

Technology for Linear Motion - Tec4Lin





- OEM linear motor elements for machine integration
- · ironless and iron core technology
- peak force up to 6.750 N
- continuous force up to 3.000 N

Linear motor technology for industrial applications!



Tec4Lin Products

Tec4Lin stands for 'Technology for Linear Motion'.

Tec4Lin OEM motor elements are direct drives, available in flat iron core or U-shaped ironless variations. The linear motion is electromagnetically generated without any mechanical elements, like spindles, belts, gear boxes, etc...

The motor is made out of an active and a passive part. The active part contains the motor windings, while the passive part is fitted with NdFeB magnets.

Generally, with all motor element types, any number of passive parts can be mounted together back-to-back, making strokes unlimited.



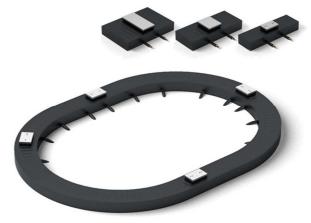
flat, iron core motor elements



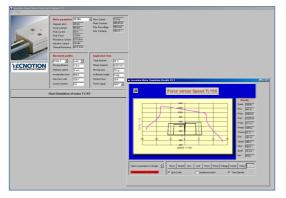
U-shaped ironless motor elements

For *ClosedGuide* systems, the motor elements of the *Tec4Lin* series, with mountable straight and bent active parts, are designed as a construction kit. The active parts consist of mountable straight or bent motor elements, which have several integrated stator windings in a row. The bent form of the linear motor stator is revolutionary.

The passive part is designed as a short magnet plate, keeping the moving masses extremely low. Almost any number of passive parts is operable in a *ClosedGuide* system, making this technology very flexible in various applications.



straight & bent iron core motor elements



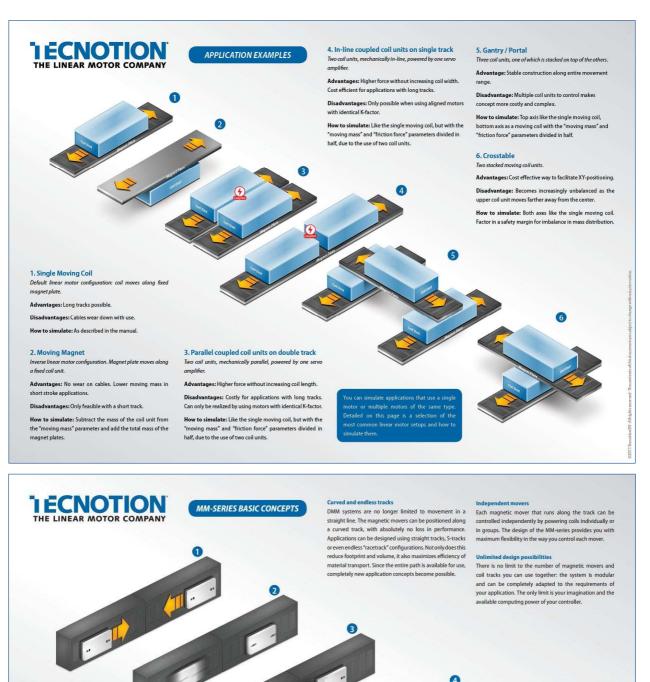
designer tool

The designer tool is a configuration tool for linear motions, which can simulate motions, as well as force processes.

The suitable *Tec4Lin* drive components are chosen in the integrated product data base. Applications can be analyzed within seconds and by various criteria, which eliminates the need to perform complex calculations manually.

JUNG ANTRIEBSTECHNIK U. AUTOMATION GMBH

Tec4Lin Applications



Dynamic Moving Magnet Technol ogy When you think about linear motors, probably the first thing

that comes to mind is a coil unit moving a mass along a linear magnet track, but recent developments in bus systems and logic controllers open up whole new application areas. Controllers are getting more and more intelligent and enable linear motors to perform tasks that we could only dream about just a couple of years ago.

One type of application is becoming increasingly attractive for a wide variety of industries: the so-called Dynamic Moving Magnet (DMM) linear motor. This is basically an pendent magne inverted linear motor featuring independ movers that move along a modular coil track.

Combined with position sensors and a controller, DMM technology opens up whole new fields of application with incredible functionality.

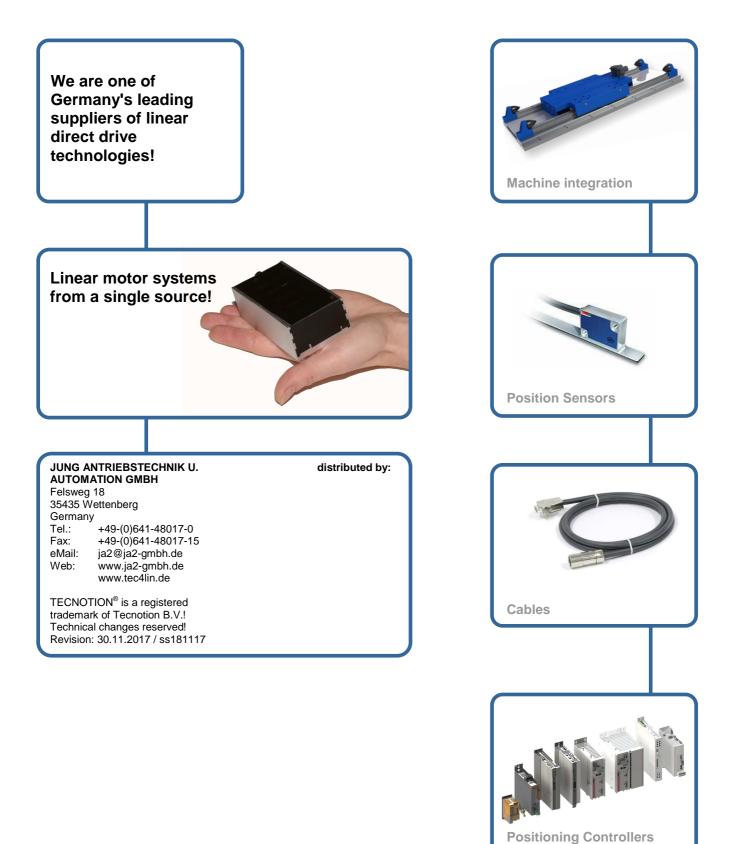
- APPLICATION POSSIBILITIES 1 Adapting spacing
- 2 Varying speed betwe
- 3 Exerting clamping forces
- ④ Pushing materials
- 5 Using kinematics to man

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Linear motor systems from a single source!