

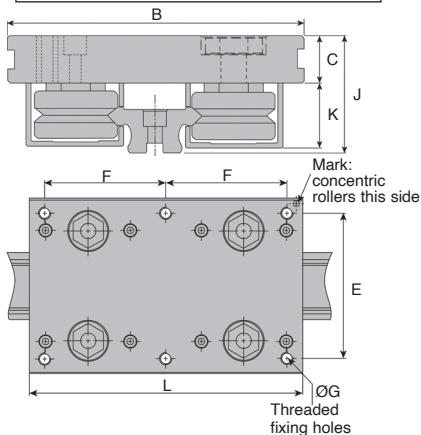
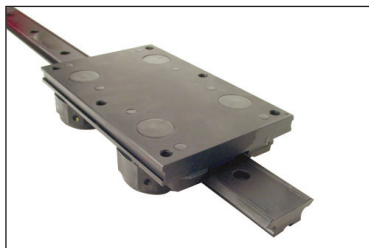
V- rail guidance system



HCV

Carriage and rail

- **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 $0.02 \times \text{Load (N)}$
+ Seal Friction (N)

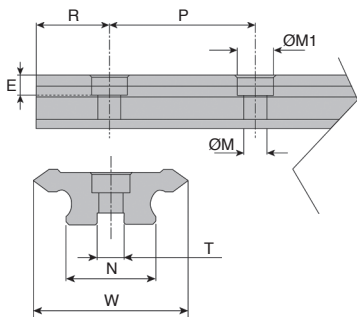
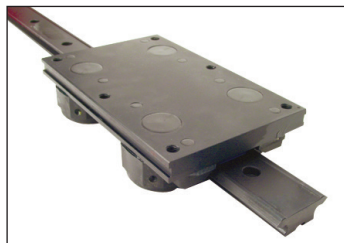
Part number	B	C	J	K	L	E	F	ØG	Joint and scraper friction (N)
HCV20	64	10,0	24,95	14,0	100	50	44	M5	4
HCV25	80	11,5	30,70	18,0	135	65	60	M6	7
HCV44	116	14,5	38,70	22,5	180	96	80	M8	15
HCV76	185	20,0	58,70	36,5	300	160	135	M10	28

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

Part number	With carriage	Price for					
		266mm	356mm	536mm	1076mm	1436mm	1976mm
HRV20	HCV20	347,82 €	363,43 €	394,66 €	488,30 €	550,71 €	644,42 €
HRV25	HCV25	376,53 €	394,95 €	431,85 €	542,51 €	616,28 €	726,94 €
HRV44	HCV44	473,75 €	500,68 €	554,60 €	716,36 €	824,23 €	985,95 €
HRV76	HCV76	-	-	816,06 €	1 014,31 €	1 146,44 €	1 344,70 €

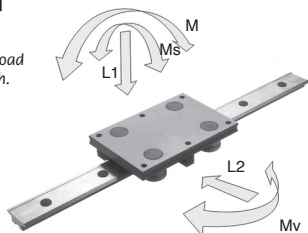
Dimensions in mm

V- rail guidance system

Capacity and expectancy life

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

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

