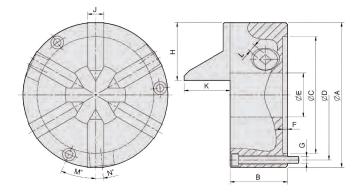
LINIT : mm





SE 6-jaw scroll chuck plain back

- SE types are specially meet for drilling*endmilling*tapping or grinding in tool grinders.
- 2. Huge bore diameter design for wider application of bar workpieces.
- 3. SE type feature gripping for thin tube and high roundness accuracy.
- 4. The body is made of MEEHANITE. It is suitably used for high speed revolution and 3 times more durable than regular material.



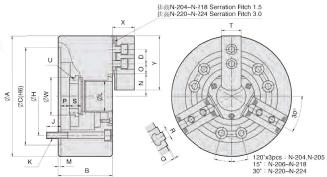
																			UNIT : mm
SPEC Model	Α	В	С	D	Е	F	G	н	J	K	L	М	N	Allowable Handle Torque (kgf·m)	Gripping Force (kgf)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Gripping O.D. Range
SE-4	112	66	80	95	32	4.8	3-M8×65	45	14	39.7	8	30	6.5	1.6	440	1200	4	_	Ø2-Ø32
SE-6	165	67	130	147	51	5.5	3-M8×70	66.5	19	40.7	10	23.3	6.2	2.8	660	1200	9	0.03	Ø3-Ø51
SE-7	192	76.5	155	172	80	5.5	3-M10×75	77	21.5	61.5	11	24	5.3	3.6	850	1000	14	0.06	Ø3-Ø81



N-200

3-jaw through-hole power chuck (adapter excluded)

More large bore:
 The largest bore in wedge type power operated chucks.



													OINT - IIIII
SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw stroke (In Dia.) (mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
N-204	Ø26	10	5.4	1428	2906	31.6	8000	4	0.007	M0928	HJ05	HC04	Ø4-Ø110
N-205	Ø33	10	5.4	1784	3671	28.5	7000	7	0.018	M1036	HJ05	HC05	Ø6-Ø135
N-206	Ø45	12	5.5	2243	5812	28.5	6000	13.5	0.057	M1246	HJ06	HC06	Ø15-Ø169
N-208	Ø52	16	7.4	3558	9075	26.5	5000	23	0.17	M1552	HJ08	HC08	Ø20-Ø210
N-210	Ø75	19	8.8	4385	11319	27.5	4200	35	0.315	M1875	HJ10	HC10	Ø25-Ø254
N-212	Ø91	23	10.6	5812	14990	27.5	3300	56.5	0.737	M2091	HJ12	HC12	Ø30-Ø304
N-215	Ø117.5	23	10.6	7240	18355	23.5	2500	111	2.27	M2511	HJ15	HC15	Ø50-Ø381
N-218	Ø117.5	23	10.6	7240	18355	23.5	2000	131	3.55	M2511	HJ15	HC15	Ø50-Ø450
N-220	Ø180	23	10.6	9177	23861	30.6	1800	190	6.5	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-224	Ø205	26	12	9177	23861	26.5	1400	270	14.8	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-232	Ø230	34	18	10197	24472	29.5	1200	470	41	ML3320	HJ24-1	HC24-1	Ø210-Ø800

DIM Model	Α	В	C (H6)	D	Н	J	K	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	S	Т	U max.	W	Χ	Υ
N-204	110	59	85	14	70.6	16	3-M10x60	26	4	23.2	13.75	6.75	3.5	-6.5	2	10	17.5	23	M32x1.5	38	24	49.5
N-205	135	60	110	14	82.55	15	3-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	25	M40x1.5	45	31	54
N-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
N-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
N-210	254	100	220	30	171.45	22	6-M16x100	75	5	51	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
N-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
N-215	381	133	300	43	235	30	6-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
N-218	450	133	300	43	235	30	6-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165
N-220	510	134	380	60	330.2	35	6-M24x135	180	6	112.5	60.5	24.5	11	-12	5	25	38	64	M190x3	206	73	180
N-224	610	147	520	60	463.6	35	6-M24x150	205	6	139.9	87.5	24.5	16	-10	5	25	38	64	M215x3	230	73	180
N-232	800	150	520	60	463.6	35	6-M24x150	230	6	162	153.5	24.5	16	-18	5	25	38	64	M250x3	262	73	180



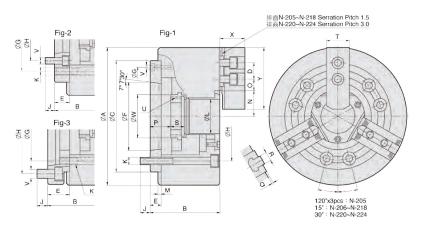


N-200A

3-jaw through-hole power chuck (adapter included)

- More large bore : The largest bore in wedge type power operated chucks.
- 2. Model N-200A chucks are assembled with adaptor for ASA B5.9 type A spindles.

													UNIT : mm
SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) _(mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
N-205A4	Ø33	10	5.4	1784	3671	28.5	7000	7.8	0.020	M1036	HJ05	HC05	Ø6-Ø135
N-205A5	Ø33	10	5.4	1784	3671	28.5	7000	9	0.023	M1036	HJ05	HC05	Ø6-Ø135
N-206A4	Ø45	12	5.5	2243	5812	28.5	6000	15.5	0.065	M1246	HJ06	HC06	Ø15-Ø169
N-206A5	Ø45	12	5.5	2243	5812	28.5	6000	14.7	0.062	M1246	HJ06	HC06	Ø15-Ø169
N-206A6	Ø45	12	5.5	2243	5812	28.5	6000	17.3	0.073	M1246	HJ06	HC06	Ø15-Ø169
N-208A5	Ø52	16	7.4	3558	9075	26.5	5000	25.8	0.190	M1552	HJ08	HC08	Ø20-Ø210
N-208A6	Ø52	16	7.4	3558	9075	26.5	5000	25	0.184	M1552	HJ08	HC08	Ø20-Ø210
N-208A8	Ø52	16	7.4	3558	9075	26.5	5000	29.3	0.217	M1552	HJ08	HC08	Ø20-Ø210
N-210A6	Ø75	19	8.8	4385	11319	27.5	4200	41	0.370	M1875	HJ10	HC10	Ø25-Ø254
N-210A8	Ø75	19	8.8	4385	11319	27.5	4200	38	0.340	M1875	HJ10	HC10	Ø25-Ø254
N-210A11	Ø75	19	8.8	4385	11319	27.5	4200	48.4	0.436	M1875	HJ10	HC10	Ø25-Ø254
N-212A6	Ø91	23	10.6	5812	14990	27.5	3300	62.5	0.809	M2091	HJ12	HC12	Ø30-Ø304
N-212A8	Ø91	23	10.6	5812	14990	27.5	3300	59.5	0.770	M2091	HJ12	HC12	Ø30-Ø304
N-212A11	Ø91	23	10.6	5812	14990	27.5	3300	69.9	0.912	M2091	HJ12	HC12	Ø30-Ø304
N-215A8	Ø117.5	23	10.6	7240	18355	23.5	2500	125	2.255	M2511	HJ15	HC15	Ø50-Ø381
N-215A11	Ø117.5	23	10.6	7240	18355	23.5	2500	118	2.241	M2511	HJ15	HC15	Ø50-Ø381
N-215A15	Ø117.5	23	10.6	7240	18355	23.5	2500	138	2.822	M2511	HJ15	HC15	Ø50-Ø381
N-218A8	Ø117.5	23	10.6	7240	18355	23.5	2000	146	3.961	M2511	HJ15	HC15	Ø50-Ø450
N-218A11	Ø117.5	23	10.6	7240	18355	23.5	2000	138	3.744	M2511	HJ15	HC15	Ø50-Ø450
N-218A15	Ø117.5	23	10.6	7240	18355	23.5	2000	191	5.183	M2511	HJ15	HC15	Ø50-Ø450
N-220A11	Ø180	23	10.6	9177	23861	30.6	1800	215	7.355	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-220A15	Ø180	23	10.6	9177	23861	30.6	1800	202	6.910	ML2816	HJ24-1	HC24-1	Ø120-Ø510
N-224A11	Ø205	26	12	9177	23861	26.5	1400	332	18.199	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-224A15	Ø205	26	12	9177	23861	26.5	1400	317	17.376	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-224A20	Ø205	26	12	9177	23861	26.5	1400	286	15.677	ML3320	HJ24-1	HC24-1	Ø150-Ø610
N-232A11	Ø230	34	18	10197	24472	29.5	1200	530	43	ML3320	HJ24-1	HC24-1	Ø210-Ø800
N-232A15	Ø230	34	18	10197	24472	29.5	1200	515	43	ML3320	HJ24-1	HC24-1	Ø210-Ø800
N-232A20	Ø230	34	18	10197	24472	29.5	1200	485	42	ML3320	HJ24-1	HC24-1	Ø210-Ø800



