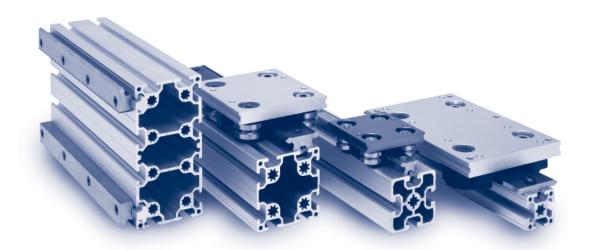
## **Profiles with Linear Guides**

### MCS Profiles with Linear Guides

### Hepco GV3 & SL2 Slide Systems mounted to MCS Profiles



MCS aluminium profiles are available fitted with Hepco Linear Slide Systems as complete ready to install units incorporating either carbon chrome GV3 slides or SL2 stainless steel slides. Slides with independent fixings are available for customers preferring self assembly.

The proven Hepco 'V' slide principle, with its one piece edge hardened steel slideway, is the ideal choice for motion guidance in frame construction systems.

Hepco Slide Systems are suitable for running with or without lubrication. Higher loads and longer life can be achieved if lubricated and various devices are available for this purpose. Customers may choose from a number of carriage lengths to provide various sizes of platform for mounting. Carriage plates are constructed in aluminium to minimise inertia.

### **Benefits**

- High load capacity with long life
- Easy to install and adjust
- Accepts load in all directions
- Tolerant of misalignment
- Quiet friction-free motion
- Works in any plane
- Tolerant of debris
- Little or no maintenance

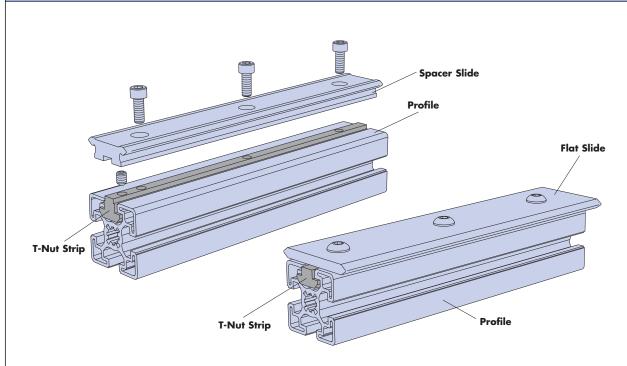
**GV3** 6 types of carriage cater for most design requirements and 3 grades of slide precision allows selection according to cost/performance requirements. Numerous sizes and options makes this the most versatile slide system available.

**SL2** is available in basic GV3 standard carriage format, with fine ground surface finish of stainless steel components for maximum corrosion resistance. Aluminium carriage with U.S.D.A approved surface treatment provides corrosion resistance better than most stainless steels.

Request the GV3+SL2 Request the GV3+5L2 catalogue (01884 257000) or download from the HepcoMotion website: www.HepcoMotion.com



## Method of attaching Slides to MCS Profiles



The method of fixing provides location of spacer slide and retention of fixing screw position in the event of disassembly.

## Selection Procedure



The information in this catalogue facilitates initial selection of the slide system and provides details of compatibility with MCS profiles. For comprehensive information, full load/life details and some ordering references, it will be necessary to also refer to the GV3 and SL2 catalogues.

### Stage 1



Select the type of carriage required from the various options illustrated on pages 56 and 57. Note the Slide types, Slide precision grades, Bearing types and Lubrication Devices generally available for each carriage type.

