

The image features a red background with several dark grey HEPCO Simple Select vee slide linear guidance systems. Each system consists of a rectangular block with four circular indentations on its top surface, mounted on a V-shaped rail. The systems are arranged in a diagonal line from the top left towards the bottom right. The top system is partially assembled, showing the block on the rail. The middle system is fully assembled. The bottom system is also fully assembled. The lighting creates highlights on the edges of the components, emphasizing their metallic texture.

# HEPCO

Simple Select<sup>®</sup>

vee slide linear  
guidance systems

a range of  
assembled vee slide  
systems despatched in  
24 hours or less

simple to specify  
simple to order

Introducing

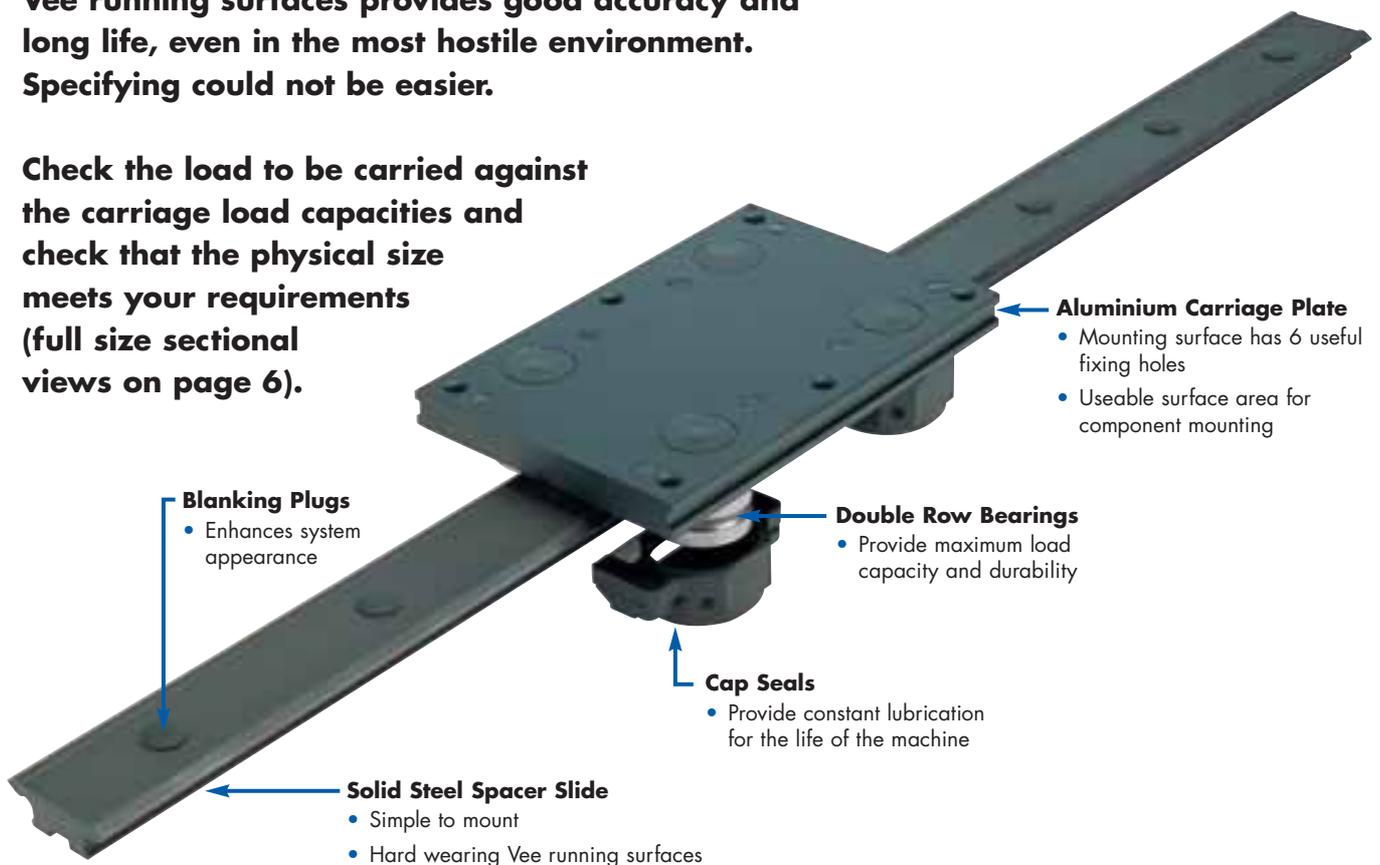
**Hepco** Simple Select®

## Vee Slide Linear Guidance Systems

Hepco Simple-Select® offers four useful sizes of spacer slides supplied in 24 hours or less complete with carriages assembled ready for installation.

All units are fitted with double row bearings and cap seals to ensure a long and trouble-free life. Our general purpose spacer slide precision cold drawn and hardened on the Vee running surfaces provides good accuracy and long life, even in the most hostile environment. Specifying could not be easier.

Check the load to be carried against the carriage load capacities and check that the physical size meets your requirements (full size sectional views on page 6).