UNIT : mm

DIM		_	С		_	_	_						N	0	0	Р	Р с					U					NII · IIII
Model	Α	В	(H6)	D	Е	F	G	Н	J	K	L	М	max.		min. ı			Q F	} :	S 1		max.	V V	V X	Y	Re	ference
N-205A4	135	71	110	14	15	63.513	96	82.55	15.5	3-M10	33	4	26.5	19.75	7.75	16	6	2	10	20	25	M40x1.5	3-M6	45	31	54	Fig-1
N-205A5	135	88	110	14	32	82.563	82.55	104.78	14	3-M10	33	4	26.5	19.75	7.75	33	23	2	10	20	25	M40x1.5	6-M10	45	31	54	Fig-3
N-206A4	169	96	140	20	20	63.513	104.78	82.55	16	6-M10	45	5	32	22.75	9.25	31	19	2	12	19	31	M55x2	6-M10	60	37	73	Fig-2
N-206A5	169	91	140	20	15	82.563	116	104.78	16	6-M10	45	5	32	22.75	9.25	26	14	2	12	19	31	M55x2	3-M6	60	37	73	Fig-1
N-206A6	169	111	140	20	35	106.375	104.78	133.35	16	6-M10	45	5	32	22.75	9.25	46	34	2	12	19	31	M55x2	6-M12	60	37	73	Fig-3
N-208A5	210	109	170	25	23	82.563	133.35	104.78	14	6-M12	52	5	38.7	29.75	11.75	37.5	21.5	2	14	20.5	35	M60x2	6-M10	66	38	95	Fig-2
N-208A6	210	103	170	25	17	106.375	150	133.35	18	6-M12	52	5	38.7	29.75	11.75	31.5	15.5	2	14	20.5	35	M60x2	3-M6	66	38	95	Fig-1
N-208A8	210	126	170	25	40	139.719	133.35	171.45	24	6-M12	52	5	38.7	29.75	11.75	54.5	38.5	2	14	20.5	35	M60x2	6-M16	66	38	95	Fig-3
N-210A6	254	120	220	30	25	106.375	171.45	133.35	18	6-M16	75	5	51	33.75	14.25	33.5	14.5	2	16	25	40	M85x2	6-M12	94	43	110	Fig-2
N-210A8	254	113	220	30	18	139.719	190	171.45	24	6-M16	75	5	51	33.75	14.25	26.5	7.5	2	16	25	40	M85x2	3-M8	94	43	110	Fig-1
N-210A11	254	145	220	30	50	196.869	171.45	235	28	6-M16	75	5	51	33.75	14.25	58.5	39.5	2	16	25	40	M85x2	6-M20	94	43	110	Fig-3
N-212A6	304	129	220	30	25	106.375	171.45	133.35	18	6-M16	91	6	61.3	45.75	15.75	33	10	2	21	28	50	M100x2	6-M12	108	51	130	Fig-2
N-212A8	304	122	220	30	18	139.719	190	171.45	25	6-M16	91	6	61.3	45.75	15.75	26	3	2	21	28	50	M100x2	3-M8	108	51	130	Fig-1
N-212A11	304	154	220	30	50	196.869	171.45	235	28	6-M16	91	6	61.3	45.75	15.75	58	35	2	21	28	50	M100x2	6-M20	108	51	130	Fig-3
N-215A8	381	160	300	43	33	139.719	235	171.45	24	6-M20	117.5	6	82	45.25	15.25	40	17	5	22	43	62	M130x2	6-M16	139	66	165	Fig-2
N-215A11	381	149	300	43	22	196.869	260	235	28	6-M20	117.5	6	82	45.25	15.25	29	6	5	22	43	62	M130x2	3-M20	139	66	165	Fig-1
N-215A15	381	184	300	43	57	285.775	235	330.2	29	6-M20	117.5	6	82	45.25	15.25	64	41	5	22	43	62	M130x2	6-M24	139	66	165	Fig-3
N-218A8	450	160	300	43	33	139.719	235	171.45	24	6-M20	117.5	6	82	79.75	15.25	40	6	5	22	43	62	M130x2	6-M16	139	66	165	Fig-2
N-218A11	450	149	300	43	22	196.869	260	235	28	6-M20	117.5	6	82	79.75	15.25	29	6	5	22	43	62	M130x2	3-M10	139	66	165	Fig-1
N-218A15	450	184	300	43	57	285.775	235	330.2	29	6-M20	117.5	6	82	79.75	15.25	64	41	5	22	43	62	M130x2	6-M24	139	66	165	Fig-3
N-220A11	510	169	380	60	41	196.869	330.2	235	30	6-M24	180	6	112.5	60.5	24.5	52	29	5	25	38	64	M190x3	6-M20	206	73	180	Fig-2
N-220A15	510	155	380	60	27	285.775	330.2	330.2	33	6-M24	180	6	112.5	60.5	24.5	38	15	5	25	38	64	M190x3	3-M12	206	73	180	Fig-1
N-224A11	610	186	520	60	45	196.869	463.6	235	28	6-M24	205	6	139.9	87.5	24.5	61	35	5	25	38	64	M215x3	6-M20	230	73	180	Fig-2
N-224A15	610	183	520	60	42	285.775	463.6	330.2	32.5	6-M24	205	6	139.9	87.5	24.5	58	32	5	25	38	64	M215x3	6-M24	230	73	180	Fig-2
N-224A20	610	166	520	60	25	412.775	463.6	463.6	35	6-M24	205	6	139.9	87.5	24.5	41	15	5	25	38	64	M215x3	3-M10	230	73	180	Fig-1
N-232A11	800	189	520	60	45	196.869	463.6	235	28	6-M24	230	6	162	153.5	24.5	61	27	5	25	38	64	M250x3	6-M20	262	73	180	Fig-2
N-232A15	800	186	520	60	42	285.775	463.6	330.2	32.5	6-M24	230	6	162	153.5	24.5	58	24	5	25	38	64	M250x3	6-M24	262	73	180	Fig-2
N-232A20	800	169	520	60	25	412.775	463.6	463.6	35	6-M24	230	6	162	153.5	24.5	41	7	5	25	38	64	M250x3	3-M10	262	73	180	Fig-1

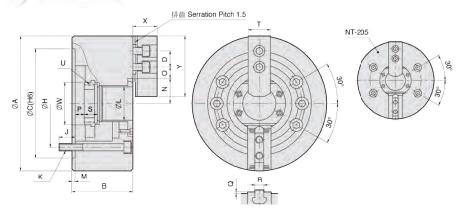




NT-200

2-jaw through-hole power chuck (adapter excluded)

- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability. Lubrication nipple in each base jaw.
- 2. Base jaw: 1.5mmx60° serration.
- 3. Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA B5.9 type A spindles.