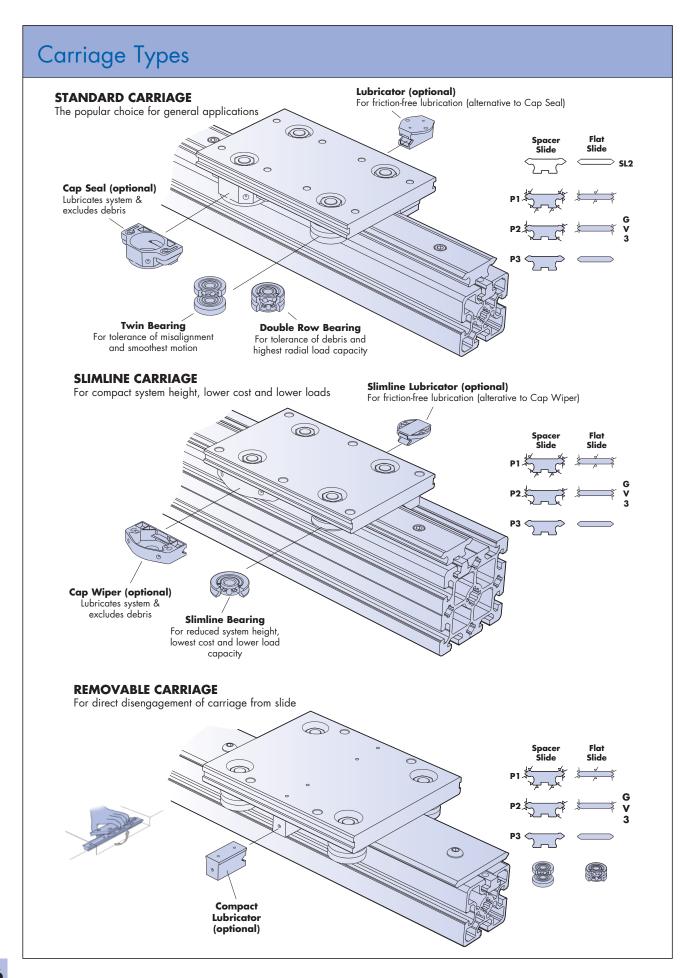
### Stage 2

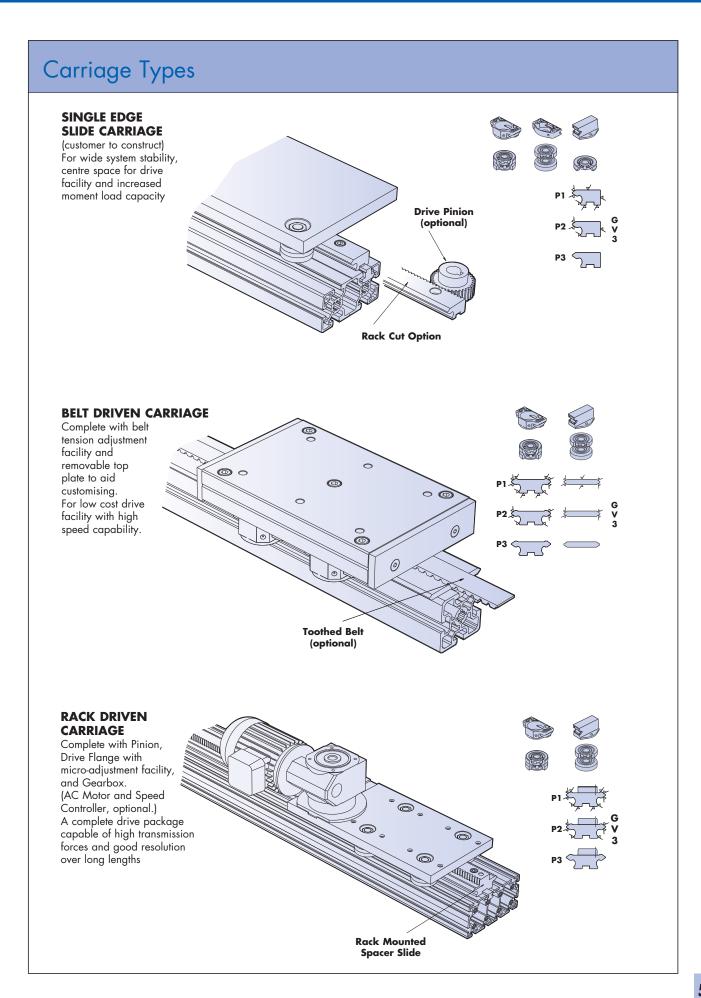
(Spacer Slides Ref. pages 58 & 59; Flat slides Ref. pages 60 & 61): Select the MCS profile required and choose a compatible slide taking account of the slide and bearing type for the chosen carriage, system dimensions, load requirements and specific availability of various options.

### Stage 3

Refer to ordering details on page 62.

