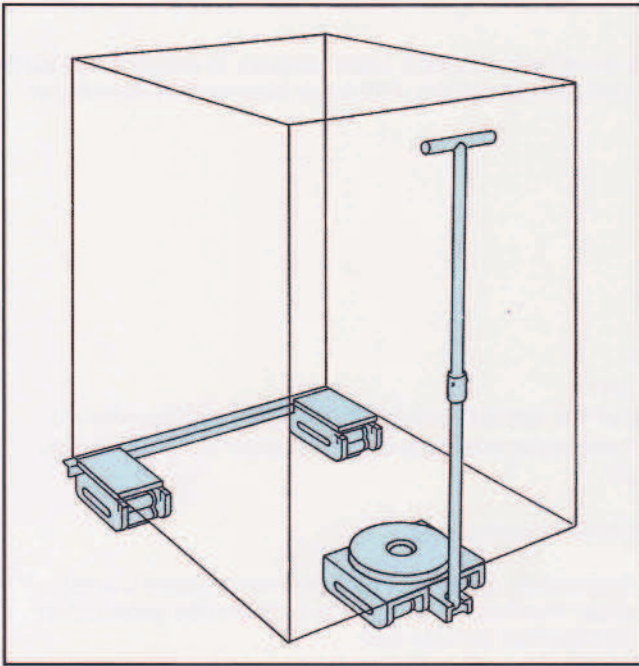


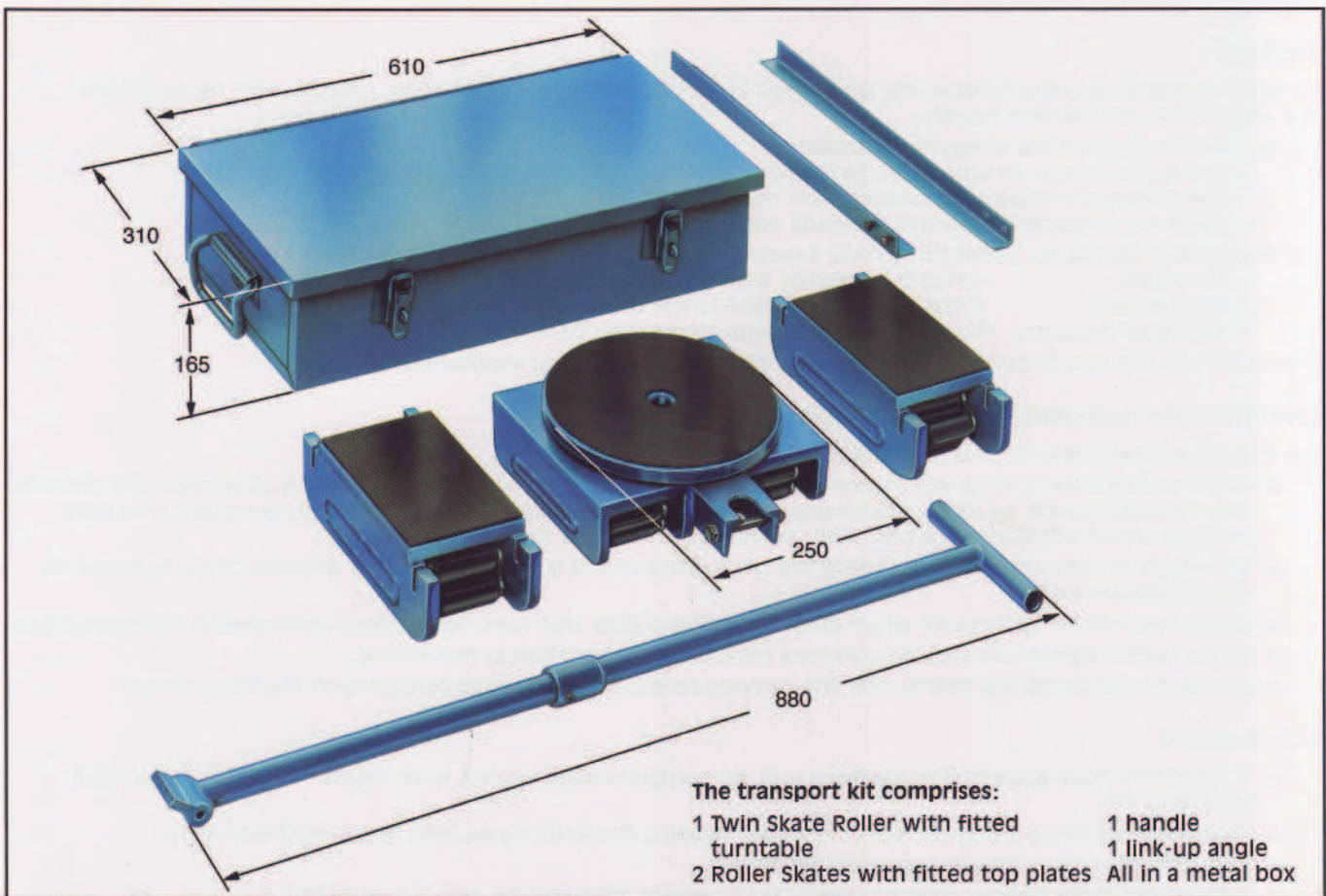
For variable transportation

## Roller Skate – The Robusts – Complete Transport Kit



### Range of application:

- With the Hercules you do not have to waste time in assembling the unit, and the low level contributes to safer working conditions.
- The Hercules makes it easier and safer to move heavy loads. 24 and 30 mm diameter rollers in the chain are available. This turntable is larger than the one in the Transport Kit N.
- For larger loads we recommend the use of a second twin Skate Roller with turntable in the front, and two normal skates as stabilisers at the back.



