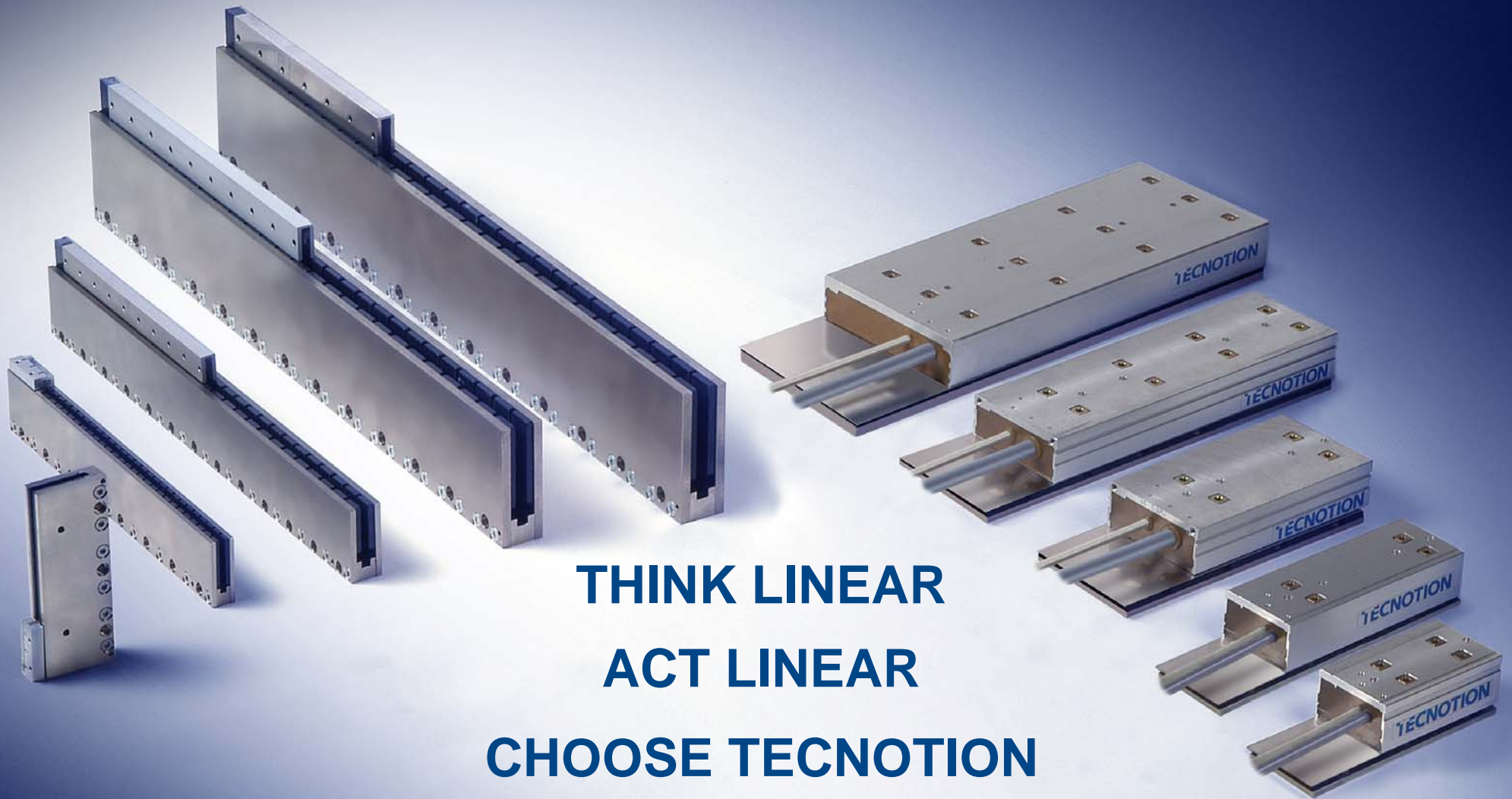


TECNOTION

The linear motor company



**THINK LINEAR
ACT LINEAR
CHOOSE TECNOTION**

Our Mission

Creating the best linear motors
in the world.

Using our knowledge and
dedication to help our customers
in finding the best innovative
solutions to linear motor
problems.



Timeline



1988	1998	2004	2005	2007
Tecnotion produces first linear motor.	Tecnotion becomes independent after being a part of Philips for 25 years.	Tecnotion opens her Chinese factory centre Suzhou (China).	Tecnotion opens her new headquarters in Almelo The Netherlands.	Tecnotion opens transfer centre.

Figures

Highly skilled and experienced employees.

80 at our headquarters.

