	9.25
MLT08	215	99	170	133.4	4-M12	20	34	9	34	54	17	M33×1.5	70	29	25	18	12

Model	R max.	R min.	S	T	U	V	W	X	Y max.	b1	c1
MLT06	55	35	72	33.2	31	2	12	16	12.5	2-M6×12	116
MLT08	65.6	40.6	95	39.2	35	2	14	21	12.1	3-M6×12	150

Specifications

Model	Gripping range mm	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m²	Matching Cylinder	Max. pressure MPa (kgf/cm²)	Matching Soft top jaw
MLT06	169 40	40	20	24.0 (2447)	21.9 (2230)	3800	13.7	0.054	Y1225R	2.39 (24.4)	SB06A1T
MLT08	215 44	50	25	30.0 (3059)	28.0 (2855)	3000	25.7	0.164	Y1530R	2.13 (21.7)	SB08A1T

※Altering Back Plate enables to change over 3-Jaw Chuck into 2-Jaw Chuck.



CHUCK

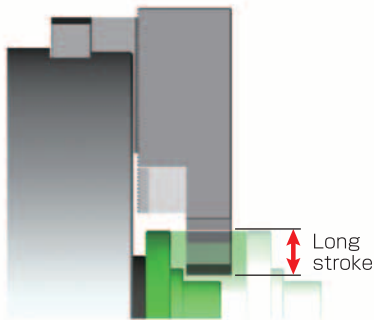
1-Jaw Mega-Long Stroke Chuck MLV series

Exceptionally long Jaw stroke
Best suited for jig work fixturing

*CE correspondence

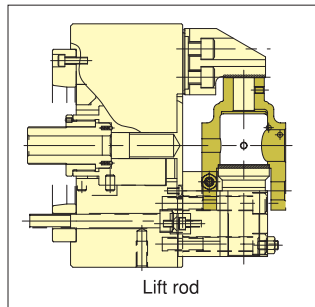


Gripping Example



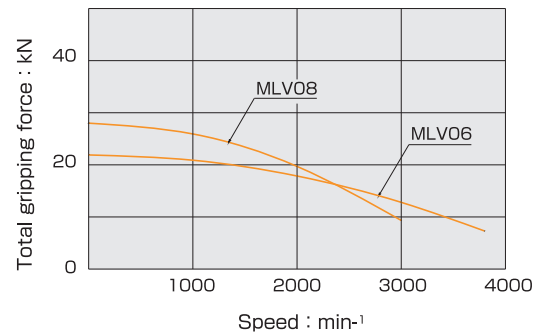
- Halve the set-up time and increase performance.

