



CHUCK

▶ P.91~P.109

Jaws and Accessories



CHUCK

Soft Jaws for Power Chuck

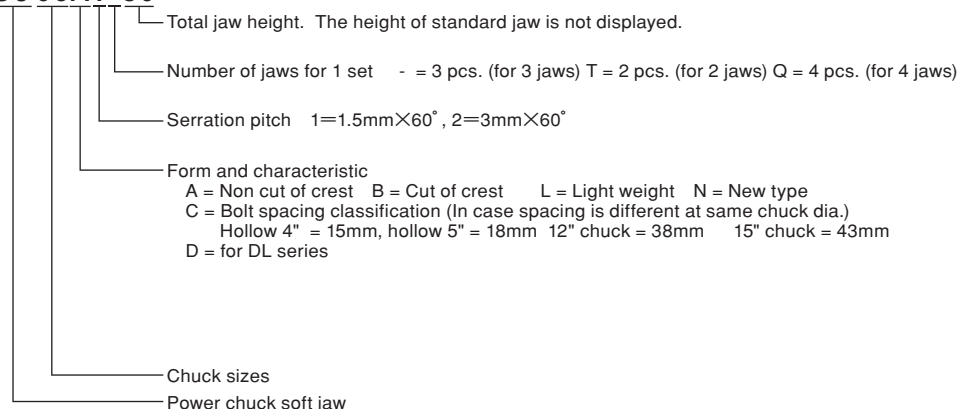
SJ series



※SJ series is a model change type of existing SB series and it is fully compatible with SB series.
If you have any questions, please consult us.

Description of Model

SJ 06A1-80



Combination of Soft Jaws

Standard jaw	High jaw	Adaptive closed centre chuck	Adaptive open centre chuck
SJ04B1	SJ04A1-036 SJ04A1-048	N-04, AS04, NL04, NRC04	
SJ04A1T	SJ04A1T048	NT04, AT04	
SJ04N1	SJ04N1-036 SJ04N1-048		B-204
SJ04N1T			BT204
SJ05B1	SJ05A1-038 SJ05A1-053	N-05	
SJ05A1T	SJ05A1T053	NT05	
SJ05N1	SJ05N1-038 SJ05N1-053		B-205
SJ05N1T			BT205
SJ06B1	SJ06A1-066	N-06, NL06, AS06, NRC06	BR06, BB206, QJR07
SJ06A1T	SJ06A1T066	NT06, NLT06, AT06	
SJ06C1			UVE160K
SJ06D1		DL206	
SJ06L1A			BS306, B-206, HOH-206, BL206
SJ06L1T			BT206, BRT06
SJ08A1	SJ08A1-056 SJ08A1-076	NT08, NLT08, AT08	BT208, BRT08
SJ08B1	SJ08A1-056 SJ08A1-076	DL208, N-08, NL08, AS08, NRC08	BR08, BB208, BS308, B-208, HOH-208, BL208, QJR08
SJ08B1Q	SJ08B1Q-76	HW-08	
SJ10A1	SJ10A1-056 SJ10A1-080 SJ10A1-116	NL10, AS10, NRC10, NT10, NLT10, AT10	BT210
SJ10B1	SJ10A1-056 SJ10A1-080 SJ10A1-116	N-10	BR10, BB210, BS310, B-210, BL210, HOH-10K, QJR10, UVE200K, UVE250K, BRT10
SJ10A2Q	SJ10A2Q080	HW-10, HW-12	
SJ10D1		DL210	
SJ12A1	SJ12A1-090	DL212, N-12, NL12, NLT12	HOH-12K
SJ12C1			UVE315K
SJ12N1	SJ12N1-090		BR12, BB212, B-212, BL212, QJR12, BT212, BLT212
SJ15C1	SJ15C1-110		B-15, B-18, HOH-15K
SJ15A2			UVE400K
SJ15A2Q		HW-15	
SJ15N1	SJ15N1-110	N-15, N-18	B-215
SJ18A2	SJ18A2-110	N-21, N-24	B-21, B-24
SB06BB	SB06BB-040		QB306
SB08BB	SB08BB-056		QB308
SB10BB	SB10BB-060		QB310
SB12BB	SB12BB-070		QB312
PW-06		PW-06	
PW-08		PW-08	
PW-10		PW-10	
PW-12		PW-12	
PW-15		PW-15	

■ Combination Table for Standard Soft Jaws

Chuck	Soft jaw	Mounting bolt	Chuck	Soft jaw	Mounting bolt
BR06	SJ06B1	M10×25	NL04	SJ04B1	M8×22
BR08	SJ08B1	M12×30	NL06	SJ06B1	M10×30
BR10	SJ10B1	M12×30	NL08	SJ08B1	M12×35
BR12	SJ12N1	M16×35	NL10	SJ10A1	M12×35
			NL12	SJ12A1	M14×45
B-204	SJ04N1	M8×20	NL18	SJ15N1	M20×55
B-205	SJ05N1	M8×20			
B-206	SJ06L1A	M10×25	NT04	SJ04A1T	M8×22
B-208	SJ08B1	M12×30	NT05	SJ05A1T	M8×22
B-210	SJ10B1	M12×30	NT15	SJ12N1	M20×55
B-212	SJ12N1	M16×40			
B-215	SJ15N1	M20×55	NLT06	SJ06A1T	M10×25
			NLT08	SJ08A1	M12×30
B-15	SJ15C1	M20×60	NLT10	SJ10A1	M12×35
B-18	SJ15C1	M20×60	NLT12	SJ12A1	M14×45
B-21	SJ18A2	M20×60			
B-24	SJ18A2	M20×60	ML06	SJ06B1	M10×25
			ML08	SJ08B1	M12×30
BB206	SJ06B1	M10×25			
BB208	SJ08B1	M12×30	MLT06	SJ06A1T	M10×25
BB210	SJ10B1	M12×30	MLT08	SJ08A1	M12×30
BB212	SJ12N1	M16×35			
			MLV06	SB06A1V	M10×25
BS306	SJ06L1A	M10×25	MLV08	SB08A1V	M12×30
BS308	SJ08B1	M12×30			
BS310	SJ10B1	M12×30	HW-08	SJ08B1Q	M10×25
			HW-10	SJ10A2Q	M12×35
BL206	SJ06L1A	M10×25	HW-12	SJ10A2Q	M12×35
BL208	SJ08B1	M12×30	HW-15	SJ15A2Q	M14×40
BL210	SJ10B1	M12×30			
BL212	SJ12N1	M16×40	UVE160K	SJ06C1	M12×30
			UVE200K	SJ10B1	M12×30
HOH-206	SJ06L1A	M10×25	UVE250K	SJ10B1	M12×30
HOH-208	SJ08B1	M12×30	UVE315K	SJ12C1	M14×35
HOH-10K	SJ10B1	M12×35	UVE400K	SJ15A2	M20×45
HOH-12K	SJ12A1	M14×45			
HOH-15K	SJ15C1	M20×55	UB450K	UB450	
			UB560K	UB560K	
QB306	SB06BB	-	UB630K	UB710	
QB308	SB08BB	-	UB710K	UB710	
QB310	SB10BB	-			
QB312	SB12BB	-	DL206	SJ06D1	M10×25
			DL208	SJ08B1	M12×30
BRT06	SJ06L1T	M12×30	DL210	SJ10D1	M14×40
BRT08	SJ08A1	M12×30	DL212	SJ12A1	M14×40
BRT10	SJ10A1	M16×40			
			PW-06	SBW06	M10×16
BT204	SJ04N1T	M8×20	PW-08	SBW08	M12×20
BT205	SJ05N1T	M8×20	PW-10	SBW10	M16×25
BT206	SJ06L1T	M10×25	PW-12	SBW12	M16×25
BT208	SJ08A1	M12×30	PW-15	SBW15	M20×30
BT210	SJ10A1	M12×30			
BT212	SJ12N1	M16×40	AS04	SJ04B1	M8×22
			AS06	SJ06B1	M10×30
BBT06	SJ06L1T	M10×25	AS08	SJ08B1	M12×35
BBT08	SJ08A1	M12×30	AS10	SJ10A1	M12×35
BBT10	SJ10A1	M12×30			
BBT12	SJ12N1	M16×40	AT04	SJ04A1T	M8×22
			AT06	SJ06A1T	M10×30
BLT06	SJ06L1T	M10×25	AT08	SJ08A1	M12×35
BLT08	SJ08A1	M12×30	AT10	SJ10A1	M12×35
BLT10	SJ10A1	M12×30			
BLT12	SJ12N1	M16×40	NRC04	SJ04B1	M8×22
			NRC06	SJ06B1	M10×30
N-04	SJ04B1	M8×22	NRC08	SJ08B1	M12×35
N-05	SJ05B1	M8×22	NRC10	SJ10A1	M12×35
N-06	SJ06B1	M10×30			
N-08	SJ08B1	M12×35	QJR07	SJ06B1	M10×30
N-10	SJ10B1	M12×35	QJR08	SJ08B1	M12×35
N-12	SJ12A1	M14×45	QJR10	SJ10B1	M12×35
N-15	SJ15N1	M20×55	QJR12	SJ12N1	M16×45
N-18	SJ15N1	M20×55			
N-21	SJ18A2	M20×60			
N-24	SJ18A2	M20×60			

■ Interchangeable High jaws with standard jaws

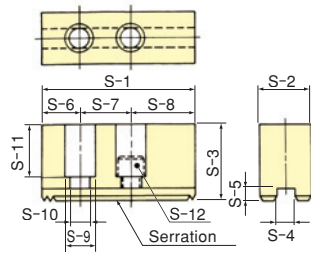
Standard jaw	High jaw
SJ04B1	SJ04A1-036 SJ04A1-048
★ SJ04A1T	SJ04A1T048
SJ04N1	SJ04N1-036 SJ04N1-048
SJ05B1	SJ05A1-038 SJ05A1-053
★ SJ05A1T	SJ05A1T053
SJ05N1	SJ05N1-038 SJ05N1-053
SJ06B1	SJ06A1-066
★ SJ06A1T	SJ06A1T066
SJ08B1	SJ08A1-056 SJ08A1-076
SJ08B1Q	SJ08B1Q-76
★ SJ08A1	SJ08A1T056 SJ08A1T076
SJ10B1(A1)	SJ10A1-056 SJ10A1-080 SJ10A1-116 SJ10A1T080★
SJ10A2Q	SJ10A2Q080
SJ12A1	SJ12A1-090 SJ12A1T090★
SJ12N1	SJ12N1-090
SJ15C1	SJ15C1-110
SJ15N1	SJ15N1-110
SJ18A2	SJ18A2-110
SB06BB	SB06BB-040
SB08BB	SB08BB-056
SB10BB	SB10BB-060
SB12BB	SB12BB-070

※Models with the ★ mark are 2 pieces / set.
Others are 3 pieces / set.