## **Profiles with Linear Guides**





## **Profiles with Linear Guides**

# Spacer Slides with MCS Profiles LOAD L1 LOAD L2 J (Customer to specify) Twin or Double Row Bearing Slimline G (3 Lengths)<sup>(7)</sup> н $\bigoplus$ or 6 Customer **Mounting Holes** ☐ GV3 & SL2

### **Notes:**

- (1) Slide lengths are available to customers' requirements up to 3956mm. Unlimited lengths can be achieved by butting.
- (2) Hepco Rack Driven Carriage not available, but customers may construct their own using GV3 Pinion GV3 P45.
- (3) Carriage Plate to be constructed by customer.
- (4) Rack Driven Carriage is offset in relation to centre of slide. Length and configuration is to customers requirements GV3 P49.
- (5) All types of carriage with the exception of some sizes of Rack and Belt driven carriages (see table) are available to suit all sizes of double edge GV3 spacer slides.
- (6) NM76 & NL76 spacer slides can only be attached to the two centre most positions of the 160mm wide face of the  $80 \times 160$  profile.
- (7) Cap seals/cap wipers are not available for the shortest length carriages. Belt Driven Carriages are available in 2 lengths only GV3 P46-47.

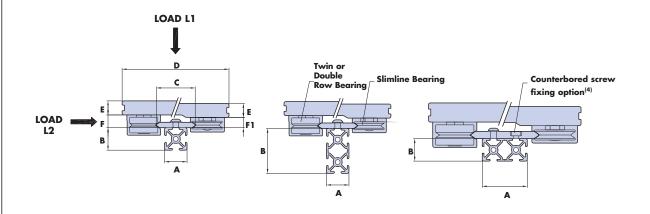
## Compatibility Table Spacer Slides with MCS Profiles