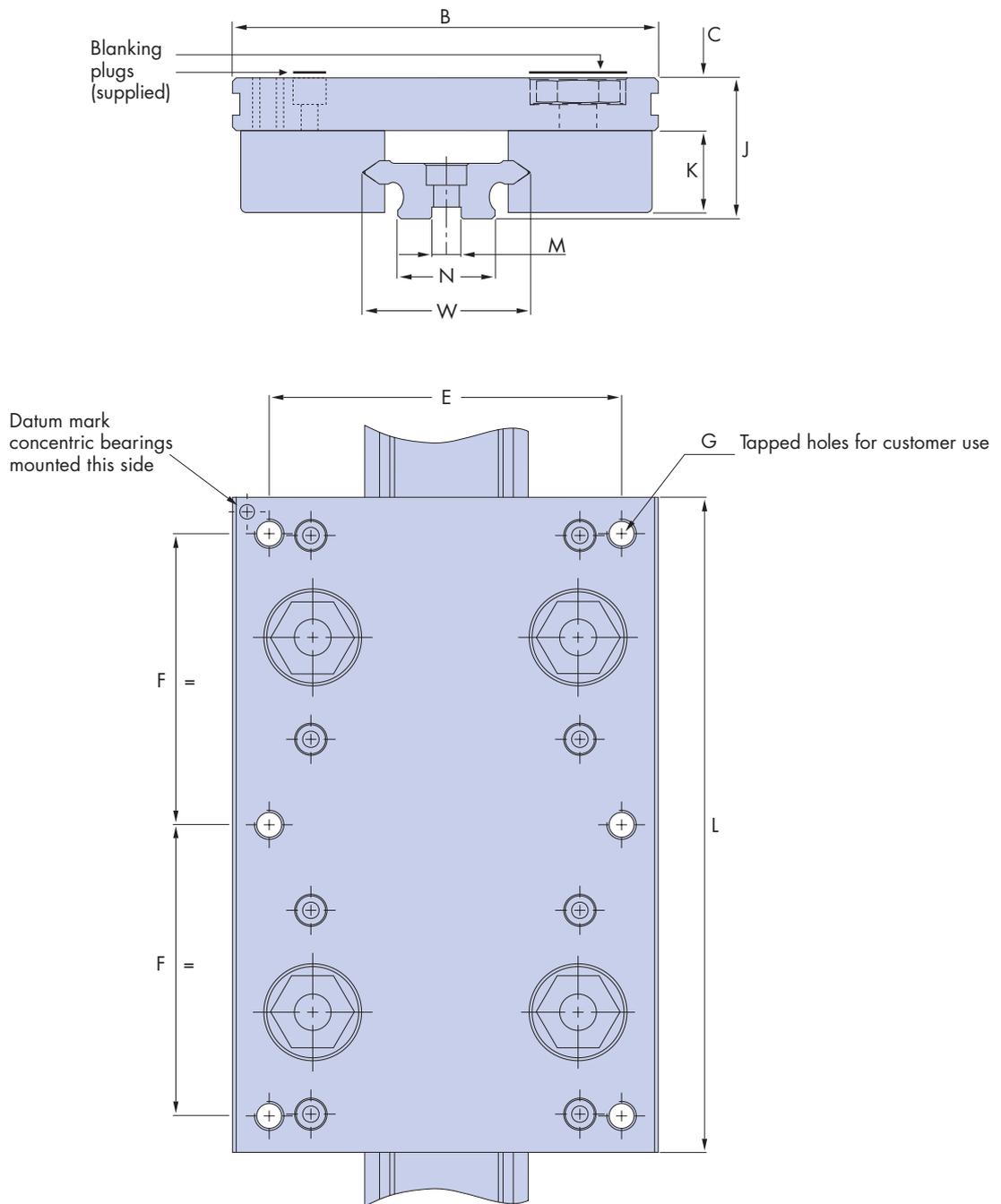


Simple Select®

### Benefits

- Select standard range of 4 popular sizes ready for despatch in 24 hours or sooner
- Utilises proven Hepco Vee Slide technology – ideal for high speed/short stroke movements
- Low installation time simply bolt slide down
- Can be fitted to unmachined surfaces if required
- System compliance – ideal for fitting to aluminium profiles
- Accurate drawn slide allows smooth low friction movement
- Double row bearings for long and trouble free life
- Fitted cap seals prevent dirt ingress and ensure constant positive lubrication
- Induction hardened Vee slide – low wear characteristics
- Quiet in operation

# Dimensional Data



Size	W	B	C	J	K	L	M	N	E	F	G