### Mod. Hercules

Mod.	Rollers Ø Twin	Rollers Ø Single	Length support	Width support	Total height	Swivel-pl. Ø	Max. load kN	Weight of set			
Hercules	30	24	200	130	110	250	350	68			

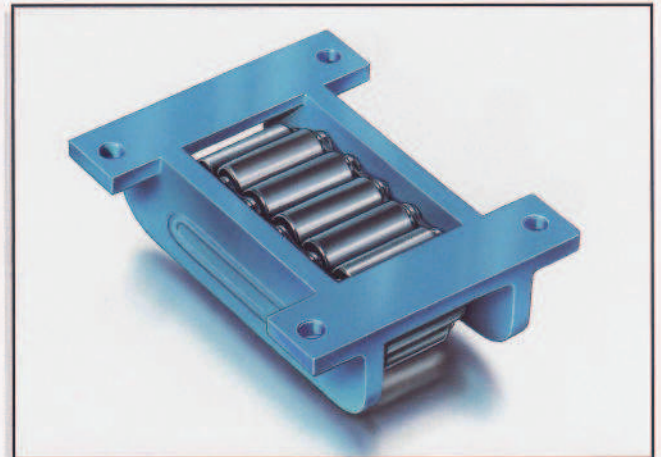
All dimensions in mm



## Roller Skate Express – The Robusts

### Range of application:

- For short distances.
- If possible on suitable tracks, e.g. crane rails or steel beams.
- Movement of heavy loads in mining, steel industry, machine construction, bridge construction and other heavy industrial plants.
- Use as a conveyor, when the load is moving and the Roller Skates are fixed.
- Low level construction overcomes problems in confined space.