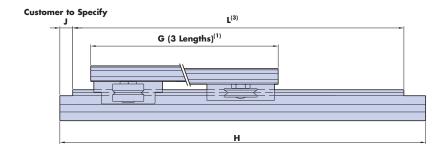
No.   No.		50			s	LIDE	PAF	RT NUMBER				(5) RACK DRIVE CARRIAGE AVAILBILITY								LOAD (C) LUBRICATED (NEWTONS)					
No		S	GV3 <	<del></del>	GV	GV3 S		GV3 S	SL2 🖳			✓	(5) BEL	6) BELT DRIVE CARRIAGE AVAILABILITY									Œ.		
100	Α	В		С			_			С	_	_	D	Е	~F	~F1	<b>G</b> <sup>(7)</sup>		L1	L2	L1	L2	L1	L2	
1			NV	20									64	10	15	14	65 100	140							
May   May		20			NV	20	R						(2)	(2)	15	-	(2)								
Note		40	NV	28									72	11	15	14	75 125	175	760	1200	500	400	400	480	
No.   See   No.   See   No.   No.	40	20			NV	28	R																		
No.								NVE							_										
NS			NV	28	ND/	00	_											175	700	4000		400	400	400	
No.   10   10   10   10   10   10   10   1					INV	28	К	NIVE											/60	1200	500	400	400	480	
SO			NS	25				INVE										180							
Second   S	30	30		20	NS	25	R							_	_	_		100	1600	3000	1280	1200	940	1150	
SO   SO   SO   SO   SO   SO   SO   SO									SSNS	25			80	11.5		-	80 130	180	1600	3000	960	960			
100   100	30	90	NS	35								1	95	12.5	19	17	100 150	200	1000	0000	1000	4000	040	1150	
March   Marc	60	30			NS	35	R						(2)	(2)	19	-	(2)		1600	3000	1280	1200	940	1150	
No.   1	90	30						NSE					(3)	(3)	19	17	(3)		1600	3000	1280	1200	940	1150	
No.   1			NM	44								1	116	_	_	21	125 180	225	3600	6000	3200	2800	2000	2400	
NV   28   NV   28   R					NM	44	R				1				_										
NV   28								NIE AT	SSNM	44					_			225		_			0000	0400	
No.   28   R			NIV/	20				NIVIE							_			175	3600	6000	3200	2800	2000	2400	
NS			INV	20	NIV	28	ь											1/5	760	1200	500	400	400	480	
NS   25   R			NS	25	147	20	-11											180							
No.   No.			-110		NS	25	R								_			100	1600	3000	1280	1200	940	1150	
40									SSNS	25			80	11.5		-	80 130	180	1600	3000	960	960			
No.   No.		80 40 80 160	NS	35								1	95	12.5	19	17	100 150	200							
80	40				NS	35	R						(2)	(2)	19	-	(2)								
80   80   100	40		NS	50								1	112	14	19	17	110 160	220	1600	3000	1280	1200	940	1150	
160   160	80				NS	50	R						(2)												
160   80								NSE															<u> </u>		
NM   60   NM   60   R   NM			NM	44			_				_	1						225	3600	6000	3200	2800	2000	2400	
NM   60   N   0   NM   60   R   NM   60   R   NM   NM   60   R   NM   NM   NM   NM   NM   NM   NM	160				NM	44	R		CONIM	44	/				_			005	0000	0000	2000	2000			
NM   60   R   NME   NM			NIM	60					SSINIVI	44		,							3600	6000	3000	3000			
No.   No.			INIVI	- 00	NM	60	R				1	•						200	3600	6000	3200	2800	2000	2400	
NN   76					1			NME			•								1			2000	2000		
No.   No.													(3)	(3)					10000	10000	7200	6400	4240	5200	
No.   No.			NM	76(6)								1	150	18	24	21	170 240	340	0000	0000	0000	0000	0000	0400	
NL   76   Rm   NL		80			NM	76	R <sup>(6)</sup>				1		(4)	18	24	-	(4)		3600	6000	3200	2800	2000	2400	
NL   76   R**	160		NL	76(6)									185	20	38.6	33.4	200 300	400	10000	10000	7200	6400	4240	5200	
NV   28   NV   28   NV   28   NV   28   NV   28   NV   28   R   NV   28   NV					NL	76	R <sup>(6)</sup>				1				_								12.10	0200	
NS   25   NS   25   R   NS									SSNL	76(6)									8000	10000	6000	6000			
NS   25   R   SSNS   25   80   11.5   19   17   80   135   180   1600   3000   1280   1200   940   1150			NV	28	NIV/	20	Р								_			1/5	760	1200	500	400	400	480	
NS   25   R			Nic	25	INV	28	К											180							
A5			110	23	NS	25	В											100	1600	3000	1280	1200	940	1150	
NS   35   NS   35   NS   NS   NS   NS   NS   NS   NS   N					1.75		.,		SSNS	25								180	1600	3000	960	960			
45   45   60   45   60   45   60   90   60   45   60   90   90   90   90   90   90   90			NS	35								/													
NS   SO   NS   SO   R     SO   NS   SO   R     SO   NS   SO   R     SO   SO   SO   SO   SO					NS	35	R								_										
60 0 90 90 90 90 90 90 90 90 90 90 90 90			NS	50								1	112	14	19	17	110 160	220	1600	3000	1280	1200	940	1150	
60 90 90		45 60			NS	50	R						(2)	(2)	19	-	(2)								
90 NM 44 R SSNM 44 116 14.5 24 - (4) 18 225 3600 6000 3200 2800 2000 2400								NSE																	
NM   44   H   SSNM   44   116   14.5   24   -   125   175   225   3600   6000   3000			NM	44		, .						1						225	3600	6000	3200	2800	2000	2400	
NM 60 R V 135 17 24 21 150 200 280 360 600 320 280 200 2400 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 7200 6400 4240 5200 1000 1000 1000 7200 6400 4240 5200 1000 1000 1000 1000 7200 6400 4240 5200 1000 1000 1000 7200 6400 4240 5200 1000 1000 1000 1000 1000 1000 100					NM	44	R		001114	,,	/							005							
NM   60   R   NME			NINA	60					SSNM	44		,			_				3600	6000	3000	3000			
NME			ININ	00	NIM	60	P				./	/						200	3600	6000	3200	2800	2000	2400	
NK   NK   NK   NK   NK   NK   NK   NK					I VIVI	00	11	NMF			•								3000	0000	0200	2000	2000	2400	
NM   76   NM   76   R     V   150   18   24   21   170   240   340   3600   6000   3200   2800   2000   2400																			10000	10000	7200	6400	4240	5200	
60   45   60   NL   76   R   V   (4)   18   24   - (4)   360   600   320   280   200   2400			NM	76								1						340							
60	00	45	<u> </u>		NM	76	R				1				_				3600	6000	3200	2800	2000	2400	
NL 76 R			NL	76									185	20	38.6	33.4	200 300	400	10000	10000	7000	0400	40.40	E000	
SSNL 76 185 20 38.6 - 200 300 400 8000 10000 6000 6000		60			NL	76	R				1		(4)	20	38.6		(4)		10000	10000	/200	0400	4240	5200	
									SSNL	76			185	20	38.6		200 300	400	8000	10000	6000	6000			

