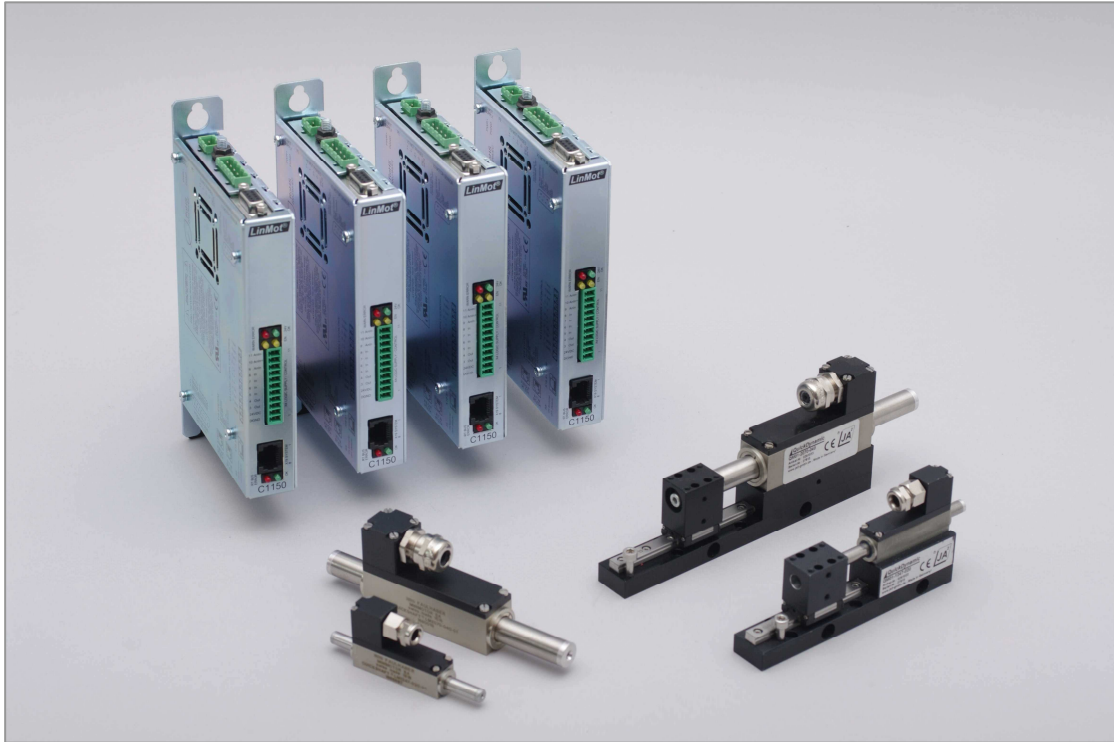


QuickDynamic[®] Linear Motor Systems



- **electrical linear direct drive system**
- **peak force up to 27,6 N**
- **stroke up to 120 mm**
- **precision and high dynamics for positioning tasks**
- **freely positionable along the entire stroke**
- **long operational life**

Linear motor technology for industrial applications!

QUICKSHAFT® Linear Motor Systems

QuickShaft® linear motors are tubular, electromagnetic direct drives. The linear motion is generated electromagnetically without use of gear boxes, spindles, tooth belts, racks or cams.

The motor only consists of two parts - the stator and the slider. The slider is a precise stainless steel tube with integrated neodymium magnets. The stator contains the motor windings, the plain bearings for the slider, as well as the positioning sensors.



QUICKSHAFT® LM1247 & LM2070 linear motors

QuickShaft® motor data overview	peak force depending on controller [N]	constant force with nat. cooling [N]	stator body profile [mm]	stator length [mm]	stator mass [g]	slider Ø [mm]	max. stroke [mm]	slider mass per 100 mm length ca.[g]	IP protection class
LM1247 series									
LM1247-XXX	10,7	3,6	12,5x12,5	49,4	49	6,31	120	23	IP20
LM2070 series									
LM2070-XXX	27,6	9,2	20x20	74	148	12	120	77	IP20

XXX: stroke
Available stroke and slider lengths are disclosed in the data sheet.
Technical changes reserved!

QuickDynamic® Linear Motor Modules



QM01 QuickDynamic® linear motor modules are mechatronic systems with integrated QuickShaft® servo motors. With its low moving masses, high cycles and high momentum loads, easy integration of the linear drives into applications is possible. The design of only 20 mm width is especially convenient in tight spaces.

