

Innovation with dynamics made in Baden-Württemberg, Germany



Our range of linear motors is as extensive as your requirements.

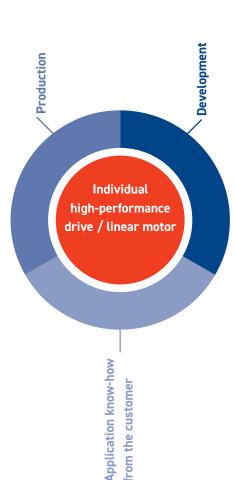
The work and the products of our customers determine our product range. Our company has stood for innovative and individual drive solutions for over 30 years. Our aim is to always ensure tailor-made performance and to produce exactly the linear motor that perfectly meets the technical requirements of our clients.

We combine experience with innovative ideas like barely any other company. This is an enormous advantage for our customers, because we don't start from scratch, but build on existing empirical values. In this way, we create specific drive solutions that ensure that our customers' products can perform absolute precision work at the highest level.



We regard interaction with the customer's development experts as the optimal boundary condition for the development and manufacture of top-class linear motors.

Numerous leading companies rely on our know-how in drive technology, which is based on two strong pillars: engineering and manufacturing. In close coordination with our clients, these two areas cooperate at our company. We supplement this cooperation with our customers' specific user knowledge. This results in unique linear motors that meet the customer's expectations right down to the smallest detail. This approach has made us what we are today: one of the leading specialists in individual linear motors.



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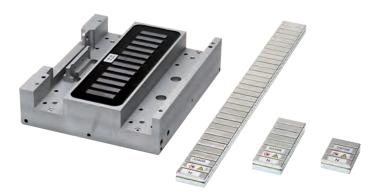
Linear motors are successfully used in machine tools, positioning and handling systems as well as in machining centres, where they impress with their high dynamics, precision and acceleration.

Linear motors impress with a wide variety of applications.

The design principle of linear motors predestines this drive technology for integration into production plants of all kinds as well as wherever power and efficiency are required with a comparatively small housing volume and complete rotation can be dispensed with. Depending on the size, the range of applications is therefore enormous.

Fischer linear motors can be found, for example, in medical technology and laboratory automation, semiconductor production, in micro-positioning tables and in classic mechanical engineering.





Linear motors from Fischer: precise, powerful and reliable.

A word about the technology.

Linear motors can be used wherever translative movements have to be performed. In other words, a linear motor does not generate rotary motion, but implements the physical principle of translation.

Linear motors can implement such two-way movements in a highly efficient and powerful manner.

Linear motors are fast, powerful, very efficient and highly precise in relation to the size of the motor.

Since they operate virtually without abrasion, they are ideally suited for medical and cleanroom technology. Linear motors from Fischer are the first choice, especially where very high precision, high repetition frequency and dynamics are called for.

There is no need for force-transmitting components such as spindles or toothed-belt drives. Components and assemblies that are not installed in the first place are not stressed. Only the linear guides are subject to a certain amount of wear.

- · No lubrication required
- · Low maintenance, low wear
- · Low operating costs
- · Robust basic construction
- Quiet
- · Very high acceleration
- · Very high maximum speeds
- Absolutely precise positioning



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The success story of linear motors is no coincidence, because in a technical system comparison, linear motors convince with an impressive overall performance.

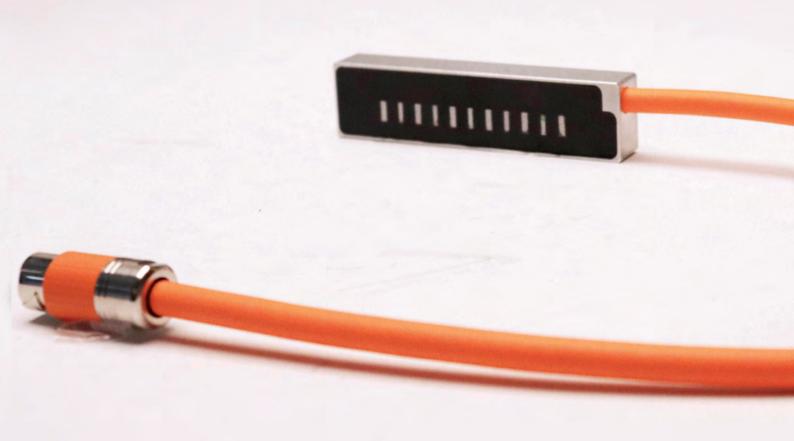
Each drive system has its own specific advantages and strengths, and we are aware of that. Nevertheless, it is the sum of good properties that makes Fischer linear motors the first choice for many applications in mechanical engineering, robotics and machining centres. In addition to the above-mentioned elimination of additional power-transmitting components, linear motors are particularly convincing in the areas of dynamics, power transmission, travel path length and, in particular, positioning accuracy.

