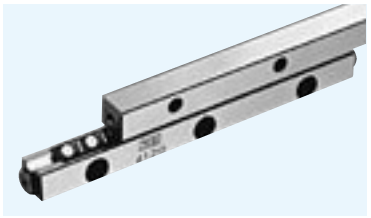
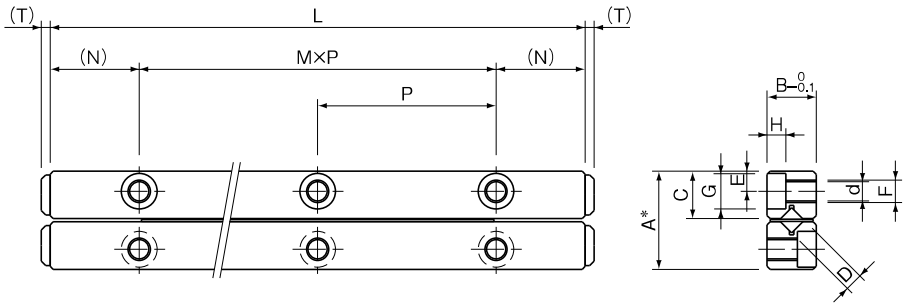
NV TYPE
−NV2／NV3／NV4−



part number structure

example **NVS 2 150 - 41Z - UP**

- specification
  NV: standard
  NVS: anti-corrosion
- size
- rail length
- number of rollers
- accuracy grade
  blank: high
  P: precision
  UP: ultra precision



High grade: A-$^{0}_{0.2}$ Precision grade (P): A-$^{0}_{0.1}$ Ultra Precision grade (UP): A-$^{0}_{0.1}$
One set consists of 4 rails, 2 R-retainers, and 8 end pieces.

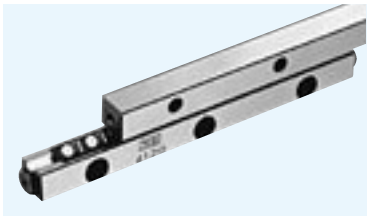
part number		stroke	roller diameter	number of rollers				
standard	anti-corrosion	ST mm	D mm	Z	L mm	A mm	B mm	C mm
NV2030- 5Z	NVS2030- 5Z	18	2	5	30	12	6	5.7
2045- 9Z	2045- 9Z	25		9	45			
2060-15Z	2060-15Z	30		15	60			
2075-19Z	2075-19Z	40		19	75			
2090-23Z	2090-23Z	50		23	90			
2105-27Z	2105-27Z	65		27	105			
2120-33Z	2120-33Z	70		33	120			
2135-37Z	2135-37Z	80		37	135			
2150-41Z	2150-41Z	90		41	150			
2165-47Z	2165-47Z	95		47	165			
2180-51Z	2180-51Z	100		51	180			
NV3050- 9Z	NVS3050- 9Z	25	3	9	50	18	8	8.65
3075-13Z	3075-13Z	48		13	75			
3100-19Z	3100-19Z	60		19	100			
3125-23Z	3125-23Z	83		23	125			
3150-29Z	3150-29Z	90		29	150			
3175-35Z	3175-35Z	103		35	175			
3200-41Z	3200-41Z	113		41	200			
3225-43Z	3225-43Z	150		43	225			
NV4080- 9Z	NVS4080- 9Z	60	4	9	80	22	11	10.65
4120-17Z	4120-17Z	75		17	120			
4160-23Z	4160-23Z	105		23	160			
4200-29Z	4200-29Z	130		29	200			
4240-37Z	4240-37Z	143		37	240			
4280-43Z	4280-43Z	170		43	280			

The basic static load rating is the value at the center of the stroke.