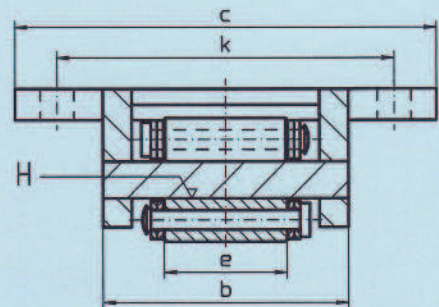
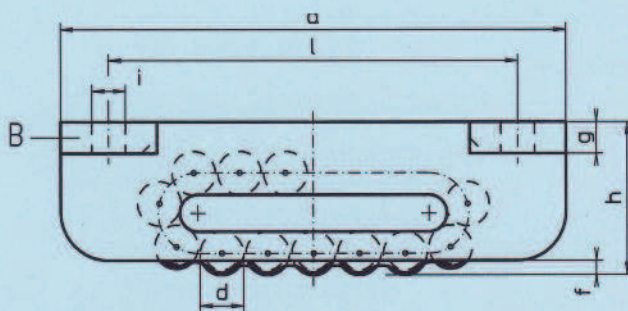


### Characteristics of the series of model...B:

- Stable, solid basic construction.
- Low level is achieved by recessing the mounting plates into side walls. Model... B and ... C are the same height.
- More stability by firmly bolting the Skates to the load.
- Available with hardened centre plate (= models B-H) or additionally with higher tensile roller material 50CrV4 (= SAE 6150) (= models B-H-50CrV4).

### Hints on use:

- If the Rollers are being used to their maximum carrying capacity or with lengthy intervals between use choose models with a hardened centre plate (= model B-H).
- In case of possible overload, choose chain roller material 50CrV4 (B.S. 735 A 50; SAE 6150) (= models B-H-50CrV4).
- Maximum speed: 5 m/min.
- The rolling resistance depends on the track. For smaller models I-IIIv 7-5 %, for larger models 5-3 % of the total load.
- Can be arranged with guide rollers (see drawing 11+12).



Mod. B, B-H (H = hardened and machined centre plate), B-H-50CrV4 (roller material 50CrV4)

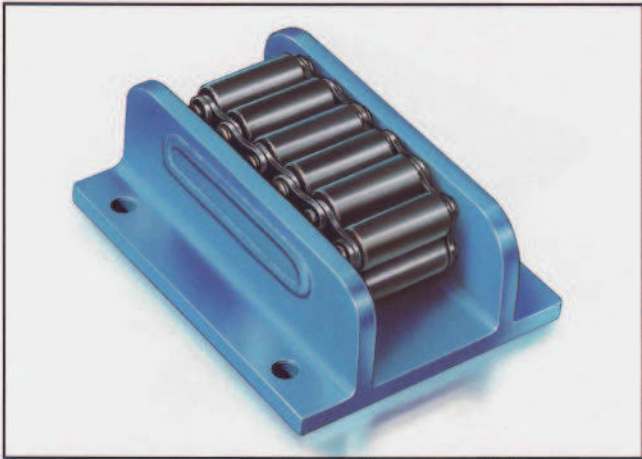
Mod.	a	b	c	∅ d	e	f	g	h	∅ i	k	l	Rollers under stress	Number of Rollers	Maximum load kN	Weight kg
I	210	100	175	18	51	6	13	63	14	140	170	5	15	100	6.2
II	220	113	190	24	60	10	14	73	14	155	180	4	13	150	8.4
III	270	130	210	30	68	10	14	90	18	175	220	4	13	300	14.1
IV	380	168	270	42	76	19	19	126	22	220	320	4	13	600	36.5
V	530	182	300	50	86	19	19	146	22	240	470	6	17	800	66.4