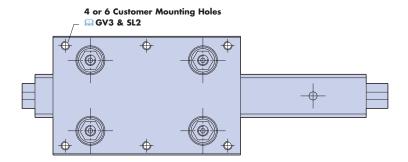
Slide hole centres and fixing screw sizes and types may vary from those specified in the GV3 & SL2 catalogues. There may also be additional and redundant holes.

## **Profiles with Linear Guides**

## Flat Slides with MCS Profiles







- (1) Cap seals/cap wipers are not available for the shortest length carriages. Belt Driven Carriages are available in 2 lengths only **GV3 P46-47**.
- (2) Standard, Slimline and Removable Carriages are available to suit all sizes of GV3 Flat slides. Some sizes of slide are also available to suit Belt Driven Carriages (see table). On special application, Flat Slides can be fitted with mounted Rack and supplied with Rack Driven Carriages.
- (3) Slide lengths are available to customers' requirements up to 3956mm. Unlimited lengths can be achieved by butting.
- (4) The counterbored screw fixing option with low head socket cap screws DIN 6912 will be supplied for double row slide fixing when used with slimline carriage.

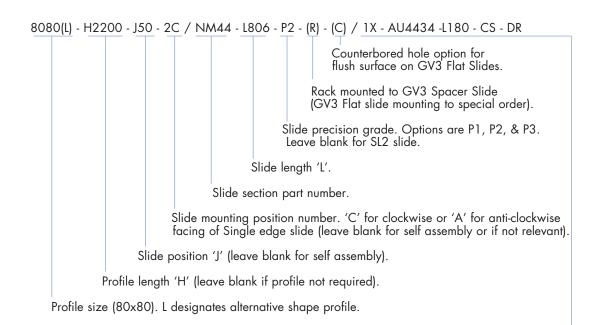
## Compatibility Table Flat Slides with MCS Profiles