QuickDynamic® QM01
Linear motor modules

QuickDynamic® linear modules overview	built in direct drive	peak force [N]	continuous force [N]	max. stroke [mm]	moving carriage mass [g]	max. speed [m/s]	max. acceleration [m/s ²]	IP protection class
QM01-1247	LM1247	10,7	3,6	120	33	5,0	150	IP20
QM01-2070	LM2070	27,6	9,2	120	37	5,0	150	IP20

Technical changes reserved!

QUICKSHAFT[®] Controller & Software

The positioning controllers of *LinMot*[®] series A1100, B1100, C1100, C1200, E1100 and E1200 are all compatible with LM linear motors. They include an inverter, positioning control and the interface to machine controls.

Current fieldbuses and parallel I/O's enable easy linking to machine controls.



QUICKSHAFT[®] positioning controller

QUICKSHAFT[®] Designer JUNG ANTRIEBSTECHNIK U. AUTOMATION GMBH **JA²**

0010213.xls J. Reisinger 07.02.2013

Staat:

Kategorie:
Infobereich:
Eingabefeld:
Ergebnisfeld:

vorgeschener Motor-Modell: LMxxxxxy
 bewegte Masse [g]: 0
 Reibkraft [N]: 0

Kinematik Daten nur zur Info!

Motor	bew. Eigenmasse [g]	typ. Reibkraft [N]	Spitzkraft [N]	Stromkraft [N]
LM1247-020	18	19,7	3,6	
LM1247-040	24	19,7	3,6	
LM1247-060	28	19,7	3,6	
LM1247-080	32	19,7	3,6	
LM1247-100	39	19,7	3,6	
LM1247-120	43	19,7	3,6	
LM2070-040	58	27,6	9,2	
LM2070-080	140	27,6	9,2	
LM2070-120	168	27,6	9,2	
LM2070-160	206	27,6	9,2	
LM2070-220	250	27,6	9,2	
Modul				
GM01-1247-020	51 (inkl. Läufer)	0,375	19,7	3,6
GM01-1247-080	69 (inkl. Läufer)	0,375	19,7	3,6
GM01-1247-120	76 (inkl. Läufer)	0,375	19,7	3,6
GM01-2070-040	135 (inkl. Läufer)	0,375	27,6	9,2
GM01-2070-080	177 (inkl. Läufer)	0,375	27,6	9,2
GM01-2070-120	205 (inkl. Läufer)	0,375	27,6	9,2

Zyklus
 Zusätzliche Masse [g]: Segment 1 Segment 2 Segment 3 Segment 4
 Hub [mm]:
 Vmax [m/s]:
 Amax [m/s²]:
 Anschl. Pausenzeit [ms]:
 Gegenkraft während Pausenzeit [N]:

Druckk Trapez:
 Positionierzeit [ms]: 0,00 0,00 0,00 0,00
 Spitzkraft [N]: 0,00 0,00 0,00 0,00
 Beschleunigungszeit [ms]: 2,00 2,00 0,00 0,00
 Zeit mit konst. Geschwindigkeit [ms]: 0,00 0,00 0,00 0,00

Gesamtheit [ms]: 0,00
max Spitzkraft [N]: 0,00
Kühnkraft [N]: 0,00

With the *QuickShaft*[®] designer a configuration tool for linear motions is provided.

In the integrated product overview, suitable *QuickShaft*[®] and *QuickDynamic*[®] drive components can be chosen. Applications will be analyzed within seconds by different criteria's, without the need to perform complex calculations manually.

QUICKSHAFT[®] Designer configuration tool

Compatible with LM linear motors and the positioning controllers of *LinMot*[®] series A1100, B1100, C1100, C1200, E1100 and E1200, the parameterization and remote tool *LinMot-Talk* is available.

LinMot-Talk is a license-free software tool, that can easily configurate adjustments, simple I/O control, complex drive tasks, as well as motion processes.

QUICKSHAFT[®] parameterization tool

**We are one of
Germany's leading
suppliers of linear
direct drive
technologies!**



Power Supplies



Controllers

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

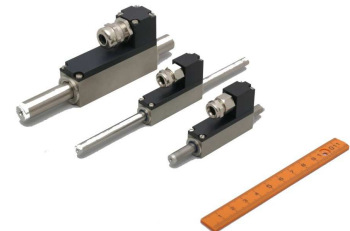


Motor Cables

**JUNG ANTRIEBSTECHNIK U.
AUTOMATION GMBH**
Felsweg 18
35435 Wettenberg
Germany
Tel.: +49-(0)641-48017-0
Fax: +49-(0)641-48017-15
eMail: ja2@ja2-gmbh.de
Web: www.ja2-gmbh.de
www.quickdynamic.de

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Linear Motors



Linear Motor Modules

Linear motor systems from a single source!