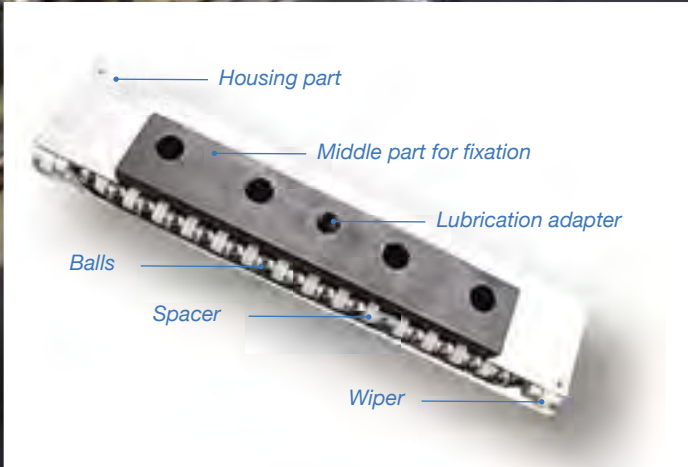


*... an invention
prevails*

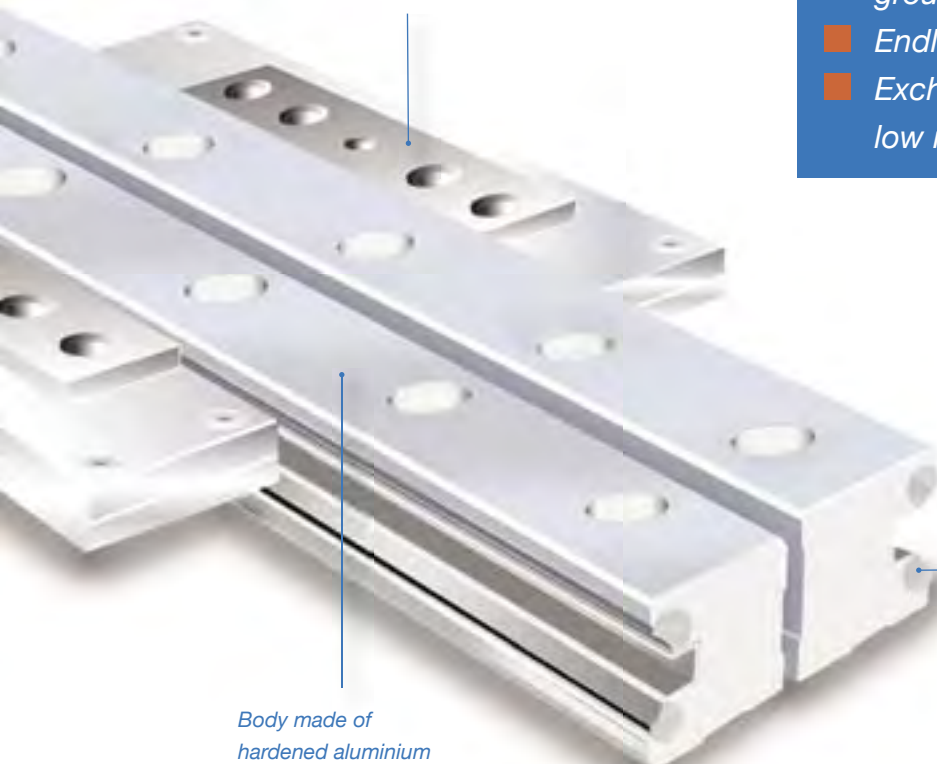


*Franke
recirculating aluminium
linear guides*



Recirculating aluminium linear guides

Recirculating element made of steel/ aluminium, housing made of cast iron



Body made of hardened aluminium

- Low weight due to guide rails made of Aluminium,
- High load capacity, high safety,
- Optimized rail profile for high stiffness, ground raceways made of spring steel,
- Endless stroke lengths,
- Exchangeable raceways, low maintenance costs

Ground raceways made of high alloy spring steel



Components for innovative solutions

- Franke recirculating aluminium linear guides have proved successful in different fields and branches such as machinery, portal robots or transportation.
- Make use of our innovative guide systems and consult us for further information.
- See also www.franke-linearguides.com



Technical details

Seal: The recirculating elements are equipped with wipers.

