

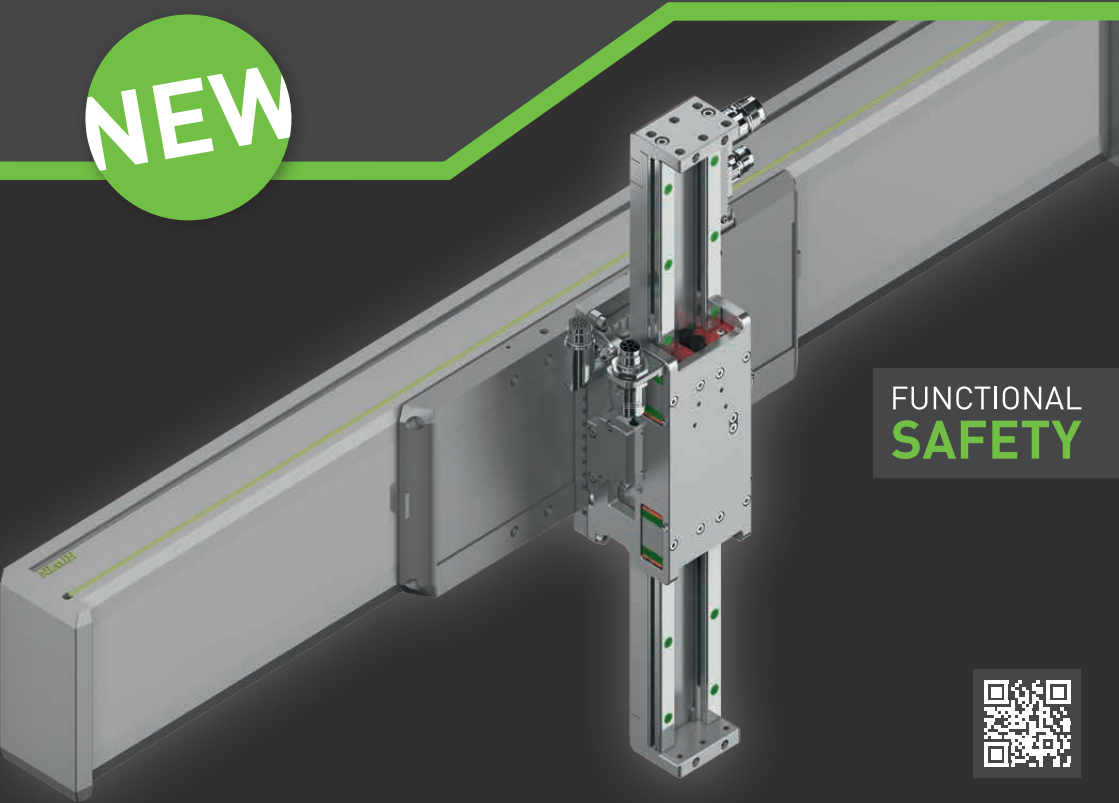
CV AXIS

For shortest positioning times and process stability in dynamic, high-speed vertical positioning tasks

Features:

- Extremely dynamic due to lightweight cantilever
- Compact design because of maintenance-free linear motor
- Perfect for vertical applications
- Optional with weight compensation available
- Can be combined to a X-Z-System or integrated with our linear axis system
- Customizable to meet application requirements e.g. stroke, energy chain, distance measuring system, clamping element

NEW



FUNCTIONAL
SAFETY



TECHNICAL DATA

	Symbol	Unit	CV080LA11
Stroke	L_{ST}	mm	50, 90, 120, 150, 180, 210, 240, 270, 300
Drive block W×H×L		mm	80 × 80 × 180
Length (total)	L_T	mm	$L_{ST} + 191$
Typical vertical payload		kg	7
Typical horizontal payload		kg	11
Maximum moment X	M_{dynmax}	Nm	90
Maximum moment Y	M_{dynmax}	Nm	229
Maximum moment Z	M_{dynmax}	Nm	229
Max. speed	v_{max}	m/s	5
Max. acceleration	a_{max}	m/s ²	40
Repeat accuracy		mm	± 0.005
Straightness		mm/ 300 mm	± 0.05
Cantilever W×H		mm	60 × 48.8
Mass at 0-stroke (total)		kg	3.32
Cantilever mass at 0-stroke		kg	1.18
Mass of cantilever per 100 mm stroke		kg/ 100 mm	0.69
Linear motor			LMSA11G
Continuous force	F_c	N	103
Peak force	F_p	N	289
Guide type			QEHT5SA
Weight compensation (optional)		N	40/50/60 (magnetic)
Clamping element (optional)		N	400 (NC, pneumatic, 5.5 bar)
Distance measuring systems			BML-S1G0 (BiSS-C), BML-S1G0 (SSI), BML-SGA (Drive-Clig), LIC 211 (EnDat 2.2)