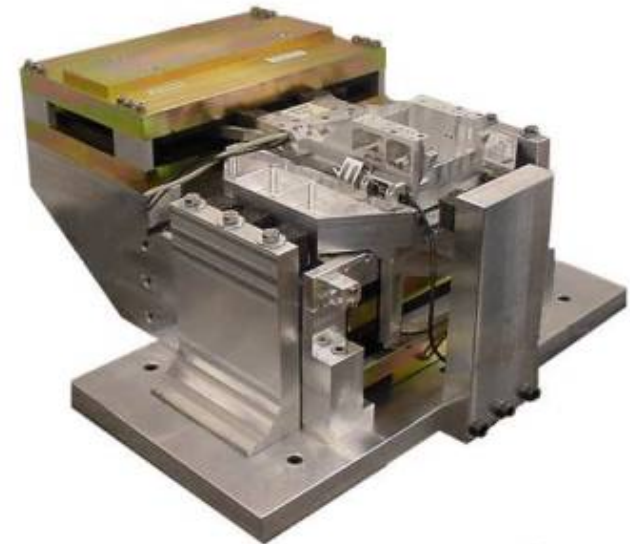
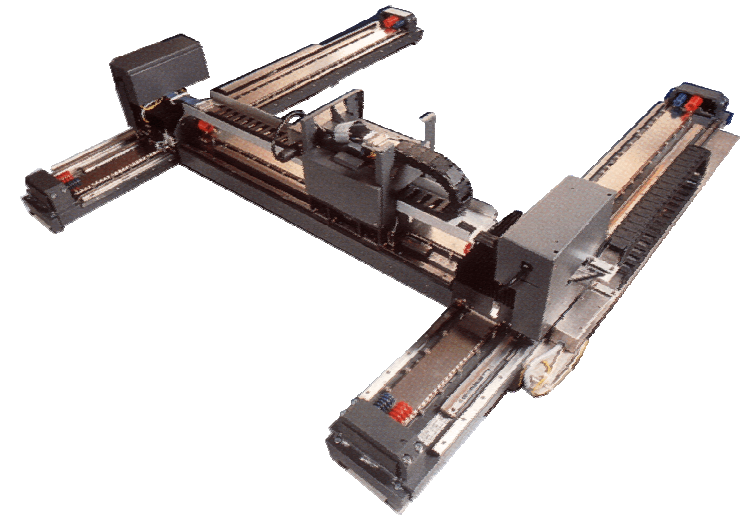
40 at our production facility in Suzhou, China.

Annual turnover: 15 million Euros.



Our Strengths

- ◆ Wide range of high quality products
- ◆ Top level support and in-design
- ◆ Tailor-made solutions for any application
- ◆ Short development and production time