With Fischer linear motors, machines and plants can be designed to be more powerful, more flexible and more cost-effective.

Performance and cost-effectiveness speak for linear motors from Fischer.

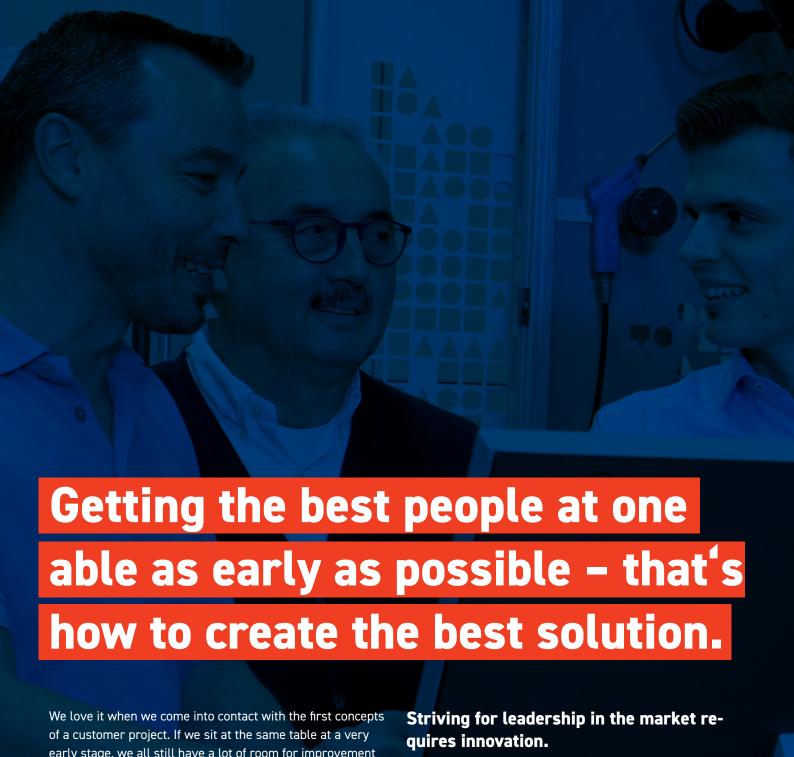
Drive technology solutions for translative movements on one plane can also be provided, for example, with toothed-belt drives, rack and pinion drives or pneumatic spindle systems. All three systems mentioned here impress with good performance in individual areas. From our point of view, however, it is the linear motors that impress with their performance overall.

In addition, linear motors from Fischer are characterised by lower operating and maintenance costs.



Linear motors in technical system comparison.

	Dynamics	Positioning accuracy	Force transmission	Travel path length	
Linear motor	///	///	V V	VVV	
Spindle system	✓	✓	///	~	
Rack and pinion	V V	✓	/ /	V V	
Toothed belt	//	✓	V	V	



We love it when we come into contact with the first concepts of a customer project. If we sit at the same table at a very early stage, we all still have a lot of room for improvement when it comes to truly new and outstanding solutions. Groundbreaking, cost-effective and outstanding solutions are possible when both sides contribute their core competencies and lots of innovative spirit. In this way, unique products are created in cooperation with our customers that can score points in the market with real advantages.

To make real innovations possible, we offer development, prototyping, production and integration services from a single source. When it comes to drive technology, we are absolute believers. From the initial idea to the design and implementation, we support the client with words and deeds if required!

Of course, the interfaces are also individual.

Customer-specific linear motors are almost the norm for us. Accordingly, the electrical connection options are also adapted to the subsequent use and installation situation in a customer-oriented manner.