major dimensions								basic load rating		allowable	mass	size
M×P mm	N mm	E mm	F	d mm	G mm	H mm	T mm	dynamic C N	static Co N	load F N	(one set) g	
1×15	7.5	2.5	M3	2.55	4.4	2	1.2	1,360	1,520	509	33	2030
2×15								2,330	3,050	1,010	49	2045
3×15								3,990	6,110	2,030	62	2060
4×15								4,740	7,630	2,540	74	2075
5×15								5,460	9,160	3,050	91	2090
6×15								6,160	10,600	3,560	103	2105
7×15								6,830	12,200	4,070	120	2120
8×15								7,490	13,700	4,580	132	2135
9×15								8,130	15,200	5,090	149	2150
10×15								9,370	18,300	6,110	161	2165
11×15								9,970	19,800	6,620	174	2180
1×25	12.5	3.5	M4	3.3	6	3.1	2	6,150	8,060	2,680	97	3050
2×25								8,440	12,100	4,030	140	3075
3×25								12,500	20,100	6,720	192	3100
4×25								14,400	24,200	8,060	245	3125
5×25								16,300	28,200	9,410	290	3150
6×25								19,800	36,300	12,100	337	3175
7×25								21,500	40,300	13,400	385	3200
8×25								23,200	44,300	14,700	434	3225
1×40	20	4.5	M5	4.3	8	4.2	2	12,100	15,700	5,250	265	4080
2×40								20,700	31,500	10,500	400	4120
3×40								28,500	47,200	15,700	530	4160
4×40								32,100	55,100	18,300	660	4200
5×40								39,000	70,900	23,600	800	4240
6×40								45,600	86,600	28,800	930	4280

1N≒0.102kgf

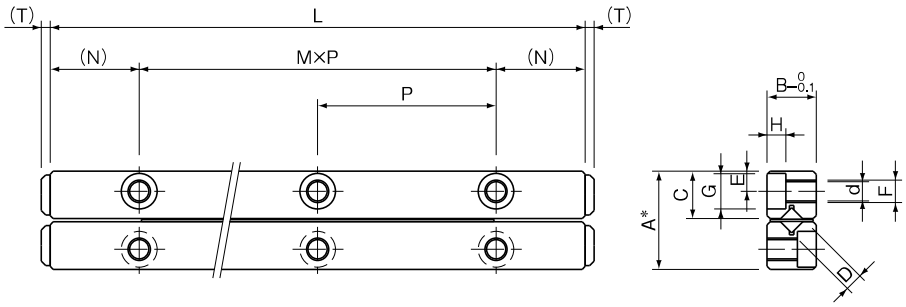
NV TYPE
−NV6／NV9／NV12−



part number structure

example NV 6 200 - 19Z - UP

- NV type
- size
- rail length
- number of rollers
- accuracy grade
  - **blank**: high
  - **P**: precision
  - **UP**: ultra precision
  - The UP grade is not available for NV 12



High grade: A-$^{0}_{0.2}$ Precision grade (P): A-$^{0}_{0.1}$ Ultra Precision grade (UP): A-$^{0}_{0.1}$
One set consists of 4 rails, 2 R-retainers, and 8 end pieces.

part number	stroke ST mm	roller diameter D mm	number of rollers Z	major dimensions L mm	A mm	B mm	C mm	M×P mm	N mm	E mm
NV6100- 9Z	63	6	9	100	31	15	15.15	1×50	25	6
6150- 15Z	85		15	150				2×50		
6200- 19Z	135		19	200				3×50		
6250- 25Z	158		25	250				4×50		
6300- 31Z	180		31	300				5×50		
6350- 35Z	230		35	350				6×50		
6400- 39Z	275		39	400				7×50		
NV9200- 13Z	120	9	13	200	44	22	21.5	1×100	50	9
9300- 21Z	170		21	300				2×100		
9400- 29Z	220		29	400				3×100		
9500- 35Z	300		35	500				4×100		
NV12300- 15Z	180	12	15	300	58	28	28.5	2×100	50	12
12400- 21Z	230		21	400				3×100		
12500- 27Z	280		27	500				4×100		
12600- 31Z	380		31	600				5×100		

The basic static load rating is the value at the center of the stroke.

F mm	d mm	G mm	H mm	T mm	basic load rating dynamic C N	basic load rating static Co N	allowable load F N	mass (one set) g	size
M6	5.2	9.5	5.2	3	29,600	37,500	12,500	650	6100
					50,900	75,100	25,000	970	6150
					60,600	93,900	31,300	1,300	6200
					69,800	112,000	37,500	1,620	6250
					87,400	150,000	50,100	1,940	6300
					95,800	169,000	56,300	2,360	6350
					104,000	187,000	62,600	2,780	6400
M8	6.8	10.5	6.2	4	96,100	128,000	42,600	2,720	9200
					143,000	213,000	71,100	4,080	9300
					186,000	298,000	99,500	5,440	9400
					226,000	384,000	128,000	6,790	9500
M10	8.5	13.5	8.2	4	228,000	317,000	105,000	6,770	12300
					271,000	397,000	132,000	9,040	12400
					352,000	555,000	185,000	11,300	12500
					391,000	635,000	211,000	13,560	12600

1N≒0.102kgf