

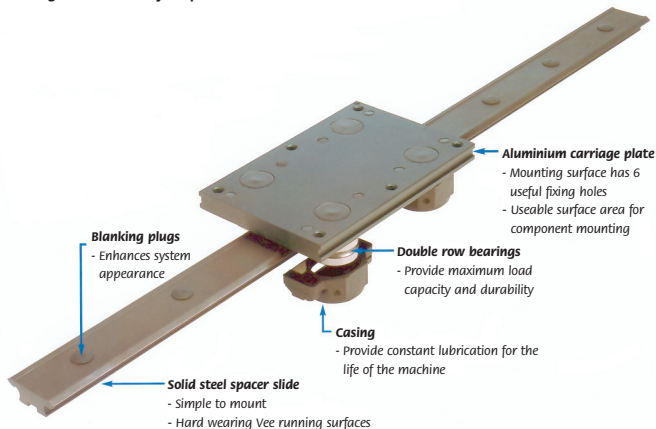
V- rail guidance system

Introduction

These systems use single piece rollers and lubrication elements to ensure a long and incident free working life

Our special profile rails are designed to be suitable for all applications and are cold drawn and with hardened tracks, provide high accuracy and a long working life, even in the most hostile environments.

Choosing one is extremely simple.



Advantages

- Especially suitable for high speed/short stroke applications
- Reduced installation time, simply bolt the slide in position
- Can be fitted to un-machined surfaces if required
- Suitable for fitting to standard aluminium profiles
- High quality slides mean smooth frictionless movement
- Single piece construction of the carriage for a long and trouble free life
- Integrated cap seals protect the bearings from dirt and ensure continuous lubrication
- Hardened slide with low wear characteristics
- Quiet in operation

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Capacity and working life

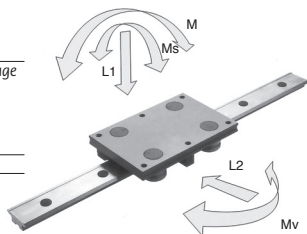
Calculating the expectancy life

Most applications involve central L1 loads.

In these cases simply divide your load (N) by the carriage L1 capacity figure below to determine a load factor.

Then simply read off the life from the graph. For offset loads you will need to add the relevant load factors to determine the total.

Load Factor should not exceed 1.



Part number	Carriage capacity				
	L1(N)	L2(N)	Ms(Nm)	Mv(Nm)	M(Nm)
HCV20	435	685	4	19	12
HCV25	800	1500	9	56	30
HCV44	2800	4700	57	243	146
HCV76	10000	10000	360	990	900

$$\text{Load factor} = \frac{\text{Real load}}{\text{Carriage capacity}} = \frac{L1}{L1(\text{max})} + \frac{L2}{L2(\text{max})} + \frac{Ms}{Ms(\text{max})} + \frac{Mv}{Mv(\text{max})} + \frac{M}{M(\text{max})}$$

