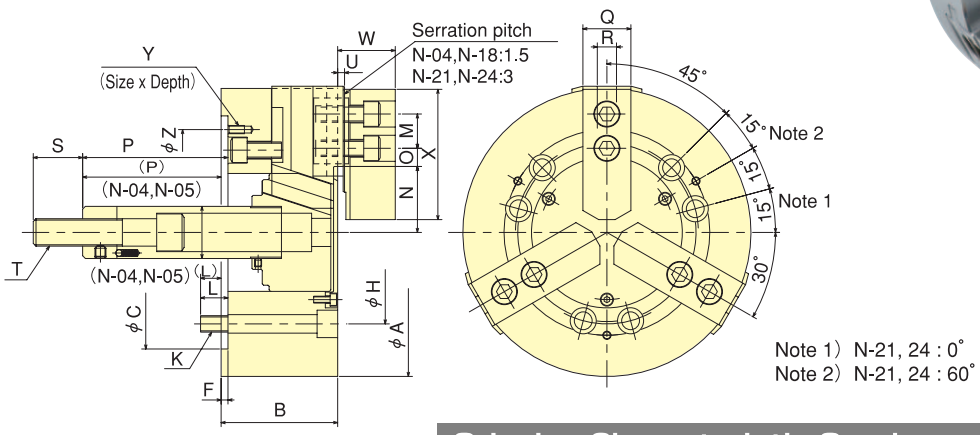
CHUCK

Closed Center Power Chuck N series

High durability at low cost Closed Center standard chuck

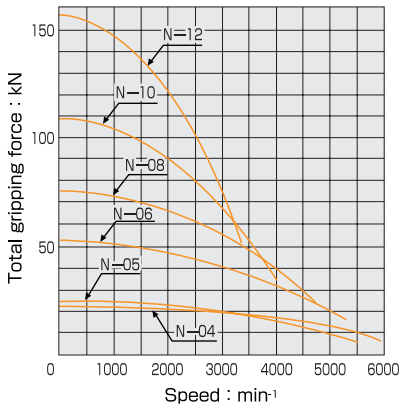
■ Dimensional Drawings

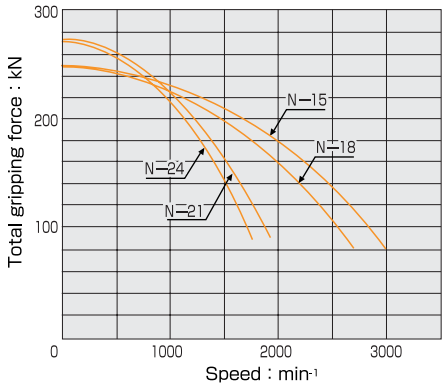


Note 1) N-21, 24 : 0°
Note 2) N-21, 24 : 60°

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 : 6pcs.

Model \ Dimensions	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.

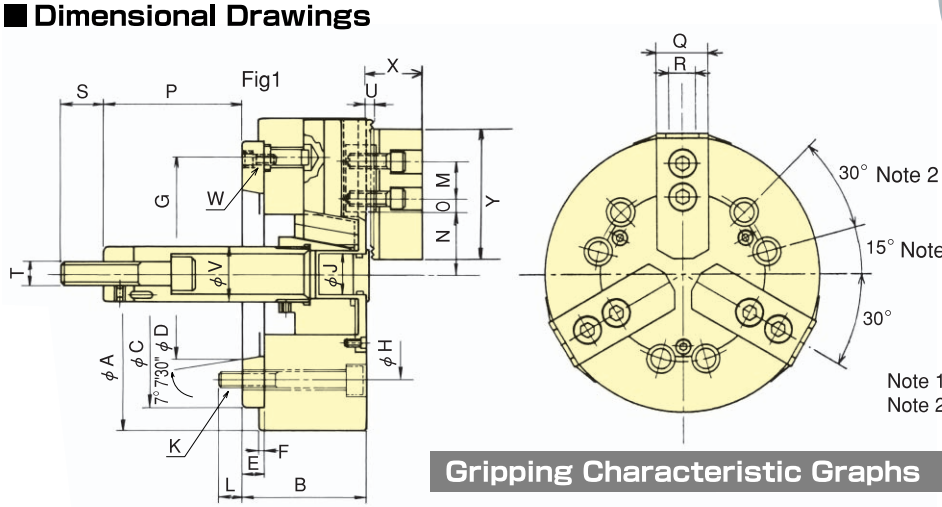
Model \ Specifications	Jaw Stroke (diameter) mm	Plunger Stroke mm	Gripping range mm Max.	Gripping range mm Min.	Max. Draw bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min-1 (r.p.m)	Net Weight with soft top jaws kg	Moment of inertia kg·m²	Matching Cylinder pressure	Matching Cylinder air	Max. pressure MPa(kgf/cm²)	Matching Hard top jaw	Matching Soft top jaw
N-04	6.4	15	110	8	8.2 (836)	22.8 (2325)	6000	4.1	0.008	Y0715R	AY-1315R	2.4 (24.5)	–	SB04B1
N-05	6.4	15	135	16	8.2 (836)	25.2 (2570)	5500	6.2	0.015	Y0715R	AY-1315R	2.4 (24.5)	HB05C1	SB05B1
N-06	8.5	20	165	19	18 (1835)	52.5 (5353)	5270	13	0.045	Y1020R	AY-1720R	2.6 (26.5)	HB06B1	SB06B1
N-08	8.8	21	210	23	25 (2549)	75 (7648)	4760	25	0.138	Y1225R	AY-2225R	2.5 (25.5)	HB08A1	SB08B1
N-10	8.8	25	254	24	29 (2957)	108 (11013)	4010	37	0.300	Y1225R	AY-2225R	2.8 (28.6)	HB10A1	SB10B1
N-12	10.5	30	304	26	41 (4181)	156 (15907)	3380	57.3	0.725	Y1530R	–	2.7 (27.5)	HB12B1	SB12A1
N-15	16	35	381	72	82 (8362)	249 (25391)	3040	96	1.80	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-18	16	35	450	133	82 (8362)	249 (25391)	2710	124	2.35	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-21	16	35	530	62	82 (8362)	273 (27838)	1940	180	4.80	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2
N-24	16	35	610	152	82 (8362)	273 (27838)	1760	223	6.925	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2