													UNIT : mm
SPEC Model	Through -Hole _(mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
NT-205	Ø33	10	5.4	1189	2447	19.5	7000	6.8	0.017	M1036	HJ05	HC05	Ø6-Ø135
NT-206	Ø45	12	5.5	1495	3875	18.9	6000	12.8	0.054	M1246	HJ06	HC06	Ø15-Ø169
NT-208	Ø52	16	7.4	2366	5975	18.4	5000	22	0.163	M1552	HJ08	HC08	Ø20-Ø210
NT-210	Ø75	19	8.8	2927	7546	18.4	4200	34	0.306	M1875	HJ10	HC10	Ø25-Ø254
NT-212	Ø91	23	10.6	3875	9993	18.4	3300	55	0.717	M2091	HJ12	HC12	Ø30-Ø304
NT-215	Ø117.5	23	10.6	4823	12236	15.3	2500	106	2.17	M2511	HJ15	HC15	Ø50-Ø381
NT-218	Ø117.5	23	10.6	4823	12236	15.3	2000	122	3.31	M2511	HJ15	HC15	Ø50-Ø450

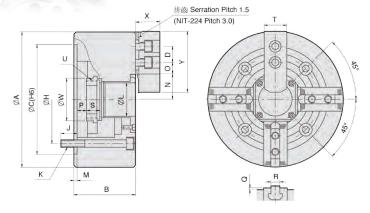
DIM Model	Α	В	C (H6)	D	Н	J	К	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	S	Т	U max.	W	Х	Υ
NT-205	135	60	110	14	82.55	15	4-M10x60	33	4	26.5	19.75	7.75	1	-9	2	10	20	23	M40x1.5	45	31	54
NT-206	169	81	140	20	104.78	16	6-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
NT-208	210	91	170	25	133.35	20	6-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
NT-210	254	100	220	30	171.45	22	6-M16x100	75	5	51	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
NT-212	304	110	220	30	171.45	23	6-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
NT-215	381	133	300	43	235	30	6-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NT-218	450	133	300	43	235	30	6-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165



NIT-200

4-jaw through-hole power chuck (adapter excluded)

- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability. Lubrication nipple in each master jaw.
- 2. Master jaw: 1.5mmx60° serration.
- 3. Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA B5.9 type A spindles.



UNIT	٠.

													UNIT : mm
SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
NIT-206	Ø45	12	5.5	2243	5812	28.5	4500	13.7	0.058	M1246	HJ06	HC06	Ø15-Ø169
NIT-208	Ø52	16	7.4	3558	9075	26.5	3600	24	0.177	M1552	HJ08	HC08	Ø20-Ø210
NIT-210	Ø75	19	8.8	4385	11319	27.5	3200	36	0.324	M1875	HJ10	HC10	Ø25-Ø254
NIT-212	Ø91	23	10.6	5812	14990	27.5	2700	58.5	0.763	M2091	HJ12	HC12	Ø30-Ø304
NIT-215	Ø117.5	23	10.6	7240	18355	23.5	1900	114	2.331	M2511	HJ15	HC15	Ø50-Ø381
NIT-218	Ø117.5	23	10.6	7240	18355	23.5	1500	140	3.798	M2511	HJ15	HC15	Ø50-Ø450
NIT-224	Ø205	26	12	9177	23861	26.5	1000	284	15.2	ML3320	HJ24-1	HC24-1	Ø150-Ø610

Model	Α	В	(H6)	D	Н	J	K	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	S	Т	U max.	W	X	Υ
NIT-206	169	81	140	20	104.78	16	4-M10x80	45	5	32	22.75	9.25	11	-1	2	12	19	31	M55x2	60	37	73
NIT-208	210	91	170	25	133.35	20	4-M12x90	52	5	38.7	29.75	11.75	14.5	-1.5	2	14	20.5	35	M60x2	66	38	95
NIT-210	254	100	220	30	171.45	22	4-M16x100	75	5	51	33.75	14.25	8.5	-10.5	2	16	25	40	M85x2	94	43	110
NIT-212	304	110	220	30	171.45	23	4-M16x110	91	6	61.3	45.75	15.75	8	-15	2	21	28	50	M100x2	108	51	130
NIT-215	381	133	300	43	235	30	4-M20x135	117.5	6	82	45.25	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NIT-218	450	133	300	43	235	30	4-M20x135	117.5	6	82	79.75	15.25	7	-16	5	22	43	62	M130x2	139	66	165
NIT-224	610	147	520	60	463.6	35	8-M24x150	205	6	139.9	87.5	24.5	16	-10	5	25	38	64	M215x3	230	73	180

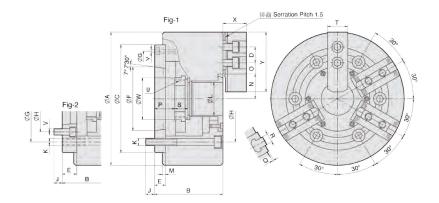




NHT-200

2-jaw and 3-jaw through-hole power chuck (adapter included)

- Gripping of round or irregular workpiece does not need to change the chuck.
- 2. The chucks are designed according to ASA B5.9 type A spindle.
- The chucks are made from high grade alloy steel. All sliding surfaces are hardened and ground to increase running accuracy and longer service life.



											UNIT - IIIII	
SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force (kgf) 3 Jaw / 2 Jaw	Max. Gripping Force (kgf) 3 Jaw / 2 Jaw	Max. Operating Pressure (kgl / cm²) 3 Jaw / 2 Jaw	Max. Speed (r.p.m.)	Weight (kg)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	
NHT-208A5	Ø52	16	7.4	2243 / 1495	5812 / 3875	17.2 / 12.1	3500	25.5	M1552	HJ06	HC08-1	
NHT-208A6	Ø52	16	7.4	2243 / 1495	5812 / 3875	172/121	3500	24 7	M1552	H.I06	HC08-1	

DIM Model	Α	В	C (H6)	D	Е	F	G	Н	J	K	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	s	Т	U max.	٧	W	х	Υ	Reference	
NILT 200AE	210	112	170	20	22	92 562	122 25	104 79	12	6vM12	52	5	/1 Q	24	7.5	27.5	21.5	2	12	20 E	25	Menva	6vM10	66	27	72	Fig.2	

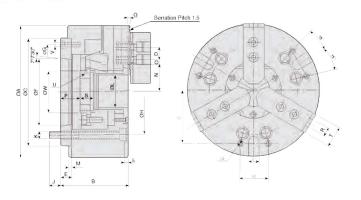
NHT-208A5 210 113 170 20 23 82.563 133.35 104.78 13 6xM12 52 5 41.8 34 7.5 37.5 21.5 2 12 20.5 35 M60x2 6xM10 66 37 73 Fig-2 NHT-208A6 210 107 170 20 17 106.375 150 133.35 17 6xM12 52 5 41.8 34 7.5 31.5 15.5 2 12 20.5 35 M60x2 3xM6 66 37 73 Fig-1



NB-200A

3-jaw extra large through-hole power chuck (adapter included)

- 1. More large bore:
- The largest bore in wedge type power operated chucks.
- 2. 20% large bore:
- Approximately 20% higher speed, higher gripping force and larger bore compared with regular chucks.
- 3. Model NB-200A chucks are assembled with adaptor for ASA B5.9 type A spindles.
- Model NB-200A chucks are manufactured form high grade alloy steel.
 All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.



