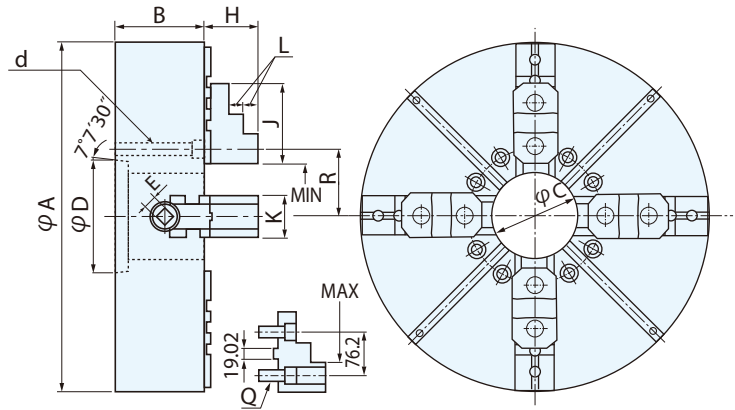
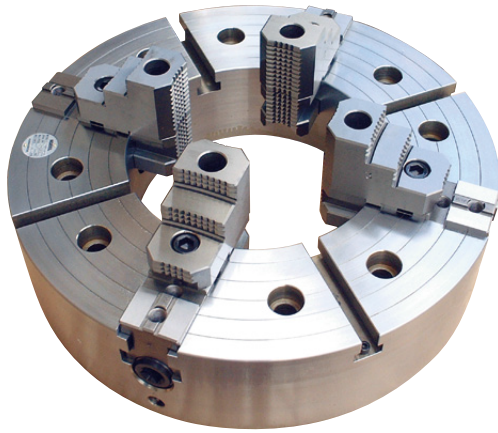


FORGED STEEL BODY

- Directly installed (JIS/ASA) short tapered type
- Standard 2-piece tongue and groove jaws
- One set of hard top jaws included (Soft jaws not included)
- A stopper bolt provided at the T-slot end

410 : HEAVY DUTY
 420 : MEDIUM DUTY
 411,421 : TOP JAW UNC TYPE



※1 : Dimensions : metric, : inch. ※2 : Dimensions in brackets () are Max. thru-hole diameter which can be machined.
 ※3 : Bolt : for 410, 420 model Bolt : for 411, 421 model

Unit (mm)

MODEL	Spindle Nose	A		B		C		D		Gripping Dia		R	Weight				
		(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)	MIN	MAX		(mm)	(inch)	(kg)	(lb)	
420 18 A8	A1 • A2- 8	457	18	127	5.0	115	4.5	139.7	5.5	35	1.4	430	17	85.7	3.37	165	365
420 18 A11	A1 • A2-11	457	18	127	5.0	152	6.0	196.9	7.8	35	1.4	430	17	117.5	4.63	156	345
420 21 A8	A1 • A2- 8	535	21	127	5.0	115	4.5	139.7	5.5	35	1.4	500	20	85.7	3.37	225	497
410 21 A11	A1 • A2-11	535	21	146	5.7	152 (160)	6.0 (6.3)	196.9	7.8	45	1.8	490	19	117.5	4.63	240	530
410 21 A15	A1 • A2-15	535	21	146	5.7	204	8.0	285.8	11.3	74	2.9	490	19	165.1	6.5	230	508
410 24 A11	A1 • A2-11	610	24	155	6.1	172 (185)	6.8 (7.3)	196.9	7.8	55	2.2	560	22	117.5	4.63	342	756
410 24 A15	A1 • A2-15	610	24	155	6.1	241 (259)	9.5 (10.2)	285.8	11.3	110	4.3	560	22	165.1	6.5	310	685
410 24 A20	A1 • A2-20	610	24	155	6.1	318	12.5	412.8	16.3	185	7.3	560	22	231.8	9.13	278	614
420 28 A11	A1 • A2-11	710	28	134	5.3	172	6.8	196.9	7.8	45	1.8	680	27	117.5	4.63	390	862
410 28 A15	A1 • A2-15	710	28	155	6.1	268 (275)	10.6 (10.8)	285.8	11.3	125	4.9	660	26	165.1	6.5	430	950
410 28 A20	A1 • A2-20	710	28	155	6.1	318	12.5	412.8	16.3	175	6.9	660	26	231.8	9.13	395	873
420 32 A11	A1 • A2-11	810	32	134	5.3	172	6.8	196.9	7.8	45	1.8	780	31	117.5	4.63	510	1127
410 32 A15	A1 • A2-15	810	32	165	6.5	268 (275)	10.6 (10.8)	285.8	11.3	125	4.9	760	30	165.1	6.5	595	1315
410 32 A20	A1 • A2-20	812	32	165	6.5	318 (370)	12.5 (14.6)	412.8	16.3	175	6.9	760	30	231.8	9.13	565	1249
410 36 A15	A1 • A2-15	915	36	175	6.9	268 (275)	10.6 (10.8)	285.8	11.3	125	4.9	860	34	165.1	6.5	820	1812
410 36 A20	A1 • A2-20	915	36	175	6.9	318 (370)	12.5 (14.6)	412.8	16.3	175	6.9	860	34	231.8	9.13	790	1746
410 42 A15	A1 • A2-15	1067	42	175	6.9	268 (275)	10.6 (10.8)	285.8	11.3	125	4.9	1010	40	165.1	6.5	1150	2542
410 42 A20	A1 • A2-20	1067	42	175	6.9	318 (370)	12.5 (14.6)	412.8	16.3	175	6.9	1010	40	231.8	9.13	1120	2475

