

Product Information for Series LEHZ, 2-Finger Electric Gripper

SPECIFICATIONS								
Actuator specification	Model		LEHZ10	LEHZ16	LEHZ20	LEHZ25	LEHZ32	LEHZ40
	Stroke/both sides (mm)		4	6	10	14	22	30
	Gripping force 40 to 100% (N) ^{Note 1}	Standard	6 to 14		16 to 40		52 to 130	84 to 210
		Compact	2 to 6	3 to 8	11 to 28		-	-
	Opening and closing speed /Gripping Speed (mm/s) ^{Note 2}		5 to 80 / 5 to 50		5 to 100 / 5 to 50		5 to 120 / 5 to 50	
	Drive method		Slide screw and sliding cam					
	Finger guide type		Linear guide (No circulation)					
	Repeatability (mm) ^{Note 3}		±0.02					
	Repeated length determination accuracy (mm) ^{Note 4}		±0.05					
	Finger backlash /both sides (mm) ^{Note 5}		≤0.5				≤1.0	
	Impact resistance/vibration resistance (m/sec ²) ^{Note 6}		150/30					
	Operating temperature range (°C)		5 to 40 (No condensation and freezing)					
	Operating humidity range (%)		35 to 85 (No condensation and freezing)					
	Weight (g)	Standard	165	220	430	585	1120	1760
Compact		135	190	365	520	-	-	
Electric specification	Motor Size		•20		•28		•42	
	Motor		HB type 2-phase step motor (Unipolar connection)					
	Encoder (Angular displacement sensor)		Incremental A/B phase (800 pulse/rotation)					
	Power supply		24VDC ±10%					
	Ratings power consumption /during energy saving(W) ^{Note 7}	Standard	10/5		24/12		33/8	43/9
		Compact	8/5		17/8		-	-
Moment max. power consumption (W) ^{Note 8}		Standard	17		40		56	73

	Compact	14	29	-	-
	Controller weight (g)	150/Screw mounting type			
Note 1	Gripping force should be from 10 to 20 times the weight of the object to be conveyed. The force should be 150% when releasing the workpiece. Gripping force accuracy should be +/-30% (F.S.) for LEHZ10/16, +/-25% (F.S.) for LEHZ20/25, +/-20% (F.S.) for LEHZ32/40				
Note 2	Gripping speed should be set in the range shown in the table as gripping speed during gripping operation.				
Note 3	Repeatability means the variation of the gripping position (workpiece position) when the gripping operation is performed by the same sequence for the same workpiece.				
Note 4	Repeated length determination accuracy means dispersion (value on the controller monitor) when the workpiece is repeatedly held in the same position.				
Note 5	There will be no influence of backlash when gripping. Make the stroke longer for the amount of backlash when opening.				
Note 6	Impact resistance: No malfunction occurred when the gripper was tested with a drop tester in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the gripper in the initial state) Vibration resistance: No malfunction occurred in a test ranging between 45 to 2000 Hz. Test was performed in both an axial direction and a perpendicular direction to the lead screw. (The test was performed with the gripper in the initial state)				
Note 7	With 100% (max.) gripping force and including the controller.				
Note 8	During motor phase detection step on power up and including the controller.				

Last Updated on 9/23/09

By sf