All Dimensions in mm



**For bad working conditions / short distance**

## Roller Skate Express – The Robusts



### Hints on use:

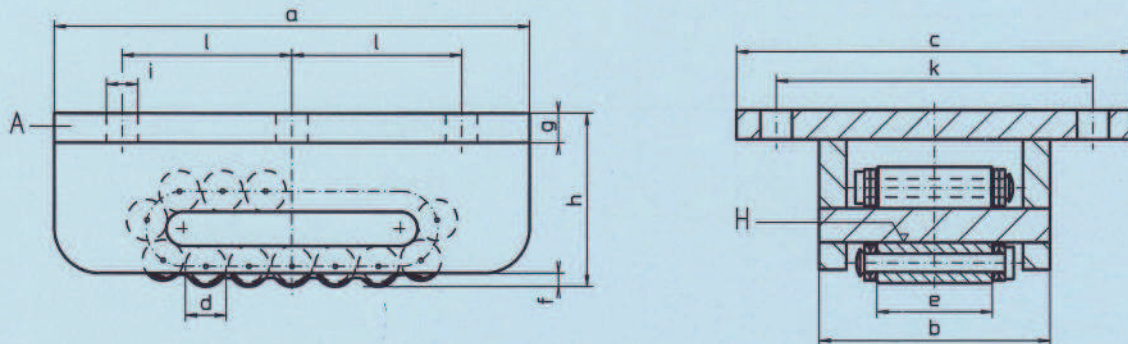
- Models I-IIIv have 4 bolt holes as standard.
- If the Rollers are being used to their maximum carrying capacity or with lengthy intervals between use choose models with a hardened centre plate (= model A-H).
- In case of possible overload, choose chain roller material 50CrV4 (B.S. 735 A 50; SAE 6150) (= models A-H-50CrV4).
- Maximum speed: 5 m/min.
- The rolling resistance depends on the track.  
For smaller models I-IIIv 7-5 %, for larger models 5-3 % of the total load.
- Can be arranged with guide rollers (see drawing 11+12).
- Location of the fixing holes can be arranged to suit customers' requirements.
- Optional in galvanised or stainless steel construction.

### Range of application:

- For short distances.
- If possible on suitable tracks, e.g. crane rails or steel beams.
- Movement of heavy loads in mining, steel industry, machine construction, bridge construction and the ship building industry.
- Use as a conveyor, when the load is moving and the Roller Skates are fixed.
- Often used on construction sites.

### Characteristics of the series of model...A:

- Robust construction.
- Low level construction with higher carrying capacity, exchangeable in outer dimensions with models ...AS+ ...AM.
- More stability achieved if load is firmly bolted to Roller Skate.
- Available with hardened centre plate (= models A-H) or additionally with higher tensile roller material 50CrV4 (= SAE 6150) (= models A-H-50CrV4).



**Mod. A, A-H** (H = hardened and machined centre plate), **A-H-50CrV4** (roller material 50CrV4)

Mod.	a	b	c	Ø d	e	f	g	h	Ø i	k	l	Rollers under stress	Number of Rollers	Maximum load kN	Weight kg
I	210	100	175	18	51	6	13	76	14	140	75	5	15	150	8.9
II	220	113	190	24	60	10	14	87	14	155	75	4	13	200	11.7
III	270	130	210	30	68	10	14	104	18	175	95	4	13	400	19.3
IIIv	320	140	220	30	68	10	18	115	18	180	120	6	17	500	29.0
IV	380	168	270	42	76	19	19	145	22	220	140	4	13	650	51.0
V	530	182	300	50	86	19	19	165	22	240	205	6	17	850	92.0