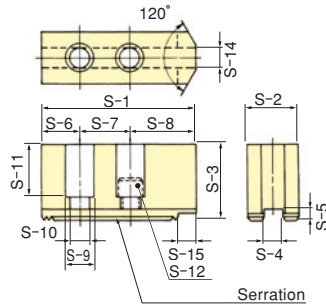
■ BR08 soft jaws for small diameter gripping

Soft jaw	Mounting bolt	Gripping range at gripping the outer diameter
SJ08S1	M12×30	φ12~210

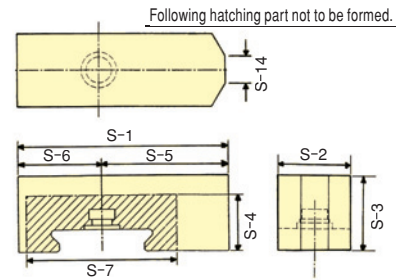
Ref. DWG. 1



Ref. DWG. 2



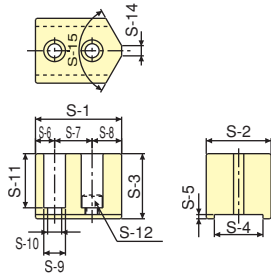
Ref. DWG. 3



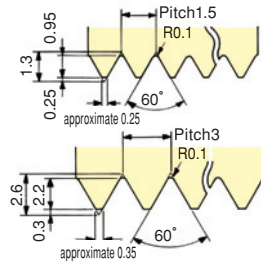
■ Dimensions

Soft Jaw TYPE	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-14	S-15	Serration pitch	Ref. DWG.
SJ04B1	55	23	25	10	4	13	14	28	13.5	8.5	16	M8	3	13	1.5×60°	2
SJ04A1-036	55	23	36	10	4	13	14	28	13.5	8.5	27	M8			1.5×60°	1
SJ04A1-048	55	23	48	10	4	13	14	28	13.5	8.5	39	M8			1.5×60°	1
SJ04A1T	55	23	25	10	4	13	14	28	13.5	8.5	16	M8			1.5×60°	1
SJ04A1T048	55	23	48	10	4	13	14	28	13.5	8.5	39	M8			1.5×60°	1
SJ04N1	49.5	23	23	10	4	10	14	25.5	13.5	8.5	14.5	M8	4		1.5×60°	2
SJ04N1T	49.5	23	23	10	4	10	14	25.5	13.5	8.5	14.5	M8			1.5×60°	1
SJ04N1-036	49.5	23	36	10	4	10	14	25.5	13.5	8.5	27.5	M8			1.5×60°	1
SJ04N1-048	49.5	23	48	10	4	10	14	25.5	13.5	8.5	39.5	M8			1.5×60°	1
SJ05B1	62	23	27	10	4	14	19	29	13.5	8.5	18	M8	12	14	1.5×60°	2
SJ05A1-038	62	23	38	10	4	14	19	29	13.5	8.5	29	M8			1.5×60°	1
SJ05A1-053	62	23	53	10	4	14	19	29	13.5	8.5	44	M8			1.5×60°	1
SJ05A1T	62	23	27	10	4	14	19	29	13.5	8.5	18	M8			1.5×60°	1
SJ05A1T053	62	23	53	10	4	14	19	29	13.5	8.5	44	M8			1.5×60°	1
SJ05N1	54	23	25	10	4	12	14	28	13.5	8.5	16.5	M8	5		1.5×60°	2
SJ05N1T	54	23	25	10	4	12	14	28	13.5	8.5	16.5	M8			1.5×60°	1
SJ05N1-038	54	23	38	10	4	12	14	28	13.5	8.5	29.5	M8			1.5×60°	1
SJ05N1-053	54	23	53	10	4	12	14	28	13.5	8.5	44.5	M8			1.5×60°	1
SJ06B1	72	31	32	12	5	15	20	37	17	11	20	M10	12	15	1.5×60°	2
SJ06A1-066	72	31	66	12	5	15	20	37	17	11	54	M10			1.5×60°	1
SJ06A1T	72	31	32	12	5	15	20	37	17	11	20	M10			1.5×60°	1
SJ06A1T066	72	31	66	12	5	15	20	37	17	11	54	M10			1.5×60°	1
SJ06C1	76.5	40	37	14	5	15	25	36.5	19	13	22	M12			1.5×60°	1
SJ06D1	72	31	32	12	5	22	20	30	17	11	20	M10	6	15	1.5×60°	2
SJ06L1A	66	26	28	12	5	12	20	34	17	11	16	M10	5	12	1.5×60°	2
SJ06L1T	66	26	28	12	5	12	20	34	17	11	16	M10			1.5×60°	1
SJ08A1	95	35	42	14	5	24	25	46	19	13	27	M12			1.5×60°	1
SJ08B1	95	35	38	14	5	24	25	46	19	13	23	M12	12	20	1.5×60°	2
SJ08S1	95	35	38	14	5	19.5	25	50.5	19	13	23	M12	9	20	1.5×60°	2
SJ08A1-056	95	35	56	14	5	24	25	46	19	13	41	M12			1.5×60°	1
SJ08A1-076	95	35	76	14	5	24	25	46	19	13	61	M12			1.5×60°	1
SJ08B1Q	90	31	38	12	5	24	20	46	17	11	26	M10	16	24	1.5×60°	2
SJ08B1Q-76	90	31	76	12	5	24	20	46	17	11	64	M10	16	24	1.5×60°	2
SJ08A1T056	95	35	56	14	5	24	25	46	19	13	41	M12			1.5×60°	1
SJ08A1T076	95	35	76	14	5	24	25	46	19	13	61	M12			1.5×60°	1
UB450	165	62	66	25.5	8	37	43	85	32	21	43	M20			3.0×60°	1
UB560K	180	65	69.2	25.5	8	39.5	60	80.5	32	21	45.3	M20			3.0×60°	1
UB710	209.5	75	80	30	9	40	60	109.5	39	26	55	M24			3.0×60°	1

Ref. DWG. 4



Ref. DWG. 1, 2 Serration



■ Dimensions

Soft Jaw TYPE	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	S-14	S-15	Serration pitch	Ref. DWG.
SJ10B1	110	40	42	16	5	30	30	50	19	13	27	M12	15	20	1.5×60°	2
SJ10A1	110	40	42	16	5	30	30	50	19	13	27	M12			1.5×60°	1
SJ10A1-056	110	40	56	16	5	30	30	50	19	13	41	M12			1.5×60°	1
SJ10A1-080	110	40	80	16	5	30	30	50	19	13	65	M12			1.5×60°	1
SJ10A1-116	110	40	116	16	5	30	30	50	19	13	101	M12			1.5×60°	1
SJ10A2Q	110	40	42	16	6	30	30	50	19	13	26	M12			3.0×60°	1
SJ10A2Q080	110	40	80	16	6	30	30	50	19	13	64	M12			3.0×60°	1
SJ10A1T080	110	40	80	16	5	30	30	50	19	13	65	M12			1.5×60°	1
SJ10D1	101.5	45	45	18	5	22.5	30	49	22	15	25	M14	15	17.5	1.5X60°	2
SJ12A1	129	50	50	18	5	39	30	60	22	15	30	M14			1.5×60°	1
SJ12A1-090	129	50	90	18	5	39	30	60	22	15	70	M14			1.5×60°	1
SJ12C1	129	50	50	18	5	32	38	59	22	15	35	M14			1.5×60°	1
SJ12A1T090	129	50	90	18	5	39	30	60	22	15	70	M14			1.5×60°	1
SJ12N1	111	50	50	21	4	21	30	60	25	17	33	M16			1.5×60°	1
SJ12N1-090	111	50	90	21	4	21	30	60	25	17	73	M16			1.5×60°	1
SJ15C1	165	62	66	22	8	37	43	85	32	21	42	M20			1.5×60°	1
SJ15C1-110	165	62	110	22	8	37	43	85	32	21	86	M20			1.5×60°	1
SJ15A2	156	62	70	22	9	36	60	60	32	21	45	M20			3.0×60°	1
SJ15A2Q	129	50	50	18	6	32	38	59	22	15	34	M14			3.0×60°	1
SJ15C1T	165	62	66	22	8	37	43	85	32	21	42	M20			1.5×60°	1
SJ15N1	135	50	60	25.5	5	26	43	66	32	21	39	M20			1.5×60°	1
SJ15N1-110	135	50	110	25.5	5	26	43	66	32	21	89	M20			1.5×60°	1
UVE500AR	210	65	100	25	9	40	60	110	32	21	75	M20			3.0×60°	1
SJ18A2	180	65	70	25	9	40	60	80	32	21	45	M20			3.0×60°	1
SJ18A2-110	180	65	110	25	9	40	60	80	32	21	85	M20			3.0×60°	1
SB06BB	90	32	30	24	54	36	68						5			3
SB06BB-040	90	32	40	24	54	36	68						5			3
SB08BB	106	37	38	28	64	42	76						14			3
SB08BB-056	106	37	56	28	64	42	76						14			3
SB10BB	125	42	42	31	76	49	88						26			3
SB10BB-060	125	42	60	31	76	49	88						26			3
SB12BB	139	42	50	34	90	49	92						30			3
SB12BB-070	139	42	70	34	90	49	92						30			3
PW-06	67.5	50.8	51	38.07	3.3	15	29.36	23.14	17	11	42.4	M10	8	120°		4
PW-08	74	57	57.47	44.45	3.3	15	34.14	24.86	20	13.5	47	M12	41	90°		4
PW-10	89.5	70.1	70.2	57.1	3.3	19	44.45	26.05	25	17	59	M16				4
PW-12	108.5	70.1	70.2	57.1	3.3	19	44.45	45.05	25	17	59	M16				4
PW-15	140	76.2	76.5	66.62	3.3	23.9	53.98	62.12	32	21	61.2	M20				4



CHUCK

Hard Jaws for Power Chuck

HB series

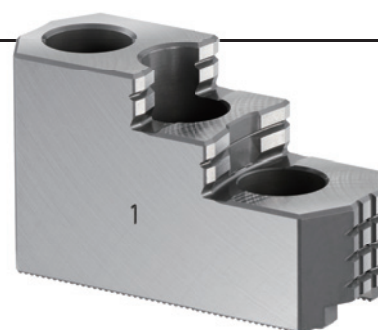
Description of Model

HB06B1

Serration pitch
1=1.5mm×60°、2=3mm×60°、3=1/16"×90°、4=3/32"×90°

Form and characteristic
A = 3-step jaw B = 2-step jaw
C = Bolt spacing classification
(In case spacing is different at same chuck dia.)
U = for UVE N = New type

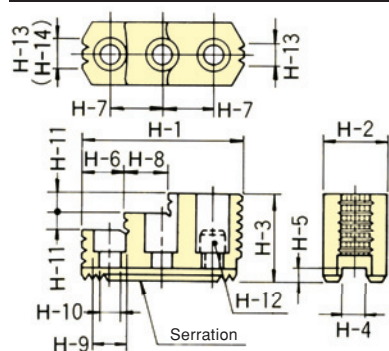
Chuck sizes
Power chuck hard jaw



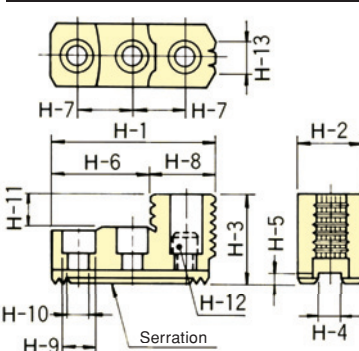
Combination of Hard Jaws

Hard Jaw TYPE	Adaptive closed centre chuck	Adaptive open centre chuck
HB04N1	N-04	B-204, B-205
HB05C1	N-05	
HB06A1	N-06, NL06	BR06, BB206, BS306, B-206, HOH-206, BL206
HB06B1	N-06, NL06	BR06, BB206, BS306, B-206, HOH-206, BL206
HB08A1	N-08, NL08	B-208, HOH-208, BL208
HB08B1		BR08, BB208, BS308
HB08N1		BR08, BB208
HB10A1	N-10, NL10	B-210, HOH-10K, BL210
HB10AA1		BR10, BB210, BS310
HB12B1	N-12, NL12	HOH-12K
HB12N1		BR12, BB212, B-212, BL212
HB15A1		HOH-15K, B-15, B-18
HB15N1	N-15, N-18, NV15, NV18	B-215
HB18B2	N-21, N-24, NV21, NV24, NV28, NV32, NV36, NV40	B-21, B-24
HB24B2		
HB06U1		UVE160K
HB08U1		UVE200K, UVE250K
HB12U1		UVE315K
HB16U2		UVE400K
HB18W2		UB450K