Running Accuracy: Best running accuracy will be achieved when the surface of the mating structure matches the tolerances given in our mounting instructions.

Fixation: Screws quality 8.8 with washer DIN 125

Load capacity: Load rating see table. We are gladly prepared to calculate load capacity and lifetime for you.

Traverse speed: Traverse speed up to 3 m/s
Acceleration up to 30 m/s²

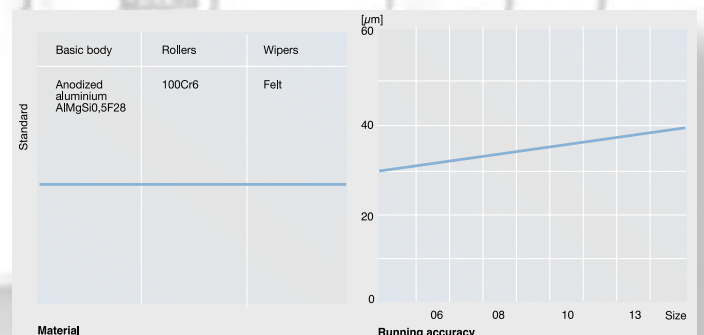
Mounting position: Optional

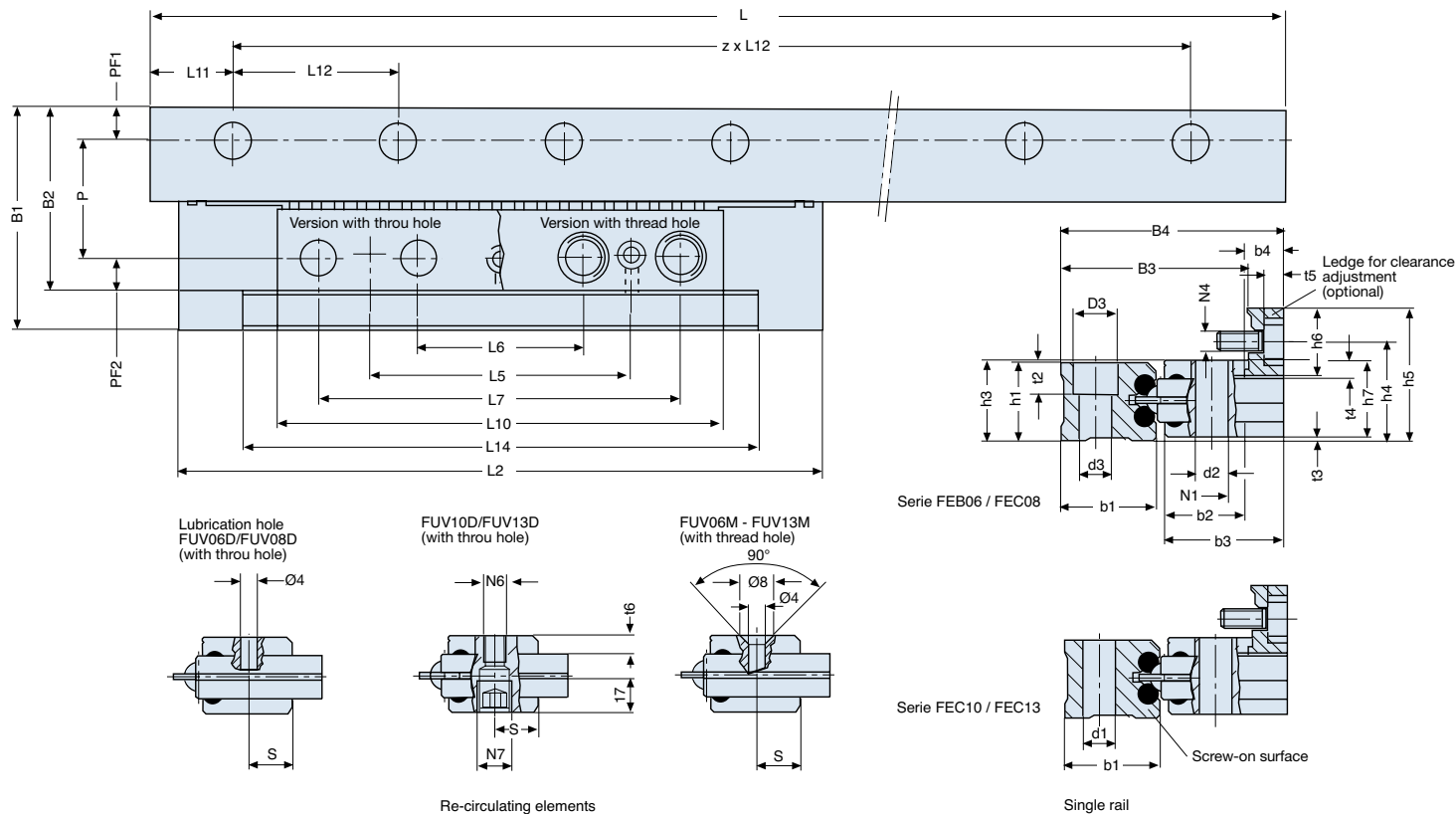
Lengths: We supply one-piece guide rails in the lengths which are given in the table as well as any intermediary length.