20	20	64	10	24.95	14	100	5 x 2	12.4	50	44	6 x M5
25	25	80	11.5	30.7	18	135	6 x 2.5	15.4	65	60	6 x M6
44	44	116	14.5	38.7	22.5	180	8 x 3	26.4	96	80	6 x M8
76	76	185	20	58.7	36.5	300	15 x 5	50.4	160	135	6 x M10

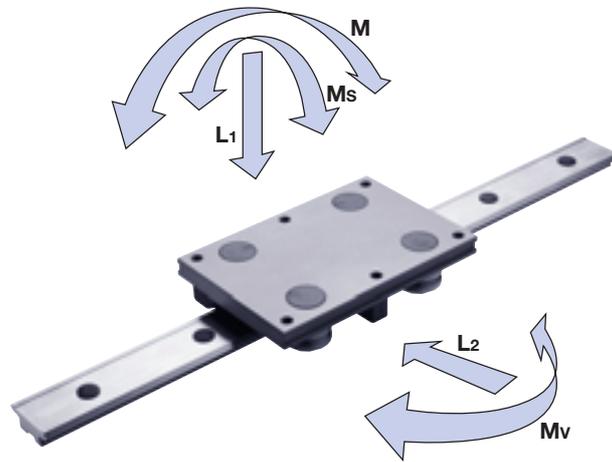
For a more extensive range of options please refer to our GV3 Catalogue

# Load/Life Data

Components used in the Simple-Select® range will provide the user with the best combination to achieve a long and trouble free life in clean or arduous environments. Fitted cap seals cover double row bearings and provide a reservoir for grease lubrication and to prevent dirt ingress. In most cases a single application of grease, which Hepco provide on assembly of the unit, will last for the life of the machine.