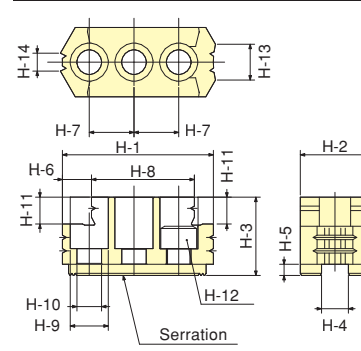
Ref. DWG. 1



Ref. DWG. 2



Ref. DWG. 3



Dimensions

Hard Jaw TYPE	H-1	H-2	H-3	H-4	H-5	H-6	H-7	H-8	H-9	H-10	H-11	H-12	H-13	H-14	Serration pitch	Ref. DWG.
HB04N1	53	23	27.5	10	4	30.5	14	22.5	13.5	8.5	10	M 8	6	—	1.5	2
HB05C1	61	23	30	10	4	7.5	19	53.5	13.5	8.5	12	M 8	6	—	1.5	2
HB06A1	66.6	31	36	12	5	40	20	26.6	17	11	12	M10	10	—	1.5	2
HB06B1	67.5	31	35	12	5	13	20	46	17	11	12	M10	16	10	1.5	3
HB08A1	86	35	51	14	5	31	25	18	19	13	12	M12	12	12	1.5	1
HB08B1	92	35	51	14	5	12	25	63	19	13	18	M12	11	11	1.5	3
HB08N1	88	35	51	14	5	36	25	14	19	13	12	M12	12	11	1.5	1
HB10A1	99.5	40	54	16	5	43	30	17	19	13	13	M12	15	15	1.5	1
HB10AA1	102.5	40	54	16	5	43	30	17	19	13	13	M12	15	15	1.5	1
HB12B1	97.5	50	55	18	5	64.5	30	33	22	15	20	M14	30	—	1.5	2
HB12N1	103	50	52	21	4	62.5	30	40.5	25	17	17	M16	30	—	1.5	2
HB15A1	149	62	86	22	8	63	43	34	32	21	20	M20	40	40	1.5	1
HB15N1	149	62	86	25.5	5	69	43	27	32	21	20	M20	43	38	1.5	1
HB18B2	159.5	80	90	25	9	104.5	50	55	32	21	40	M20	55	—	3.0	2
HB24B2	183.5	90	105	25	9	116.5	60	67	32	21	50	M20	76	—	3.0	2
HB06U1	69.5	35	48	14	5	34	19	18	19	13	12	M12	12	20	1.5	1
HB08U1	79.25	40	42	16	5	35.25	21	44	19	13	14	M12	12	—	1.5	2
HB12U1	107.25	45	50	18	5	56.75	30	50.5	22	15	20	M14	25	—	1.5	2
HB16U2	138.5	60	71	22	9	76.5	43	62	32	21	26	M20	35	—	3.0	2
HB18W2	155.5	60	85	25.5	9	79.5	43	24	32	21	20	M20	38	—	3.0	1

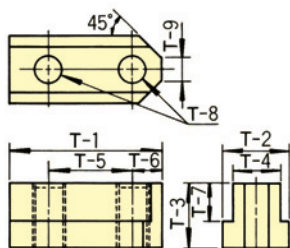
*The form of HB06A1 is 2-step jaw.



CHUCK

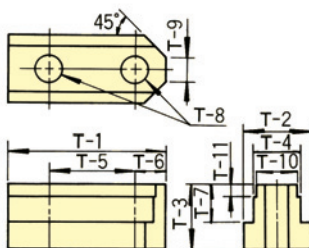
T-nut

Ref. DWG. 1

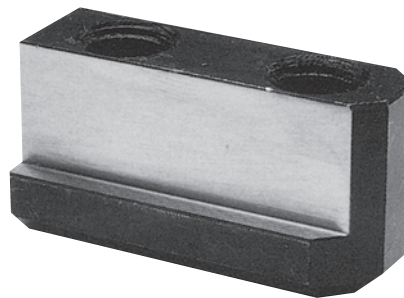


※T-8 is the size of soft jaw mounting bolt.

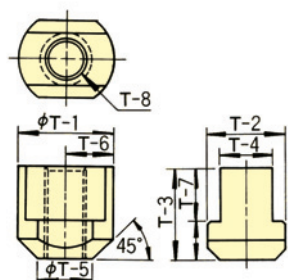
Ref. DWG. 2



※T-8 is the size of soft jaw mounting bolt.

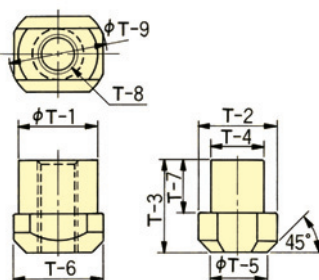


Ref. DWG. 3



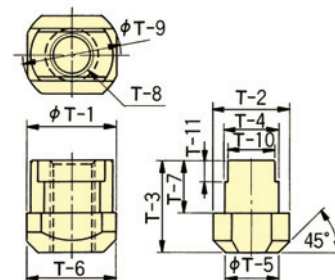
※T-8 is the size of soft jaw mounting bolt.

Ref. DWG. 4



※T-8 is the size of soft jaw mounting bolt.

Ref. DWG. 5



※T-8 is the size of soft jaw mounting bolt.

※Please inform us of the chuck type and T-Nut dimensions before ordering.

■ Dimensions and Combination

T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8	T-9	T-10	T-11	Adaptive chuck	Ref. DWG.
26	14.5	15	10	14	6	9.5	M8	5	—	—	B-204, BT204, B-205, BT205	1
26	14.5	18	10	14	6	12.5	M8	5	—	—	N-04, NT04, NL04, AS04, AT04, NRC04	1
32	14.5	18	10	19	6	12.5	M8	6	—	—	N-05, NT05	1
36.5	17	18.5	12	20	8.25	11	M10	8	—	—	HW-08	1
36.5	17	22.5	12	20	7.5	15	M10	8	—	—	N-06, NL06, NLT06, AS06, AT06, NRC06	1
46.5	20	20.5	14	25	10.5	12	M12	12	—	—	BT06	1
46.5	20	20.5	14	25	10.5	12	M12	12	—	—	BR08, B-208, BB208, BS308, BT208, HOH-208, BL208, BLT208	1
48	20	25.5	14	25	11	16	M12	8	—	—	N-08, NL08, NLT08, AS08, AT08, NRC08	1
51	22	21.5	16	30	11	13	M12	11	—	—	BT08, HOH-08K	1
55	22	25.5	16	30	11	16	M12	8	—	—	BR10, B-210, BB210, BS310, BT210, BL210, BLT210	1
55	22	25.5	16	30	11	16	M12	8	—	—	BT10, HOH-10K	1
56.25	29.5	22.75	21	30	12	11.25	M16	9.5	—	—	BR12, BB212	1
55.5	29.5	27.75	21	30	12	16.25	M16	13	—	—	B-212, BT212, BL212, BLT212	1
55.5	26.5	31	18	30	11.5	17.5	M14	12	—	—	HOH-12K	1
55.5	26.5	33.5	18	30	11.5	20	M14	12	—	—	BT12	1
62.5	26.5	33.5	18	38	12	20	M14	12	—	—	HW-15	1
90	37.5	45	25	50	20	26	M20	16	—	—	B-21·24, For hard jaw	1
100	37.5	45	25	60	20	26	M20	16	—	—	B-21·24, For soft jaw	1
80	33.5	40.5	24	43	17	24	M20	11	22	7.5	HOH-15K	2
80	33.5	45.5	24	43	17	29	M20	11	22	8.2	B-15, BT15, B-18	2
80	35	39.25	25.5	43	17	20.25	M20	14	—	—	B-215	1
42	35	39.25	25.5	25	—	20.25	M20	—	—	—	N-15, N-18, NV15, NV18	3
46	37.5	45	25	26.5	—	26	M20	—	—	—	N-21, N-24, NV21, NV24, NV28, NV32, NV36, NV40	3
19	22.5	23.5	14	19.5	19	15	M12	24.5	—	—	UVE160	4
19	22.5	24	16	19.5	19	15.5	M12	24.5	—	—	UVE200, UVE250	4
24	28.5	27.5	18	24	24	17	M14	32	—	—	UVE315	4
32	36	30.5	24	30	32	20	M20	40	22	8.5	UVE400	5
46	19.8	10.7	12.65	29.36	8.5	6	M10	—	—	—	PW-06	1
53.2	21.6	12.9	14.24	34.14	9.5	7.4	M12	—	—	—	PW-08	1
68.45	27.4	17	19	44.45	12	10	M16	—	—	—	PW-10, PW-12	1
32	36	29.5	25.5	32	32	19	M20	42	—	—	UB450K, UB560K	4
—	44	44	30	32	36	26	M24	52	—	—	UB630K, UB710K	4

■ Tnut-Plus Dimensions and Combination

Model	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8	T-9	Adaptive chuck	Ref. DWG.
TN06PLUS	36.5	17.5	19	12	20	8.25	11.5	M10	9	BR06	1
TN08PLUS	46.5	20.5	21	14	25	10.5	12.5	M12	12	BR08	1
TN10PLUS	52	22.5	22	16	30	11	13.5	M12	11	BR10	1
TN12PLUS	56.25	29.5	23.5	21	30	12	12	M16	14	BR12	1



Tnut-Plus



CHUCK

Hard Jaws for Scroll Chuck

HBS series

Description of Model

HBS06C

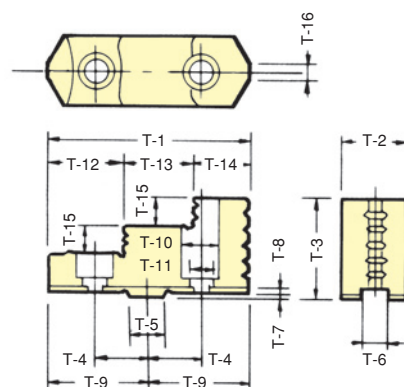
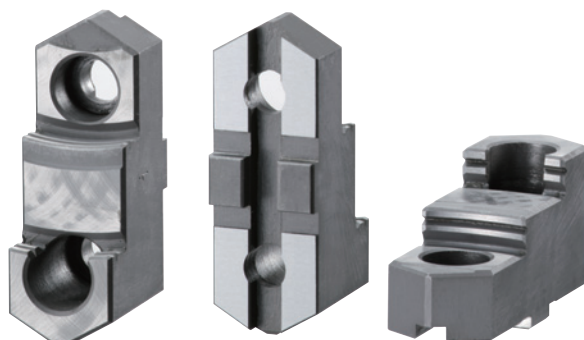
- Chuck type
C=JN
- Chuck sizes
- Hard jaw of scroll chuck



Combination Table for Hard Jaws

Hard jaw type	Adaptive chuck model
HBS06C	JN06T, JN06RA5
HBS07C	JN07T, JN07RA5, JN08RA6
HBS09C	JN09T, JN09RA6
HBS10C	JN10T, JN10RA6 (8)
HBS12C	JN12T, JN12RA6 (8)

Dimensional Drawings



Dimensions

TYPE	Chuck size	T-1	T-2	T-3	T-4	T-5	T-6	T-7	T-8	T-9	T-10	T-11	T-12	T-13	T-14	T-15	T-16	Mounting bolt
HBS06C	6	68	26	37	19.05 ^{+0.1} ₀	12.68 ^{+0.008} _{-0.003}	7.94 ^{+0.05} ₀	3	3.5	34	14	8.5	26	21.5	20.5	8.5	2	M 8 × 20
HBS07C	7	80	28	40	22.225 ^{+0.1} ₀	12.68 ^{+0.008} _{-0.003}	7.94 ^{+0.05} ₀	3	3.5	40	17	11	30.5	26	23.5	9.5	2	M10 × 20
HBS09C	9	90	32	48	26.99 ^{+0.1} ₀	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	45	19	13	34	30	26	12	3	M12 × 25
HBS10C	10	100	35	52	26.99 ^{+0.1} ₀	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	50	19	13	38	32	30	14	3	M12 × 25
HBS12C	12	115	40	54	31.75 ^{+0.1} ₀	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	57.5	19	13	46	35	34	15	4	M12 × 25