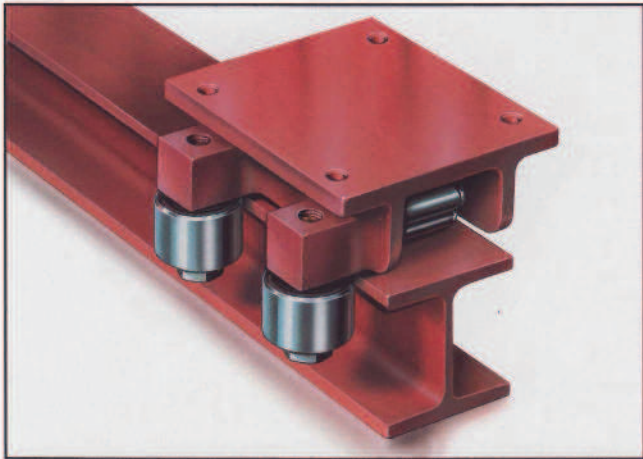
All dimensions in mm



**Accessory: lateral guide roller**

**For permanent loads / longer distances**

## Roller Skate – The Robusts and The Super-Robusts



### Hints on use:

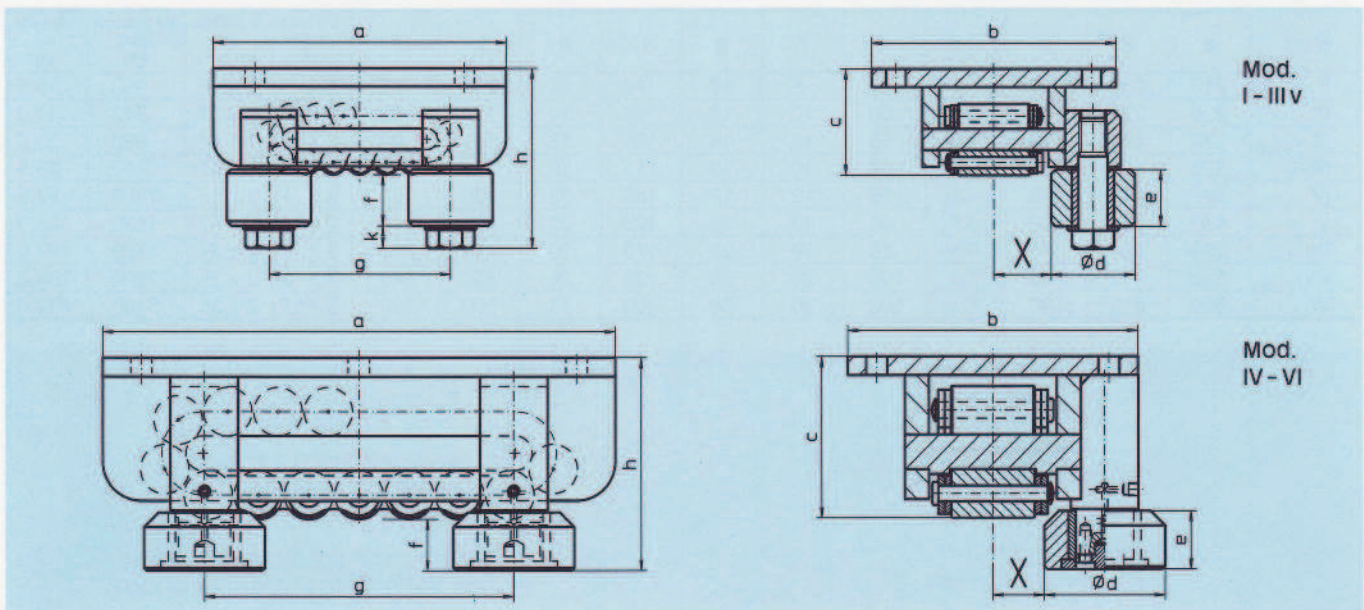
- To select suitable Skate – determine details of the rail track or determine dimension 'X', where dimension 'X' is the distance between the inner edge of guide rollers and the centre of the Roller Skate.
- To select suitable arrangement of guide roller(s):
  - If parallelism of beams or rails is uncertain, it is advisable to locate the guide roller on one profile edge only and then employ 4 guide rollers on each Skate (FR-E);
  - If parallelism is assured it is sufficient to use 2 guide rollers on each Skate (FR-C), bearing on both tracks.

### Range of application:

- For longer distances and repeat journeys with permanent loads.
- On suitable tracks such as crane rails or steel beams.
- Numbers and arrangement of the guide rollers according to drawing 11+12.

