

- **LDDS**
Linear Direct Drive System
- **LDDS-057**

- ⊕ Up to 60% cost savings in contrast to comparable drive technology
- ⊕ Customised modifiable
- ⊕ Adjustable weight compensation

LDDS-057

Features, benefits, applications, drawing

Features

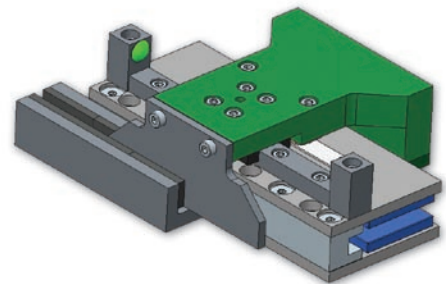
- One-axis positioning system
- Ironless linear motor, type: UPL
- Integrated adjustable weight compensation
- Optical incremental measuring system
- Compact design
- Wear-free components: motor, weight compensation, measuring system

Benefits

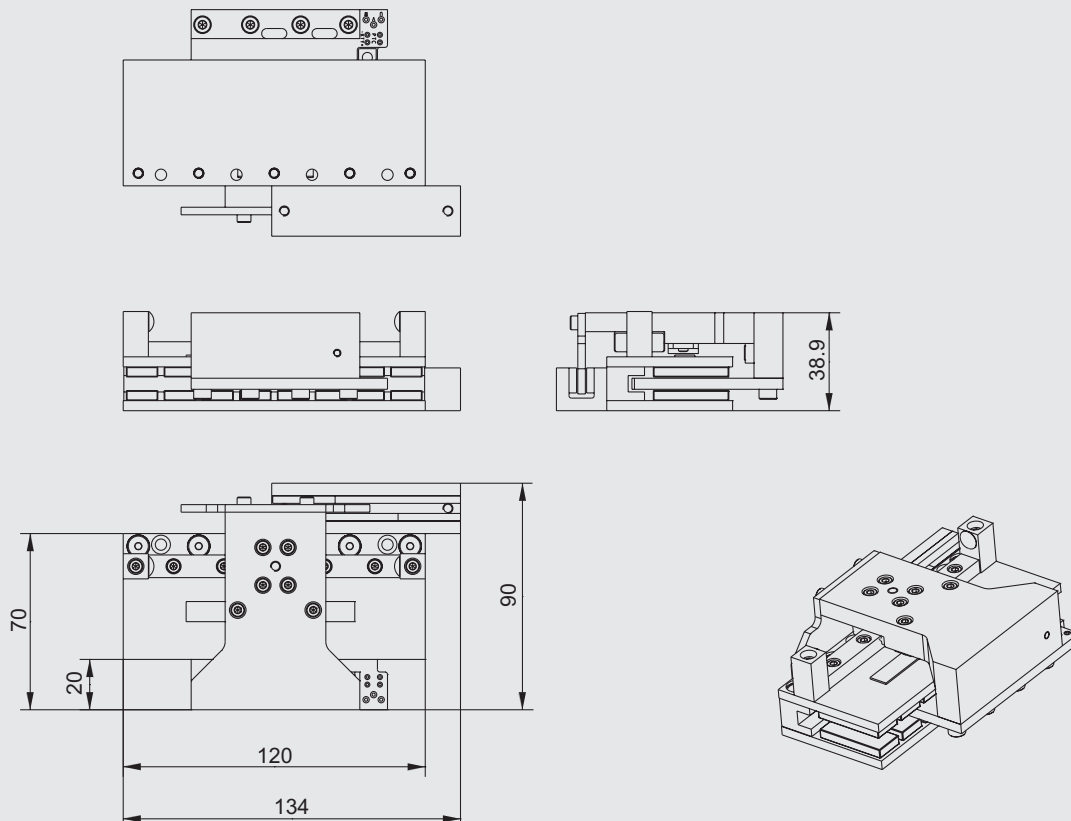
- High positioning accuracy
- High dynamic performance
- Extremely long service life
- Preferably used as Z-axis
- Parameters, dimensions, mounting types and system components can be modified customer-specifically
- Excellent price-performance ratio

Applications

- Pick and place
- Laser beam focusing
- Automation
- Electronics assembly
- Productronics



Drawing



LDDS-057

Dimensions, masses, performance data, components

Dimensions/masses	Symbol	Unit	LDDS-057
Dimensions	L x W x H	mm	134 x 90 x 38.9
Total mass	m_{total}	g	1100
Moving net mass	m	g	280
Maximum payload	m	g	250
Weight compensation		g	250
Usable stroke	s	mm	55
Performance data	Symbol	Unit	LDDS-057
Motor type: UPL3-78			
Max. impulse force (1 s) at I_{mp}	F_{mp}	N	60
Peak force (3 s) at I_p	F_p	N	50
Continuous force not cooled at I_c	F_c	N	15
Motor constant (25 °C)	k_m	N/ \sqrt{W}	3.2
Max. impulse current (1 s)	I_{mp}	A_{rms}	4.5
Peak current (3 s)	I_p	A_{rms}	3.7
Continuous current not cooled	I_c	A_{rms}	1.1
DC link voltage	U_{DCL}	V	120
Maximum acceleration	a_{max}	m/s^2	50
Maximum speed	v_{max}	m/s	3
Positioning accuracy		μm	On request
Components	Symbol	Unit	LDDS-057
Guidance			2-row linear ball bearing and guideway assembly
Measuring system			Optical incremental 1 V_{pp} sin/cos, grating period 20 μm

Customised solutions are our strength. We would be glad to realize the special drive system for your application.

Precise. Fast. Efficient.



INA – Drives & Mechatronics AG & Co. KG

Mittelbergstrasse 2
98527 Suhl, Germany

Phone +49 3681 | 7574-0

Fax +49 3681 | 7574-30

E-mail idam@schaeffler.com

Web www.idam.de

