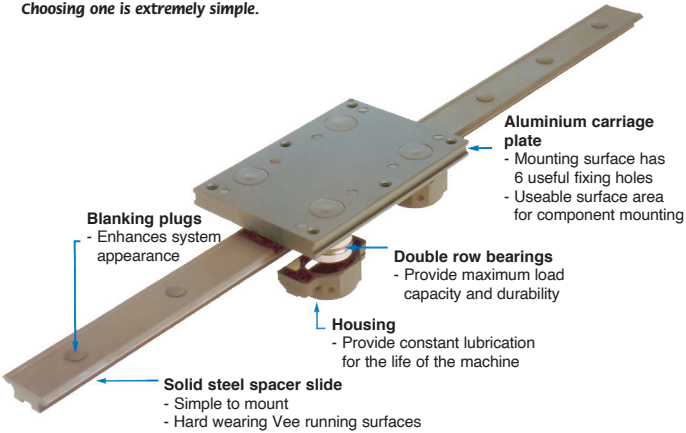
Introduction

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.

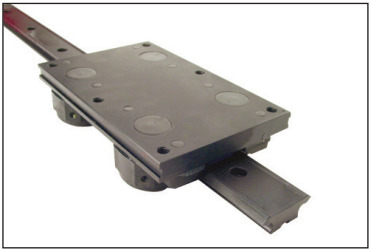
Choosing one is extremely simple.



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*

- ***Max. speed: 8 m/s***
- *Working temperature: -20°C to +60°C*
- *Lubrication: greased for life, further lubrication is not normally necessary unless a high duty cycle/speed is involved. In these cases lubrication with a NLGI grease (consistency No. 2) will suffice.*

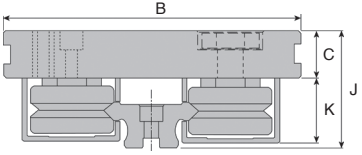


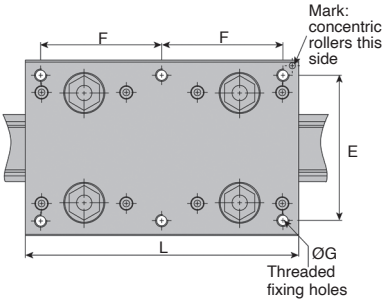
Materials

- ***Roller:*** *steel ring and balls AISI52100 hardened, high traction resistance blackened steel axle, plastic cage.*
- ***Plate:*** *black anodised high resistance aluminium alloy.*
- ***Plate and rail caps:*** *plastic*
- ***Cap seal***
  Body: Thermoplastic elastomer
  Inserts: Impact resistant plastic
  Wipers: Felt

Frictional resistance

- *Frictional resistance use 0.02 x Load (N) + Seal Friction (N)*



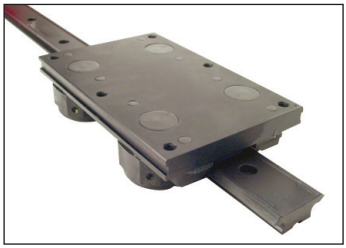


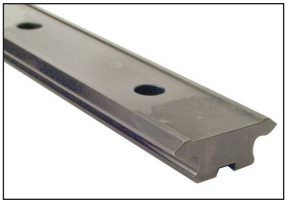
Part number	B	C	J	K	L	E	F	ØG	Joint and scraper friction (N)
HCV20	64	10,0	24,95	14,0	100	50	44	M5	4
HCV25	80	11,5	30,70	18,0	135	65	60	M6	7
HCV44	116	14,5	38,70	22,5	180	96	80	M8	15
HCV76	185	20,0	58,70	36,5	300	160	135	M10	28

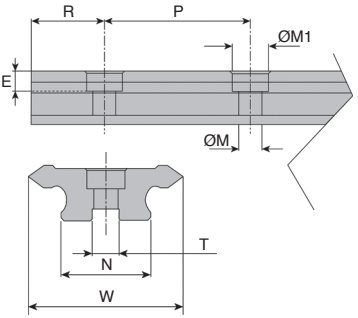
Dimensions in mm

- **Material: steel AISI52100 hardened to 58-62HRc**
- Rails delivered with black finish (blackened or equivalent)

Info
- When ordering, add the length of the rail to the part number.
- The carriage cannot be sold separately







DISCOUNTS

Qty	1+	2+	4+
Disc.	List	-15%	On request

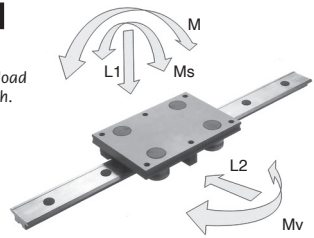
Part number	W	N	R	P	ØM	ØM1	E	T
HRV20	20	12,4	43	90	4,5	8	4,1	5 x 2,0
HRV25	25	15,4	43	90	5,5	10	5,1	6 x 2,5
HRV44	44	26,4	43	90	7,0	11	6,1	8 x 3,0
HRV76	76	50,4	88	180	14,0	20	12,0	15 x 5,0

		Price for					
Part number	With carriage	266mm	356mm	536mm	1076mm	1436mm	1976mm
HRV20	HCV20	393,80 €	411,48 €	446,84 €	645,39 €	623,52 €	729,62 €
HRV25	HCV25	497,86 €	447,16 €	571,05 €	614,23 €	823,00 €	823,05 €
HRV44	HCV44	536,38 €	566,88 €	627,92 €	947,38 €	933,20 €	1 116,30 €
HRV76	HCV76	-	-	923,95 €	1 148,41 €	1 298,01 €	1 522,48 €

Dimensions in mm

Calculating the life expectancy

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

$$\text{Load factor} = \frac{\text{Real load}}{\text{Carriage capacity}} = \frac{L1}{L1_{(max)}} + \frac{L2}{L2_{(max)}} + \frac{Ms}{Ms_{(max)}} + \frac{Mv}{Mv_{(max)}} + \frac{M}{M_{(max)}}$$