

# LBC, LA•LAH and LNP Series

LA

LNP

The adopting high precision screw have realized high positioning accuracy to the micron and sub-micron order required in measuring instruments, test and inspection systems, optical equipment, semiconductor and liquid crystal manufacturing equipment.

## •LBC Series Ratings

Model	Item	Drive	Stroke(mm)	Maximum Driving Force(N)	Resolution(μm)	Maximum Speed (mm/s)	Repeatability	Outside Dimensions (mm)	Total Length (mm)
LBC-25A-5D6K		AC motor	50	6000	0.32	20	±5μm or less/50mm stroke	φ136	353
LBC-25A-5D12K		AC motor	50	12000	0.16	10			

## •LA Series Ratings

Model	Item	Drive	Stroke(mm)	Maximum Driving Force(N)	Resolution(μm)	Maximum Speed (mm/s)	Uni-directional Positioning Accuracy	Repeatability	Outside Dimensions (mm)	Total Length (mm)
LA-30B-10-F		DC motor	10	49	0.0174	0.9	2μm or less/ 40μm stroke	±0.1 μm or less/ 1mm stroke	□ 28	143
LA-32-30-F		DC motor	30	49	0.0174	0.9			□ 36	164

## •LAH Series Ratings

Model	Item	Drive	Stroke(mm)	Maximum Driving Force(N)	Resolution(μm)	Maximum Speed (mm/s)	Uni-directional Positioning Accuracy	Repeatability	Outside Dimensions (mm)	Total Length (mm)
LAH-46-1002-F		DC motor	10	392	0.069	3.7	4μm or less/ 0.2mm stroke	±0.5μm or less/ 1mm stroke	□ 47	185
LAH-46-3002-F		DC motor	30	392	0.069	3.7			□ 47	204
LAH-80-5020-F-PA		Stepping motor	50	3000	2	10	4μm or less/ 2mm stroke	±1μm or less/ 1mm stroke	□ 85	320

## •LNP Series Ratings

Model	Item	Drive	Stroke(mm)	Table Size (mm)	Load (kg)	Resolution(μm)	Maximum Speed (mm/s)	Uni-directional Positioning Accuracy	Repeatability	Total Length (mm)
LNP-4040-13	Stepping motor		13	40x40	10	0.04 0.02	1.8 1.5	6.0μm or less	±0.5μm or less	143.3
	DC servomotor					0.056 0.028				172.5
LNP-5050-13	Stepping motor		13	50x50	10	0.04 0.02	1.8 1.5	6.0μm or less	±0.5μm or less	153.3
	DC servomotor					0.056 0.028				182.5
LNP-6060-15	Stepping motor		15	60x60	10	0.04 0.02	1.8 1.5	6.0μm or less	±0.5μm or less	163.3
	DC servomotor					0.056 0.028				192.5
LNP-7070-15	Stepping motor		15	70x70	10	0.04 0.02	1.8 1.5	6.0μm or less	±0.5μm or less	173.3
	DC servomotor					0.056 0.028				202.5

• 1 Varies with the reduction ratio of the Harmonic Drive incorporated in the actuator.  
 • Use the Suruga Seiki Co.,LTD. Micro Module PG Series product for the table.

### Main Application Target

- Metal machine tools
- Flat panel display manufacturing systems
- Semiconductor manufacturing systems
- Communication equipment
- Telescopes
- Printed circuit board manufacturing machines
- Wood, light metal and plastic machine tools
- Glass and ceramic manufacturing equipment

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 Harmonic Drive LLC  
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 catalog of this  
 product.**