UNIT	:	m

SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
NB-306A5	Ø52	12	5.4	2243	5812	18.4	60	00 14	1 0.06	M1552	HJ06	HC06	Ø16-Ø170
NB-208A6	Ø66	16	7.4	3558	9075	20.5	50	00 2	0.14	M1868	HJ08	HC08	Ø20-Ø210
NB-210A8	Ø78	19	8.8	4385	11319	27.5	42	00 37	.4 0.4	M1878	HJ10	HC10	Ø25-Ø254
NB-310A8	Ø81	19	8.8	4976	12848	31.5	45	00 36	.4 0.33	MK188	1 HJ10	HC10	Ø37-Ø254
NB-212A11	Ø122	23	10.6	5812	14990	20.5	32	00 6	0.95	M2511	HJ12	HC12	Ø41-Ø315
NB-215A15	Ø142	23	10.6	7240	18355	25.5	25	00 13	0 3.0	ML2816	6 HJ15	HC15	Ø60-Ø405
NB-218A15	Ø166.5	23	10.6	7240	18355	25.5	20	00 16	1 4.77	ML2816	6 HJ15	HC15	Ø75-Ø457

Model	Α	В	C (H6)	DI	Ε	F	G	Н	J	K	L	М	N max.	O max.	O min.	P max.	P min.	Q I	R S	Т	U max.	٧	W	X1 (H12)	X2	ХЗ	X4
NB-306A5	170	91	140	20 1	5	82.563	116	104.78	14.5	6xM10	52	5	34.3	18.25	9.25	26	14	2 1	2 20	31	M60x2	3хМ6	65	16	36	65	M8
NB-208A6	210	103	170	25 1	7 1	06.375	150	133.35	19.5	6xM12	66	5	42	23.75	11.75	31.5	15.5	2 1	4 20	35	M75x2	3хМ6	80	16	45	80	M8
NB-210A8	254	113	220	30 1	8 1	39.719	190	171.45	24	6xM16	78	5	53	33.75	14.25	26.5	7.5	2 1	6 25	40	M87x2	3хМ8	94	16	60	102	M10
NB-310A8	254	113	220	30 1	8 1	39.719	190	171.45	24	6xM16	81	5	54	32.25	14.25	26.5	7.5	2 1	6 25	40	M90x2	3xM8	97	16	60	102	M10
NB-212A11	315	134	300	30 2	22 1	96.869	260	235	28	6xM20	122	6	74.2	36.25	12.75	42	19	2 2	1 28	50	M135x2	3xM10	143	20	60	138	M10
NB-215A15	405	154	380	43 2	27 2	285.775	330.2	330.2	33	6xM24	142	6	93.5	45.25	15.25	34	11	5 2	2 43	62	M155x2	3xM12	164	20	80	160	M12
NB-218A15	457	154	380	43 2	27 2	285.775	330.2	330.2	33	6xM24	166.5	6	96.7	63.25	18.25	34	11	5 2	2 43	62	M180x3	3xM12	189	20	100	160	M12



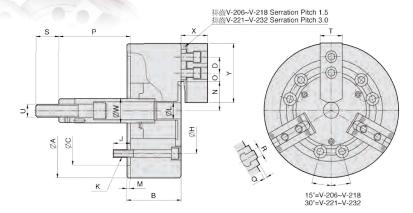


V

3-jaw wedge type non through-hole power chuck (adapter excluded)

- 1. High performance :
- Similar high performance with N series.
- 2. Chuck mounting screws :

Metric or UNC socket head cap screws are supplied for installing the chuck to the spindle.



												UNII : mm
SPEC Model	Plunger Stroke (mm)	Jaw Stroke (In Dia.) _(mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf/cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
V-206	20	9.2	1835	5353	26.5	5200	12.7	0.048	MS105C	HJ06	HC06	Ø18-Ø165
V-208	21	9.7	2549	7648	25.5	4500	23.8	0.137	MS125C	HJ08	HC08	Ø26-Ø210
V-210	25	8.8	2957	11013	28.6	4000	36.4	0.3	MS125C	HJ10	HC10	Ø26-Ø254
V-212	30	10.5	4181	15907	27.5	3300	62.3	0.78	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-215	35	16	8362	25391	32.6	3000	106	1.94	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218	35	16	8362	25391	32.6	2700	122	3.09	MS200C	HJ15-1	HC15-1	Ø98-Ø450

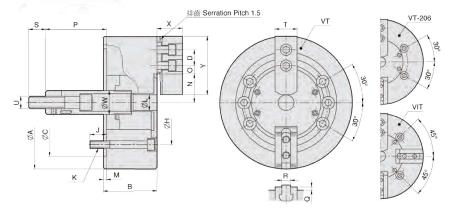
DIM Model	Α	В	С	D	Н	J	К	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	s	Т	U	W	X	Υ
V-206	165	74	140	20	104.78	14	6-M10x70	21	5	38.7	15.25	7.75	104.6	84.6	4	12	36	31	M16x2.0	34	39	73
V-208	210	85	170	25	133.35	20	6-M12x85	25	5	46.75	22.25	8.75	132	111	5	14	36	35	M20x2.5	38	41	95
V-210	254	89	220	30	171.45	18	6-M16x85	34	5	51.1	30.75	9.75	158	133	5	16	36	40	M20x2.5	45	46	110
V-212	304	106	220	30	171.45	23	6-M16x105	34	6	61	48.75	9.75	163	133	5	18	36	50	M20x2.5	50	54	130
V-215	381	114	300	43	235	29	6-M20x115	_	6	77.5	49.75	21.25	104	69	2	25.5	55	62	M30x3.5	60	63	165
V-218	450	114	300	43	235	29	6-M20x115	-	6	108	49.75	21.25	92	57	2	25.5	55	62	M30x3.5	60	63	165



VT&VIT

2-jaw and 4-jaw wedge type non through-hole power chuck (adapter excluded)

- Suitable for special applications:
 Used to hold special shape work pieces, such as square bar or flanges which is not possible clamping by 3 jaw chuck.
- 2. Interchangable with V or VA series.
- 3. Basic dimensions are the same as V type.
- 4. High performance as V type.



UNIT	:	m

SPEC Model	Jaws	St	inger roke ^{mm)}	St (In	roke	Max. Pull orce (kgf)	Max. Gripping Force (kgf)	Ope	lax. eratin essure (/cm²)	Q 0-	eea	Veight (kg)	Moment Of Inertia I (kg · m²)	a M	atchi ylind	ng er	Match Hard	ing Jaw	Matching Soft Jaw	С	Gripp J.D. R (mn	ange
VT-206	2	2	:0	9.2	2	1224	3569		17.3	3 :	5200	12.3	0.045	M	/IS10	5C	HJ	06	HC06	Q	018-0	0165
VT-208	2	2	1	9.7	7	1683	5098		16.3	3 .	4500	23.1	0.13	N	/IS12	5C	HJ	08	HC08	Q	026-0	ð210
VT-210	2	2	:5	8.8	3	1988	7342		19.4	4 .	4000	35.1	0.29	M	/IS12	5C	HJ [.]	10	HC10	Q	026-0	0254
VT-212	2	3	0	10.	5 :	2804	10605		18.4	4 :	3300	60.3	0.7	N	/IS15	0C	HJ1:	2-1	HC12-1	Ø	026-Q	3304
VIT-212	4	3	0	10.	5 -	4181	15907		27.5	5 :	2800	64.3	0.77	N	/IS15	0C	HJ1:	2-1	HC12-1	Ø	026-Q	304
VT-215	2	3	5	16	;	5557	16927		21.7	7 :	3000	102.6	1.89	N	1 S20	0C	HJ1	5-1	HC15-1	Ø	068-2	0 381
VIT-218	4	3	5	16	;	3362	25391		32.6	3 :	2300	127	3.21	N	/IS20	0C	HJ1	5-1	HC15-1	Ø	98-Ø	9450
DIM Model	Α	В	С	D	Н	J	К	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	s	Т	U	W	Х	Υ
	A 165	B 74	C 140	D 20	H 104.78	J 14	K 4-M10x70	L 21	M 5			min.			Q 4	R 12	S 36	T 31	U M16x2.0	W 34	X 39	Y 73
Model		_	-	_						max.	max.	min. 7.75	max.	min.			-					
Model VT-206	165	74	140	20	104.78	14	4-M10x70	21	5	max. 38.7	max. 15.25	min. 7.75 8.75	max. 104.6	min. 84.6	4	12	36	31	M16x2.0	34	39	73
VT-206 VT-208	165 210	74 85	140 170	20 25	104.78 133.35	14	4-M10x70 6-M12x85	21 25	5	max. 38.7 46.75	max. 15.25 22.25	min. 7.75 8.75 9.75	max. 104.6 132	min. 84.6 111	4 5	12 14	36 36	31 35	M16x2.0 M20x2.5	34 38	39 41	73 95
Model VT-206 VT-208 VT-210	165 210 254	74 85 89	140 170 220	20 25 30	104.78 133.35 171.45	14 20 18	4-M10x70 6-M12x85 6-M16x85	21 25 34	5 5 5	max. 38.7 46.75 51.1	max. 15.25 22.25 30.75	min. 7.75 8.75 9.75 9.75	max. 104.6 132 158	min. 84.6 111 133	4 5 5	12 14 16	36 36 36	31 35 40	M16x2.0 M20x2.5 M20x2.5	34 38 45	39 41 46	73 95 110