### Characteristics of the guide rollers ... FR:

- Robust, almost maintenance free; welded construction able to maintain a defined direction.
- Made to measure according to customers' requirements and/or the specific track.
- Minimum specification for Skates: hardened centre plate.
- If lateral guide rollers cannot be mounted due to space limitations, the use of lead rollers, mounted in front of (or behind) the Skate to suit the particular rail is recommended (see photo page 22).
- Position of fixing holes in top plate of Skate can be arranged to suit customers' requirement.
- If the hexagonal head of small guide roller spindle for model I-IIIv creates space problems, construction can be modified.
- For model IIIv there is also the option of large guide roller(s).
- Maximum speed: 5 m/min.



### Mod. A-H-FR-, AS-H-FR-, AM-H-FR-

Mod.	a	b	c	Ød	e	f	g	h	k	X min.	X max.	Admissible Radial Force per Guide Roller
I	210	175	76	60	40	36	130	128	16	35	80	10
II	220	190	87	60	40	32	140	135	16	42	90	10
III	270	210	104	60	40	32	180	152	16	50	110	10
IIIv	320	220	115	60	40	32	230	163	16	55	115	10
IV	380	270	145	125	60	50	160	195	–	45	150	100
V	530	300	165	125	60	50	280	215	–	50	160	100
VL	580	300	170	125	60	50	340	220	–	50	160	100
Vv	650	350	190	170	60	50	340	240	–	50	170	150
VI	900	380	200	170	60	50	550	250	–	50	170	150

All dimensions in mm



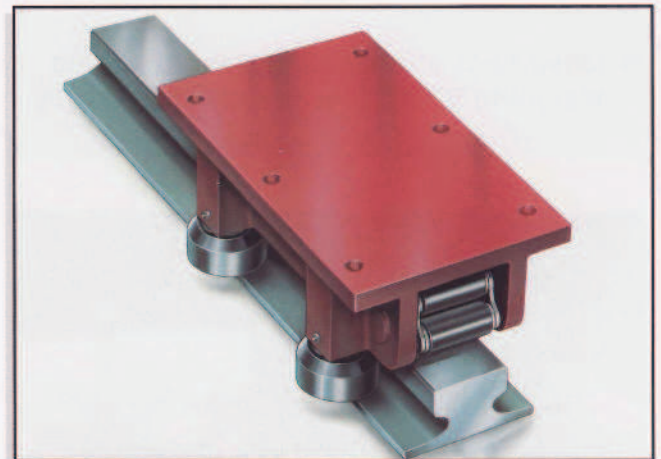
# Roller Skate – The Robusts and The Super-Robusts

