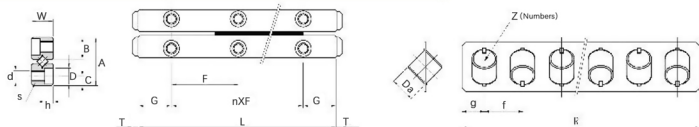


## Cross roller guideways VR1

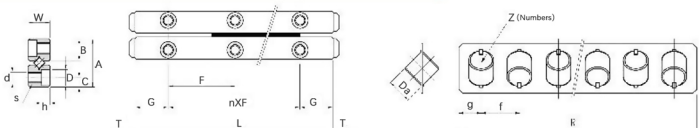


Dimensions (Unit:mm)

Model NO	Max stroke	Main dimensions															Rated load		
		combination size				Assembly size											C <sub>1</sub>	C <sub>01</sub>	
A	W	L	n x F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z			C <sub>1</sub>
VR1-20-5Z	12		20	1 x 10									14			5			
VR1-30-7Z	22		30	2 x 10									19			7			
VR1-40-10Z	27		40	3 x 10									26.5			10			
VR1-50-13Z	32	8.5	50	4 x 10	5	3.9	1.8	M2	1.65	3	1.4	1.6	1.5	34	2.0	2.5	13	0.098	0.069
VR1-60-16Z	37		60	5 x 10									41.5			16			
VR1-70-19Z	42		70	6 x 10									49			19			
VR1-80-21Z	52		80	7 x 10									54			21			

C1: Basic dynamic load rating C01: Basic static load rating

## Cross roller guideways VR2

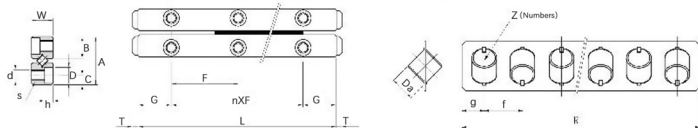


Dimensions (Unit:mm)

Model NO	Max stroke	Main dimensions															Rated load		
		combination size				Assembly size											C <sub>1</sub>	C <sub>01</sub>	
A	W	L	n x F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z			C <sub>1</sub>
VR2-30-5Z	18		30	1 x 15									21			5			
VR2-45-8Z	24		45	2 x 15									33			8			
VR2-60-11Z	30		60	3 x 15									45			11			
VR2-75-13Z	44		75	4 x 15									53			13			
VR2-90-16Z	50		90	5 x 15									65			16			
VR2-105-18Z	64	12	105	6 x 15	7.5	5.6	2.5	M3	2.55	4.4	2	2	2	73	2.5	4	18	0.176	0.127
VR2-120-21Z	70		120	7 x 15									85			21			
VR2-135-23Z	84		135	8 x 15									93			23			
VR2-150-26Z	90		150	9 x 15									105			26			
VR2-165-29Z	96		165	10 x 15									117			29			
VR2-180-32Z	102		180	11 x 15									129			32			

C1: Basic dynamic load rating C01: Basic static load rating

## Cross roller guideways VR3

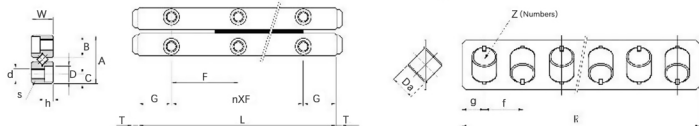


Dimensions (Unit:mm)

Model NO	Max stroke	Main dimensions															Rated load		
		combination size				Assembly size											C <sub>1</sub>	C <sub>01</sub>	
A	W	L	n x F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z			C <sub>1</sub>
VR3-50-7Z	28		50	1 x 25									36			7			
VR3-75-10Z	48		75	2 x 25									51			10			
VR3-100-14Z	58		100	3 x 25									71			14			
VR3-125-17Z	78		125	4 x 25									86			17			
VR3-150-21Z	88		150	5 x 25									106			21			
VR3-175-24Z	108	18	175	6 x 25	12.5	8.3	3.5	M4	3.3	6	3.1	2.5	3	121	3	5	24	0.363	0.275
VR3-200-28Z	118		200	7 x 25									141			28			
VR3-225-31Z	138		225	8 x 25									156			31			
VR3-250-35Z	148		250	9 x 25									176			35			
VR3-275-38Z	168		275	10 x 25									191			38			
VR3-300-42Z	178		300	11 x 25									211			42			