	r a		E PAI	RT NUMBER					RADES O							<u> </u>			NAGE (2)	LOAD (C) LUBRICATED (NEWTONS)					
	S	GV3 <sup>(2)</sup>		SL2		X =	WILL NO NOT APP	T FIT	ADE SLI	DE ONLY			e					9	BELT DRIVEN CARRIAGE			8			
А	В		С		С	D	Е	~F	~F1		<b>G</b> <sup>(1)</sup>		1						BELT D	L1	L2	L1	L2	L1	L2
		٧	28			72	11	9	7.9	75	125	175	1	P3	P3	1	P3	1		760	1200	500	400	400	480
20 20	20 40	S	35			95	12.5	11.4	9.2	100	150	200	1	1	1	1	1	1	1	1600	3000	1280	1200	940	1150
				SSS	35	95	12.5	11.4	-	100	150	200	/	1	1	-	-	-		1600	3000	960	960	-	-
		М	44			116	14.5	14.6	11.4	125	180	225	1	1	P3	1	1	1	1	3600	6000	3280	2800	800	800
30	30			SSM	44	116	14.5	14.6	-	125	175	225	/	1	х	-	-	-		3600	6000	3000	3000	-	-
30 30	90	S	50			112	14	11.4	9.2	110	160	220	/	1	1	1	1	1	1	1600	3000	1280	1200	940	1150
				SSS	50	112	14	11.4	-	110	160	220	/	1	1	-	-	-		1600	3000	960	960	-	-
00		М	76			150	18	14.6	11.4	170	240	340	1	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
60	30			SSM	76	150	18	14.6	-	170	240	340	/	1	1	-	-	-		3600	6000	3000	3000	-	-
90	30	L	120			240	24	23.6	18.9	240	360	480	P3	P3	P3	P3	P3	P3		10000	10000	7200	6400	4240	5200
40	20	S	50			112	14	11.4	9.2	110	160	220	/	1	P3	1	P3	1	1	1600	3000	1280	1200	940	1150
40	20			SSS	50	112	14	11.4	-	110	160	220	/	1	Х	-	-	-		1600	3000	960	960	-	-
		S	50			112	14	11.4	9.2	110	160	220	/	1	P3	1	P3	1	1	1600	3000	1280	1200	940	1150
				SSS	50	112	14	11.4	-	110	160	220	/	1	х	-	-	-		1600	3000	960	960	-	-
		М	60			135	17	14.6	11.4	150	200	280	/	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
40	40			SSM	60	135	17	14.6	-	150	200	280	/	1	1	-	-	-		3600	6000	3000	3000	-	-
40	80	М	76			150	18	14.6	11.4	170	240	340	1	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
				SSM	76	150	18	14.6	-	170	240	340	1	1	1	-	-	-		3600	6000	3000	3000	-	-
		L	76			185	20	23.6	18.9	200	300	400	1	1	1	1	1	1		10000	10000	7200	6400	4240	5200
				SSL	76	185	20	23.6	-	200	300	400	1	1	1	-	-	1		8000	10000	6000	6000	-	-
		М	60			135	17	14.6	11.4	150	200	280	1	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
				SSM	60	135	17	14.6	-	150	200	280	1	1	1	-	-	-		3600	6000	3000	3000	-	-
45 45	45 60	М	76			150	18	14.6	11.4	170	240	340	1	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
45	90			SSM	76	150	18	14.6	-	170	240	340	1	1	1	-	-	-		3600	6000	3000	3000	-	-
		L	76			185	20	23.6	18.9	200	300	400	1	1	1	1	>	>		10000	10000	7200	6400	4240	5200
				SSL	76	185	20	23.6	-	200	300	400	1	1	1	-	-	-		8000	10000	6000	6000	-	-
		М	76			150	18	14.6	11.4	170	240	340	1	1	1	1	1	1	1	3600	6000	3200	2800	2000	2400
60	45			SSM	76	150	18	14.6	-	170	240	340	1	1	1	-	-	-		3600	6000	3000	3000	-	-
60	60	L	76			185	20	23.6	18.9	200	300	400	P3	P3	P3	P3	P3	P3		10000	10000	7200	6400	4240	5200
				SSL	76	185	20	23.6	-	200	300	400	/	1	1	-	-	-		8000	10000	6000	6000	-	-
80 80 80 90 90	40 80 160 45 90	L	120			240	24	23.6	18.9	240	360	480	P3	P3	P3	P3	P3	P3		10000	10000	7200	6400	4240	5200

Slide hole centres and fixing screw sizes and types may vary from those specified in the GV3 & SL2 catalogues. There may also be additional and redundant holes.

## **Profiles with Linear Guides**

## Ordering Details



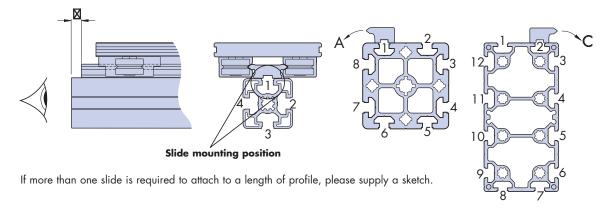
1x - AU4434 - L180 - CS - DR = Carriage reference (example only). Please specify from GV3 or SL2 catalogue according to following procedure:

### Carriage identification (GV3):

- 1. Refer to tables on relevant Carriage page of GV3 catalogue (Standard Carriage, Removable Carriage, Slimline Carrage, Belt Driven Carriage or Rack Driven Carriage). N.B The Single Edge Slide Carriage is for construction by the customer, therefore individual Bearings and Lubrication Devices etc. must be selected from the GV3 catalogue.
- 2. Read off the basic carriage part number in column 1, adjacent to the chosen slide part number in column 2.
- 3. Determine the full carriage part number to include the options required by following the Ordering Details below the table.

