Linear Slide Hand LSH-HP1 Series

Increased linear guide performance

High rigidity

LCM LCR LCG LCW

I CX STM

STR2

UCA₂ ULK*

JSK/M2 JSG

JSC3/JSC4 USSD **UFCD** USC UB LMB I MI HCM HCA LBC CAC4 UCAC2 CAC-N UCAC-N RCS2 RCC2 PCC SHC MCP

GLC MFC

BBS RRC

RV3*

NHS

HRL

Hand

Chuk MecHnd/Chuk

ShkAbs

Ending LSH-HP LSH FH100 BSA2

BHA/BHG I HA **LHAG**

HAP **HKP** HCP

HGP HLF2

HLA/HLB

HI AG/HI BG HLC

HLD

HMF HMF-G

HMFB

HFP FH500

HBI

HJL

HMD

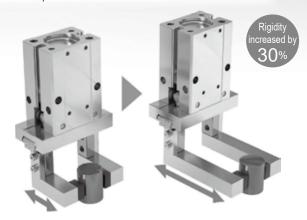
HDL

HJD BHE

FJ

FΚ SpdContr Increased amount of overhang

By improving the guide rigidity beyond that of conventional products, the allowable moment has been increased.



High precision

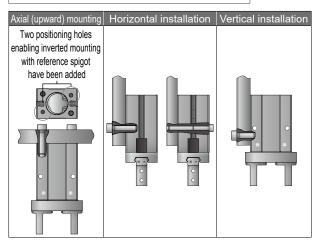
Repeatability ±0.01 mm

High rigidity and high precision are achieved with a structure integrating the guide rail and finger.



Increased flexibility in design

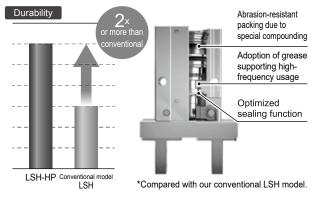
Can be mounted on three directions



Long service life

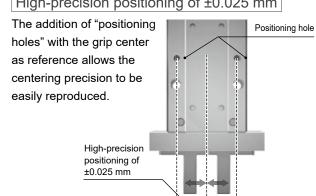
Double the durability of conventional models*

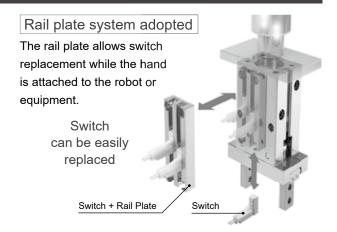
Packing design has been optimized. Highly advanced sliding technology has enabled durability twice that of conventional models.



Reduced processes on site

High-precision positioning of ±0.025 mm





LSH-HP Series

LCR LCG LCW

LCX STM

STR2

UCA2

ULK*
JSK/M2
JSG
JSC3/JSC

USSD UFCD

USC
UB
JSB3
LMB
LML
HCM
HCA
LBC
CAC4
UCAC2

CAC-N

UCAC-N RCS2 RCC2 PCC

SHC MCP

MFC BBS RRC GRC RV3* NHS HRL

MecHnd/Chuk
ShkAbs
FJ
FK
SpdContr
Ending
LSH-HP
LSH
FH100
BSA2

BHA/BHG LHA LHAG HAP HKP HCP HGP HLF2 HLA/HLB HLA/HLB HLC HLD

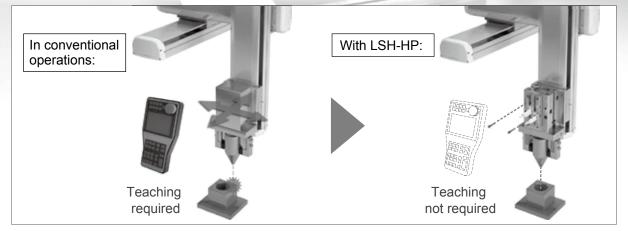
HMF-G HMF-B HFP FH500 HBL HJL HMD HDL HJD

Increased productivity begins with the Linear Slide Hand

Usage Examples: Reduction of processes on site

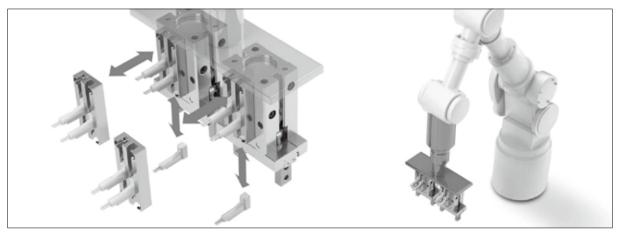
Replacement of body

Positioning holes that guarantee centering precision enable highly reproducible mounting, with no fine adjustment required. This contributes to reduced mounting adjustment work-hours and improved reproducibility.