C1: Basic dynamic load rating C01: Basic static load rating

## Cross roller guideways VR4



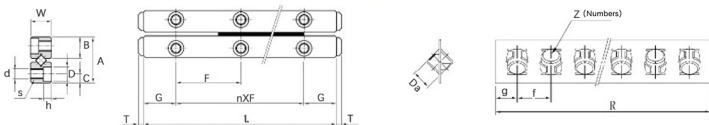
Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions														Rated load		
				Assembly size										Roller numbers						
		A	W	L	n × F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z	C <sub>i</sub>	C <sub>01</sub>
VR4-80-7Z	58			80	1 × 40										51			7		
VR4-120-11Z	82			120	2 × 40										79			11		
VR4-160-15Z	106			160	3 × 40										107			15		
VR4-200-19Z	130			200	4 × 40										135			19		
VR4-240-23Z	154			240	5 × 40										163			23		
VR4-280-27Z	178	22	11	280	6 × 40	20	10.2	4.5	M5	4.3	8	4.2	2.5	4	191	4.5	7	27	0.764	0.637
VR4-320-31Z	202			320	7 × 40										219			31		
VR4-360-35Z	226			360	8 × 40										247			35		
VR4-400-39Z	250			400	9 × 40										275			39		
VR4-440-43Z	274			440	10 × 40										303			43		
VR4-480-47Z	298			480	11 × 40										331			47		

C1: Basic dynamic load rating

C01: Basic static load rating

## Cross roller guideways VR6



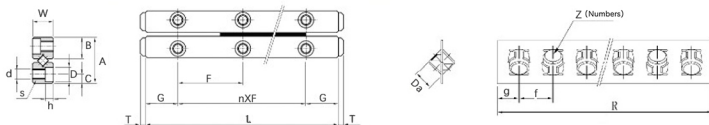
Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions														Rated load		
				Assembly size										Roller numbers						
		A	W	L	n × F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z	C <sub>i</sub>	C <sub>01</sub>
VR6-100-7Z	56			100	1 × 50										72			7		
VR6-150-10Z	96			150	2 × 50										102			10		
VR6-200-13Z	136			200	3 × 50										132			13		
VR6-250-17Z	156			250	4 × 50										172			17		
VR6-300-20Z	196			300	5 × 50										202			20		
VR6-350-24Z	216	30	15	350	6 × 50	25	14.4	6	M6	5.2	9.5	5.2	3	6	242	6	10	24	1.91	1.76
VR6-400-27Z	256	(31)		400	7 × 50										272			27		
VR6-450-31Z	276			450	8 × 50										312			31		
VR6-500-34Z	316			500	9 × 50										342			34		
VR6-550-38Z	336			550	10 × 50										382			38		
VR6-600-41Z	376			600	11 × 50										412			41		

C1: Basic dynamic load rating

C01: Basic static load rating

## Cross roller guideways VR9



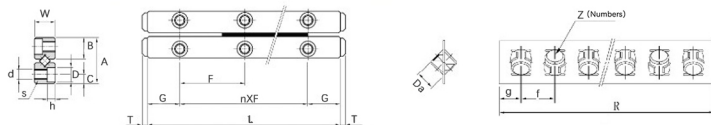
Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions														Rated load		
				Assembly size										Roller numbers						
		A	W	L	n × F	G	B	C	S	d	D	h	T	D <sub>a</sub>	R	g	f	Z	C <sub>i</sub>	C <sub>01</sub>
VR9-200-10Z	118			200	1 × 100										141			10		
VR9-300-15Z	178			300	2 × 100										211			15		
VR9-400-20Z	238			400	3 × 100										281			20		
VR9-500-25Z	298			500	4 × 100										351			25		
VR9-600-30Z	358	40	20	600	5 × 100	50	19.2	8	M8	6.8	10.5	6.2	4	9	421	7.5	14	30	4.31	4.36
VR9-700-35Z	418	(44)	(22)	700	6 × 100		(20.2)	(9)							491			35		
VR9-800-40Z	478			800	7 × 100										561			40		
VR9-900-45Z	538			900	8 × 100										631			45		
VR9-1000-50Z	598			1000	9 × 100										701			50		
VR9-1100-55Z	658			1100	10 × 100										771			55		
VR9-1200-60Z	718			1200	11 × 100										841			60		