MODEL	E		Q *3		J		K		H		d	Wrench Torque N • m (kgf • m)	Gripping Force Per Jaw kN (kgf)	Max. Speed min ⁻¹ (r.p.m)
	(mm)	(inch)	(Bolt For Top Jaws)	(mm)	(inch)	(mm)	(inch)	(mm)	(inch)					
420 18 A8	16	0.63	M20 UNC 3/4	135	5.3	50	1.97	76	2.99	4-M16	314(32)	29(3000)	1200	
420 18 A11	16	0.63	M20 UNC 3/4	135	5.3	50	1.97	76	2.99	4-M20	314(32)	29(3000)	1200	
420 21 A8	16	0.63	M20 UNC 3/4	135	5.3	50	1.97	76	2.99	4-M16	314(32)	29(3000)	1000	
410 21 A11	19	0.75	M20 UNC 3/4	135	5.3	60	2.36	75	2.95	8-M20	343(35)	31(3200)	1000	
410 21 A15	19	0.75	M20 UNC 3/4	135	5.3	60	2.36	75	2.95	8-M22	343(35)	31(3200)	1000	
410 24 A11	22	0.87	M20 UNC 3/4	140	5.5	75	2.95	92	3.62	8-M20	392(40)	36(3700)	850	
410 24 A15	22	0.87	M20 UNC 3/4	140	5.5	75	2.95	92	3.62	8-M22	392(40)	36(3700)	850	
410 24 A20	22	0.87	M20 UNC 3/4	140	5.5	75	2.95	92	3.62	8-M24	392(40)	36(3700)	850	
420 28 A11	19	0.75	M20 UNC 3/4	135	5.3	60	2.36	75	2.95	8-M20	392(40)	36(3700)	650	
410 28 A15	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M22	441(45)	40(4100)	650	
410 28 A20	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M24	441(45)	40(4100)	650	
420 32 A11	19	0.75	M20 UNC 3/4	135	5.3	60	2.36	75	2.95	8-M20	392(40)	36(3700)	550	
410 32 A15	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M22	441(45)	40(4100)	550	
410 32 A20	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M24	441(45)	40(4100)	550	
410 36 A15	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M22	490(50)	44(4500)	500	
410 36 A20	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M24	490(50)	44(4500)	500	
410 42 A15	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M22	490(50)	44(4500)	400	
410 42 A20	22	0.87	M22 UNC 7/8	140	5.5	75	2.95	92	3.62	8-M24	490(50)	44(4500)	400	

※ For master jaw dimensions and use of soft jaw, refer to page 19. ※ Manufacture of chucks in sizes other than the above is available.