Gripping Example

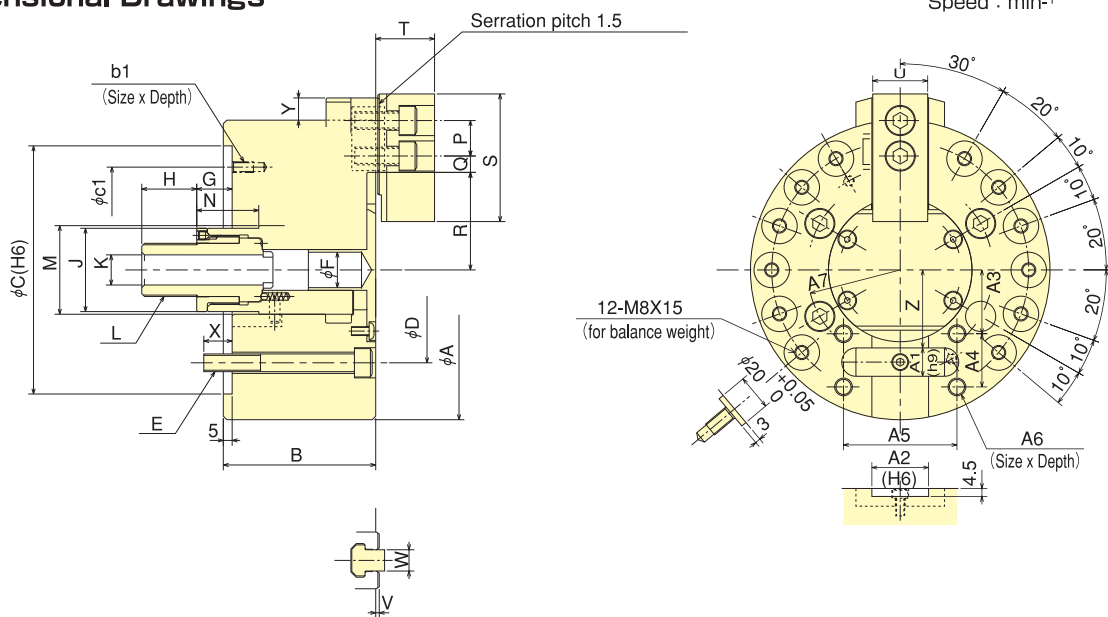


Gripping Characteristic Graphs

※With standard blank soft top jaw.



Dimensional Drawings



Dimensions

Model	A	B	C	D	E	F	G max.	G min.	H	J	K	L	M	N	P	Q max.	Q min.
MLV06	169	86	140	104.8	4-M10	20	40	20	31	47	17	M30×1.5	50	35	20	13.75	9.25
MLV08	215	99	170	133.4	4-M12	20	34	9	34	54	17	M33×1.5	70	29	25	18	12

Model	R max.	R min.	S	T	U	V	W	X	Y max.	Z	A1	A2	A3	A4	A5	A6	A7	b1	c1
MLV06	55	35	72	33.2	31	2	12	16	12.5	44	16	32	36	30	64	4-M10×16	72.5	2-M6×12	116
MLV08	65.6	40.6	95	39.2	35	2	14	21	12.1	60	18	37	51	36	70	4-M12×20	95	3-M6×12	150

Specifications

Model	Gripping range mm	Jaw Stroke mm	Plunger Stroke mm	Max. Draw Bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min ⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m ²	Matching Cylinder	Max. pressure MPa (kgf/cm ²)	Matching Soft top jaw
MLV06	Max. 169 Min. 40	20	20	12.0 (1224)	21.9 (2230)	3800	13.2	0.050	Y1225R	1.32 (13.5)	SB06A1V
MLV08	Max. 215 Min. 44	25	25	15.0 (1530)	28.0 (2855)	3000	25.0	0.155	Y1530R	1.19 (12.3)	SB08A1V



CHUCK

4-Jaw Lever Type Power Operated Chuck with Closed Centre HW series

**Steadily grips block, oval, or any irregular shaped works
Self Centring Mechanism (2+2 Jaws)**



Standard Chuck

● Self Centring Mechanism

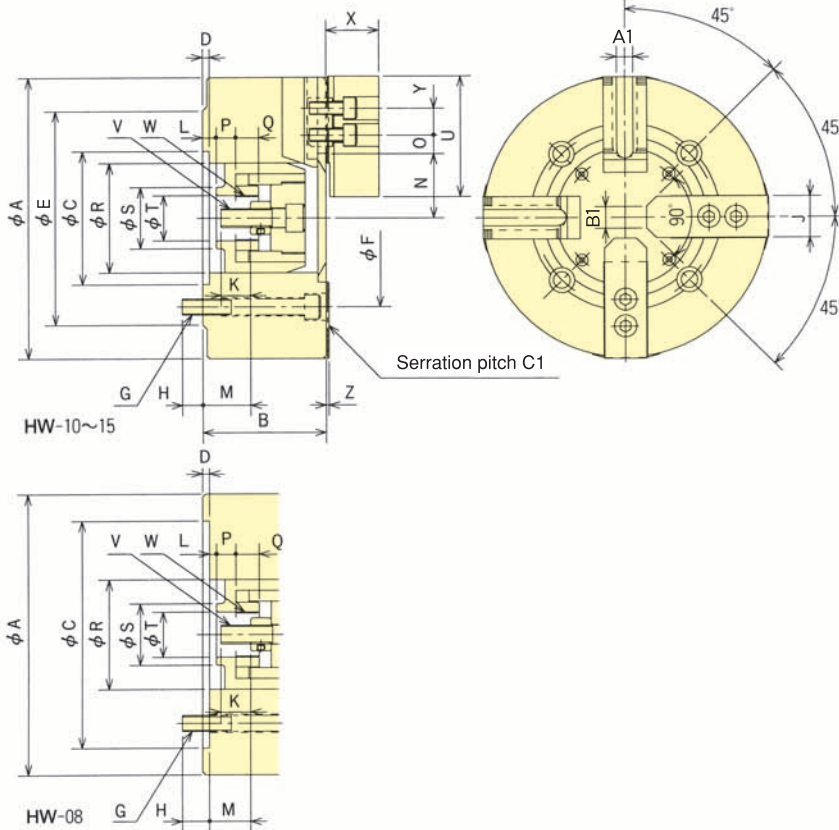
2 independent Jaw sets give Dual Action clamping allowing irregular shapes to be easily gripped. Consequently, it is the best to chuck a deformed work such as a square shape and elliptical shape.