Closed Center Power Chuck (Direct Mount)
N-A series

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

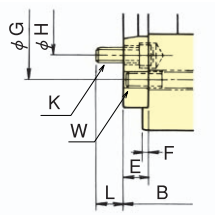
Dimensional Drawings

Fig1



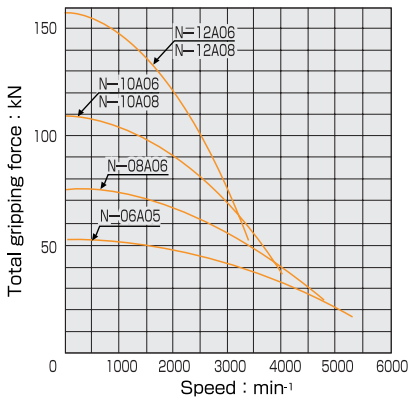
Note 1) B-21, 24 : 0°
Note 2) B-21, 24 : 60°

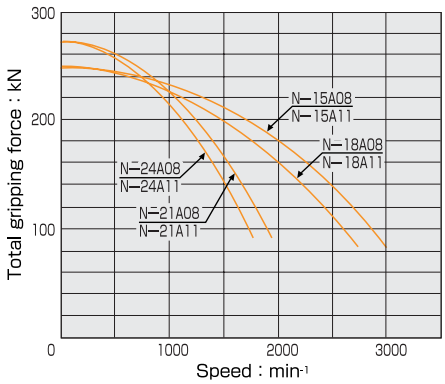
Fig2



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.

Model \ 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	M16×2.0	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	M20×2.5	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	M20×2.5	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	M20×2.5	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	M20×2.5	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	M20×2.5	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	M30×3.5	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	M30×3.5	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	M30×3.5	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	M30×3.5	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	M30×3.5	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	M30×3.5	3	60	6-M22	71	180
N-21A15	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	M30×3.5	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	M30×3.5	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	M30×3.5	3	60	3-M12	71	180

Specifications

※Max. speed is shown using actual test data.

Model \ Specifications	Spindle nose size	Jaw Stroke (diameter) mm	Plunger Stroke mm	Gripping range mm Max.	Gripping range mm Min.	Max. Draw bar Pull Force kN (kgf)	Max. Gripping Force kN (kgf)	Max. Speed min-1 (r.p.m)	Net Weight with soft top jaws kg	Moment of inertia N·m² (kg·m²)	Matching Cylinder pressure	Matching Cylinder air	Max. pressure MPa(kgf/cm²)	Matching Hard top jaw	Matching Soft top jaw
N-06A05	A2–5	8.5	20	165	19	18 (1835)	52.5 (5353)	5270	14	0.050	Y1020R	AY1720R	2.6 (26.5)	HB06B1	SB06B1
N-08A06	A2–6	8.8	21	210	23	25 (2549)	75 (7648)	4760	27	0.148	Y1225R	AY2225R	2.5 (25.5)	HB08A1	SB08B1
N-10A06	A2–6	8.8	25	254	24	29 (2957)	108 (11013)	4010	40	0.335	Y1225R	AY2225R	2.8 (28.6)	HB10A1	SB10B1
N-10A08	A2–8	8.8	25	254	24	29 (2957)	108 (11013)	4010	40	0.328	Y1225R	AY2225R	2.8 (28.6)	HB10A1	SB10B1
N-12A06	A2–6	10.5	30	304	26	41 (4181)	156 (15907)	3380	67	0.760	Y1530R	–	2.7 (27.5)	HB12B1	SB12A1
N-12A08	A2–8	10.5	30	304	26	41 (4181)	156 (15907)	3380	66	0.753	Y1530R	–	2.7 (27.5)	HB12B1	SB12A1
N-15A08	A2–8	16	35	381	72	82 (8362)	249 (25391)	3040	105	1.950	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-15A11	A2–11	16	35	381	72	82 (8362)	249 (25391)	3040	103	1.875	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-18A08	A2–8	16	35	450	133	82 (8362)	249 (25391)	2710	134	2.475	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-18A11	A2–11	16	35	450	133	82 (8362)	249 (25391)	2710	131	2.425	Y2035R	–	3.2 (32.6)	HB15N1	SB15N1
N-21A08	A2–8	16	35	530	62	82 (8362)	273 (27838)	1940	201	5.175	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2
N-21A11	A2–11	16	35	530	62	82 (8362)	273 (27838)	1940	198	5.125	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2
N-21A15	A2–15	16	35	530	62	82 (8362)	273 (27838)	1940	190	4.975	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2
N-24A11	A2–11	16	35	610	152	82 (8362)	273 (27838)	1760	241	7.375	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2
N-24A15	A2–15	16	35	610	152	82 (8362)	273 (27838)	1760	234	7.050	Y2035R	–	3.2 (32.6)	HB18B2	SB18A2