### Carriage Identification (SL2):

- 1. Refer to the table on Assembled Systems (see page 9 of the SL2 catalogue).
- 2. Identify the basic carriage part number in column 1 according to the chosen slide part number. The slide part number is the last five letters / numbers of the carriage part number.
- 3. Determine the full carriage part number to include the options required by following the Ordering Details below the table.



### MCS Profiles with Linear Guides

### **Hepco Powerslide 2 supported on MCS Profile Beams**



Request the MCS/HPS kequest the MCS/HPS
catalogue & Mounting
ocument (01884 257000)
or download from the
HepcoMotion website:
www.HepcoMotion.com



High-speed, maintenance free performance are the key benefits of Hepco's Powerslide 2, with ex-stock availability and standard lengths up to 6m.

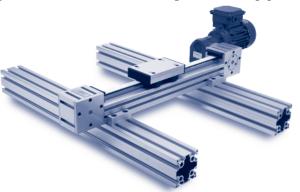
The **HPS** range of pneumatic linear systems is based around an extruded aluminium cylinder ideal for mounting to MCS. With the optional addition of Hepco SH shock absorbers high speed, long life systems can be achieved.

Mounting to MCS profiles whether by the end caps or tailored connectors could not be easier. For further details please contact Hepco's Technical Sales Team.

### **Benefits**

- Self supporting Long life 10 size combinations High load Easy installation
- Corrosion resistant options

### Hepco Driven Linear System supported on MCS profile beams



Request the MCS/DLS catalogue & Mounting document (01884 257000) or download from the HepcoMotion website: ww.HepcoMotion.com



New fixing options are available in the MCS range allowing specifiers to take advantage of the ready to mount high speed Driven Linear System.

Ideal for simple linear or multi-axis systems, DLS incorporates all of the Hepco V-guide benefits of zero maintenance and environmental tolerance, but combines them with a robust belt drive producing speeds of up to 6m/s and standard lengths up to 8m.

A range of mounting options are available to enable easy connection to MCS profiles which, due to their interchangeability with other profiles, makes this the ideal system for retro-fitting machine elements.

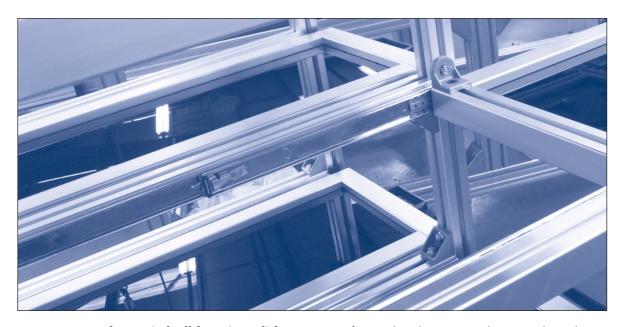
### **Benefits**

- Long system life Low maintenance High speed Quiet operation
- Easy secondary machining
   Robust AC motor system

## **Profiles with Linear Guides**

### MCS Profiles with Linear Guides

### Hepco HTS Telescopic Ball Bearing Slides mounted to MCS profiles



Hepco HTS telescopic ball bearing slides are manufactured under strict quality control conditions backed by ISO 9002 certification using the highest quality materials and up to date manufacturing processes. These high quality slides are quiet, rigid under extended loads and due to the superior construction offer excellent smooth motion and low friction characteristics across the complete travel length.

Hepco's Telescopic slides are an ideal partner with MCS aluminium profile sections enabling simple yet rigid drawers, printer tables, circuit board packs etc to be designed into any Hepco MCS frame available. Mounting of the slides is simple utilising Hepco's range of anti rotation T-Nuts.

### **Features and Benefits**

- 5 basic ranges from light to heavy duty up to 280kg/pair
- Range of options available, lock out, lever disconnect etc.
- Standard ranges available from stock
- Rigid member ball bearing slide structure maintains smooth motion over entire travel
- High static capacity from rigid structure with minimal deflection
- Quality cold rolled steel members with slotted mounting holes for quick installation
- Exceptional accuracy from precision pressed slide rails
- 3 member slide series for higher capacity in narrow space

catalogue (01884 257000) or download from the HepcoMotion website:

