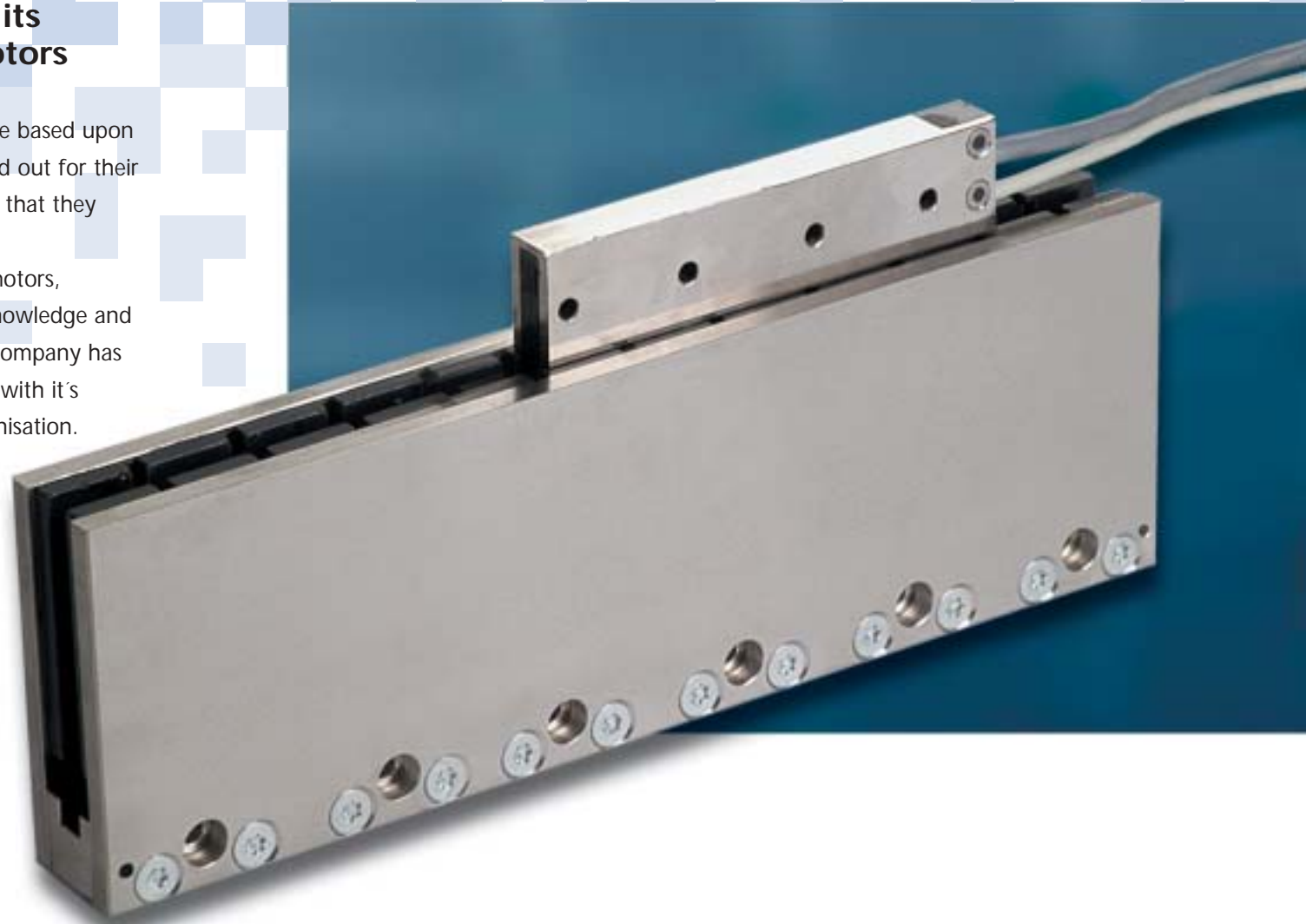


## **Tecnotion presents its full range of UX-motors**

Tecnotion's linear UX-motors are based upon the ironless principle. They stand out for their great dynamics and for the fact that they show no 'cogging'.

For the production of the UX-motors, Tecnotion applies the unique knowledge and manufacturing techniques the company has developed in close cooperation with its partners within the Philips organisation.

The result is a range of high quality and very reliable linear motors which are available on competitive conditions.



## Specifications

	Symbol	Unit	UX 3		UX 6		UX 9		UX 12		
			N	S	N	S	N	S	N	S	
Motortype, max. voltage ph-ph			3-phase synchronous Ironless, 300Veff								
Peak Force (temp. rise 20°C/s) magnet @25°C	Fp	N	615		1230		1845		2460		
Peak Current	Ip	Arms	5.7	14.1	11.5	28.3	17.2	42.4	23.0	57.0	
Continuous force* coils @110°C	Fc	N	65..120		130..240		195..360		260..480		
Maximum Continuous Current coils @110°C	Ic	Arms	1.12	2.8	2.2	5.5	3.4	8.3	4.5	11.0	
Max. Continuous Power loss All coils	Pc	W	80		160		240		320		
Maximum speed @300V	vmax	m/s	3.2	8	3.2	8	3.2	8	3.2	8	
Motor Force Constant	K	N/Arms	107	43.5	107	43.5	107	43.5	107	43.5	
Back EMF phase-phase peak	Bemf	V / m/s	87.5	35.5	87.5	35.5	87.5	35.5	87.5	35.5	
Motor Constant coils @25°C	S	N <sup>2</sup> /W	243		485		730		970		
Magnet Pitch NN	τ	mm	57		57		57		57		
Resistance per phase coils @25°C	Rf	Ω	15.6	2.6	7.8	1.3	5.2	0.87	3.9	0.65	
Induction per phase	Lf	mH	30	5.2	15	2.6	10	1.7	8	1.3	
Electrical time constant coils @25°C	τe	ms	2		2		2		2		
Thermal Resistance internal	Rth	°C/W	1.1		0.55		0.41		0.31		
Motor Attraction Force	Fa	N	0		0		0		0		
Length of Coilunit	L	mm	134		248		362		476		
Weight of Coilunit Ex cable	M	kg	0.55		0.95		1.35		1.75		
Weight of Cabels	m	gr/m	100		100		100		100		
Temperature Sensor			KTY 21 and PTC 1kΩ								

\* Depends on application: cooling surface, air speed and ambient temperature.

# TECNOTION®

This leaflet gives you the UX's vital technical data. For additional information, please contact

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### Dimensions Magnettracks

Le	171mm	228mm	285mm	741mm
M6 bolts	3	4	5	13
Mass	19 kg/m			
Magnetplates can be butted together.				