VIT-218 450 114 300 43 235 29 4-M20x115 — 6 108 49.75 21.25 92 57 2 25.5 55 62 M30x3.5 60 63 165

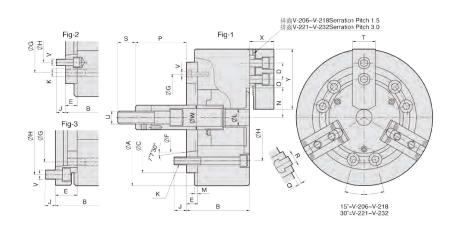


VA

3-jaw wedge type non through-hole power chuck (adapter included)

- 1. High performance :
- Similar high performance with N series.
- 2. Chuck mounting screws :
- Metric or UNC socket head cap screws are supplied for installing the chuck to the spindle.
- 3. Alternative spindle adaptors :
- ASA or DIN adaptors can be supplied as requested.

												UNIT : mm
SPEC Model	Plunger Stroke (mm)	Jaw Stroke (In Dia.) _(mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
V-206A4	20	9.2	1835	5353	26.5	5200	14.5	0.062	MS105C	HJ06	HC06	Ø18-Ø165
V-206A5	20	9.2	1835	5353	26.5	5200	13.9	0.056	MS105C	HJ06	HC06	Ø18-Ø165
V-206A6	20	9.2	1835	5353	26.5	5200	15.8	0.059	MS105C	HJ06	HC06	Ø18-Ø165
V-208A5	21	9.7	2549	7648	25.5	4500	26.8	0.154	MS125C	HJ08	HC08	Ø26-Ø210
V-208A6	21	9.7	2549	7648	25.5	4500	25.6	0.147	MS125C	HJ08	HC08	Ø26-Ø210
V-208A8	21	9.7	2549	7648	25.5	4500	30	0.172	MS125C	HJ08	HC08	Ø26-Ø210
V-210A6	25	8.8	2957	11013	28.6	4000	41.8	0.35	MS125C	HJ10	HC10	Ø26-Ø254
V-210A8	25	8.8	2957	11013	28.6	4000	39.6	0.33	MS125C	HJ10	HC10	Ø26-Ø254
V-210A11	25	8.8	2957	11013	28.6	4000	50	0.417	MS125C	HJ10	HC10	Ø26-Ø254
V-212A6	30	10.5	4181	15907	27.5	3300	67.6	0.76	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-212A8	30	10.5	4181	15907	27.5	3300	65.5	0.75	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-212A11	30	10.5	4181	15907	27.5	3300	75.9	0.888	MS150C	HJ12-1	HC12-1	Ø26-Ø304
V-215A8	35	16	8362	25391	32.6	3000	119	2.12	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215A11	35	16	8362	25391	32.6	3000	113	2.05	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215A15	35	16	8362	25391	32.6	3000	132	2.56	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218A8	35	16	8362	25391	32.6	2700	136	3.28	MS200C	HJ15-1	HC15-1	Ø98-Ø450
V-218A11	35	16	8362	25391	32.6	2700	129	3.20	MS200C	HJ15-1	HC15-1	Ø98-Ø450
V-218A15	35	16	8362	25391	32.6	2700	148	3.71	MS200C	HJ15-1	HC15-1	Ø98-Ø450



UNIT : mm

DIM Model	Α	В	C (H6)	D	Е	F	G	Н	J	K	L	М	N max.	O max.	O min.	P max.	P min.	Q	R	s	Т	U	V	W	ХҮ	Reference
V-206A4	165	89	140	20	20	63.513	104.78	82.55	16	6-M10	21	5	38.7	15.25	7.75	84.6	64.6	4	12	36	31	M16x2.0	6-M10	34	39 73	Fig2
V-206A5	165	84	140	20	15	82.563	116	104.78	14	6-M10	21	5	38.7	15.25	7.75	89.6	69.6	4	12	36	31	M16x2.0	3-M6	34	39 73	Fig1
V-206A6	165	104	140	20	35	106.375	104.78	133.35	16	6-M10	21	5	38.7	15.25	7.75	69.6	49.6	4	12	36	31	M16x2.0	6-M12	34	39 73	Fig3
V-208A5	210	103	170	25	23	82.563	133.35	104.78	14	6-M12	25	5	46.75	22.25	8.75	109	88	5	14	36	35	M20x2.5	6-M10	38	41 95	Fig2
V-208A6	210	97	170	25	17	106.375	150	133.35	18	6-M12	25	5	46.75	22.25	8.75	115	94	5	14	36	35	M20x2.5	3-M6	38	41 95	Fig1
V-208A8	210	120	170	25	40	139.719	133.35	171.45	24	6-M12	25	5	46.75	22.25	8.75	92	71	5	14	36	35	M20x2.5	6-M16	38	41 95	Fig3
V-210A6	254	109	220	30	25	106.375	171.45	133.35	18	6-M16	34	5	51.1	30.75	9.75	133	108	5	16	36	40	M20x2.5	6-M12	45	4611	0 Fig2
V-210A8	254	102	220	30	18	139.719	190	171.45	25	6-M16	34	5	51.1	30.75	9.75	140	115	5	16	36	40	M20x2.5	3-M8	45	4611	0 Fig1
V-210A11	254	134	220	30	50	196.869	171.45	235	28	6-M16	34	5	51.1	30.75	9.75	108	83	5	16	36	40	M20x2.5	6-M20	45	4611	0 Fig3
V-212A6	304	125	220	30	25	106.375	171.45	133.35	18	6-M16	34	6	61	48.75	9.75	138	108	5	18	36	50	M20x2.5	6-M12	50	5413	0 Fig2
V-212A8	304	118	220	30	18	139.719	190	171.45	25	6-M16	34	6	61	48.75	9.75	145	115	5	18	36	50	M20x2.5	3-M8	50	5413	0 Fig1
V-212A11	304	150	220	30	50	196.869	171.45	235	28	6-M16	34	6	61	48.75	9.75	113	83	5	18	36	50	M20x2.5	6-M20	50	5413	0 Fig3
V-215A8	381	141	300	43	33	139.719	235	171.45	24	6-M20	_	6	77.5	49.75	21.25	71	36	2	25.5	55	62	M30x3.5	6-M16	60	6316	5 Fig2
V-215A11	381	130	300	43	22	196.869	260	235	32	6-M20	_	6	77.5	49.75	21.25	82	47	2	25.5	55	62	M30x3.5	3-M10	60	6316	5 Fig1
V-215A15	381	165	300	43	57	285.775	235	330.2	29	6-M20	_	6	77.5	49.75	21.25	47	12	2	25.5	55	62	M30x3.5	6-M24	60	6316	5 Fig3
V-218A8	450	141	300	43	33	139.719	235	171.45	24	6-M20	_	6	108	49.75	21.25	59	24	2	25.5	55	62	M30x3.5	6-M16	60	6316	5 Fig2
V-218A11	450	130	300	43	22	196.869	260	235	32	6-M20	_	6	108	49.75	21.25	70	35	2	25.5	55	62	M30x3.5	3-M10	60	6316	5 Fig1
V-218A15	450	165	300	43	57	285.775	235	330.2	29	6-M20	_	6	108	49.75	21.25	35	0	2	25.5	55	62	M30x3.5	6-M24	60	6316	5 Fig3





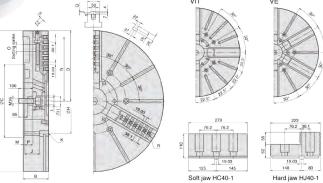
V(40"-79")

Large wedge type non through-hole power chuck (adapter excluded)

Chucking operations of very large components external or internal clamping.