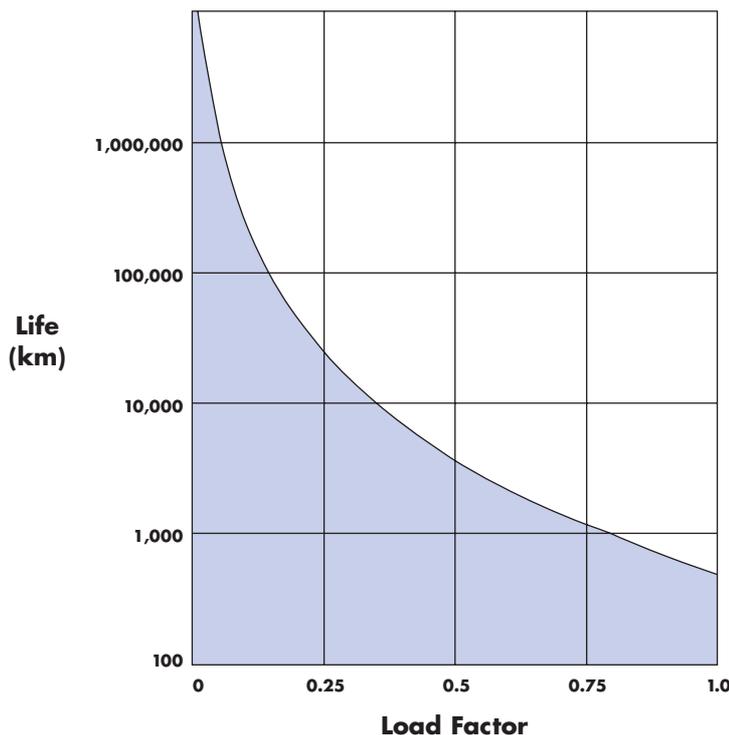
## Simple Life Check

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.



Size	Carriage Capacities				
	L1(N)	L2(N)	Ms(Nm)	Mv(Nm)	M(Nm)
20	435	685	4	19	12
25	800	1500	9	56	30
44	2800	4700	57	243	146
76	10000	10000	360	990	990

$$\text{Load Factor} = \frac{\text{Load Carried}}{\text{Carriage Capacity}} = \frac{L1}{L1_{(\max)}} + \frac{L2}{L2_{(\max)}} + \frac{Ms}{Ms_{(\max)}} + \frac{Mv}{Mv_{(\max)}} + \frac{M}{M_{(\max)}}$$



# Ordering Details

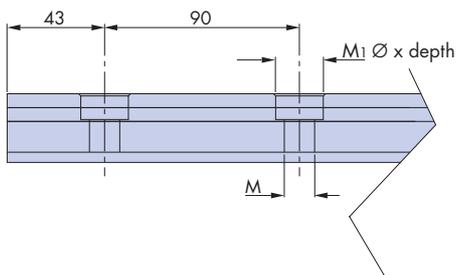
Available slide lengths from the Simple-Select® range are shown in the chart below:

Slide Size	Slide Lengths in mm										
	266	356	536	716	896	1076	1256	1436	1616	1796	1976
<b>20</b>	266	356	536	716	896	1076	1256	1436	1616	1796	1976
<b>25</b>	266	356	536	716	896	1076	1256	1436	1616	1796	1976
<b>44</b>	266	356	536	716	896	1076	1256	1436	1616	1796	1976
<b>76</b>	-	-	536	716	896	1076	1256	1436	1616	1796	1976

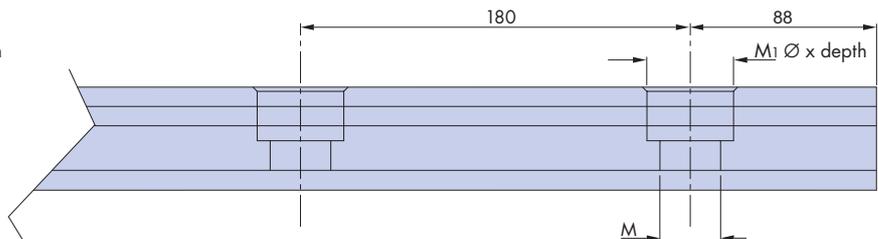
Other lengths available on request up to 4m (not Simple-Select® service).