CHUCK

Soft Jaws for Scroll Chuck

SBS series

Description of Model

SBS06

Chuck sizes

Soft jaw of scroll chuck



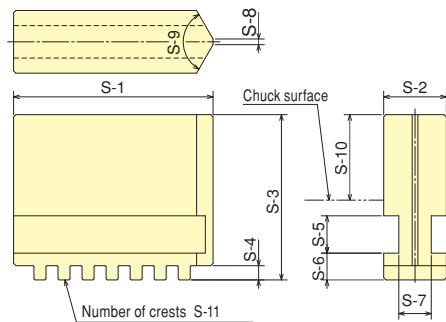
Combination Table for Soft Jaws

Soft jaw type	Adaptive chuck model
SBS03	SC-3F
SBS04	SC-4F
SBS05	SC-5F
SBS06	JN06T, JN06RA5
SBS07	JN07T, JN07RA5, JN08RA6, JT07
SBS09	JN09T, JN09RA6, JT09
SBS10	JN10T, JN10RA6(8)
SBS12	JN12T, JN12RA6(8)

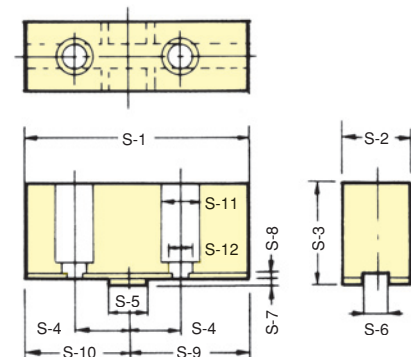


Dimensional Drawings

SBS03, SBS04, SBS05



SBS06, SBS07, SBS09, SBS10, SBS12



Dimensions

TYPE	Chuck size	S-1	S-2	S-3	S-4	S-5	S-6	S-7	S-8	S-9	S-10	S-11	S-12	Mounting bolt
SBS03	3	35	11	29	2.5	6.55	4.7	5.7	1	120°	15	7		
SBS04	4	42	14	34.5	3.5	6.55	6.2	7.2	1.5	120°	18	7		
SBS05	5	50	16	40	4	8.2	7.7	7.2	1.5	120°	20	7		
SBS06	6	75	26	38	19.05 ^{+0.1}	12.68 ^{+0.008} _{-0.003}	7.94 ^{+0.05} ₀	3	3.5	41	34	14	8.5	M 8 × 20
SBS07	7	88	28	41	22.225 ^{+0.1}	12.68 ^{+0.008} _{-0.003}	7.94 ^{+0.05} ₀	3	3.5	48	40	17	11	M10 × 20
SBS09	9	100	32	48	26.99 ^{+0.1}	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	55	45	19	13	M12 × 25
SBS10	10	110	35	52	26.99 ^{+0.1}	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	60	50	19	13	M12 × 25
SBS12	12	125	40	54	31.75 ^{+0.1}	19.03 ^{+0.009} _{-0.004}	12.7 ^{+0.05} ₀	3	3.5	67.5	57.5	19	13	M12 × 25



CHUCK

Back Plate

■ Back Plate Acceptable table

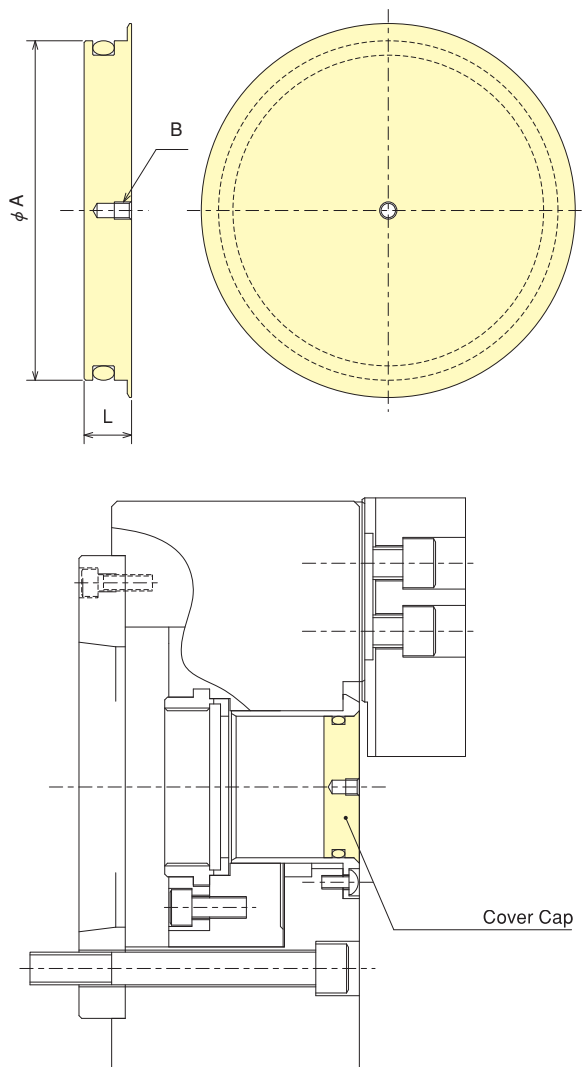
Model	Chuck Size	Spindle Nose				
		A2-5	A2-6	A2-8	A2-11	A2-15 (Former JIS)
BR	6	CBB-06A05	CB-06A06	—	—	—
	8	CBB-08A05	61P363755	CB-08A08	—	—
	10	—	CB-10A06	CB-10A08	—	—
	12	—	61P393994	CB-15A08	61Q349363	—
B-200 QB300	6	CB-06A05	CB-06A06	—	—	—
	8	CB-08A05	CB-08A06	CB-08A08	—	—
	10	—	CB-10A06	CB-10A08	CB-10A11	—
	12	—	—	CB-10A08	CB-10A11	—
	15	—	61P393994	CB-15A08	CB-15A11	CB-15A15
B	15	—	61P393994	CB-15A08	CB-15A11	CB-15A15
	18	—	—	CB-18A08	CB-18A11	CN-21A15
	21	—	—	—	CB-21A11	CB-21A15
	24	—	—	—	CB-21A11	CB-21A15
BB200	6	CBB-06A05	CBB-06A06	—	—	—
	8	CBB-08A05	61P363755	CBB-08A08	—	—
	10	—	CB-10A06	CB-10A08	—	—
	12	—	61P393994	CB-15A08	61Q349363	—
BS300	6	61P363754	—	—	—	—
	8	61P371952	61P363755	—	—	—
	10	—	61P363757	61P363756	—	—
BL200	6	CB-06A05	CB-06A06	—	—	—
	8	—	CB-08A06	CB-08A08	—	—
	10	—	CB-10A06	CB-10A08	CB-10A11	—
	12	—	CB-10A06	CB-10A08	CB-10A11	—
QJR	7	CB-06A05	CB-06A06	—	—	—
	8	CB-08A05	CB-08A06	CB-08A08	—	—
	10	—	CB-10A06	CB-10A08	CB-10A11	—
	12	—	—	CB-10A08	CB-10A11	—
BT200	6	CBT06A05	CBT06A06	—	—	—
	8	CBT08A05	CBT08A06	CBT08A08	—	—
	10	—	CBT10A06	CBT10A08	CBT10A11	—
	12	—	CBT10A06	CBT10A08	CBT10A11	—
BLT200	6	CBT06A05	CBT06A06	—	—	—
	8	—	CBT08A06	CBT08A08	—	—
	10	—	CBT10A06	CBT10A08	CBT10A11	—
	12	—	—	CBT10A08	CBT10A11	—
BBT200	6	CBBT06A05	—	—	—	—
	8	CBBT08A05	CBBT08A06	—	—	—
	10	—	CBT10A06	CBT10A08	—	—
	12	—	—	CBT15A08	—	—
N	6	CB-06A05	CB-06A06	—	—	—
	8	CB-08A05	CB-08A06	61Q327856	—	—
	10	—	CN-10A06	CB-10A08	CB-10A11	—
	12	—	CN-10A06	CB-10A08	CB-10A11	—
	15	—	—	CN-15A08	CB-15A11	—
	18	—	—	CN-15A08	CB-15A11	—
	21	—	—	CN-21A08	CN-21A11	CB-21A15
	24	—	—	—	CN-21A11	CB-21A15
NL	6	CB-06A05	CB-06A06	—	—	—
	8	—	CB-08A06	CB-08A08	—	—
	10	—	CN-10A06	CB-10A08	—	—
	12	—	CN-10A06	CB-10A08	CB-10A11	—
	18	—	—	CN-15A08	CB-15A11	—
ML	6	CB-06A05	CB-06A06	—	—	—
	8	CB-08A05	CB-08A06	CB-08A08	—	—
NT	15	—	—	CBT15A08	CBT15A11	—
NLT	6	CBT06A05	CBT06A06	—	—	—
	8	—	CBT08A06	CBT08A08	—	—
	10	—	CNT10A06	CBT10A08	CBT10A11	—
	12	—	CNT10A06	CBT10A08	CBT10A11	—
MLT	6	CBT06A05	CBT06A06	—	—	—
MLV	8	CBT08A05	CBT08A06	CBT08A08	—	—
HW	8	61P342469	61Q341375	61Q382381	—	—
	10	—	61Q330007	61P344050	—	—
	12	—	61Q330007	61P344050	—	—
	15	—	—	61Q379169	61Q308602	—



CHUCK

Cover Cap

■ Dimensional Drawings



■ Dimensions

Chuck Model	Dimension			O-ring
	A	L	B	
BR06	53	13	M6	P46
BR08	66	15	M6	P56
BR10	81	15	M6	P71
BR12	106	15	M6	P95
B-15	117.5	16.5	—	P105
B-18	117.5	15	M6	P105
B-21	140	15	M6	P130
B-24	165	15	M6	G155
B-204	26	9	M5	P22
B-205	33	12	M5	P26
B-206	45	13	M6	P38
B-206	46	13	M6	P40
B-208	52	13	M6	P46
B-208	53	13	M6	P46
B-210	75	15	M6	P65
B-210	77	15	M6	P67
B-210	78	15	M6	P67
B-212	91	15	M6	P80
B-215	100	17	M6	P90
BB206	53	13	M6	P46
BB208	66	15	M6	P56
BB210	81	15	M6	P71
BB212	106	15	M6	P95
BL206	28	12	M5	P22A
BL208	45	13	M6	P38
BL210	53	13	M6	P46
BL212	63	15	M6	P53
BS306	45	13	M6	P38
BS308	52	13	M6	P46
BS310	75	15	M6	P65

The size may vary as per Chuck models. Check "A" dimension when the order is placed.



CHUCK

Chuck Grease

Chuck Grease Pro

**Chuck Gripping Force 1.5 times
(Compared to Standard Grease)**

**Service Life 3 times
(Compared to Standard Grease)**

- Conforms to international standards for health, safety and the environment
- Loss of grip over time is reduced
Refer to graph below for B206 chuck.
- White grease is cleaner and reduces contamination
- Various sizes available; 18kg can, 1kg can, 400g bellows and 400g cartridge

Chuck Grease Pro has been specially developed by Kitagawa by utilising long term experience in many applications.
The use of Chuck Grease Pro will extend life, increase gripping force and improve safety.