UNIT : mm

- 2. Suitable for vertical lathe, due to the front protection of slide way.
- 3. Master jaw with manual radial setting function.



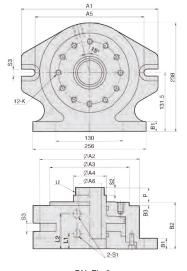
SPEC Model	Jaws	Plunger Stroke (mm)	Str +(Manua	al Jaw roke al setting) nm)	Max. Pull Force (kN)	Max Gripp Ford (kN	ing ce		Max. Speed (r.p.m.)	Weight (kg)	Momen Of Inerti I (kg·m²)	a N	latching Cylinder	Matching Hard Jav	g Ma w So	tching ft Jaw	Gripp O.D. Ra (mm	ange
40" V-240	3	57	20.	- (30)	180	32	0	42.8	630	645	82		IS250C	HJ40-	1 4	240-1	Ø285-Ø	11005
VIT-240	4	37	20 1	- (30)	100	321	U	42.0	550	700	89	IV	132300	H040-	I IIC	J4U-1	W203-W	1005
50" V-250	3								500	890	168							
VIT-250	4	57	23 +	- (30)	180	32	0	42.8	400	940	177	N	IS250C	HJ40-	1 HC	240-1	Ø270-Ø	1250
VE-250	6								360	971	183							
63" V-263	3								400	1800	548							
VIT-263	4	60	24 +	- (40)	200	36	0	46.9	300	1700	518	M	IS250C	HJ40-	1 HC	240-1	Ø390-Ø	1600
VE-263	6								280	1800	548							
79" VE-279	6	60	24 +	· (40)	200	36	0	46.9	230	2850	1350	M	IS250C	HJ40-	1 HC	240-1	Ø440-Ø	2000
DIM Model	Α	В	С	D max.	Н	J	K	L	М	N max.	0	P max.	P min.	Q	R	S	Т	U
40" V-240	1005	180	520	502	463.6	108	M24	M52x1.5	5 8	457	30	59	2	4	7-M24	19	85	72
VIT-240	1000	100	520	- JOE	100.0	100	1412-7	WIOZXTIC	, 0	107	00	00		-	, IVIZ-1		00	
50" V-250																		
VIT-250	1250	180	520	623	463.6	108	M24	M52x1.5	8	563	30	59	2	4	10-M24	19	85	72
VE-250																		
63" V-263																		
VIT-263	1600	220	720	796	647.6	144	M30	M52x1.5	8	738	40	82	22	6	13-M24	22	110	72
VE-263																		
79" VE-279	2000	238	720	996 (647.6	159	M30	M52x1.5	8	914	40	100	40	6	17-M24	22	110	72

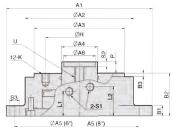


DV/DN

Vertical and vertical horizontal stationary power chuck

- 1. Suitable for vertical milling and drilling operations.
- 2. With large through-hole, Vertical / horizontal power chucks does not only clamp the long workpiece but also the horizontal holding.





DV Fig-1

DN Fig-2

UNIT	:	r

SPEC Model	Piston Dia. (mm)	Piston Area (cm²) Push Side / Pull Side	Max. Draw Bar Force (kgf) Push Side / Pull Side	Piston Stroke (mm)	Max. Operating Pressure (kgf / cm²)	Weight (kg)	Matching Chuck
DV-6	Ø115	104 / 78.5	1900 / 1400	20	20	12	V-206
DV-8	Ø155	187 / 148.6	3600 / 2800	21	20	21	V-208, V-210, V-212
DN-8	Ø155	148.6 / 148.6	2800 / 2800	17	20	28.5	N-208

DIM Model	A1	A2	АЗ	A4	A5	A6	B1	B2	ВЗ	Н	К	L1	L2	P max.	P min.	S1	S2	S3	U	Reference
DV-6	Ø220	168	140	55	Ø200	49	16	65.5	5.5	104.78	12-M10x15L	38	45	18	-2	PT 1/4"	7.6	2-Ø15	M16xP2.0	Fig-1
DV-8	290	210	170	70	242	58	24	86	5.5	133.35	12-M12x16L	23	65	20	-1	PT 1/4"	5.5	2-16	M16xP2.0	Fig-1
DN-8	293	213	170	70	242	52	24	100	5.5	133.35	12-M12x18L	32.5	74.5	30.4	13.4	PT 1/4"	16	4-17	M60xP2.0	Fig-2



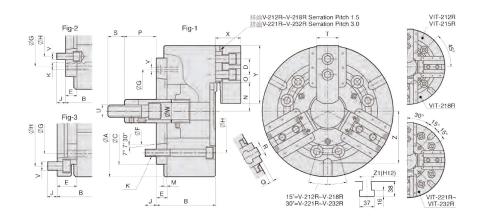
A STRONGHOLD BY PRECISION AND POWER.



VRA Non through-hole power chuck for vertical lathe (adapter included)

- 1. The front protection of slide way.
- 2. Suitable for vertical lathe.

													UNIT : mm
SPEC Model	Jaws	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force (kgf)	Max. Gripping Force (kgf)	Max. Operating Pressure (kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Hard Jaw	Matching Soft Jaw	Gripping O.D. Range (mm)
V-212RA6	3	30	16	5302	14276	35.7	3000	67.7	0.774	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-212RA8	3	30	16	5302	14276	35.7	3000	65.6	0.764	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-212RA11	3	30	16	5302	14276	35.7	3000	74.1	0.902	MS150C	HJ12-1	HC12-1	Ø32-Ø304
V-215RA8	3	35	18.7	9585	25798	35.7	2800	120.4	2.146	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215RA11	3	35	18.7	9585	25798	35.7	2800	113.4	2.016	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-215RA15	3	35	18.7	9585	25798	35.7	2800	133	2.572	MS200C	HJ15-1	HC15-1	Ø68-Ø381
V-218RA8	3	35	18.7	9585	25798	35.7	2300	144.5	3.507	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-218RA11	3	35	18.7	9585	25798	35.7	2300	137.5	3.43	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-218RA15	3	35	18.7	9585	25798	35.7	2300	157.5	3.945	MS200C	HJ15-1	HC15-1	Ø78-Ø450
V-221RA8	3	35	16	9075	28450	33.7	1940	198	6.46	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-221RA11	3	35	16	9075	28450	33.7	1940	190	6.35	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-221RA15	3	35	16	9075	28450	33.7	1940	184	6.28	MS200C	HJ24-1	HC24-1	Ø65-Ø530
V-224RA8	3	35	16	9075	28450	33.7	1760	240	10.54	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-224RA11	3	35	16	9075	28450	33.7	1760	233	10.44	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-224RA15	3	35	16	9075	28450	33.7	1760	227	10.36	MS200C	HJ24-1	HC24-1	Ø152-Ø610
V-232RA11	3	35	18.7	9585	25798	35.7	1060	390	30.9	MS200C	HJ24-1	HC32-1	Ø100-Ø810
V-232RA15	3	35	18.7	9585	25798	35.7	1060	383	30.82	MS200C	HJ24-1	HC32-1	Ø100-Ø810
V-232RA20	3	35	18.7	9585	25798	35.7	1060	419	32.69	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-212RA8	4	30	16	5302	14276	35.7	2500	68	0.792	MS150C	HJ12-1	HC12-1	Ø45-Ø304
VIT-218RA11	4	35	18.7	9585	25798	35.7	2000	141.5	3.522	MS200C	HJ15-1	HC15-1	Ø78-Ø450
VIT-224RA11	4	35	18.7	9075	28450	33.7	1520	255	11.3	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT-224RA15	4	35	18.7	9075	28450	33.7	1520	240	11.02	MS200C	HJ24-1	HC24-1	Ø152-Ø610
VIT-232RA11	4	35	18.7	9585	25798	35.7	920	414	32.68	MS200C	HJ24-1	HC32-1	Ø100-Ø810
VIT-232RA15	4	35	18.7	9585	25798	35.7	920	399	32.4	MS200C	HJ24-1	HC32-1	Ø100-Ø810