C1: Basic dynamic load rating

C01: Basic static load rating

## Cross roller guideways VR12

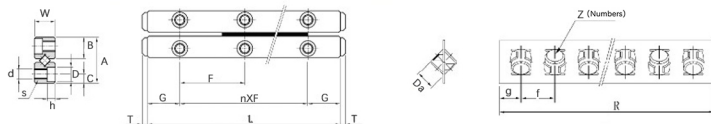


Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions													Rated load			
		A	W	L	n x F	G	B	C	S	d	D	h	T	Da	R	g	f	Z	C <sub>1</sub>	C <sub>01</sub>
VR12-200-7Z	110	58	28	200	1 x 100	50	28	12	M10	8.5	14	8.2	5	12	145	12.5	20	7	7.25	7.65
VR12-300-10Z	190			300	2 x 100										205			10		
VR12-400-14Z	230			400	3 x 100										285			14		
VR12-500-17Z	310			500	4 x 100										345			17		
VR12-600-21Z	350			600	5 x 100										425			21		
VR12-700-24Z	430			700	6 x 100										485			24		
VR12-800-28Z	470			800	7 x 100										565			28		
VR12-900-31Z	550			900	8 x 100										625			31		
VR12-1000-34Z	630			1000	9 x 100										685			34		
VR12-1100-38Z	670			1100	10 x 100										765			38		
VR12-1200-41Z	750	1200	11 x 100	825	41															

C1: Basic dynamic load rating C01: Basic static load rating

## Cross roller guideways VR15

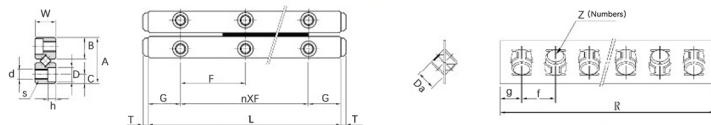


Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions													Rated load			
		A	W	L	n x F	G	B	C	S	d	D	h	T	Da	R	g	f	Z	C <sub>1</sub>	C <sub>01</sub>
VR15-300-8Z	190	71	36	300	2 x 100	50	34.4	14	M12	10.5	17.5	10.2	6	15	205	15	25	8	11.3	12.4
VR15-400-11Z	240			400	3 x 100										280			11		
VR15-500-13Z	340			500	4 x 100										330			13		
VR15-600-16Z	390			600	5 x 100										405			16		
VR15-700-19Z	440			700	6 x 100										480			19		
VR15-800-22Z	490			800	7 x 100										555			22		
VR15-900-25Z	540			900	8 x 100										630			25		
VR15-1000-27Z	640			1000	9 x 100										680			27		
VR15-1100-30Z	690			1100	10 x 100										755			30		
VR15-1200-33Z	740			1200	11 x 100										830			33		

C1: Basic dynamic load rating C01: Basic static load rating

## Cross roller guideways VR18

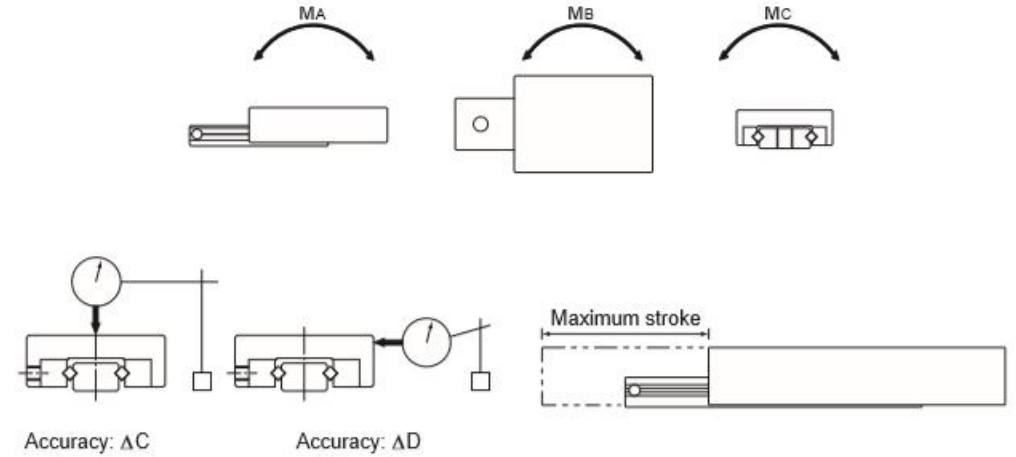
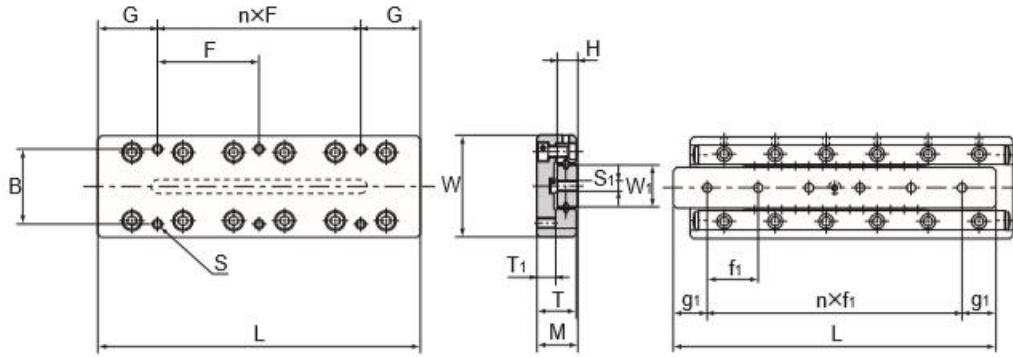