Friction coefficient: 0,02. With well mounted race tracks the coefficient can be reduced after 50 working hours to 0,01.

Lubrication: with bearing lubrication through lubrication nipples. We supply re-circulating elements with lubrication bores which are closed towards the screw-on surface. If you put in the closing screws for a second time please use an appropriate sealing mean.

Material: Rails: aluminium
raceways: high alloy spring steel
Re-circulating elements: steel and zinc-diecasting body





Serie	Wide				Height								Length						
	B1	B2	B3	B4	b1	D3	d1	d3	h1	h3	h4	h5	Lmax.	L11	L12	P	PF1	t2	t3
FEB06	44,5	36,5	38,0	44,5	20,0	10,0	-	5,5	16,0	16,7	20,7	27,7	2500	25	50	24,5	7,0	7,0	1'0
FEC08	57,3	47,3	48,8	57,3	26,3	11,0	-	6,6	21,0	22,2	26,0	32,5	4000	50	100	31,8	8,5	8,5	1,0
FEC10	63,0	51,4	51,4	62,9	24,4	-	9,0	-	23,8	25,0	29,4	39,4	4000	50	100	31,4	10,0	-	1,0
FEC13	79,5	65,1	65,1	80,1	31,6	-	12,0	-	31,2	33,0	37,2	48,7	4000	50	100	41,1	12,0	-	1,2