LINIT: mm G H J K M N O O P P Q R S T U V-212RA6 304 125 220 30 25 106.375 171.45 133.35 18 6-M16 6 64 45.75 12.75 138 108 5.5 18 36 50 M20x2.5 6-M12 50 54.5 130 V-212RA8 304 118 220 30 18 139.719 190 171.45 24 6-M16 6 64 45.75 12.75 145 115 5.5 18 36 50 M20x2.5 3-M8 50 54.5 130 -V-212RA11 304 150 220 30 50 196.869 171.45 235 28 6-M16 6 64 45.75 12.75 113 83 5.5 18 36 50 M20x2.5 6-M20 50 54.5 130 - -V-215RA8 381 141 300 43 33 139.719 235 171.45 24 6-M20 6 78 49.75 24.25 71 36 5.5 25.5 55 62 M30x3.5 6-M16 60 66.5 165 — V-215RA11 381 130 300 43 22 196.869 260 235 32 6-M20 6 78 49.75 24.25 82 47 5.5 25.5 55 62 M30x3.5 3-M10 60 66.5 165 V-215RA15 381 165 300 43 57 285.775 235 330.2 29 6-M20 6 78 49.75 24.25 47 12 5.5 25.5 55 62 M30x3.5 6-M24 60 66.5 165 V-218RA8 450 141 300 43 33 139.719 235 171.45 24 6-M20 6 92 70.75 24.25 59 24 5.5 25.555 62 M30x3.5 6-M16 60 66.5 165 158 22 V-218RA11 450 130 300 43 22 196.869 260 235 32 6-M20 6 92 70.75 24.25 70 35 5.5 25.5 55 62 M30x3.5 3-M10 60 66.5 165 158 22 V-218RA15 450 165 300 43 57 285,775 235 330.2 29 6-M20 6 92 70.75 24.25 35 0 5.5 25.5 55 62 M30x3.5 6-M24 60 66.5 165 158 22 V-221RA8 530 154 380 60 33 139.719 330.2 171.45 24 6-M24 6 87 93.5 27.5 64 29 9 25 55 64 M30x3.5 9-M16 60 77 180 155 22 V-221RA11 530 148 380 60 27 196.869 330.2 235 30 6-M24 6 87 93.5 27.5 70 35 9 25 55 64 M30x3.5 6-M20 60 77 180 155 22 V-221RA15 530 148 380 60 27 285.775 330.2 330.2 33 6-M24 6 87 93.5 27.5 70 35 9 25 55 64 M30x3.5 3-M12 60 77 180 155 22 V-224RA8 610 154 380 60 33 139.719 330.2 171.45 24 6-M24 6 126.5 93.5 27.5 64 29 9 25 55 64 M30x3.5 9-M16 60 77 180 165.1 22 V-224RA11 610 148 380 60 27 196.869 330.2 235 30 6-M24 6 126.5 93.5 27.5 70 35 9 25 55 64 M30x3.5 6-M20 60 77 180 165.1 22 V-224RA15 610 148 380 60 27 285.775 330.2 330.2 33 6-M24 6 126.5 93.5 27.5 70 35 9 25 55 64 M30x3.5 3-M12 60 77 180 165.1 22 V-232RA11 810 156 380 80 27 196.869 330.2 235 30 6-M24 6 104.8 196.5 25.5 47 12 5 25 55 74 M30x3.5 6-M20 60 93 210 165.1 22 Fig2 V-232RA15 810 156 380 80 27 285.775 330.2 330.2 33 6-M24 6 104.8 196.5 25.5 47 12 5 25 55 74 M30x3.5 3-M12 60 93 210 165.1 22 V-232RA20 810 187 520 80 58 412.775 330.2 463.6 35 6-M24 6 104.8 196.5 25.5 16 -19 5 25 55 74 M30x3.5 6-M24 60 93 210 165.1 22 VIT-212RA8 304 118 220 30 18 139.719 190 171.45 24 4-M16 6 64 45.75 12.75 145 115 5.5 18 36 50 M20x2.5 4-M8 50 54.5 130 - -VIT-218RA11 450 130 300 43 22 196.869 260 235 32 4-M20 6 92 70.75 24.25 70 35 5.5 25.555 62 M30x3.5 4-M10 60 66.5 165 158 22 VIT-224RA11 610 162 380 60 41 196.869 330.2 235 30 8-M24 6 126.5 93.5 27.5 70 35 9 25 56 64 M30x3.5 6-M20 60 77 180 165.1 22 VIT-224RA15 610 148 380 60 27 285.775 330.2 330.2 33 8-M24 6 126.5 93.5 27.5 70 35 9 25 55 64 M30x3.5 4-M12 60 77 180 165.1 22 VIT-232RA11 810 170 380 80 41 196.869 330.2 235 30 8-M24 6 104.8 196.5 25.5 47 12 5 25 56 74 M30x3.5 6-M20 60 93 210 200 22 VIT-232RA15 810 156 380 80 27 285.775 330.2 330.2 33 8-M24 6 104.8 196.5 25.5 47 12 5 25 55 74 M30x3.5 4-M12 60 93 210 200 22 Fig1



A STRONGHOLD BY PRECISION AND POWER.

T-NUTS

Suitable for power chuck





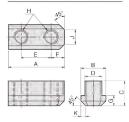


Fig. 2

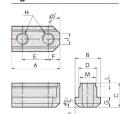


Fig. 3





UNIT : mm

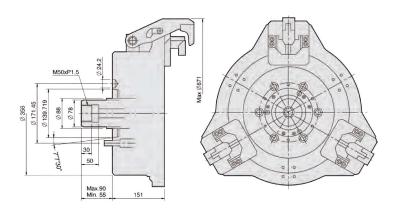
DIM Model	Α	В	С	D	Е	F	G	Н	J	К	L	М	Fig	Matching Chuck
N-205	26	14.5	15	10	14	6	5.5	M8	5	2	_	_	1	N-204, N-205
N-206	36	17.5	18.5	12	20	8.2	7.5	M10	8	2.5	_	_	1	N-206, NB-306
N-208	46.5	20.5	20.5	14	25	10.5	8.5	M12	12	4	_	_	1	N-208, NB-208
N-210	51	22.5	21.5	16	30	11	8.5	M12	11	3	_	_	1	N-210, NB-210
N-212	55.5	29.5	27.8	21	30	12	11.5	M16	13	4.5	_	_	1	N-212, NB212
N-215	80	33.5	45.5	24	43	17	16.5	M20	11	5	8	22	2	N-215, N-218
V-206	36.5	17.5	22.5	12	20	7.5	7.5	M10	6	3	_	_	1	V-206, NHT-208
V-208	48	20.5	25.5	14	25	11	9.5	M12	8	4	_	_	1	V-208
V-210	55	22.5	25.5	16	30	11	9.5	M12	8	4	_	_	1	V-210
V-212	55.5	26.5	33.5	18	30	11.5	13.5	M14	11	5	_	_	1	V-212
V-215	42	35	39.2	25.5	_	_	19	M20	_	25	_	_	3	V-215, V-218
V-215 26 M20	42	35	41.2	26	_	-	19	M20	_	25	_	_	3	V-215P3.0
V-224	46	37.5	45	25	_	_	19	M20	_	26.5	_	_	3	N-220, N-224, V-221, V-224, V-232



F52

High speed and light weight type strong finger chuck for aluminum wheel

- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
 Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA, B5-9
- type A spindles.