● Long Stroke

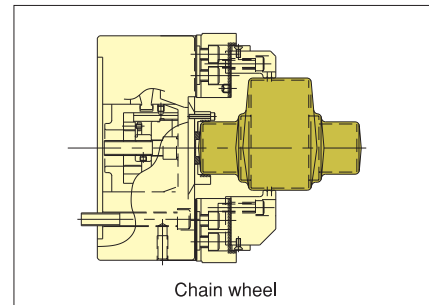
Long Jaw Stroke ensures components with variation are gripped securely.

*CE correspondence

■ Dimensional Drawings

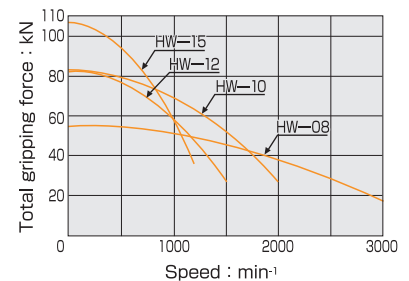


Gripping Example



Gripping Characteristic Graphs

*With standard blank soft top jaw.



■ Dimensions

Model	A	B	C (H6)	D	E	F	G	H	J	K	L max.	L min.	M max.	M min.	N max.	N min.	O max.	O min.	P	Q	R	S	T	U	V	W	X	Y	Z	A1	B1	C1
HW-08	210	91	170	5	-	133.4	4-M12	20	31	29	10.5	-6.5	39	22	50.3	43.7	26.75	9.25	17.5	17	82	46	34	90	M14x20	M34x1.5	39	20	2	12	16	1.5
HW-10	270	110	120	5.5	200	170	4-M16	24	40	31	18	-4	49	27	64	56	28	13	20	20	103	58	42	110	M16x20	M42x1.5	45	30	5	16	-	3.0
HW-12	304	110	120	5.5	200	170	4-M16	24	40	31	18	-4	49	27	64	56	49	13	20	20	103	58	42	110	M16x20	M42x1.5	45	30	5	16	-	3.0
HW-15	381	135	195	7.5	285	235	4-M20	30	50	55	26	1	59.5	34.5	78	69.5	66.5	12.5	18.5	24	130	78	55	129	M20x25	M55x2.0	53	38	5	18	-	3.0

■ Specifications

Model	Gripping range mm (Max. Min.)	Jaw Stroke (diameter) mm	Plunger Stroke mm	Max. Draw Bar* (Per of Plunger) kN (kgf)	Max. Gripping Force* (Per of Jaw) kN (kgf)	Max. Speed min⁻¹	Net Weight with Soft top jaws kg	Moment of inertia kg·m²	Matching Cylinder	Max. pressure MPa(kgf/cm²)	Matching Soft top jaw
HW-08	210 26	13.2	17	16.5(1683)	28.0(2855)	3000	23.0	0.153	YW1220R	1.71 (17.4)	SB08A2Q
HW-10	270 54	16	22	23.0(2345)	42.0(4283)	2000	50.0	0.500	YW1225R	2.29 (23.4)	SB10A2Q
HW-12	304 54	16	22	23.0(2345)	42.0(4283)	1500	58.0	0.700	YW1225R	2.29 (23.4)	SB10A2Q
HW-15	381 63	17	25	28.0(2855)	54.0(5506)	1200	118.0	2.250	YW1225R	2.73 (27.8)	SB15A2Q

*In chuck total, both maximum allowable input value and static gripping force value are double on the above list.