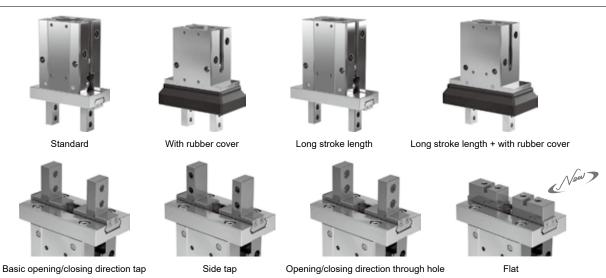


Replacement of switch

The switch can be replaced without detaching the hand from the robot or equipment.



Extensive series variation



BHE



High precision

LCM LCR LCG LCW

LCX STM STG

STR2

UCA₂

ULK* JSK/M2

JSC3/JSC4 USSD

UFCD USC

UB

LMB

I MI HCM HCA LBC

CAC4 UCAC2

CAC-N UCAC-N

RCS2

RCC2 PCC SHC

MCP GLC MFC BBS RRC

GRC RV3* NHS HRL

Hand Chuk MecHnd/Chul ShkAbs FJ FΚ

SpdContr

Ending LSH-HP

LSH FH100

BSA2 BHA/BHG LHA **LHAG** HAP

HKP HCP HGP HLF2 HLA/HLB HI AG/HI BG HLC HLD **HMF**

HMF-G **HMFB HFP** FH500 HBI HJL HMD

HDL

HJD

BHE

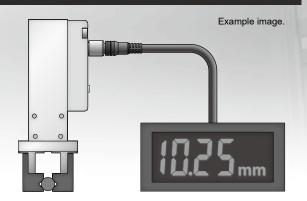
Repeatability ±0.02 mm

A new sensor system is adopted and integrated, achieving higher repeatability than ever before.

Linearity FS ±0.5%

With correction adapter: FS ±0.5% Without correction adapter: FS ±3%

A correction adapter is adopted to improve the linear accuracy.

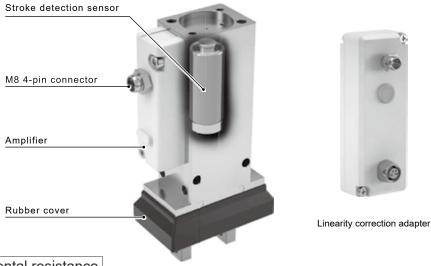


Integrated structure

Adopts an LVDT* sensor highly resistant to vibration and impact.

A displacement sensor is built into the body, achieving a high-precision integrated structure.

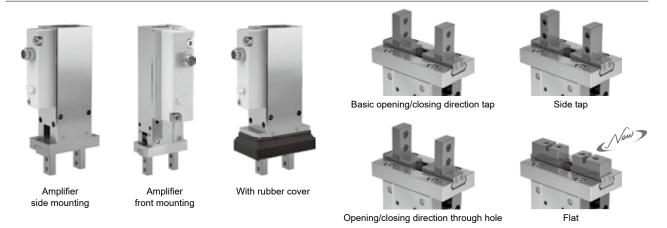
* LVDT is short for Linear Variable Differential Transformer, a sensor that converts mechanical displacement into electric signal for output.



Environmental resistance

The IP65 equivalent amplifier and rubber cover prevent the ingress of cutting chips and water drops.

Extensive series variation

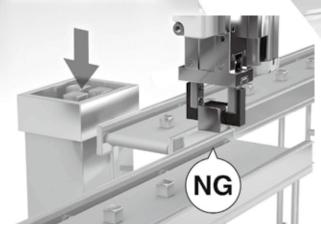


A new series that combines improved reliability and productivity.

Usage examples

Workpiece foreign object judgment

Grips and measures simultaneously, reducing the number of inspection steps.



Gripping orientation judgment

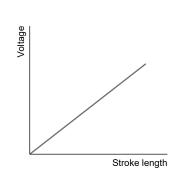
By detecting misaligned orientations when gripped, contact accidents can be prevented at the transported destination.



Elimination of human error

All strokes are output in detail, eliminating manual adjustment error as caused by conventional switches.





Workpiece model judgment

Capable of instantaneously judging minute differences in workpiece models.



Minute workpiece gripping / missed grip judgment

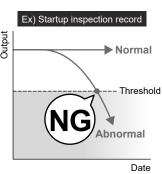
Accurately judges whether even tiny workpieces were gripped or missed.



Predictive maintenance

Monitors abnormal wear and deformation of gripping fingers and jigs through changes in output to prevent equipment and robot damage.





I CX STM STR2 UCA2 ULK* JSK/M2 USSD UFCD USC UB LMB I MI HCM HCA LBC CAC4 UCAC2 CAC-N UCAC-N RCS2 RCC2 PCC SHC MCP GLC MFC BBS RRC GRC RV3 NHS HRL FJ FK

LCR LCG LCW

Chuk MecHnd/Ch ShkAbs

SpdCont Ending

LSH-H

LSH FH100 BSA2 BHA/BHG LHA LHAG HAP HKP HCP HGP HLF2 HLA/HLB HLAG/HLBG HLC HLD HMF HMF-G **HMFB** HFP FH500 HBI HJL

HMD

HDL HJD BHE