UNIT: mm

SPEC Model	Matching Wheel Size	Out Dai. Of Chuck (mm)	Matching Spindle	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (Without Jigs) (kg)	Matching Cylinder
F52A8	12"-18"	521	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	2800(18"2200)	98	MS125C35

UNIT : mm



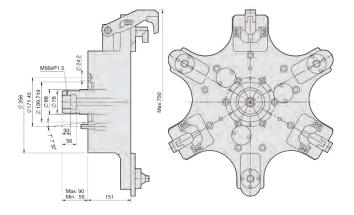




F61

High speed and light weight type strong finger chuck for aluminum wheel

- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
 Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA, B5-9
- type A spindles.

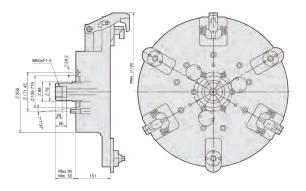




F66

High speed and light weight type strong finger chuck for aluminum wheel

- All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.
 Mounting: Adaptor mounting to fit with DIN, ISO, BS, ASA, B5-9
- type A spindles.



									UNII : mm	
SPEC Model	Matching Wheel Size	Out Dai. Of Chuck (mm)	Matching Spindle	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf/cm²)	Max. Speed (r.p.m.)	Weight (Without Jigs) (kg)	Matching Cylinder	
F61A8	13"-22"	610	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	1500	145	MS125C35	

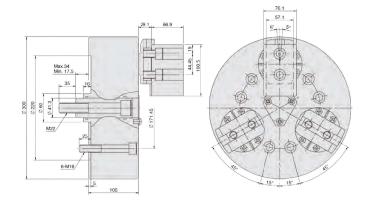
SPEC Model	Matching Wheel Size	Out Dai. Of Chuck (mm)	Matching Spindle	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (Without Jigs) (kg)	Matching Cylinder
F66A8	19"-24"	660	A2-8	33.9(3456)	32.4(3303)	3.3(33.6)	1500	182	MS125C35





3-jaw ball swing lock chuck

- 1. The chuck can attract the workpiece and hold it on. The jaw operates in two stages: Clamping pull back, so it can hold the workpiece exactly on the position in front of the chuck, and make it under the stabile situation.
- 2. The chuck can grasp the workpiece on both O.D. and I.D. clamping. The chuck can switch between O.D. and I.D. clamping mode by a simple
- 3. The chuck can grasp the part of the taper. The chcuk can exactly grasp the black surface of the cast irons, which has draft. So the discard process can be ignored on the chucking part of the workpiece.(It can grasp up to a 20 degree taper when using a clipper.)
- 4. The jaw can equalize on the O.D. clamping, so it can grasp the workpiece steady. (Jaw self-equalizing to max 5°)
- 5. Dustproof performance is excellent. It is differ from regular general purpose chuck. It is structurally dustproof. Especially there is a dustproof seal in the part of lock arm to prevent the dust.



	UNIT	:	mm
Cainning D			

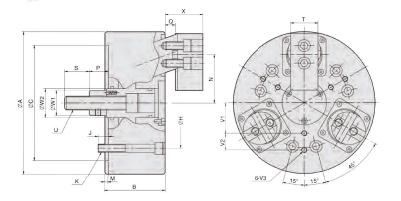
SPEC Model	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Soft Jaw	Gripping Range O.D. Range / I.D. Range
BL-12	17.5	12.4	40.7(4152)	122(12440)	2.8(28.5)	2800	65	0.18	MS150C	BL-12	Ø63-Ø240 / Ø127-Ø305



3-jaw draw down power chuck

Draw down power chuck feature of radial clamping will lead to almost no work piece uplifting displacement; for machining casting and forging part:

- 1. For the clampped work-piece is appressed to the surtace, chucks are suitable for heavy machining.
- 2. Chuck Actutors with cylindrical structure are durable and ensures high clamping repeatability.
- 3. Accurate self-centering and pull back features are adequate or precise length control machining requirements.



UNIT	:	ı

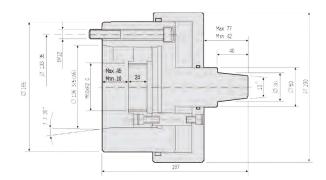
SPEC Model	Plunger Stroke (mm)	Jaw Stroke (In Dia.) _(mm)	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Soft Jaw	Gripping O.D. Range (mm)
DR-06	10	7.2	15(1530)	25(2549)	2.1(21.4)	3500	15	0.05	MS105C	DR06-HC	Ø35-Ø165
DR-08	10	7.2	25(2590)	45(4589)	2.5(25.5)	3000	25	0.14	MS125C	DR08-HC	Ø40-Ø210

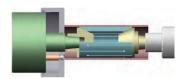
DIM Model	Α	В	С	Н	J	K	М	N max.	N min.	P max.	P min.	Q max.	Q min.	S	Т	U	W1	W2	X max.	X min.	V1	V2	V3
DR-06	165	85	140	104.78	16	6xM10	5	58	54.4	33	23	14	4	36	35	M16x2.0	32	33.5	45	35	35	20	M6x12
DR-08	210	90	170	133.35	15	6xM12	5	71.3	67.7	38	28	15	5	36	40	M20x2.5	37	42	56	46	45	25	M8x16

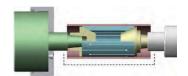


P165 Floating plate center chuck

• Suitable for easy one step cutting of thin hores, plate and outside







Possible processing range

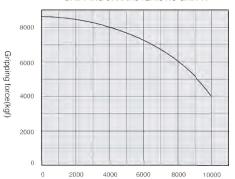


HN

3-jaw extra high speed through-hole power chuck(adapter included)

- Possible 10,000 r.p.m. highest speed chuck.
 Model HN chucks are assembled with adaptor for ASA B5.9 type A
- 3. Model HN chucks are manufactured form high grade alloy steel. All sliding surfaces are hardened and ground for accurate actual running and long service repeatability.

GRIPPING CHARACTERISTIC GRAPH



Rotation speed(r.p.m)

Olai - IIIII
Matching

SPEC Model	Plunger Stroke (mm)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder
P165	35	1.0(10)	6000	18.5	0.02	MS125C35

UNIT : mm

SPEC Model	Through -Hole (mm)	Plunger Stroke (mm)	Jaw Stroke (In Dia.) (mm)	Max. Pull Force kN(kgf)	Max. Gripping Force kN(kgf)	Max. Operating Pressure MPa(kgf / cm²)	Max. Speed (r.p.m.)	Weight (kg)	Moment Of Inertia I (kg·m²)	Matching Cylinder	Matching Soft Jaw	Gripping O.D. Range (mm)	
HN-06	Ø36	12	5.5	30(3050)	79.4(8100)	2.9(30)	10000	11.5	0.035	HG-1336	Model-A	Ø14-Ø51	