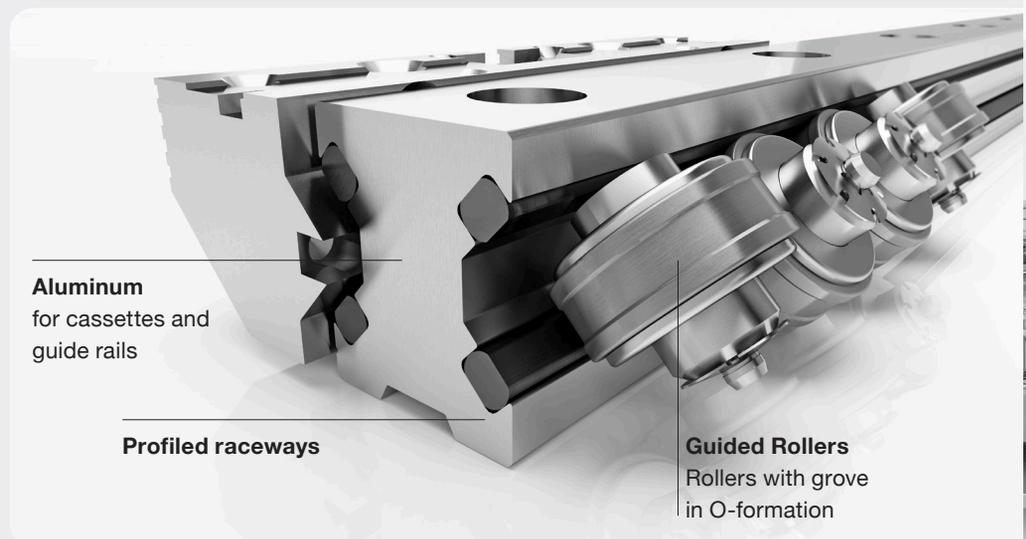


# Low Weight as well as smooth and easy running

Franke Aluminum Linear Systems are the best solution when it comes to speed and lightweight construction. The design principle of Franke Linear Systems makes them highly dynamic, quiet and maintenance-free. Franke Linear Systems can be modified individually to suit customer needs, thanks to their modular structure.

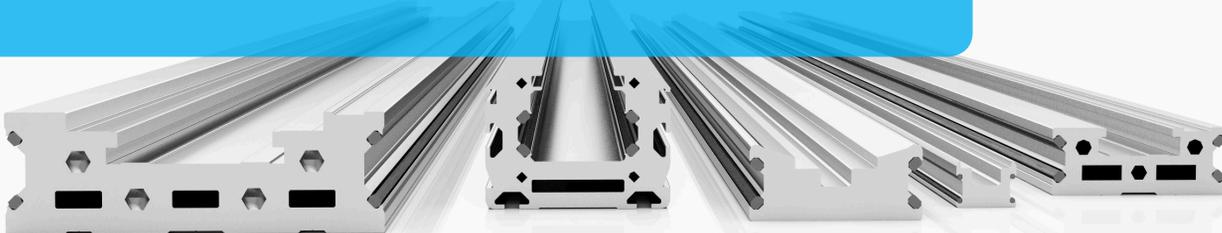
Franke Linear Systems can be modified individually to suit customer needs, thanks to their modular structure. You will always receive a solution that is ideally tailored to match your specific applications due to the use of various rail profiles and roller shoes, special cassettes, variable track widths or an integrated direct drive.

- Lightweight designs
- Homogeneous material properties in assemblies with aluminium profiles
- Low moved masses
- Low drive energy required
- High dynamism and speed