## Range of application:

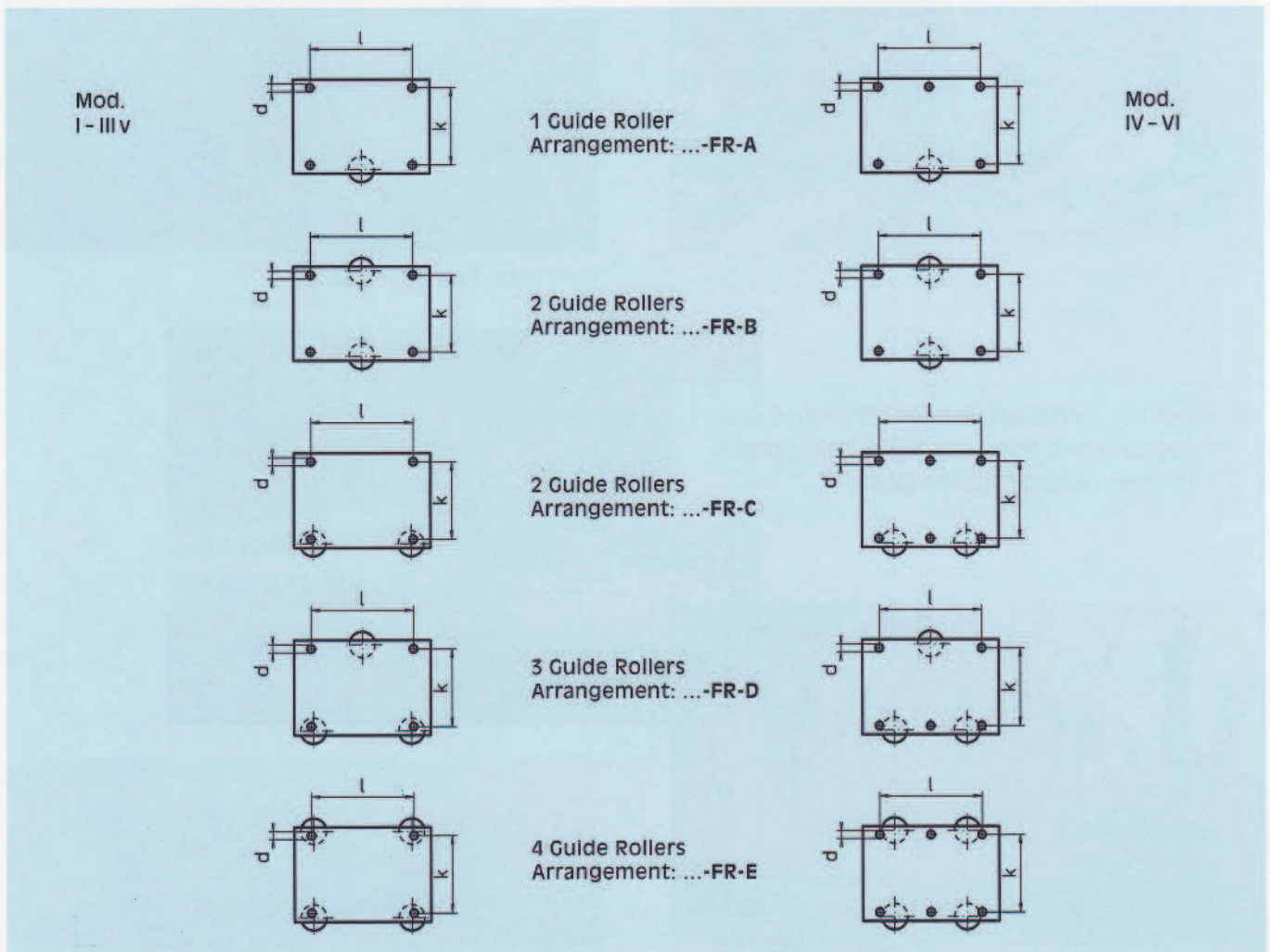
- For longer distances and repeat journeys with permanent loads.
- On suitable tracks such as crane rails or steel beams.
- Numbers and arrangement of the guide rollers according to drawing 11+12.

## Hints on use:

- To select suitable arrangement of guide roller(s):
  - If parallelism of beams or rails is uncertain, it is advisable to locate the guide roller on one profile edge only and then employ 4 guide rollers on each Skate (FR-E);
  - If parallelism is assured it is sufficient to use 2 guide rollers on each Skate (FR-C), bearing on both tracks.
- If lateral guide rollers cannot be mounted due to space limitations, the use of lead rollers, mounted in front of (or behind) the Skate to suit the particular rail profile is recommended (see photo page 22).



- Position of fixing holes in top plate of Skate can be arranged to suit customers' requirement.



## Mod. A-H-FR-, AS-H-FR-, AM-H-FR-

Mod.	I	II	III	IIIv		IV	V	VL	Vv	VI	Mod.
Ø d	14	14	18	18		22	22	26	26	33	Ø d
k	140	155	175	180		220	240	250	280	300	k
l	150	150	190	240		280	410	500	480	720	l

All dimensions in mm