Dimensions (Unit:mm)

Model NO	Max stroke	combination size		Main dimensions													Rated load			
		A	W	L	n x F	G	B	C	S	d	D	h	T	Da	R	g	f	Z	C <sub>1</sub>	C <sub>01</sub>
VR18-300-6Z	228	83	40	300	2 x 100	50	40.2	18	M14	12.5	20	12.2	6	18	186	18	30	6	15.9	17.8
VR18-400-8Z	248			400	3 x 100										276			9		
VR18-500-11Z	328			500	4 x 100										336			11		
VR18-600-13Z	408			600	5 x 100										396			13		
VR18-700-16Z	428			700	6 x 100										486			16		
VR18-800-18Z	508			800	7 x 100										546			18		
VR18-900-20Z	588			900	8 x 100										606			20		
VR18-1000-23Z	608			1000	9 x 100										696			23		
VR18-1100-25Z	688			1100	10 x 100										756			25		
VR18-1200-27Z	768			1200	11 x 100										816			27		

C1: Basic dynamic load rating C01: Basic static load rating

# Model VRT Miniature Type (Tapped Base Type)



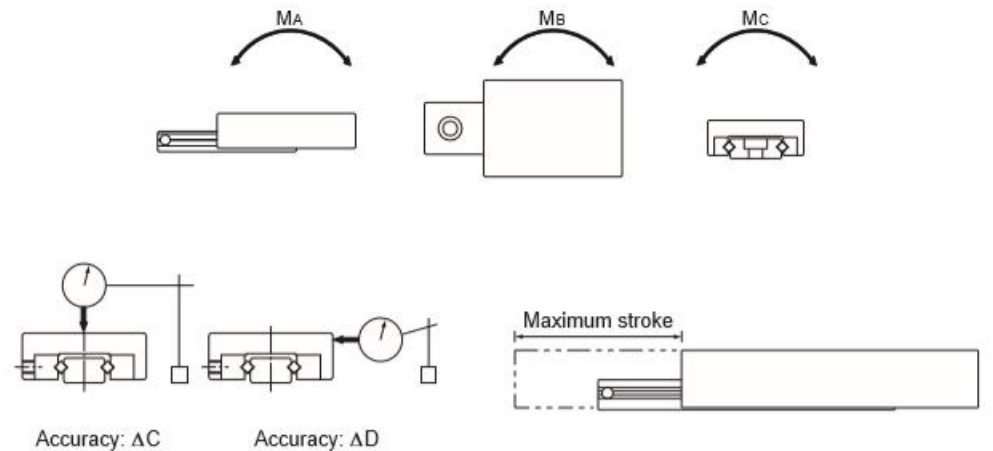
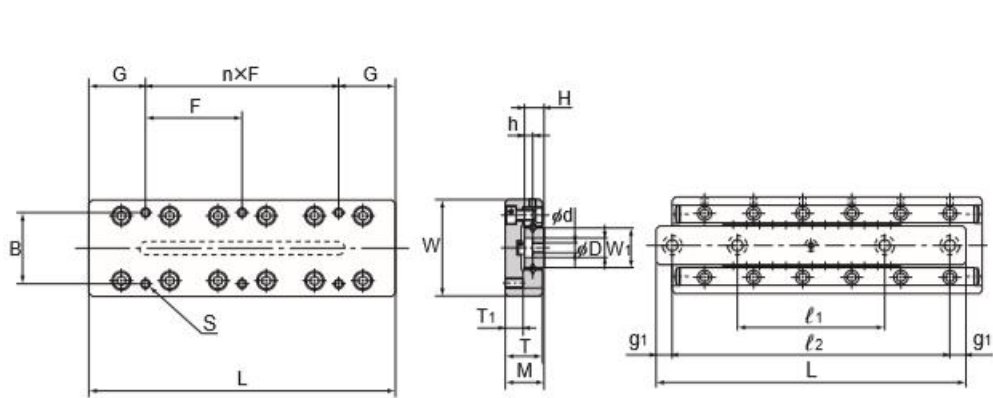
Model No.	Main dimensions					Table surface dimensions				Side surface dimensions				Base surface dimensions Mounting hole position			Basic load rating		Static permissible moment			Accuracy $\mu\text{m}$		
	Maximum stroke	Width W $\pm 0.1$	Height M $\pm 0.1$	Length L	Mass g	Table mounting tap position				T	T <sub>1</sub>	H	W <sub>1</sub>	S <sub>1</sub>	n x f <sub>1</sub>	g <sub>1</sub>	No. of rollers Z	C kN	C <sub>0</sub> kN	M <sub>A</sub> N·m	M <sub>B</sub> N·m	M <sub>C</sub> N·m	$\Delta C$	$\Delta D$
						B	n x F	G	S															