Fig.1 Gripping force check by grease

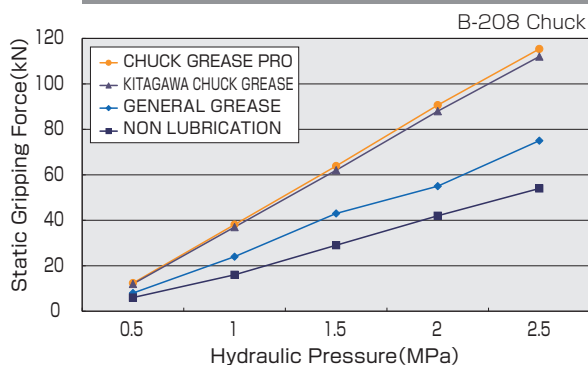
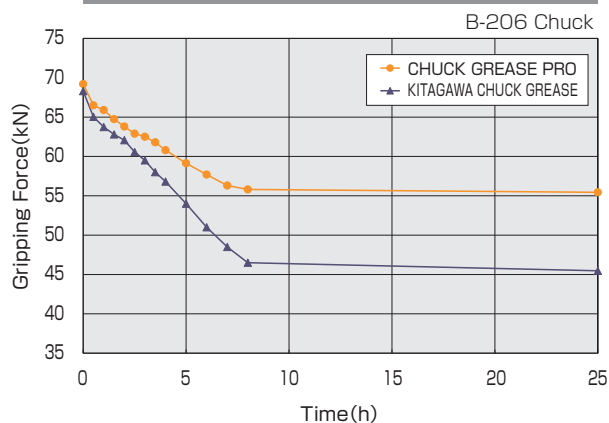


Fig.2 Grease Check Test



※The graphs show the grease performance, not the condition of using Chuck.
Please refer to Chuck specification table for the condition of Chuck.

■ Using method

Grease the chuck with a commercial grease gun according to the instruction manual of the chuck as well as general grease.

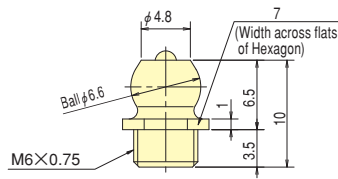
■ Features

Color	Lemon yellow ~ yellow paste form	
Density g/cm ³	1.12	
Temperature range °F (°C)	18~300 (-28~149)	
Friction factor	0.06~0.1 (by LFW-1 Rotary Reciprocating Test Machine)	
NLGI Consistency	#2	
JIS K-2220 PS consistency	Mixing 60 times	265-295

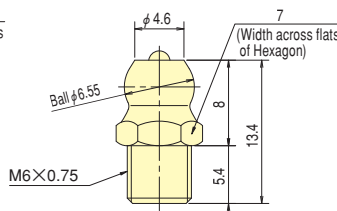


CHUCK

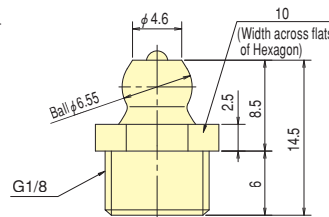
Chuck Grease Grease Nipple



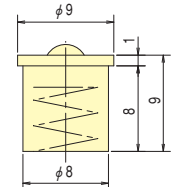
61S403879



A M6 Fine screw thread
(M6x0.75)



WA-100



Ball cup 8.0

Grease nipple details

Model	Counterbore dia.	Grease nipple type (DWG No.)	Model	Counterbore dia.	Grease nipple type (DWG No.)
BR06	φ15	61S403879	HW-08	φ24	A M6 Fine screw thread
BR08	φ15	A M6 Fine screw thread	HW-10	φ14	A M6 Fine screw thread
BR10	φ15	A M6 Fine screw thread	HW-12	φ14	A M6 Fine screw thread
BR12	φ15	A M6 Fine screw thread	HW-15	φ17	A M6 Fine screw thread
B-204	φ12	61S403879	UVE160K	φ12	A M6 Fine screw thread
B-205	φ12	61S403879	UVE200K	φ12	A M6 Fine screw thread
B-206	φ15	A M6 Fine screw thread	UVE250K	φ12	A M6 Fine screw thread
B-208	φ15	A M6 Fine screw thread	UVE315K	φ12	A M6 Fine screw thread
B-210	φ15	A M6 Fine screw thread	UVE400K	φ12	A M6 Fine screw thread
B-212	φ15	A M6 Fine screw thread	UB series	φ15	WA-100
B-215	φ15	A M6 Fine screw thread	UBR series	φ15	WA-100
B series	φ15	A M6 Fine screw thread	DL206	φ15	61S403879
BB200 series	φ15	61S403879	DL208	φ15	A M6 Fine screw thread
BS306	φ15	61S403879	DL210	φ15	A M6 Fine screw thread
BS308	φ15	A M6 Fine screw thread	DL212	φ15	A M6 Fine screw thread
BS310	φ15	A M6 Fine screw thread	PW series	φ15	A M6 Fine screw thread
BL200 series	φ15	A M6 Fine screw thread	PWT series	φ15	A M6 Fine screw thread
HOH-206	φ15 (Body) φ15 (Lever)	61S403879	PUB series	φ15	A M6 Fine screw thread
HOH-208	φ15 (Body) φ17 (Lever)	61S403879, A M6	PU203	φ12	A M6 Fine screw thread
HOH-10K	φ15 (Body) φ17 (Lever)	A M6 Fine screw thread	PU204	φ15	A M6 Fine screw thread
HOH-12K	φ20 (Body) φ19 (Lever)	A M6 Fine screw thread	PU205	φ15	A M6 Fine screw thread
HOH-15K	φ15 (Body) φ21 (Lever)	A M6 Fine screw thread	PU206	φ15	A M6 Fine screw thread
QB306	φ15	61S403879	PU208	φ15	A M6 Fine screw thread
QB308	φ15	A M6 Fine screw thread	PU210	φ15	A M6 Fine screw thread
QB310	φ15	A M6 Fine screw thread	PU212	φ15	A M6 Fine screw thread
QB312	φ15	A M6 Fine screw thread	PUE series	φ15	A M6 Fine screw thread
BT204	φ12	61S403879	LU series	φ15	A M6 Fine screw thread
B T 205	φ12	61S403879	FGT05/FG05	φ12	A M6 Fine screw thread
B T 206	φ15	A M6 Fine screw thread	FGT06/FG06	φ15 (Body) φ12 (Finger bushing)	A M6 Fine screw thread
B T 208	φ15	A M6 Fine screw thread	FGT08/FG08	φ15	A M6 Fine screw thread
B T 210	φ15	A M6 Fine screw thread	FGT10/FG10	φ15	A M6 Fine screw thread
B T 212	φ15	A M6 Fine screw thread	FGT12/FG12	φ15	A M6 Fine screw thread
B L T 206	φ15	A M6 Fine screw thread	FG-V series	φ15 (Plunger)	A M6 Fine screw thread
B L T 208	φ15	A M6 Fine screw thread	FG-L series	φ15 (Plunger)	61S403879
B L T 210	φ15	A M6 Fine screw thread	FG52M	φ15 (Plunger)	61S403879
B L T 212	φ15	A M6 Fine screw thread	FG-Q series	φ14 (Plunger)	A M6 Fine screw thread
N-04	φ15	A M6 Fine screw thread	JN06	φ15	61S403879
N-05	φ15	A M6 Fine screw thread	JN07	φ15	61S403879
N-06	φ15	A M6 Fine screw thread	JN09	φ15	61S403879
N-08	φ15	A M6 Fine screw thread	JN10	φ15	61S403879
N-10	φ15	A M6 Fine screw thread	JN12	φ15	61S403879
N-12	φ15	A M6 Fine screw thread	JN-T series	φ15	61S403879
N-15	φ15	A M6 Fine screw thread	JN-RA series	φ15	61S403879
N-18	φ15	A M6 Fine screw thread	JT series	φ15	61S403879
N-21	φ15	WA-100	JS series	φ15	61S403879
N-24	φ15	WA-100	AS04	φ15	61S403879
NLO4	φ15	A M6 Fine screw thread	AS06	φ15	A M6 Fine screw thread
NLO6	φ15	A M6 Fine screw thread	AS08	φ15	A M6 Fine screw thread
NLO8	φ15	A M6 Fine screw thread	AS10	φ15	A M6 Fine screw thread
NL10	φ15	A M6 Fine screw thread	AT04	φ15	61S403879
NL12	φ15	A M6 Fine screw thread	AT06	φ15	A M6 Fine screw thread
NL18	φ15	A O1	AT08	φ15	A M6 Fine screw thread
ML series	φ15	A M6 Fine screw thread	AT10	φ15	A M6 Fine screw thread
NT series	φ15	A M6 Fine screw thread	PLS series	φ15	A M6 Fine screw thread
NLT series	φ15	A M6 Fine screw thread	JM200-111	φ15	A M6 Fine screw thread
MLT series	φ15	A M6 Fine screw thread			
MLV series	φ15	A M6 Fine screw thread			

*Lubrication oil is applied to KPC series and SC series instead of Chuck Grease.



CHUCK

Jaw Force Tester JFT-S100A

Gripping force can be checked at a glance!

Compact design with excellent workability
Chuck gripping force is quantified,
thus improving quality control and safety!

- **Compact and integral**

Integrated detector and display. Easy to handle with a low weight of only 1.3kg!

- **Zero adjustment not required**

Enables quick measurement with the automatic zero adjustment function!

- **Measured value memory function**

Stores three required measured values, and enables later checking.

- **Power-saving function**

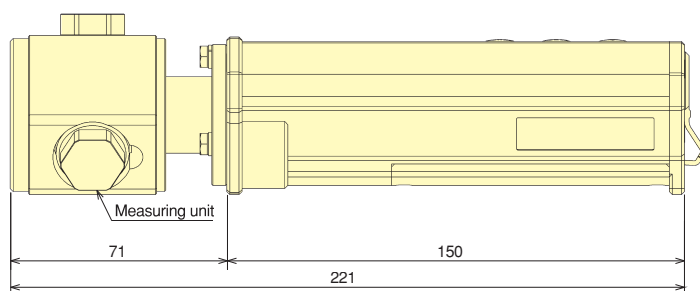
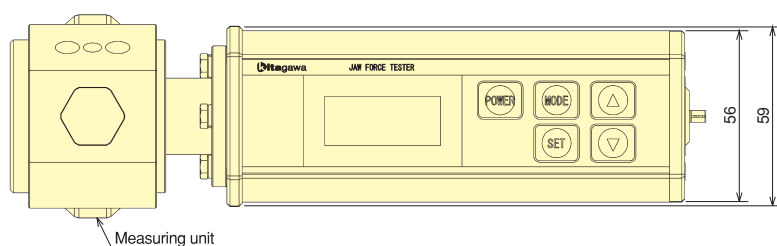
Saves power with the automatic power-off function.

- **Alarm message display**

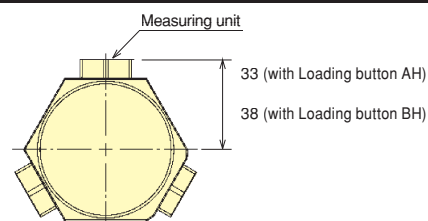
Battery voltage drop, excessive input, out-of-range zero adjustment, etc.



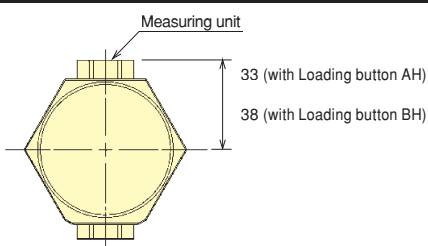
Dimensional Drawings



When the number of gripping points is 3.



When the number of gripping points is 2.



Specifications

Loading Cell	
Constant Capacity(per jaw)	100 kN
Allowable load	150 %
Gripped points	Two or three positions
Accuracy	±2 % R.O.
Measurable diameter	φ62~φ65mm (with Loading button AH) φ62~φ75mm (with Loading button BH)
Display	
Measuring range	0.5~100 kN
Display unit	0.1 kN
Operation Switch	Sheet Switch Panel
Display unit	LCD Character display (8×2 line with Back light)

Others	
Power source	Lithium Battery(CR123A) ×2sets
external power source	Source voltage DC5V±5%
Operation Temperature	0~50℃
Operation Humidity	80%RH or less
Weight	1.3 kg
Accessory	Loading button A(H 7mm) ×3pieces Loading button B(H 12mm) ×3pieces Battery for operation check(CR123A ×2pieces)

The calibration certificate is option.



