

ForTorque[®] **Swivelling-Rotary Modules**



LinTorque[®] **Linear-Rotary Modules**

- modular systemic kit for rotary & linear applications
- high-dynamic servo-electric drive system
- especially suited for large inertia loads
- endless rotation
- rotational speed up to 400 RPM, torque up to 4,0 Nm
- force up to 1.024 N, stroke up to 330 mm

ForTorque[®] Swivelling-Rotary Modules



swivelling-rotary modules
ForTorque[®]

ForTorque[®] swivelling-rotary modules are slim and dynamic servo-electric rotary units. The system consists of a rotating servo motor, angle sensors, a gearbox with high reduction and an output block, which is equipped with a generously designed and stiff bearing.

ForTorque[®] swivelling-rotary modules are characterized by their low weight.

Through the use of a gearbox, ForTorque[®] swivelling-rotary modules are especially suited for applications with large external inertia loads. Due to the high efficiency of the used gear boxes, torques of processes can be determined by motor current with an acceptable accuracy and the maximum output torque can be limited as well.

With swivel arms, index tables and eccentric application loads, ForTorque[®] swivelling-rotary modules are the preferred dynamic rotary positioning systems.

ForTorque[®] Rotary Module Overview	peak torque [Nm]	peak rotational speed [RPM]	gearbox reduction [i]	max. load inertia [kgcm ²]	diameter [mm]	weight [Gramm]	IP pro- tection class
FT01-2520	0,7	400	20	5	25	229	IP20
FT01-25L20	1,0	400	20	10	25	274	IP20
FT01-3518	1,9	360	18	20	35	553	IP20
FT01-35L18	3,0	360	18	40	35	673	IP20
FT01-4550	4,0	150	50	200	45	905	IP20

Technical changes reserved!

LinTorque[®] Linear-Rotary Modules

LinTorque[®] is a combination of our HighDynamic[®] linear motor modules HM01 and our swivelling-rotary modules ForTorque[®]. The modularity of both product families results in extreme flexibility and a wide variety of possible combinations of LinTorque[®] linear-rotary modules.

HighDynamic[®] linear motor modules are available with peak forces up to 1.024 N. This makes combined automated rotary and linear motion in manufacturing processes realizable.

Requirements for high-dynamic production processes are accounted for with these products.



LinTorque[®] linear-rotary modules -
a combination of
HighDynamic[®] linear motor modules
& ForTorque[®] rotary modules

Linear Modules for LinTorque[®] Overview	peak force [N]	continuous force with nat. / forced cooling [N]	max. stroke [mm]	max. velocity [m/s]	max. acceleration [m/s ²]	mechanical width [mm]
HM01-23x80	67	15 / 25	260	5,0	150	44
HM01-23x160	137	31 / 48	280	5,0	150	44
HM01-37x120	255	51 / 92	280	5,0	150	60
HM01-37x240	308	53 / 100	280	5,0	150	60
HM01-48x240	585	145 / 255	330	5,0	150	70
HM01-48x360	1.024	203 / 354	300	5,0	150	70

Other strokes on demand

Technical changes reserved!

LinTorque® & LinTorque® Controller & Software

The positioning controllers of series A1100, B1100, C1100, C1200, E1100 and E1200 are suitable controls for *ForTorque*® and *LinTorque*® drives.

Therefore, positioning controllers with identical DC links, the same hardware and the same interfaces can be used for the rotary drive, as well as the linear actuator.

The positioning controllers include the inverter, the motion controls and the interface to high level machine controls. Current fieldbus interfaces and parallel I/O's enable the link to high level machine controls.



ForTorque® & *LinTorque*®
positioning controllers

RS 232



CANopen

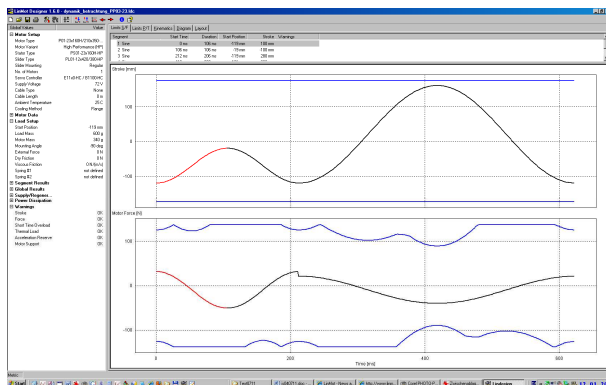
EtherCAT

RS 485



ETHERNET
POWERLINK

SERCOS
interface



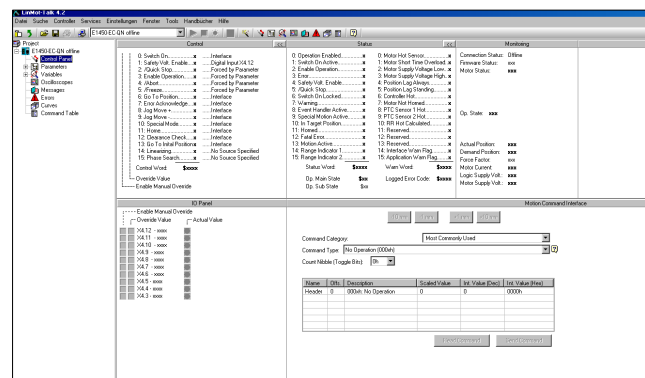
LinTorque® designer

The *LinTorque*® designer is a configuration tool for linear motions, which can simulate various motions and motion curves.

The suitable *LinTorque*® components are chosen from the integrated product data base. Applications can be analyzed and optimized by various criteria in seconds, without needing to perform complex calculations manually.

Coordinating with *ForTorque*® rotary drives and *HighDynamic*® linear motor modules, suitable operating and parameterizing software is available.

The positioning controller is parameterized by the license-free software tool. From simple point to point positioning tasks, to complex sequence programs, various applications can be realized. Drive tasks and motion sequences are easily configurable.



LinTorque® parameterization tool

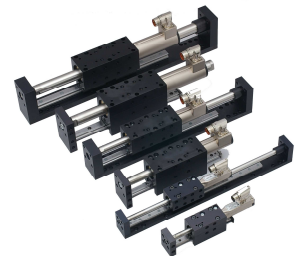
**We are one of
Germany's leading
suppliers of system
solutions in linear
drive technology!**



Swivelling-Rotary Modules



**Linear motor &
mechatronic
systems from
a single source!**



Linear Motor Modules & Guides

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Positioning Controllers



Motor Cables

Handling systems from a single source!