

- **LDDS**
Linear Direct Drive System
- **LDDS-065-A**

LDDS-065-A

Features, benefits, applications, drawing

Features

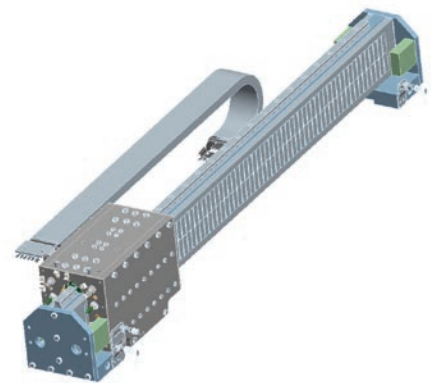
- Linear system with two opposing linear motors, type L1C
- Pneumatic clamping elements inside, thus predestinated for vertical operation
- Movement of the complete motor assembly as carriage
- Four-row linear recirculating ball bearing and guideway assemblies

Benefits

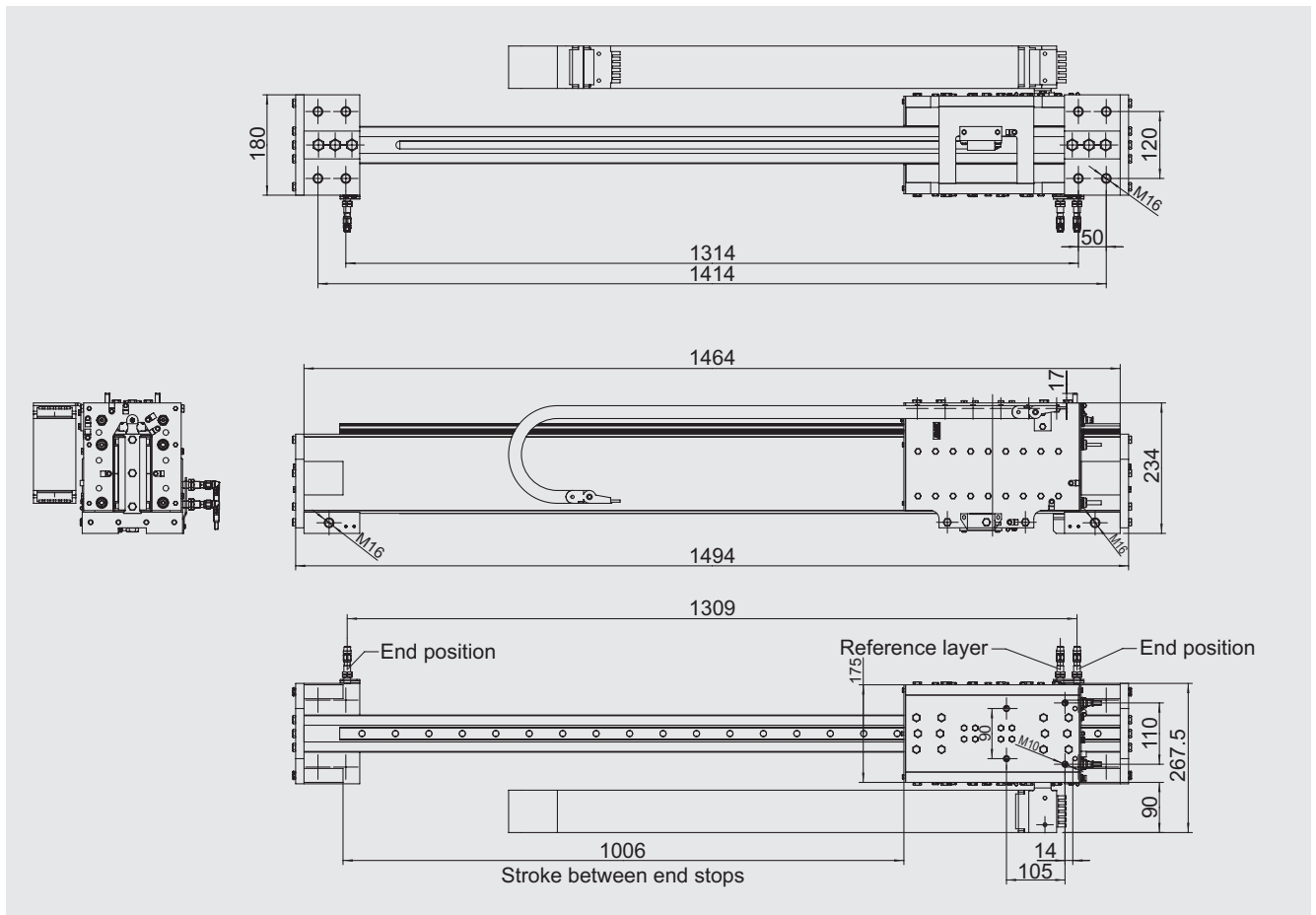
- Compact design
- High force in a small space
- Precise, regulated movement
- High guidance and positioning accuracy at a large stroke
- Long service life
- Low maintenance
- Accessible parts are made of stainless steel

Applications

- Food industry
- Automation
- Pick and place applications



Drawing



LDDS-065-A

Dimensions, masses, performance data, components

Dimensions/masses	Symbol	Unit	LDDS-065-A
Dimensions	L x W x H	mm	1494 x 267 x 234
Total mass	m_{total}	kg	ca. 170
Moving net mass	m	kg	55
Max. payload	m	kg	30
Usable stroke	s	mm	1006
Performance data	Symbol	Unit	LDDS-065-A
Motor type: 2x L1C-3P-300-100-LD2-O-O-S			
Peak force (saturation range) at I_p	F_p	N	1988
Peak force (linear range) at I_{pl}	F_{pl}	N	1462
Nominal force (not cooled) at I_c	F_c	N	628
Nominal force (cooled) at I_{cw}	F_{cw}	N	1426
Motor constant (25 °C)	k_m	N/ \sqrt{W}	27.9
Peak current (saturation range)	I_p	A_{rms}	8.2
Peak current (linear range)	I_{pl}	A_{rms}	5.1
Nominal current at P_{Ic} (not cooled)	I_c	A_{rms}	2.2
Nominal current at P_{Iw} (cooled)	I_{cw}	A_{rms}	5.0
Maximum DC link voltage	U_{DCL}	V	600
Maximum acceleration (without addition)	a_{max}	m/s^2	31
Maximum speed (without addition)	v_{max}	m/s	3.5
Positioning accuracy		μm	± 20
Repeat accuracy		μm	± 2
Components	Symbol	Unit	LDDS-065-A
Guidance			Linear guidance KUVE
Measuring system			Inductive, incremental, 1 V_{pp} differential signal
Grating period, measuring system		μm	3000
Operating pressure, pneumatic clamp	p	bar	> 6.0



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