CHUCK

Compatibilities of Lathes to Short Taper Chucks

Model		First Spindle Nose (JIS)	Second Spindle Nose (JIS)
IKEGAI	AN	20N	A2-6
		25N	A2-8
	AX	30N	A2-8
	EC18	40B	A2-15
	ED18		A1-5
	FT		A1-5
		20	A2-6
	FX	20U,25U,20J,25J,600	A2-8
		10N	A2-5
		15N,MINI	Straight, plate
		20N	A1-6
		20II	A2-6
		25W,25II	A2-8
	LX20N		A1-6
	TC	8,10	Straight, plate
		15	A2-6
		25	A2-8
	TCR	15	A2-6
OKUMA		25,25Y	A2-8
	TU	15	A2-6
	TUR	15	A2-6
	TM25YS	Sub	A2-6
		Maine	A2-8
	LB	2000EX	φ140Flat (A2-6)
		2500EX	A2-6
		3000EX	A2-6(A2-8,A2-11)
		4000EX	A2-8(A2-11)
		2000EX II	φ140Flat (A2-6)
		2500EX II	A2-6
		3000EX II	A2-6(A2-8,A2-11)
		4000EX II	A2-8(A2-11)
		35II	A2-8(A2-11,A2-15)
		45II	A2-11(A2-20)
		35III	A2-8(A2-11,A2-15)
		45III	A2-11(A2-20)
	GENOS	L250II	A2-6
		L400II	A2-8
		L2000	A2-6
		L3000	A2-8
	LU	300	φ140Flat(A2-6,A2-8)
		400	A2-8(A2-11)
		3000EX	A2-6
		4000EX	A2-8
		35	A2-8(A2-11,A2-15)
		45	A2-11(A2-20)
		35II	A2-8(A2-11,A2-15)
		45II	A2-11(A2-20)
	LCS	250	A2-6(A2-8)
		25	A2-8
	2SP	150H	φ140Flat
		250H	A2-6
		10HG	φ140Flat
		25HG	A2-6
		35HG,V40	A2-8
		V60,V80	A2-11
		2500H	A2-6
	LFS	10-2SP	φ140Flat
		10M-2SP	φ140Flat
	3SP	25HG	A2-6
	LVT	300	A2-6
		400	A2-8
	LAW	F II, 2S	A2-8
		V24	A2-11
	MAC TURN	250	A2-6(A2-8)
		350	A2-6(A2-8)
		550	A2-8(A2-11)
	MULTUS	B200	φ140Flat
		B200(W)	φ140Flat
		B300	A2-6(A2-8)
		B300(W)	A2-6(A2-8)
		B400	A2-8(A2-11)
		B400(W)	A2-8(A2-11)
		B550	A2-11
		B750	A2-11(A2-15,A2-20)
		B200II	φ140Flat(A2-6)
		B250II	A2-6(A2-8)
		B300II	A2-6(A2-8)
		B400II	A2-8(A2-11)
		U3000	A2-6
		U4000	A2-8

*SHIMADA MACHINERY includes former manufacturer : KITAKO

Model		First Spindle Nose (JIS)	Second Spindle Nose (JIS)
OKUMA	U5000	A2-11	—
	LT	200-M	φ140Flat(A2-6)
		300-M	A2-6(A2-8)
		2000EX	φ140Flat(A2-6)
		3000EX	A2-6(A2-8)
	LOC	650	A2-15(A2-20, φ725Flat)
	LH(*)	55-N	A2-11(A2-15,A2-20)
	HJ	18	φ140Flat
		28,250	A2-6
	HL	20	A2-6
		35(L)	A2-8
	SV	250	φ140Flat
	V	40R	A2-8
		60R,80R	A2-11
		100R	φ380Flat
		760EX	A2-11
		920EX	A2-11
	VTM	70	A2-11
KITAKO		65,100,80YB,120YB	A2-11
	*Mounting bolts of LH are unifying specifications.		
	Numerical values in () are large diameter as option.		
	ACE		A2-6
	mini ACE		A2-5
	MT4	75,80,80-200,85	φ60Flat
		120,120G,125	A2-5
		170,200,250S	A2-6
	MT3	120	A2-5
		200	A2-6
	TG1	52	A2-6
	TM1	52	A2-6
	V	5II,Turn	A2-6
	VT1	200	A2-6
		400,500	A2-8
	VT2	500	A2-8
	VT4	200	A2-6
		450,550	A2-8
DANICH KINZOKU KOGYO	HS	4200	A2-6
	VT4	350	A2-8
	B70		A2-11
	DGL	6,8,10	A1-6
	DHK,DHM,N105,SH		A1-11
	DLG	SH	A1-6
		SHB	A1-11
	DM		A1-11
		III	A2-11
	F	15	A2-5
		20	A2-6
		25	A1-6
		30,35	A2-8
	M95		A1-11
	M	112,132,152	A2-15
	TAL	460,510	A1-6
		600	A1-8
	TC	100	Flatφ140
TAKIZAWA		200	A2-6 or Flatφ140
		350	A2-8
		40	A2-11
	TK	2	A2-6
	TAC	360	A1-5
		510,650	A2-8
		780	A2-11
		950	A2-11
	TSL	550,800	A1-5 *Inquiry required
	TT	160	Flatφ140
		200	A2-6
	TMM	250	A2-8
		200	A2-6
	TNR	200	A2-6
	TCC	1100	Flatφ140
		2100	A2-6
	TCN	2100	A2-6
		2600	A2-8
		3500	A2-8/A2-11
	TG	6000	A2-11/A2-15/A2-20
	TT	500	Flatφ80
		1100	Flatφ140
		2100	Flatφ140
		2600	A2-6
		350	A2-8

Model			First Spindle Nose (JIS)	Second Spindle Nose (JIS)
TAKIZAWA	TK	2100	A2-6	
		2600	A2-8	
	TF	2600	A2-6	
	TCY	160	Flat ϕ 140	Flat ϕ 140
		200	A2-6	Flat ϕ 140
	TS	2000	A2-5	A2-5
		3000	A2-6	Flat ϕ 140
		4000	A2-8	Flat ϕ 140
		5000	A2-8/A2-11	A2-6/Flat ϕ 140
CHUBI KOKI	TMX	2000	A2-6	A2-6
		4000	A2-6/A2-8/A2-11	A2-6/A2-8
	TM	4000	A2-8	A2-6
	TMM	250	A2-8	A2-6
	LLA	800,1000,1500,2000,2500,3000	A2-8	—
		CLL	1000,1500,2000,2500,3000	A2-11
TSUGAMI	PAN	1,2	Straight, plate	—
	NCM	45/160,70/160	Straight, plate	—
	NL	1	A1-6	—
		1H	A1-5	—
NAKAMURA	TMC	12	A2-5	—
		18	A2-6	—
	TMY	25	A2-6	—
	SC	100	A2-5	A2-5(OPT)
		150II	A2-5	—
		200	A2-6	A2-5(OPT)
		250	A2-6	A2-5(OPT)
		300II/IIIL	A2-8	A2-5(OPT)
		450	A2-8	—
	TW	8	Flat ϕ 108	Flat ϕ 108
		10	A2-5	A2-5
		20	A2-6	A2-6
		30	A1-8	A1-8
	WT	100	A2-5	A2-5
		150	A2-5	A2-5
		250A	A2-6	A2-5
		250B	A2-5	A2-5
		250C	A2-5	A2-5
		300	A2-6	A2-6
	JX	250	A2-6 (OPT A2-8)	A2-6
	MX	100	A2-5 (OPT A2-6)	A2-5
	STW/STS	40	A1-8	A1-8
	WTW/WTs	150 Big bore	A2-6 ϕ 65	A2-5 ϕ 51
		150 Big bore	A2-5 ϕ 51	A2-5 ϕ 42
		150A	A2-5 ϕ 42	A2-5 ϕ 42
		150B	A2-5 ϕ 32	A2-5 ϕ 32
	NTX-W	ϕ 61	A2-6	A2-6
	NTX-S	ϕ 71	A1-8	A1-8
	NTJ	100	A2-5 (OPT A2-6)	A2-5 (OPT A2-6)
	NTM3	ϕ 51	A2-5	A2-5
	NTY3	100	A2-5 (OPT A2-6)	A2-5 (OPT A2-6)
	NTJX	ϕ 51	A2-5	A2-5
		ϕ 65	A2-6	A2-5
	NTRX	300/300II	A2-6 (OPT A2-8)	A2-6 (OPT A2-8)
	SUPER TURN	2AM	A2-5	—
		2BM	A1-8	—
		3	A1-6	—
		4	A1-8	—
		5	A1-8	—
		6	A1-11	—
CITIZEN MACHINERY	ABX	51SY,51TH2	A2-6	A2-6
		64SY,64TH2	A2-8	A2-6
	BNC	34C5,42C5	Straight, plate	—
	BND	34C5,42C5	Straight, plate	—
		34S5,42S5	Straight, plate	—
		51C2	A2-6(Enlarged A2-8)	—
		51S2,51SY2	A2-6(Enlarged A2-8)	Straight, plate
	BNE	34S5,34SY5	Straight, plate	Straight, plate
		51S,51SY5	A2-6	Straight, plate
	BNJ	34S,34SY	Straight, plate	Straight, plate
		42S,42SY	Straight, plate	Straight, plate
		51S,51SY2	A2-6(Enlarged A2-8)	Straight, plate
	BX	20S,26S	Straight, plate	Straight, plate
	LX	06E2	Straight, plate	—
		08C,08R	Straight, plate	—
		08E2	A2-6	—
	LZ	01R2,01RY2	Straight, plate	—
		02R2,02RY2	A2-6	—
	GN	3200,3000,4	Straight, plate	—
		3000W,3100W	Straight, plate	Straight, plate
	BM250		Straight, plate	Straight, plate
MURATA	MW	40	Flat nose	Flat nose
		50	Flat nose	Flat nose
		80	Flat nose	Flat nose
		100G(HG),120G(HG)	A2-5	A2-5
		180	A2-6	A2-6
		200G	A2-6	A2-6
		200GS(High power)	A2-8	A2-8
		300G	A2-8	A2-8