## Customer-specific rail profile

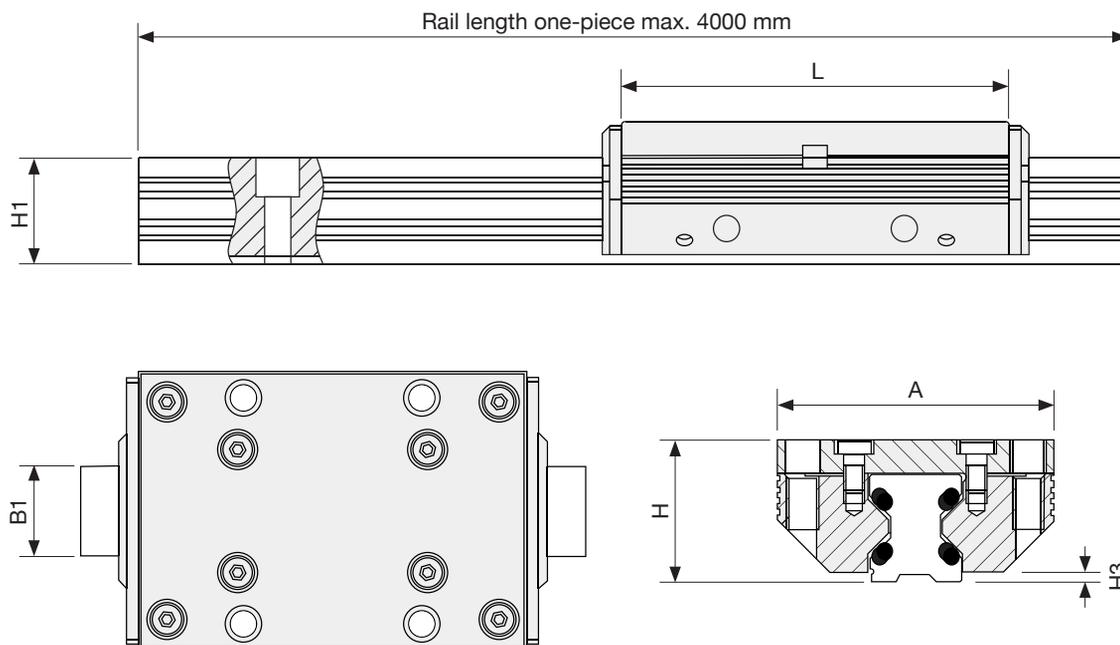
The Franke principle of inserted raceways can be transferred to almost any aluminium profile. This enables you to structure your design individually..



# Linear Guides

## Type FD

### Double Rail / Cassette



#### Dimensions

Size	Dimensions mm						Available Types
	A	B1	H	H1	H3	L	
12	37	12,0	19	14,7	1,4	64	FDA, FDB, FDC, - , FDE, FDG, -
15	47	15,5	24	18,7	2,0	78	FDA, FDB, FDC, - , FDE, FDG, -
20	63	21,0	30	22,6	2,0	92	FDA, FDB, FDC, - , FDE, FDG, -
25	70	23,0	36	27,0	2,5	98	FDA, FDB, FDC, FDD, FDE, FDG, FDH
35	100	32,0	48	37,0	3,5	135	FDA, FDB, FDC, - , FDE, FDG, FDH
45	120	45,0	60	46,0	4,0	165	FDA, FDB, FDC, - , FDE, FDG, FDH

#### Characteristics

Franke Aluminum Linear Systems are the best solution when it comes to speed and lightweight construction. The design principle of Franke Linear Systems makes them highly dynamic, quiet and maintenance-free. Franke Linear Systems can be modified individually to suit customer needs, thanks to their modular structure. The slide resistance of the cassettes can be adjusted individually. The guide rails are available in one piece up to 4000mm and can coupled to endless stroke lengths.