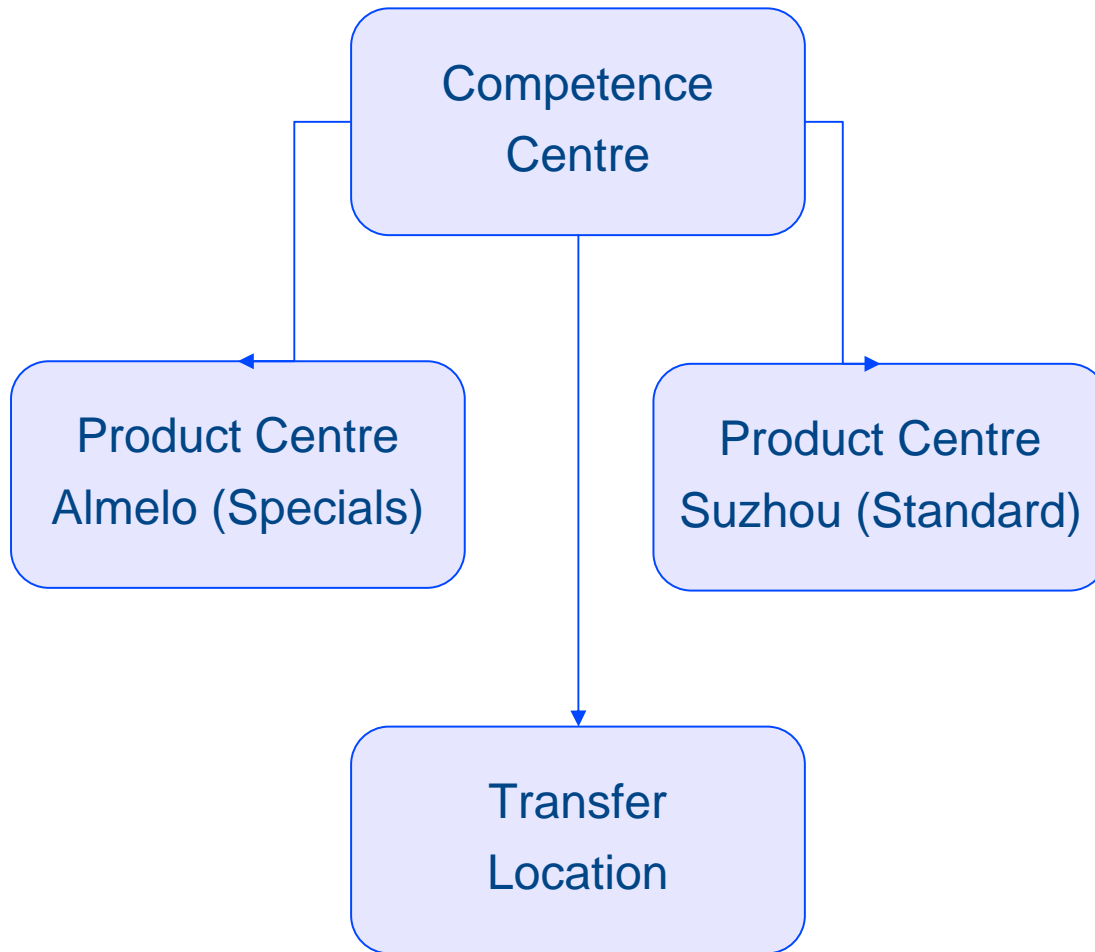
Our Activities

In-house development and manufacturing of linear motors and linear drive systems.

Collaboration with our customers, from initial development to the actual product and beyond.



Our Activities



Worldwide Network



 **Quatro Automation Group**
Motion Control Solutions for the OEM

Group Six

transtechnik
servomechanismen

MTT

SCHNEEBERGER
LINEAR TECHNOLOGY

Our Tools

Proprietary Calculation Tool

Motor Comparison

3D Magnetic Simulation

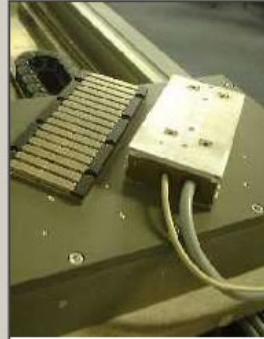
3D Thermic Simulation

Mathcad

Solid Edge

TECNOTION Linear Motor Selection Program V1.6

File Help



Motor parameters **TL06N**

Magnetic pitch	24	Thermal Resistance	0,48
Force Constant	93	Mass Coilunit	1,5
Peak Current	6,5	Motor Constant	370
Peak Force	450		
Resistance / phase	7,8		
Induction / phase	60		

Movement profiles

Profile 1	t3rd
Moving distance	2 m
Moving time	2 sec.
Acceleration time	0,5 sec.
Max Vdl in volts	100 V
Load in newtons	0 N

Application Data

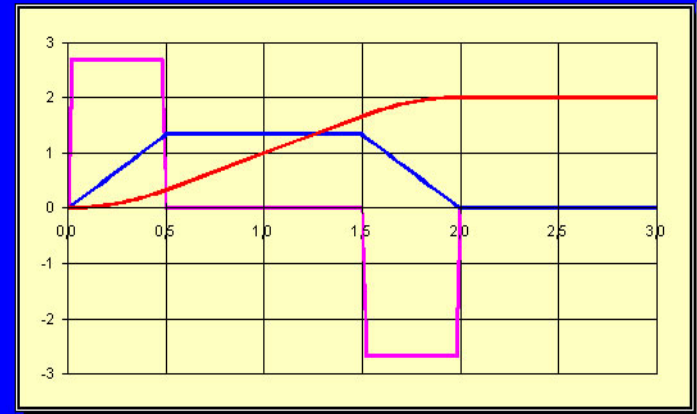
Temp heatsink	40 C
Rtherm heatsink	0,05 K/W
Moving mass	55 kg
Inclinement angle	0 deg.
Friction Force	30 N
Power supply	400V~3

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Start simulation for this motor.

Tecnotion Motor Simulation Results V1.6

Motor simulation TL06N



Results

Fpeak	196 N
Frms	91 N
Pmax	367 W
Pmin	-103 W
Pcoils	32 W
Pmagn	2 W
Thouse	41 C
Pres	6 W
Upeak	170 V
Ubus	560 V
Ipeak	2,1 A
Irms	1,0 A

Select a parameter to change: Move Speed **Acc** Jerk Force Power Voltage Current

Coil temperature = 55 Celsius.