Model			First Spindle Nose (JIS)	Second Spindle Nose (JIS)
MURATA	MS	400G	A2-11	A2-11
		20	Flat nose	—
		50G,60G	A2-5	—
		90	A2-6	—
	MZ	100G	A2-6	—
		60G	Flat	—
	MD	60G	A2-5	—
		100G	A2-6	—
		120G	A2-5	A2-5
		180	A2-6	A2-6
	MJ	200G	A2-6	A2-6
		60	A2-5	—
		100	A2-6	—
	MT	200	Flat nose	—
		12	A2-5	A2-5
		20,25	A2-6	A2-6
		100	ϕ 90A2-5/ ϕ 110A2-6	ϕ 90A2-5/ ϕ 110A2-6
	ML	200	ϕ 100,110,120A2-6/ ϕ 130A2-8	ϕ 100,110,120A2-6/ ϕ 130A2-8
		400	A2-6	—
	MV	120(M)	A2-5	—
	WSC	6	Flat, plate	—
		12	A2-5	—
	1SC	10M5000	A2-6	—
		12M5020	A2-8	—
	MSC	22	A2-8	—
	2SC	15M5060,18M5090	A1-11	—
	3SC	24(M5240),28	A1-15	—
DMG MORI SEIKI	ALX	1500	A2-5	—
		2000	A2-6	—
		2500	A2-8	—
	CL	1500	A2-5	—
		2000A,2000B(Large bore spec)	A2-6	—
	Dura Turn	1530	A2-5	—
		2030	A2-6	—
		2050	A2-6	—
		2550	A2-8	—
	MT		A2-5	—
		(Large bore spec)	A2-6	—
		With 2nd main spindle	A2-5	A2-5
		With 2nd main spindle(Large bore spec)	A2-6	A2-5
		2000	A2-6	—
		2000(With 2nd main spindle)	A2-6	A2-5
		2500,3000	A2-8	—
		2500(With 2nd main spindle),3000(With 2nd main spindle)	A2-8	A2-6
		4000A Type	A2-11	—
		4000B Type	A2-15	—
	NL	4000C Type	A1-20	—
		4000A Type(With 2nd main spindle)	A2-11	A2-8
		4000B Type(With 2nd main spindle)	A2-15	A2-8
		4000C Type(With 2nd main spindle)	A1-20	A2-8
		1500	A2-5	—
		1500(With 2nd main spindle)	A2-5	A2-5
		2000	A2-6	—
		2000(With 2nd main spindle)	A2-6	A2-5
		2500,3000	A2-8	—
		2500(With 2nd main spindle)	A2-8	A2-5
	NLX	1500	A2-5	—
		1500(With 2nd main spindle)	A2-5	A2-5
		2000	A2-6	—
		2000(With 2nd main spindle)	A2-6	A2-5,A2-6(Option)
	NRX	2500,3000	A2-8	—
		2500(With 2nd main spindle)	A2-8	A2-5,A2-6(Option)
		4000	A2-20	—
		6000	A2-20	—
	NT	2000	A2-5	—
		3100,3150	A2-5	—
		3100(With 2nd main spindle),3150(With 2nd spindle)	A2-5	A2-5
		3200,4200	A2-6	—
		3200(With 2nd main spindle),4200(With 2nd spindle)	A2-6	A2-6
		4250,4300	A2-8	—
		4250(With 2nd main spindle),4300(With 2nd spindle)	A2-8	A2-8
		5400	A2-11	—
		5400(With 2nd main spindle)	A2-11	A2-11
		6600B	A2-15	—
	NTX	6600B(With 2nd main spindle)	A2-15	A2-15
		6600C	A1-20	—
		6600C(With 2nd main spindle)	A1-20	A1-20
		1000	A2-5	A2-5
		2000	A2-6	A2-6
		2000,3000	A2-8	A2-8
	NZ	1500	A2-5	A2-5
		2000	A2-6	A2-6
	NZ-S	1500	A2-5	A2-5
		1500(Large bore spec)	A2-6	A2-6
	NZX	1500	A2-5	A2-5
		2000	A2-6,A2-8(Option)	A2-6
		2500	A2-6(Option), A2-8	—
		4000	A2-11,A2-15,A2-20	—

*DMG MORI SEIKI includes former manufacturer : Amada Machine Tools, WASINO

Model			First Spindle Nose (JIS)	Second Spindle Nose (JIS)
DMG MORI SEIKI	RL	153	A2-5	A2-5
		203	A2-6	A2-6
		2500	A2-8	A2-8
	SL	154	A2-5	—
		154(With 2nd main spindle)	A2-5	A2-5
		204	A2-6	—
	SL	204(With 2nd main spindle)	A2-6	A2-5
		2500Y,303A,303B(Large bore spec)	A2-8	—
		403B,65B,65MC	A2-11	—
		403C,603B,803A,80A,80F	A2-15	—
		803C,65C,803,803B,80,80B	A1-20	—
		65A,75A	A1-11	—
		803C,80C	A2-20	—
		1000	A2-5	—
	VL	253A1	A2-8	—
		553	A2-11	—
	ZL	153	A2-5	—
		153(With 2nd main spindle)	A2-5	A2-5
		203,253(High speed spec.)	A2-6	—
		203(With 2nd main spindle)	A2-6	A2-5
		253,35	A2-8	—
		253S	A2-8	A2-5
		45B,45MC	A2-11	—
	ZT	1000Y,1500Y	A2-5	A2-5
		1500YB	A2-6	A2-5
		1500YB(With 2nd main spindle, Large bore spec)	A2-6	A2-6
		2500	A2-8	A2-8
		S1500	A2-5	—
		S1500(Large bore spec)	A2-6	—
	L	3-J2,3-J3	A1-6	—
		5-J2,5-J3	A2-8	—
		6-J	A1-11	—
		7-J	A2-11	—
		12-C,15-C	A1-8	—
	LE(G)	19K	A1-6	—
	LEO(G)	80A,125A	A1-6	—
	LG	5,6,7,7M	A2-4	—
		7F,8,8M,8MC	A2-6	—
	LJ	3A	A2-4	—
		3B,5B	A2-6	—
		6,10,6M(MC),10M(MC)	A2-8	—
	LN	32N,50N	A1-6	—
	LPT	35C	A1-5	—
	LR	55A	A1-5	—
	SH	5(M,D,DM)	A2-4	—
	SL	10,10S	A2-6	—
		12	A2-8	—
	TH	5(M)	A2-4	—
		10(M)	A2-6 (at special A2-4)	—
	G	100,100M	Φ100Flat	—
		04T,04 - UP	Special	—
		05-UP	Φ95Flat	—
		05,06,07,07-M	Φ100Flat	—
		G-5	Φ80Flat	—
		06,06P	Φ100Flat	—
		07,07M	Φ100Flat	—
		07-F	A2-6	—
	J	1	Φ100Flat	—
		f-1	Φ80Flat	—
		J-1,JJ-1	Φ100Flat	—
		3	A2-6	—
		5	A2-6/A2-8	—
	A	i8,i8f	Φ56Flat/Φ80Flat	—
		12,D-12	A2-6	—
		18-S,D-18S	A2-8	—
		150Y,150SY	A2-6	—
	C	3D	A2-6	—
YAMAZAKI MAZAK	CT	4500	A2-11	—
		5500	A2-20	—
	DT	20	A2-6	A2-6
		25	A2-8	A2-8
		200	A2-6	A2-6
	INTE	1004	A2-5	—
		1004S	A2-5	A2-5
		2004	A2-6	—
		2004S	A2-6	A2-6
		3004,4004	A2-8	—
		3004S,4004S	A2-8	A2-8
		410H2,410H2 Option spec.,420H2	A2-8	—
		410HS2,410HS2 Option spec.,420HS2	A2-8	A2-8
		420H2 Option spec.,500H2,650H2	A2-11	—
		420HS2 Option spec.,500HS2,650HS2	A2-11	A2-11
		500H2 Option spec.,650H2 Option spec.	A2-15	—
		500HS2 Option spec.,650HS2 Option spec.	A2-15	A2-11
		i-100	A2-5	—
		i-100S	A2-5	A2-5
		i-200	A2-6	—
		i-200S	A2-6	A2-6

Model			First Spindle Nose (JIS)	Second Spindle Nose (JIS)
YAMAZAKI MAZAK		i-300	A2-8	—
		i-300S	A2-8	A2-8
		i-400	A2-8	—
		i-400S	A2-8	A2-8
		j-200	A2-6	—
		j-200S	A2-6	A2-5
		j-300	A2-8	—
		j-400	A2-8	—
	IVS	200	A2-6	—
		300	A2-8	—
		400	A2-11	—
	M	4	A2-8	—
		5	A1-11	—
	MP	6100	A2-5	A2-5
		4200,6200	A2-6	A2-6
		4300,6250,6300,650	A2-8	A2-8
	MPN	8200Y	A2-6	A2-6
	NANO TURN		Φ85h6 Flat nose	—
	PM		A1-11	—
	QTN	100	A2-5	—
		100S	A2-5	A2-5
		150,200	A2-6	—
		200S	A2-6	A2-5
		250	A2-8	—
		300	A2-8	—
		350,400	A2-11	—
		450	A2-15	—
		100	A2-5	—
		100S	A2-5	A2-5
	QT	200	A2-6	—
		200S	A2-6	A2-5
		250	A2-8	—
		250S	A2-8	A2-5
		300	A2-8	—
		350,400	A2-11	—
		450	A2-15	—
		100	A2-6	—
		200	A2-8	—
		300	A2-11	—
	QTC	450,50	A1-11	—
		60	A2-15	—
		80	A2-11	—
	ST	100	A2-5	—
		120	A2-5	Flat
		150	A2-6	—
		180	A2-6	—
		200	A2-6 (A2-8 opt)	A2-5
		S700	A2-6,A2-8	—
		12	A2-5	—
		20	A2-6	A2-6
		6	A2-5	—
		8	A2-6	—
	XT	500	A2-6 (A2-8 opt)	A2-6 (A2-8 opt)
	XWT	10	A2-8	—
	XC	100	A2-5	—
		150	Φ170Flat	—
		100	A2-5	—
	XL	150	A2-6 (A2-8 opt)	—
		200	A2-6(A2-8)	A2-5
		150	Φ170Flat	—
	SX	7	convexΦ75Flat	Collect chuck only
	XD	5	Flat	Flat
		8	Flat	Flat
		8t	Flat	Flat
		10i	A2-5	A2-5
	XW	30	A3-S2	—
		30PLUS	A2-3	—
		40	A2-5	—
		50	concaveΦ82.55Flat	concaveΦ82.55Flat
		60	A2-5 (A2-4 opt)	A2-5 (A2-4 opt)
		80	A2-5	A2-5
		130	A2-6	A2-6
		150	A2-6	A2-6
		180	A2-6	A2-6
		200	A2-8	convexΦ75Flat
	XY	120	A2-5	convexΦ75Flat
		1000	A2-5	A2-5
		2000	A2-6 (A2-8 opt)	A2-6
	mini-TURN	A	convexΦ75Flat	—
		B	A2-5	—
	USL	300	A3-S2	—
		480	A3-S2	—
	J-WAVE		concaveΦ82.55Flat	—
	GSL	10	A2-5	—
		15	A2-6	—
SADA UNIS	VERSEC-neo		A1-5	—



CHUCK

For mounting a short taper chuck to lathe spindle end

●About lathe spindle end

Standards covering the lathe spindle end are stipulated in ISO, ASA, DIN, etc except JIS.

Japan major lathe manufacturers manufacture the great majority of lathe spindle end parts at standards of JIS-A1, A2 (ISO-A1, A2). However, a part of lathe spindle end parts is manufactured at ASA-A1, A2.

Although the spindle end dimensions according to each standard are the same, the dimensional tolerance of a face plate (chuck or back plate) varies by a few microns.

●Mounting the short taper (direct type) chuck for spindle end

The taper diameter of the short taper chuck for the spindle end is small slightly and the chuck has the some amount of interference (tolerance). A little gap occurs in mutual mounting end faces when the chuck is set. The chuck is closely touched by screwing mounting bolts. (The face having mounting bolt holes is the mounting face.) Tighten the chuck evenly by screwing bolts diagonally.

When interference (tolerance) of the chuck is large or small, any gap may occur in diameter direction. In the former case, the chuck may be deformed at the time of chuck mounting. In the latter case, a gripping accuracy becomes low for increasing a mounting error.

Similarly, the scroll chuck will also be deformed by tightening it excessively when mounting the chuck to the small end face of spindle end taper. Thus, the handle operation or chuck motion becomes heavy extremely.

Moreover, take care since the more interference, the more failure becomes large.

※See a lathe matching list of the short taper chuck.

When you need taper correction, since correction expense is required separately, please consult our company.

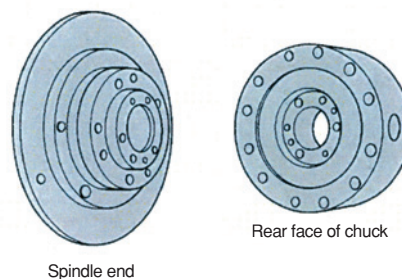
●For order of separate jaw scroll chucks JN-RA for short taper

When placing an order, establish contact with your agent or our company to advise a manufacturer name and type of a lathe used in a customer shop.