## Slide Hole Centres

Sizes 20,25,44



Size 76



Size	M	M1
<b>20</b>	4.5	8 x 4.1
<b>25</b>	5.5	10 x 5.1
<b>44</b>	7	11 x 6.1

Size	M	M1
<b>76</b>	14	20 x 12

**To Order** – Simply specify slide size, number of fitted carriages and slide length

**Example**      **20**      **1**      -      **1076**

Slide Size \_\_\_\_\_

Number of fitted carriages \_\_\_\_\_

Slide Length (mm) \_\_\_\_\_

Units are supplied with carriages adjusted ready for mounting.

## Technical Specifications

### 'V' Slides

Material and Finish: High carbon bearing steel AISI 52100, hardened on 'V' faces to 58-62 Rockwell 'C' scale. Slide will be supplied with chemical black or similar finish.

### Bearings

Bearing Raceways and Balls: Carbon-chromium bearing steel AISI 52100, hardened and tempered.  
Shields: Steel with bright zinc plated finish, except size 18 which has nitrile rubber seals.  
Cage: Plastic.  
Studs: High Tensile Steel with tensile strength = 695 N/mm<sup>2</sup>. Chemical black finish.  
Temperature Range: -20°C to +120°C

### Carriage Plates

Material: High Strength Aluminium Alloy  
Finish: Black Anodised

### Carriage Plate & Slide Counterbore Plugs

Material: Plastic

### Cap Seals

Material: Body: Thermoplastic elastomer  
Inserts: Impact resistant plastic  
Wipers: Felt  
Temperature Range: -20°C to +60°C

### Frictional Resistance for 'V' Slide Systems

To determine frictional resistance use  $0.02 \times \text{Load (N)} + \text{Seal Friction (N)}$ .  
Seal friction figures: Size 20 = 4 N      Size 25 = 7 N  
Size 44 = 15 N      Size 76 = 28 N

### External Lubrication

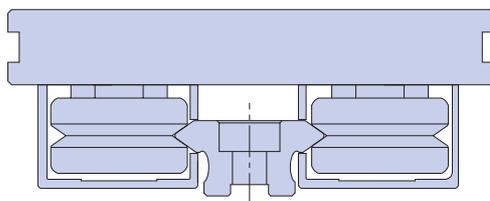
Cap Seals will be supplied lubricated, further lubrication is not normally necessary unless a high duty cycle/speed is involved. In these cases re-lubrication with a grease NLGI consistency No. 2 will suffice.

