



## NHL Series L-Shaped Parallel Pneumatic Grippers

This series operates with an integrated linear guide and cam drive for finger operation that is perpendicular to the cylinder operation axis. Ultra-compact and ultra-light weight design provides maximum space reduction for OEM designs.

- High Precision, Preloaded Linear Guides Rotated 90 Degrees
- Low Profile Design Allows for Installations in Tight Places
- Dowel Holes Standard for Precision Installations
- Design Allows for High O.D. Grip Force in a Smaller Envelope
- Work Ports Located on Both Sides for Easy Plumbing
- RoHS Compliance

Improve the performance and reduce the size of your next generation machine. Koganei sets the standard for supplying innovative high-quality solutions with unmatched reliability. Optimized designs, with a wide variety of styles and sizes, increase speed to market as well as provide solutions for most applications. Expedite deliveries with product stocked in the USA.

KOGANEI is committed to your success from concept, to initial design, to final delivery and beyond.

### Operations

#### Double Acting Parallel Linear Guide L-Shaped

### NHL Series L-Shaped Parallel Pneumatic Grippers

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Model	Operation	Bore mm	Stroke Open/Close mm [in]	Repeatability mm [in]	Centering Accuracy mm [in]	Port Size metric [imperial]	Max Grip Point Length mm [in]	Effective Gripping Force*		Max Frequency cycle / min	Pressure Range MPa [psi]	Temperature Range °C [°F]
								Close N [lbf]	Open N [lbf]			
NHL1D	Double Acting Parallel Linear Guide L-Shaped	8	4 [0.16]	0.05 [0.002]	Consult Factory	M3 x 0.5 [upon request]	Consult Factory	11 [2.5]	6 [1.3]	120	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHL1D	Double Acting Parallel Linear Guide L-Shaped	10	4 [0.16]	0.05 [0.002]	Consult Factory	M3 x 0.5 [upon request]	Consult Factory	21 [4.7]	12 [2.7]	120	0.25 - 0.7 [36.3 - 101.5]	0 - 60 [32 - 140]
NHL1D	Double Acting Parallel Linear Guide L-Shaped	16	6 [0.24]	0.05 [0.002]	Consult Factory	M5 x 0.8 [upon request]	Consult Factory	50 [11.2]	34 [7.6]	120	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHL1D	Double Acting Parallel Linear Guide L-Shaped	20	10 [0.39]	0.05 [0.002]	Consult Factory	M5 x 0.8 [upon request]	Consult Factory	85 [19.1]	68 [15.3]	120	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]
NHL1D	Double Acting Parallel Linear Guide L-Shaped	25	14 [0.55]	0.05 [0.002]	Consult Factory	M5 x 0.8 [upon request]	Consult Factory	165 [37.1]	118 [26.5]	120	0.2 - 0.7 [29.0 - 101.5]	0 - 60 [32 - 140]

\* @ 0.5 MPa / 72.5 psi and 30 mm gripping point length