Load rating																							
2 recirc.elem.	C	b2	b3	b4	h6	h7	L2	L5	L6	L7	L10	L14	d2	N1	N4	N6	N7	PF2	S	t4	t5	t6	
FUV06D	15500	15,0	23,1	8,0	14,0	15,0	124	-	25	70	82,0	82	6,0	-	M05	-	-	5	5,0	3,0	4,0	-	-
FUV06M	15500	15,0	23,1	8,0	14,0	15,0	124	50	25	70	82,0	82	-	M06	M05	-	-	5	7,0	3,0	4,0	-	-
FUV08D	31000	19,5	29,5	10,0	15,5	20,0	153	-	32	84	100,0	104	6,6	-	M06	-	-	7	7,0	5,0	4,8	-	-
FUV08M	31000	19,5	29,5	10,0	15,5	20,0	153	58	32	84	100,0	104	-	M08	M06	-	-	7	9,5	5,0	4,8	-	-
FUV10D	50000	24,4	36,0	11,5	20,0	22,8	194	-	50	110	134,2	155	9,0	-	M06	M06	M06	10	10,0	5,4	6,0	9,0	9,0
FUV10M	50000	24,4	36,0	11,5	20,0	22,8	194	80	50	110	134,2	155	-	M10	M06	-	-	10	11,0	5,4	6,0	-	-
FUV13D	81000	31,6	46,0	15,0	23,0	30,0	242	-	60	140	169,0	178	11,0	-	M08	M05	G1/8	12	12,0	7,6	8,0	8,0	12,0
FUV13M	81000	31,6	46,0	15,0	23,0	30,0	242	100	60	140	169,0	178	-	M12	M08	-	-	12	15,0	7,6	8,0	-	-

Length Single rail [mm]	Order number				Length Single rail [mm]	Order number			
	FEB06	FEC08	FEC10	FEC13		FEB06	FEC08	FEC10	FEC13
300	62865A	62896C	83533C		2100	62890A	62921C	83558C	83597C
350	62866A	62897C	83534C	83573C	2200	62891A	62922C	83559C	83598C
400	62867A	62898C	83535C	83574C	2300	62892A	62923C	83560C	83599C
450	62868A	62899C	83536C	83575C	2400	62893A	62924C	83561C	83600C
500	62869A	62900C	83537C	83576C	2500	62894A	62925C	83562C	83601C
550	62870A	62901C	83538C	83577C	2600		62926C	83563C	83602C
600	62871A	62902C	83539C	83578C	2700		62927C	83564C	83603C
650	62872A	62903C	83540C	83579C	2800		62928C	83565C	83604C
700	62873A	62904C	83541C	83580C	2900		62929C	83566C	83605C
750	62874A	62905C	83542C	83581C	3000		62930C	83567C	83606C
800	62875A	62906C	83543C	83582C	3200		62114C	83568C	83607C
850	62876A	62907C	83544C	83583C	3400		62115C	83569C	83608C
900	62877A	62908C	83545C	83584C	3600		69116C	83570C	83609C
950	62878A	62909C	83546C	83585C	3800		69117C	83571C	83610C
1000	62879A	62910C	83547C	83586C	4000		69118C	83572C	83611C
1100	62880A	62911C	83548C	83587C					
1200	62881A	62912C	83549C	83588C					
1300	62882A	62913C	83550C	83589C					
1400	62883A	62914C	83551C	83590C					
1500	62884A	62915C	83552C	83591C	Weight [kg/m]	0,7	1,2	1,9	2,9
1600	62885A	62916C	83553C	83592C					
1700	62886A	62917C	83554C	83593C	Recircul. elem.	FUV06	FUV08	FUV10	FUV13
1800	62887A	62918C	83555C	83594C	with thru hole	80587A	80588A	80589A	80590A
1900	62888A	62919C	83556C	83595C	with thread hole	80545A	80546A	80547A	80548A
2000	62889A	62920C	83557C	83596C	Weight [kg/each]	0,2	0,4	0,8	1,7

Dimensions [mm], Load rating [N], Moments [Nm]



*... always the best solution
for special requirements*

Light, strong, durably - Components made of aluminium with Franke technology.

The embedded raceways made of non-corrosive steel or hardened spring steel guarantee high load capacity and precision. Especially in the field of portal robots or handling system.



Machinery

Franke recirculating aluminium linear guides are frequently used in machinery applications. Due to the Franke 4-point-contact-system the take equal loads from all directions. The slide resistance can be adjusted and re-adjusted to any given I

Portal robot

Franke recirculating aluminium linear guides are the best solution for building portal robots. Light and durably they fit together with the aluminium profiled mating structure which is used more and more in modern robot design. A special individual systems for individual applications: ground raceways, endless coupling of rails, high load capacity, please consult us !