Auto Scale Simultaneous plots Show Results

Our Products

Catalogue products

- ◆ Iron Core Motors 120N..13500N
- ◆ Iron Less Motors 36N..4200N
- ◆ Analog and digital hall sensors



Our Products

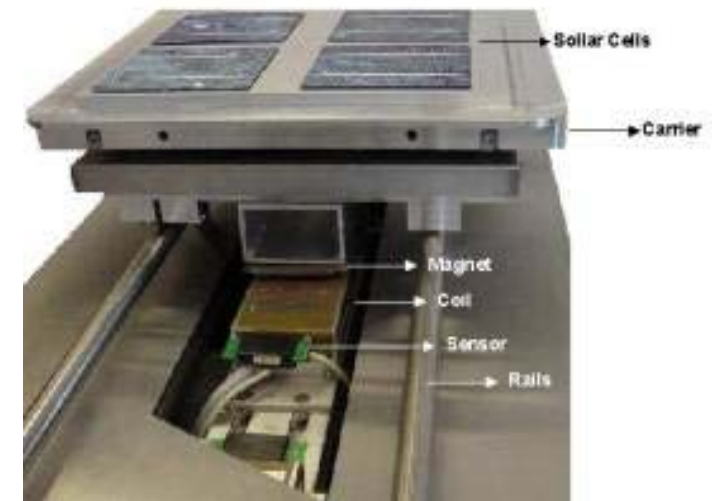
Special products

Customer specific designs, i.e.

Vacuum Motors

Inline transport system

Tecnotion can take care of the entire product creation process.



Markets

Semicon
Electronics

F.P.D.

Solar

Printing

Harddisk coating



Applications

Semicon

Lithography Systems

Die bonding

Wire Bonding



Applications

Electronics

Compact solutions

High quantity

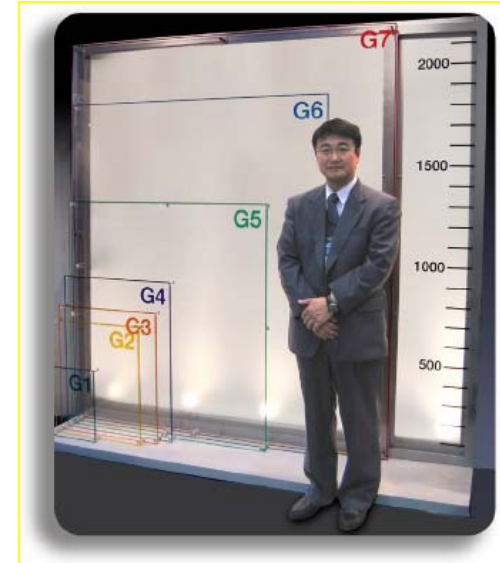
Low price



Applications

F.P.D.

- ◆ LCD Production
- ◆ PDP Production
- ◆ OLED Production
- ◆ Asia: Japan, South Korea, Taiwan
 - ◆ System Integrators
 - ◆ short delivery



Applications

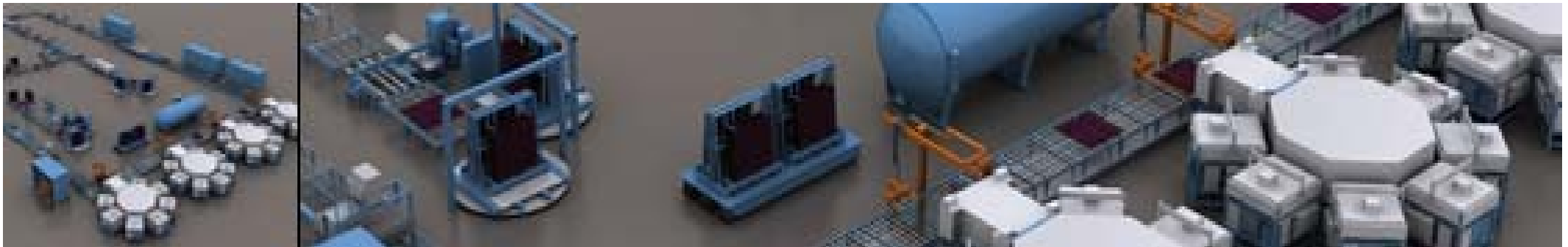
Solar Cell Production

Laser patterning/scribing

Screen printing

Singulation

Handling devices



Applications

Printing

Commercial Inkjet Printing

CTP (Computer to Plate)

Small cost-effective ironcore
motors.



Applications

Machine Tooling

Glass milling

Water-jet cutters

Laser cutters / scribers

Iron core

Long Magnet Tracks



Applications

Harddisk Coating

Metal sputtering machines

Sample positioning in vacuum



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