VRT 1025	12	20	8	25	23	14	1 x 18	3.5	M2.6	7.5	3.5	4	6.7	M2.6	2 x 7.5	5	5	0.46	0.61	1.52	1.25	2.29	2	4
VRT 1035	18			35	32		1 x 28	3.5							7		0.63	0.92	2.62	2.32	3.44			
VRT 1045	25			45	42		1 x 20	12.5							10		0.95	1.53	4.14	4.53	5.73			
VRT 1055	32			55	52		1 x 30	12.5							12		1.09	1.83	5.92	6.41	6.87			
VRT 1065	40			65	62		2 x 20	12.5							14		1.23	2.14	8.08	8.62	8.02			
VRT 1075	45			75	72		1 x 30	22.5							18		1.50	2.75	13.3	14.0	10.3			
VRT 1085	50			85	82		2 x 30	12.5							20		1.63	3.05	16.4	17.2	11.5			
VRT 2035	18			30	12		35	78							22		1 x 28	3.5	M3	11.5	5.5	6		
VRT 2050	30	50	113			1 x 43	3.5	7	1.16	1.63	7.45	6.59	10.6											
VRT 2065	40	65	147			1 x 30	17.5	9	1.46	2.17	11.8	10.5	14.1											
VRT 2080	50	80	184			1 x 45	17.5	12	2.01	3.26	16.8	18.2	21.2											
VRT 2095	60	95	220			2 x 30	17.5	14	2.26	3.80	23.0	24.5	24.7											
VRT 2110	70	110	257			1 x 45	32.5	17	2.51	4.34	37.9	35.7	28.2											
VRT 2125	80	125	290			2 x 45	17.5	19	2.76	4.89	46.7	44.3	31.8											
VRT 3055	30	55	229			1 x 40	7.5	6	2.71	3.67	12.2	13.9	31.9											
VRT 3080	45	80	336			1 x 65	7.5	10	4.06	6.11	33.1	36.2	53.1											
VRT 3105	60	105	442			1 x 50	27.5	13	4.68	7.33	64.6	59.8	63.8											
VRT 3130	75	40	16	130	551	30	1 x 75	27.5	M4	15.5	7.5	8	16	M4	4 x 25	15	17	5.87	9.77	107	100	85	3	6
VRT 3155	90			155	657		2 x 50	27.5							20		6.98	12.2	131	138	106			
VRT 3180	105			180	766		1 x 75	52.5							24		8.05	14.7	189	196	128			
VRT 3205	130			205	871		2 x 75	27.5							26		8.57	15.9	222	230	138			