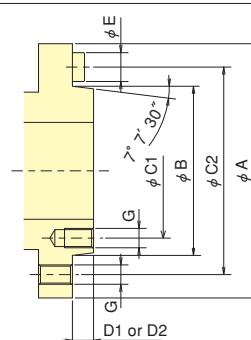
Since the dimensional tolerance of spindle end face may vary by manufacturers, it is necessary to correct the taper of the chuck rear body. (Please understand that there is a fluctuation of a delivery date and a price.)

Moreover, JN-RA types are standard and chuck mounting M bolts are packed together with the chuck. Since each chuck mounting bolt is manufactured at inch (UNIH bolt or wit screw) by manufacturers, confer with our company.

Nose shape figure



Nose dimension figure



JIS B 6109-1: 2005

Machine Tool - Lathe Spindle End and Chuck mounting dimensions Part 1: Extract "Mounting Short Taper"

Code	Spindle Nose Number				
	5	6	8	11	15
A	133	165	210	280	380
B	82.563	106.375	139.719	196.869	285.775
C1	61.9	82.6	111.1	165.1	247.6
C2	104.8	133.4	171.4	235	330.2
D1	14.288	15.875	17.462	19.050	20.638
D2	13	14	16	18	19
E	15.9	19.05	23.8	28.6	34.9
G	M10	M12	M16	M20	M24 (M22 for Former JIS)

Note 1: C1 is Shown on A1 Spindle Nose

Note 2: D1 is shown on A1 Spindle Nose and D2 is done on A2 one



CHUCK

For order of Scroll Chuck parts

● For order of hard jaws of scroll chuck [Internal, External & 2 piece jaw (Top and Base jaws)]

• SC series ... Bodies of 3, 4, 5, 14 and 16 inches are made of cast iron.

JN / JN-T JN-RA series ... Bodies of 12 -16 inches are made of steel.

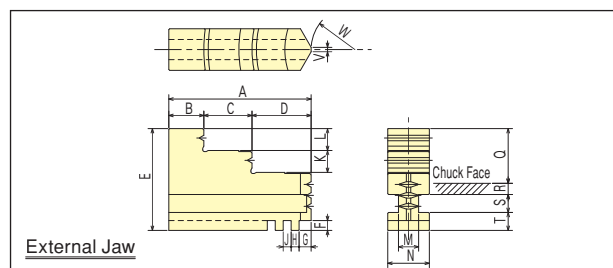
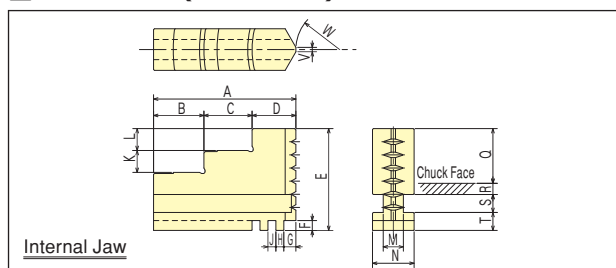
In SC series, Hard jaws are ground with the chuck and it is required the tolerance combination on the jaw fitting. As a general rule, Gripping face is ground concentrically in our shop as repair.

In JN series, the tolerance combination is not required but Gripping face is need to be ground concentrically.

In case of Base jaw for the 2 piece jaw chucks(JN-T/JN-RA), the tolerance combination is also required as well as SC type chucks.

At customer's strong demand, only parts will be supplied however, problem may occur, i.e. Accuracy is not satisfied because jaws are not ground with the existing chuck body.

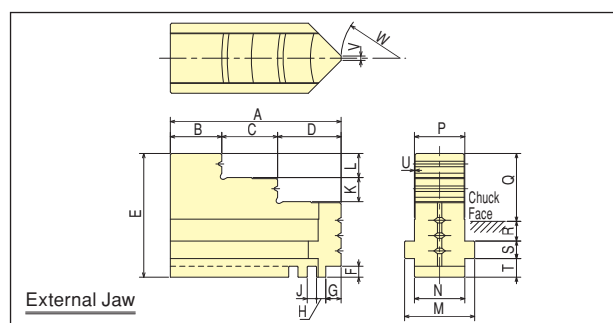
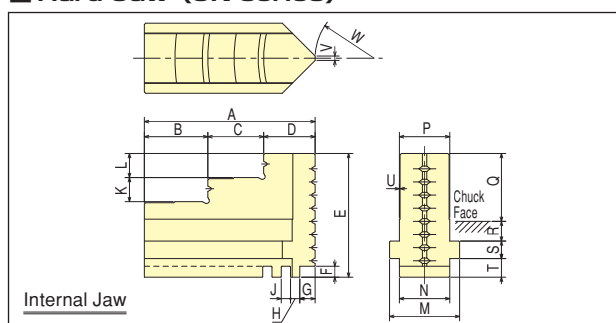
■ Hard Jaw (SC series)



■ SC series Jaw Dimensions

Model		A	B	C	D	E	F	G	H	J	K	L	M	N	Q	R	S	T	V	W
SC-3	Internal jaw	35	14	10	11	29	2.5	4	2.11	2.11	6	6	5.7	11	15	2.75	6.55	4.7	1	R 7.5
	External jaw	35	9	10	16	29	2.5	4	2.11	2.11	6	6	5.7	11	15	2.75	6.55	4.7	1	R 7.5
SC-4	Internal jaw	42	16	13	13	34.5	3.5	4.5	2.54	2.54	7	7	7.2	14	18	3.75	6.55	6.2	1.5	R11
	External jaw	42	10	13	19	34.5	3.5	4.5	2.54	2.54	7	7	7.2	14	18	3.75	6.55	6.2	1.5	R11
SC-5	Internal jaw	50	20	15	15	40	4	4	3.175	3.175	8	8	7.2	16	20	4.1	8.2	7.7	1.5	R15
	External jaw	50	14	15	21	40	4	4	3.175	3.175	8	8	7.2	16	20	4.1	8.2	7.7	1.5	R15
SC-14	Internal jaw	132	49	42	41	93.5	7	8	5.08	5.08	18	18	19	35	52	9.3	16.2	16	5	R47
	External jaw	132	40	41	51	93.5	7	8	5.08	5.08	18	18	19	35	52	9.3	16.2	16	5	R47
SC-16	Internal jaw	146	52	50	44	102	7	10.5	5.08	5.08	20	20	23	40	58	11.8	16.2	16	6	R53
	External jaw	146	43	50	53	102	7	10.5	5.08	5.08	20	20	23	40	58	11.8	16.2	16	6	R53

■ Hard Jaw (JN series)

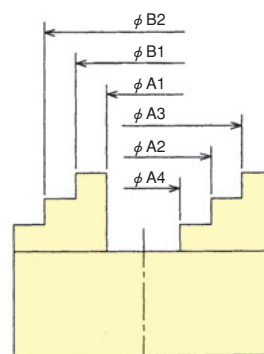


■ JN series Jaw Dimensions

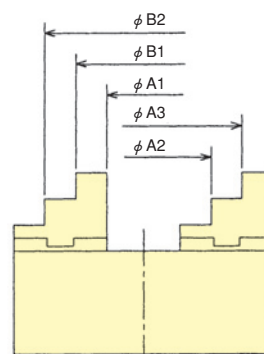
Model		A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R	S	T	U	V	W
JN06	Internal jaw	66	26.5	19	20.5	48.5	4.5	5.5	3.629	3.629	9	9	29	21	21	27	8	6.5	7	0.3	2	R19.5
	External jaw	66	18	19	29	48.5	4.5	5.5	3.629	3.629	9	9	29	21	21	27	8	6.5	7	0.3	2	R19.5
JN07	Internal jaw	78	29	25.5	23.5	56.5	5	7	4.233	4.233	11	11	32	23	23	31	9	8	8.5	0.3	2	R27
	External jaw	78	20.5	25.5	32	56.5	5	7	4.233	4.233	11	11	32	23	23	31	9	8	8.5	0.3	2	R27
JN09	Internal jaw	88	34	28	26	62.5	5	7.5	4.233	4.233	13	13	38	27	27	33	10.5	9.5	9.5	0.3	3	R34.5
	External jaw	88	24	28	36	62.5	5	7.5	4.233	4.233	13	13	38	27	27	33	10.5	9.5	9.5	0.3	3	R34.5
JN10	Internal jaw	98	36.5	32	29.5	66.5	5	7.5	4.233	4.233	14	14	38	27	27	37	10.5	9.5	9.5	0.3	3	R42
	External jaw	98	28	32	38	66.5	5	7.5	4.233	4.233	14	14	38	27	27	37	10.5	9.5	9.5	0.3	3	R42
JN12	Internal jaw	113	41.5	36.5	35	81	6	8	5.08	5.08	15	15	44	31	31	44	14.5	11	11	0.3	4	R42
	External jaw	113	33	36.5	43.5	81	6	8	5.08	5.08	15	15	44	31	31	44	14.5	11	11	0.3	4	R42

■ Gripping range

Model	Gripping range							
	External gripping					Internal gripping		
	A1	A2	A3	A4	Soft Jaw	B1	B2	Soft Jaw
SC-3(F)	2~35	33~55	53~70	2~35	(2~70)	24~44	42~64	(24~64)
SC-4(F)	3~43	41~69	67~95	3~43	(3~95)	29~57	55~84	(29~84)
SC-5(F)	3~46	44~77	75~110	3~46	(3~110)	33~67	65~100	(33~100)
JN06	3~64	62~112	110~160	3~64	—	48~100	98~150	—
JN06T	3~64	62~112	110~160	—	3~160	55~104	102~150	55~150
JN06R	3~64	62~112	110~160	—	—	55~104	102~150	—
JN07	4~72	70~126	124~180	4~72	—	56~114	112~170	—
JN07T	4~68	66~124	122~180	—	4~180	62~117	115~170	62~170
JN07R	4~68	66~124	122~180	—	—	62~117	115~170	—
JS07	4~72	70~126	124~180	4~72	—	56~114	112~170	—
JT07	—	—	—	—	4~180	—	—	62~170
JN08R	4~76	74~138	136~200	—	—	62~127	125~190	—
JN09	5~84	82~150	150~220	5~84	—	62~137	135~210	—
JN09T	5~80	78~150	148~220	—	5~220	70~141	139~210	70~210
JN09R	5~80	78~150	148~220	—	—	70~141	139~210	—
JS09	5~84	82~152	150~220	5~84	—	62~137	135~210	—
JT09	—	—	—	—	5~220	—	—	70~210
JN10	5~96	94~178	176~260	5~96	—	70~161	159~250	—
JN10T	5~94	92~177	176~260	—	5~260	80~166	164~250	80~250
JN10R	5~94	92~177	176~260	—	—	80~166	164~250	—
JN12	10~108	108~204	202~300	10~108	—	86~189	187~290	—
JN12T	10~108	108~204	202~300	—	10~300	90~191	189~290	90~290
JN12R	10~108	108~204	202~300	—	—	90~191	189~290	—
SC-14	25~118	116~210	208~315	25~118	—	107~188	186~290	—
SC-16	25~132	130~215	213~360	25~132	—	113~212	210~340	—



SC (F)/JN/JS type



JN-T/JN-R type

■ Chuck handle Dimensions

Model	F1	F2	F3	F4	F5
SC-3	65	15	8	110	7
SC-4	70	17	8	140	8
SC-5	75	20	10	170	8
JN06	120	20	10	210	10
JN07	160	20	12	240	11
JN09	160	22	12	290	12
JN10	160	22	12	360	12
JN12	200	26	16	390	14
SC-14	140	30	16	450	15
SC-16	140	30	16	450	15
IC-4	75	12	8	120	6
IC-6	100	13	8	150	8
IC-8	130	15	10	200	10
IC-10	150	18	12	250	10
IC-12	170	19	12	300	12
IC-14	170	19	12	300	12
IC-16	220	22	16	400	14
IC-18	220	22	16	400	14