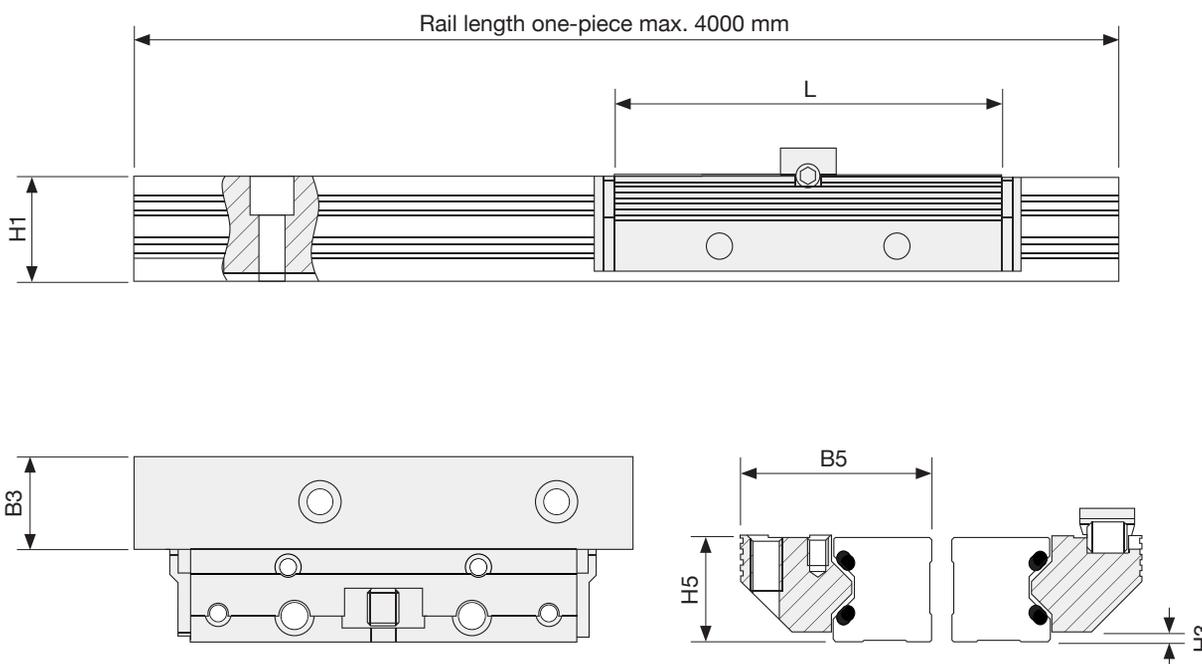
#### Technical Details

<b>Material</b>	Cassette plate, roller shoes and rail body: Aluminum; Rollers and raceways according to type: steel, non-corrosive steel, magmn. steel
<b>Temperature in use</b>	-10 °C to +80 °C
<b>Vmax</b>	10 m/s
<b>Mounting position</b>	any
<b>Lubrication</b>	lifetime lubricaton, maintenance-free

# Linear Guides

## Type FD

### Pair of Single Rails / Pair of Roller Shoes



#### Dimensions

Size	Dimensions mm					L	Available Types
	B3	B5	H1	H3	H5		
12	12,00	24,4	14,7	1,4	15,0	64	FDA, FDB, FDC, - , FDE, FDG, -
15	15,25	30,9	18,7	2,0	19,0	78	FDA, FDB, FDC, - , FDE, FDG, -
20	20,00	40,9	22,6	2,0	23,0	92	FDA, FDB, FDC, - , FDE, FDG, -
25	25,00	48,4	27,0	2,5	27,5	98	FDA, FDB, FDC, FDD, FDE, FDG, FDH
35	35,00	68,9	37,0	3,5	37,5	135	FDA, FDB, FDC, - , FDE, FDG, FDH
45	45,00	82,4	46,0	4,0	46,5	165	FDA, FDB, FDC, - , FDE, FDG, FDH

#### Characteristics

Franke Aluminum Linear Systems are the best solution when it comes to speed and lightweight construction. The design principle of Franke Linear Systems makes them highly dynamic, quiet and maintenance-free. Franke Linear Systems can be modified individually to suit customer needs, thanks to their modular structure. The slide resistance of the roller shoes can be adjusted individually. The guide rails are available in one piece up to 4000mm and can coupled to endless stroke lengths.

#### Technical Details

<b>Material</b>	Roller shoes and rail body: Aluminum; Rollers and raceways according to type: steel, non-corrosive steel, amagn. steel
<b>Temperature in use</b>	-10 °C to +80 °C
<b>Vmax</b>	10 m/s
<b>Mounting position</b>	any
<b>Lubrication</b>	lifetime lubricaton, maintenance-free

# Linear Guides

## Type FD

### Available Types



#### Types

Type	Characteristics	Recommended Application
FDA	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Standard</b> version</li> <li>Integrated raceways made of steel</li> <li>Rollers with needle bearings for smooth and easy running</li> </ul>	Suitable for linear motion applications in almost all industries. Sealed rollers for maintenance-free operation over the entire service life. Light, clean run.
FDB	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Low-cost</b>-design</li> <li>Integrated raceways made of steel</li> <li>Rollers with ball bearings</li> </ul>	Suitable for linear motion applications in almost all industries. Particularly suitable for cost-sensitive applications and reduced demands on load capacity and noise.
FDC	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Non-corrosive</b> design</li> <li>Integrated raceways made of non-corrosive steel</li> <li>Rollers with needle bearings for smooth and easy running</li> </ul>	Suitable for linear motion applications in almost all industries. Insensitive to environmental influences such as moisture or cleaning agents.
FDD	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Non-magnetic</b> design</li> <li>Integrated raceways made of non-magnetic steel</li> <li>Rollers in needle bearings for smooth and easy running</li> </ul>	Suitable for linear motion applications in almost all industries. Nonmagnetic guide rails without influence on prevailing magnetic fields (e.g., in medical or electronics manufacturing).
FDE	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Lubricant-free</b> design</li> <li>Integrated raceways made of steel</li> <li>Lubricant-free rollers for smooth and clean running</li> </ul>	Suitable for linear motion applications in almost all industries. Special rollers without lubricants. Suitable for use in a vacuum or in clean rooms.
FDG	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>Non-corrosive low cost</b> design</li> <li>Integrated raceways made of non-corrosive steel</li> <li>Rollers with ball bearings</li> </ul>	Suitable for linear motion applications in almost all industries. Particularly suitable for cost-sensitive applications in harsh environments or when using cleaning agents.
FDH	<ul style="list-style-type: none"> <li>Aluminum roller guide in <b>highly dynamic</b> design</li> <li>Integrated raceways made of steel</li> <li>Rollers with angular ball bearings for high speed and acceleration</li> </ul>	Suitable for linear motion applications in almost all industries. Rollers with angular contact ball bearings for maximum acceleration and speed values, for example when using linear motors as the drive source.