Cross Roller Table

Unit: mm



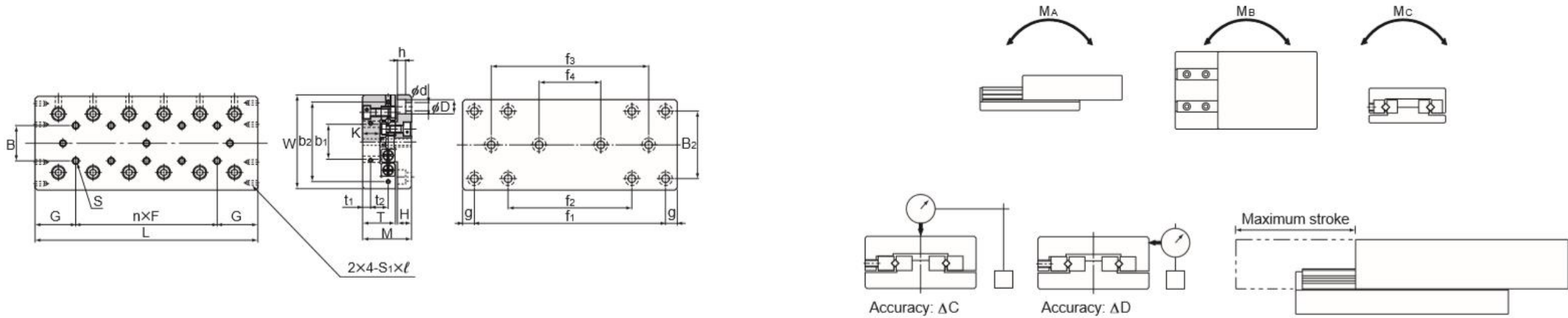
# Model VRT-A Miniature Type (Counter Bore Hole Base Type)



Unit: mm

Cross Roller Table

Model No.	Main dimensions					Table surface dimensions				Side surface dimensions				Base surface dimensions Mounting hole position				Basic load rating		Static permissible moment			Accuracy $\mu\text{m}$													
	Maximum stroke	Width W $\pm 0.1$	Height M $\pm 0.1$	Length L	Mass g	Table mounting tap position				T	T <sub>1</sub>	H	W <sub>1</sub>	d×D×h	l <sub>1</sub>	l <sub>2</sub>	g <sub>1</sub>	No. of rollers Z	C kN	C <sub>0</sub> kN	M <sub>A</sub> N·m	M <sub>B</sub> N·m	M <sub>C</sub> N·m	ΔC	ΔD											
						B	n×F	G	S																											
VRT 1025A	12	20	8	25	23	14	1×18	3.5	M2.6	7.5	3.5	4	6.7	25×41×22	—	18	3.5	5	0.46	0.61	1.52	1.25	2.29	2	4											
VRT 1035A	18			35	32		1×28	3.5							—	25	5	7	0.63	0.92	2.62	2.32	3.44													
VRT 1045A	25			45	42		1×20	12.5							25	38	3.5	10	0.95	1.53	4.14	4.53	5.73													
VRT 1055A	32			55	52		1×30	12.5							29	48	3.5	12	1.09	1.83	5.92	6.41	6.87													
VRT 1065A	40			65	62		2×20	12.5							31	55	5	14	1.23	2.14	8.08	8.62	8.02													
VRT 1075A	45			75	72		1×30	22.5							35	65	5	18	1.50	2.75	13.3	14.0	10.3													
VRT 1085A	50			85	82		2×30	12.5							40	75	5	20	1.63	3.05	16.4	17.2	11.5													
VRT 2035A	18			30	12		35	78							22	1×28	3.5	M3	11.5	5.5	6	12.2	3.5×6×3.2			—	25	5	5	0.84	1.09	4.32	3.55	7.06	5	6
VRT 2050A	30						50	113								1×43	3.5									—	35	7.5	7	1.16	1.63	7.45	6.59	10.6		
VRT 2065A	40						65	147								1×30	17.5									33	55	5	9	1.46	2.17	11.8	10.5	14.1		
VRT 2080A	50	80	181			1×45	17.5	40	70	5	12	2.01	3.26	16.8		18.2	21.2																			
VRT 2095A	60	95	217			2×30	17.5	45	85	5	14	2.26	3.80	23.0		24.5	24.7																			
VRT 2110A	70	110	254			1×45	32.5	50	95	7.5	17	2.51	4.34	37.9		35.7	28.2																			
VRT 2125A	80	125	287			2×45	17.5	55	110	7.5	19	2.76	4.89	46.7		44.3	31.8																			
VRT 3055A	30	40	16			55	226	30	1×40	7.5	M4	15.5	7.5	8		16	4.5×7.5×4.2							—	40	7.5	6	2.71	3.67	12.2	13.9	31.9	3	6		
VRT 3080A	45					80	333		1×65	7.5														43	68	6	10	4.06	6.11	33.1	36.2	53.1				
VRT 3105A	60					105	439		1×50	27.5														55	90	7.5	13	4.68	7.33	64.6	59.8	63.8				
VRT 3130A	75			130	548	1×75	27.5		65	115					7.5			17	5.87	9.77	107	100	85													
VRT 3155A	90			155	652	2×50	27.5		95	140					7.5			20	6.98	12.2	131	138	106													
VRT 3180A	105			180	761	1×75	52.5		85	165					7.5			24	8.05	14.7	189	196	128													
VRT 3205A	130			205	866	2×75	27.5		90	190					7.5			26	8.57	15.9	222	230	138													