*A special individual systems ... for individual applications:
ground raceways*

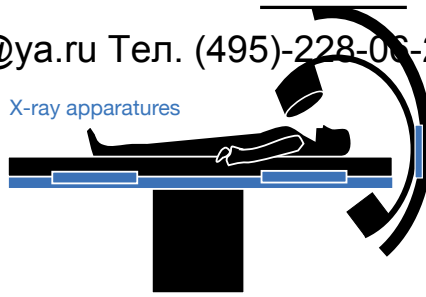
*... please consult us
for your further information !*

*Alu endless coupling of rails
high load capacity*

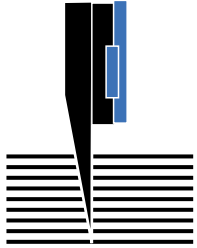


Satellite technology

X-ray apparatuses



Food industry

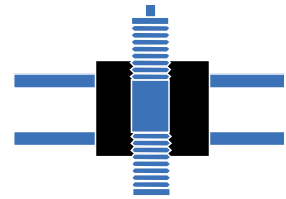
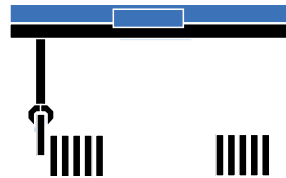


Cutting machine



Car industry

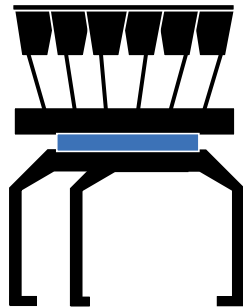
Pick and Place



Portal robot



Industrial rotary table



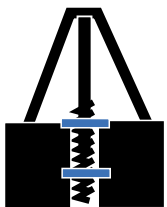
Circular knitting machine



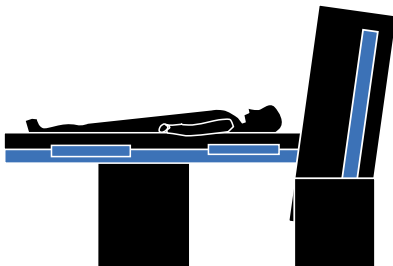
Packing machine



Tool changer

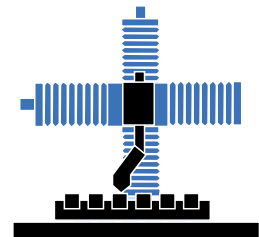


Deep-well drilling installation



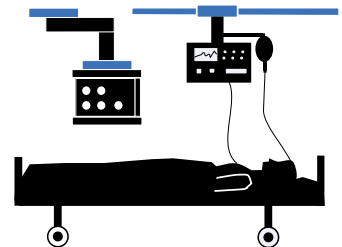
Patient's bed

Stirring

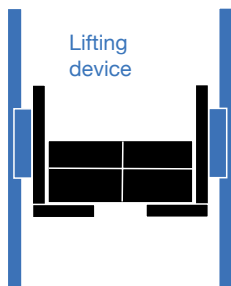


Laser cutting

Medical care



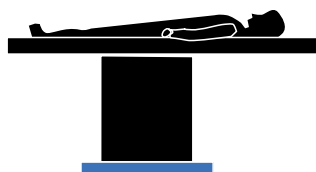
Clean room



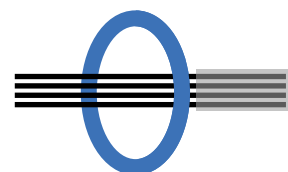
Lifting device



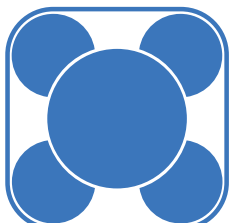
Measuring and testing



Operation table



Wrapping machine



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Franke

Competence
for moving