### Maximum Linear Speeds for 'V' Slides & Bearings.

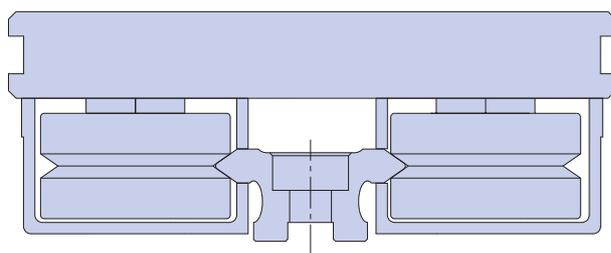
Lubricated 'V' Slides = 8 m/s

## Full Size Sectional Views

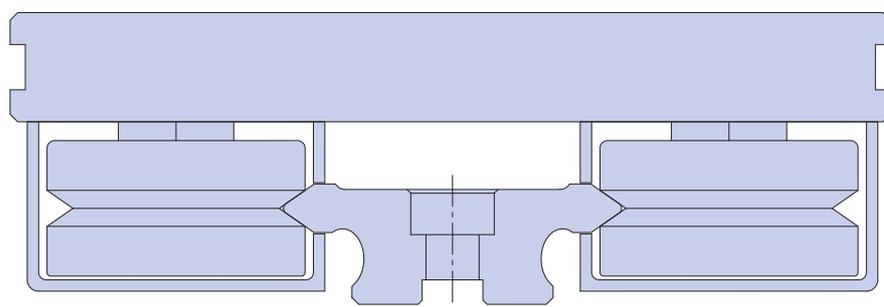
**Size 20**



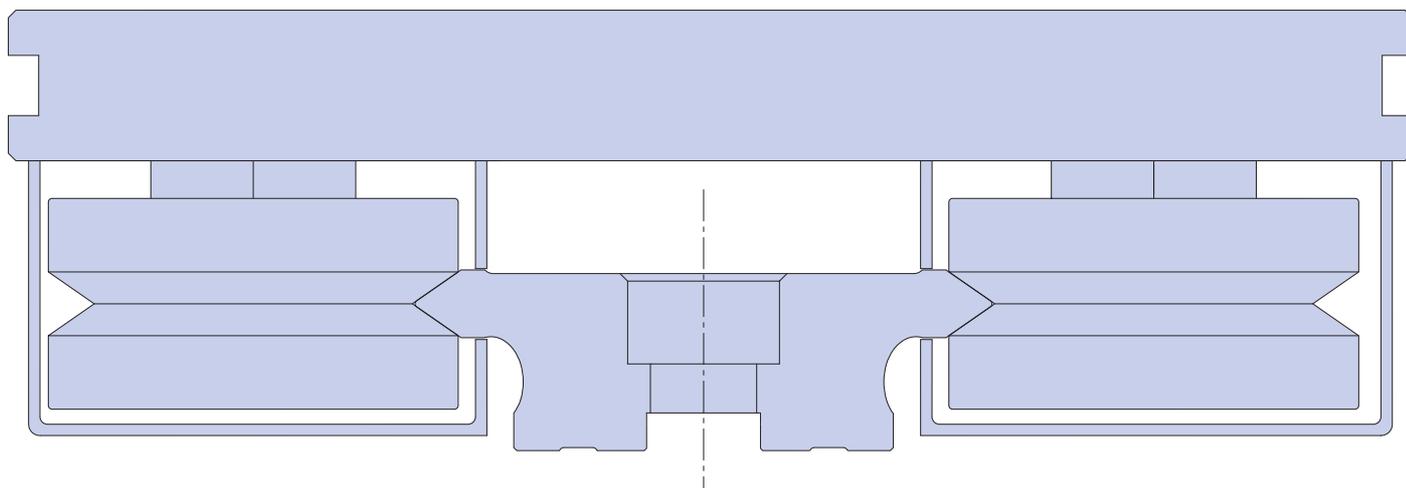
**Size 25**



**Size 44**



**Size 76**





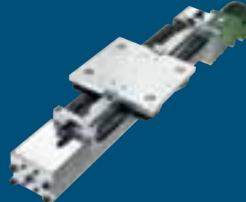
**GV3**



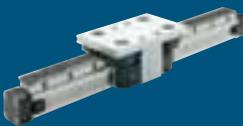
**HDS**



**RTS**



**HDLS**



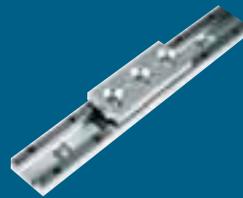
**HPS**



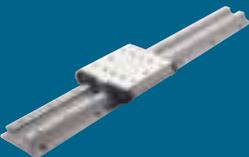
**SL2**



**DLS**



**Utilitrak**



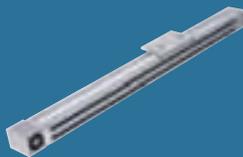
**LoPro**



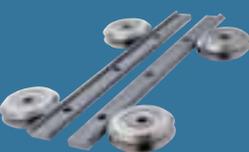
**FB**



**DTS**



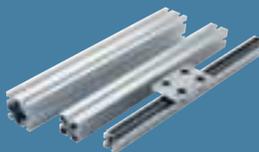
**PDU**



**Dual-Vee**



**SH**



**MCS**

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**HEPCO**

Guiding You Towards the Future

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**Simple Select®**

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