Unit: mm

Model No.	Main dimensions					Table surface dimensions													Base surface dimensions Mounting hole position						Basic load rating			Static permissible moment			Accuracy $\mu\text{m}$	
	Maximum stroke	Width W $\pm 0.1$	Height M $\pm 0.1$	Length L	Mass <sup>(Note)</sup> kg	Table mounting tap position				Side surface mounting tap position					T	H	K	d×D×h	No. of rollers Z						C kN	C <sub>0</sub> kN	M <sub>A</sub> N·m	M <sub>B</sub> N·m	M <sub>C</sub> N·m	$\Delta C$	$\Delta D$	
						B	n×F	G	S	b <sub>1</sub>	b <sub>2</sub>	t <sub>1</sub>	t <sub>2</sub>	S <sub>1</sub> × $\ell$					B <sub>2</sub>	f <sub>1</sub>	f <sub>2</sub>	f <sub>3</sub>	f <sub>4</sub>	g								6
VRU 6110	60	100	45	110	3.2(1.7)	50	—	55	M6	60	92	8	15	31	13	15	7×11×7	60	90	—	—	—	10	6	16.4	22.7	150	172	510	3	6	
VRU 6160	95			160	4.6(2.5)		1×50												140	—	—	—		9	20.5	30.2	410	367	680	3	6	
VRU 6210	130			210	6(3.2)		2×50												190	—	90	—		13	28.2	45.3	800	740	1020	3	7	
VRU 6260	165			260	7.4(4)		3×50												240	—	140	—		16	35.3	60.5	1040	1100	1360	3	7	
VRU 6310	200			310	8.7(4.8)		4×50												290	—	190	—		19	38.8	68.0	1630	1540	1530	4	8	
VRU 6360	235			360	10.1(5.6)		5×50												340	140	240	—		22	45.3	83.1	1970	2050	1870	4	8	
VRU 6410	265			410	11.5(6.4)		6×50												390	190	290	—		26	51.6	98.3	2750	2840	2210	4	8	
VRU 9210	130			145	60		210												12(7.1)	85	—	105		M8	90	135	11	20	43	16	21	9×14×9
VRU 9310	180	310	17.6(7.9)			1×100	200	—	—	—	14	81.1	133	2810	2990	4780	3	7														
VRU 9410	350	410	23.2(—)			2×100	300	—	100	—	15	81.1	133	3660	3420	4780	4	8														
VRU 9510	450	510	28.8(—)			3×100	400	—	200	—	19	98.7	171	5710	5410	6140	4	8														
VRU 9610	550	610	34.4(—)			4×100	500	100	300	—	22	115	208	6910	7200	7500	4	9														
VRU 9710	650	710	40(—)			5×100	600	200	400	—	26	131	246	9640	9980	8870	4	9														
VRU 9810	750	810	45.6(—)			6×100	700	300	500	100	29	139	265	12800	12400	9550	5	10														
* VRU 9910	850	910	51.2(—)			7×100	800	400	600	200	33	155	303	16500	15900	10900	5	10														
* VRU 91010	950	1010	56.8(—)			8×100	900	500	700	300	37	169	341	20500	20000	12300	5	10														

Note) Stainless steel type with high corrosion resistance is also available.  
 The value in the parentheses represents the mass of a stainless steel type.  
 Models VRU9910 and VRU91010 are build to order.

(Example) VRU 6310 M  
 └ Symbol for stainless steel type  
 (table base: aluminum)