

Linear Block and Rail Preload and Clearance Data

MR (Miniature) Series

Table of Preload

Preload type	Model code	Clearance (μm)						Application
		3	5	7	9	12	15	
Clearance	V0	+3-0	+3-0	+4-0	+4-0	+5-0	+6-0	Very smooth
Standard	VS	+1-0	+1-0	+2-0	+2-0	+2-0	+3-0	Smooth and precision
Light preload	V1	0--0.5	0--1	0--3	0--4	0--5	0--6	High rigidity Minimize vibration High precision Load balance

ARC - Automation Series

ARC										
Class	Description	Preload Value	Clearance (μm)							Application
			15	20	25	30	35	45	55	
VC	Micro gap	0	+10~+2	+10~+2	+11~+3	+12~+4	+12~+4	+13~+5	+13~+5	Smooth motion, low friction
v0	Light preload	0.02C	+2~-4	+2~-5	+3~-6	+4~-7	+4~-8	+5~-10	+5~-12	For precision situations, smooth motion
V1	Medium Preload	0.05C	-4~-10	-5~-12	-6~-15	-7~-18	-8~-20	-10~-24	-12~-28	High stiffness, precision, high load situations
V2	Heavy Preload	0.08C	-10~-16	-12~-18	-15~-23	-18~-27	-20~-31	-24~-36	-28~-45	Super High stiffness, precision, super high load situations

HRC - Heavy Duty Series

HRC/ERC										
Class	Description	Preload Value	Clearance (μm)							Application
			15	20	25	30	35	45	55	
VC	Micro gap	0	+10~+2	+10~+2	+11~+3	+12~+4	+12~+4	+13~+5	+13~+5	Smooth motion, low friction
v0	Light preload	0.02C	+2~-4	+2~-5	+3~-6	+4~-7	+4~-8	+5~-10	+5~-12	For precision situations, smooth motion
V1	Medium Preload	0.08C	-4~-12	-5~-14	-6~-16	-7~-19	-8~-22	-10~-25	-12~-29	High stiffness, precision, high load situations
V2	Heavy Preload	0.13C	-11~-19	-14~-23	-16~-26	-19~-31	-22~-35	-25~-40	-29~-46	Super High stiffness, precision, super high load situations