*The movement order of jaw cannot be assigned in combination with YW cylinder. (Contact to Kitagawa when assignment is required.)



CHUCK

3-Jaw Ultra High Precision Air Chuck KPC series

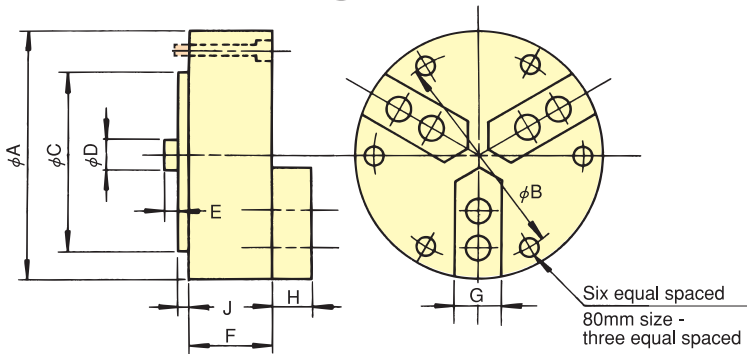
High Repeatability

Optimum KPC chuck for finishing and precision processes



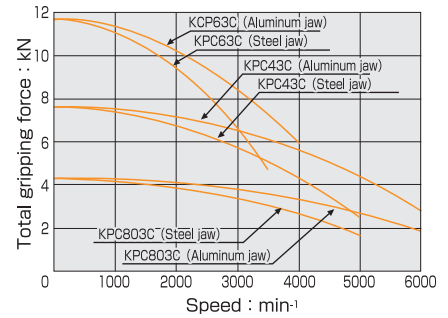
● Built-in Pneumatic Cylinder

Dimensional Drawings



Gripping Characteristic Graphs

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



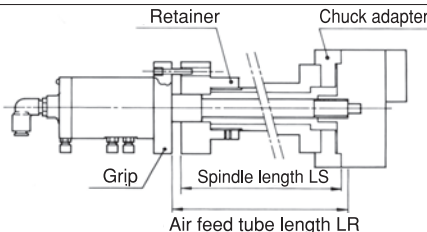
Dimensions

model	A	B	C (h6)	D	E max.	E min.	F	G	H	J	Jaw Mounting bolts	Mounting bolts	Net Weight with Soft top jaws kg
KPC803C100	80	70	60	20.6	17	9.9	55	20	19	2	3×1-M5×16	3-M5×60	1.8
KPC43C048	100	88.9	82.55	20.6	18.8	15.3	50.5	20	19	2	3×2-M5×16	6-M5×55	2.1
KPC43C100	100	88.9	82.55	20.6	18	10.8	55	20	19	2	3×2-M5×16	6-M5×60	2.1
KPC63C100	150	135.8	124.97	20.6	17.6	10.4	56	25	19	2	3×4-M5×16	6-M6×65	6.3

Specifications

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

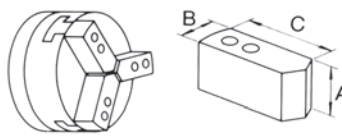
Ordering length of air feed tube (option)



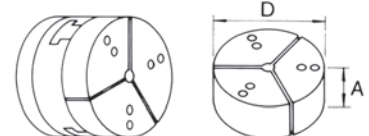
When ordering the air feed tube (coolant or non-coolant type), specify the spindle length LS as shown in the illustration. Air feed tube length LR is determined by LS. E.G. LR = LS + 17

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

Standard type jaw



Pie type jaw



Standard type jaw Dimensions

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

Pie type jaw Dimensions

Chuck	Jaw model	Material	Dimensions mm	
			A	D
KPC80 TYPE	KJ3A3-1	A l	25	80
	KJ3S3-1	S45C	25	80
	KJ3S3-7	S45C	19	80
KPC4 TYPE	KJ3A4-1	A l	25	100
	KJ3A4-15	A l	38	100
	KJ3S4-2	S45C	51	100
	KJ3S4-7	S45C	19	100
	KJ3S4-15	S45C	38	100
KPC6 TYPE	KJ3A6-1	A l	25	150
	KJ3S6-1	S45C	25	150
	KJ3S6-7	S45C	19	150
	KJ3S6-15	S45C	38	150