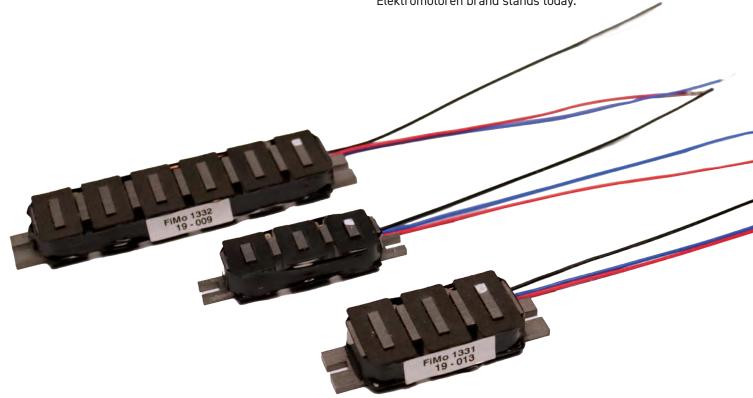
Depending on how complex the customer's specifications are with regard to additional components (such as measuring systems, temperature sensors, etc.), a second or even third cable outlet is necessary in addition to the power cable. The following fundamentally applies: Fischer electric motors contain precisely the connections demanded by the customer. Be it temperature monitoring, actuators or sensors – we adapt the connection technology to suit your requirements. The implementation of this connection technology is also freely selectable:

- · Cable with plug variable cable lengths
- Open-cable version with wire-end ferrules variable cable lengths
- Mounting box on the motor housing



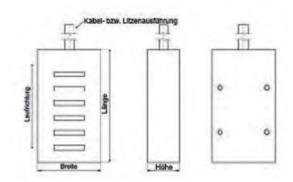
Perfect function and top quality, because anything else is expensive.

What we manufacture must meet the highest quality requirements. We secure our passion for development and our specialist know-how in production through a high level of material, process and system expertise as well as with very strict quality inspections. Error-free processes are the basis of the special quality and goodness for which the Fischer Elektromotoren brand stands today.

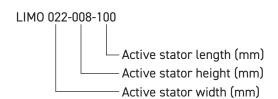


Dimensions and performance data

Dimensions - technical data

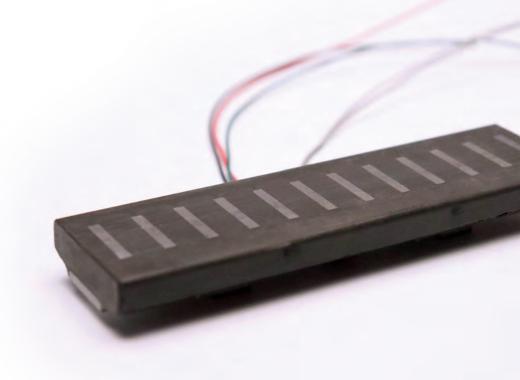


Type breakdown:





		Designation	Nominal force [N]	Peak force [N]	Velocity [m/s]	Width [mm]	Height [mm]	Length [mm]	Weight- [kg]
tion height	LIMO	035-025-100	45	165	5	70	30,6	120	0,65
	LIM0	035-025-200	90	330	5	70	30,6	220	1,35
Installa- tion height 35 mm	LIMO	018-030-100	45	130	8,9	52,5	35	120	0,81
	LIMO	035-030-100	90	250	5	70	35	125	1,3
	LIMO	045-030-100	120	330	4,3	80	35	120	1,62
	LIMO	035-030-200	180	510	4,4	70	35	220	2,6
	LIMO	045-030-200	240	660	4,9	80	35	220	3,25
	LIMO	035-030-300	270	760	4,1	70	35	318	3,9
	LIMO	070-030-200	380	1000	4,2	108	35	220	5,3
	LIMO	070-030-300	550	1510	4,5	108	35	318	7,9
Installa- tion height 45 mm	LIMO	030-040-100	90	270	9,4	67	45	127,5	1,6
	LIMO	030-040-210	180	530	4,5	67	45	232	3,1
	LIMO	060-040-100	180	530	4,6	98	45	127,5	2,65
	LIMO	030-040-310	270	800	4,2	67	45	331,9	4,7
	LIMO	045-040-210	270	800	4,9	85	45	232	3,72
	LIMO	060-040-210	360	1060	4,3	98	45	232	5,3
	LIMO	060-040-310	540	1600	4,6	98	45	336	7,9
	LIMO	090-040-210	540	1600	4,3	128	45	232	6,5
	LIMO	090-040-310	810	2400	3,8	128	45	336	9,75
	LIMO	120-040-310	1100	3200	4,3	158	45	336	13,5







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