

Mu-checker

Lever/Cartridge Probe Heads SERIES 519 — Electronic micrometer

SPECIFICATIONS

Lever heads

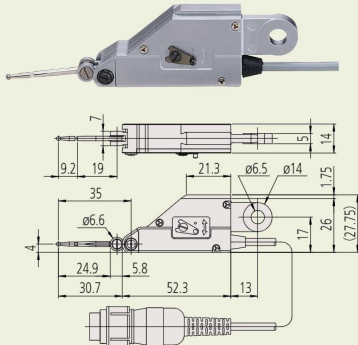
Order No.	519-521	519-522	519-326	519-327
Model	MLH-521	MLH-522	MLH-326	MLH-327
Measuring range (mm)	±0.5			
Stroke (mm)	±0.6			±0.65
Measuring force (N)	Approx. 0.2	Approx. 0.02	Approx. 0.15	
Linearity (%)	±0.3			±0.5
Stylus support	Pivot bearing	Pivot bearing	Parallel-leaf spring	Pivot bearing

Note: A ø2 mm ball-ended stylus is supplied as standard with all probes.

Common specifications

- Connection: Half-bridge
- Cable length: 2 m
- Connector type: MAS-5100 (DIN5P) or equivalent

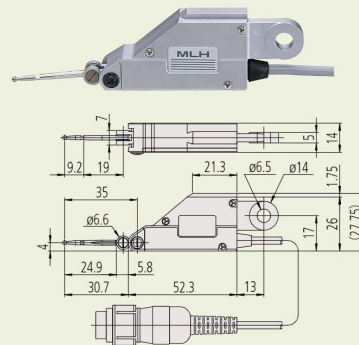
519-521 MLH-521



- Interchangeable styli:
ø1: **520940**
(Standard accessory)
ø2: **520939**
(Standard equipment)
ø3: **520938**
(Standard accessory)

Unit: mm

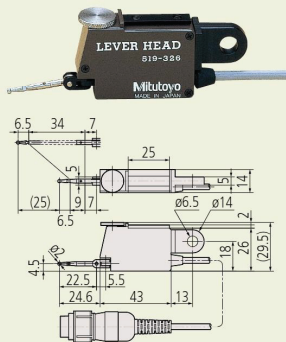
519-522 MLH-522



- Interchangeable styli:
ø1: **520940**
(Standard accessory)
ø2: **520939**
(Standard equipment)
ø3: **520938**
(Standard accessory)

Unit: mm

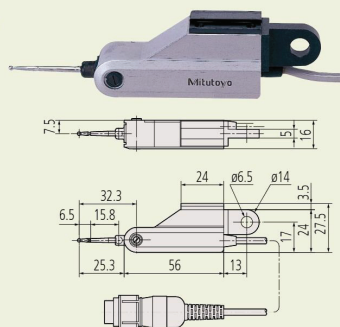
519-326 MLH-326



- Interchangeable styli:
ø1: **102824**
(Optional)
ø2: **102825**
(Standard equipment)
ø3: **102826**
(Optional)
- Extension bar
L=9 mm (Standard equipment)
L=34 mm (When a bar for extending the distance to the stylus tip is supplied)

Unit: mm

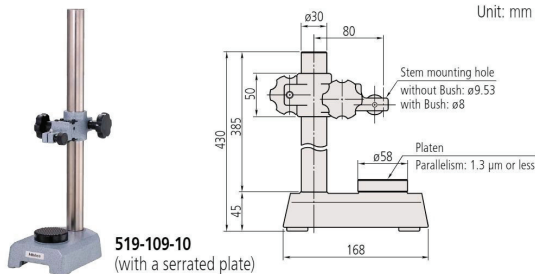
519-327 MLH-327



- Interchangeable styli:
ø1: **102824**
(Optional)
ø2: **102825**
(Standard equipment)
ø3: **102826**
(Optional)

Unit: mm

Transfer Stand



519-109-10
(with a serrated plate)

Unit: mm

Main Specifications

Order No.	Effective transfer range (mm)	Fine adjustment range (mm)	Mounting hole (mm)
519-109-10	0 - 320	1	Without Bush: ø9.53 With Bush: ø8

Note on stylus angle

If the stylus of a pivot bearing type probe makes an angle with a workpiece surface, as in the figure, calibration should be performed for accurate measurement. Alternatively, the displayed value may be corrected by multiplying it by the appropriate correction factor as given in the table.

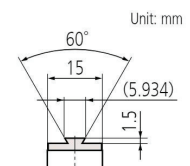
Model **519-326** does not need correction.

Angle (°)	Correction factor
0°	1.00
10°	0.98
20°	0.94
30°	0.87
40°	0.77
50°	0.64
60°	0.50

Display value × Correction factor = Corrected value

Dimensions of dovetail plate on probe body

Enables mounting on a lever head mounting bracket or stem.



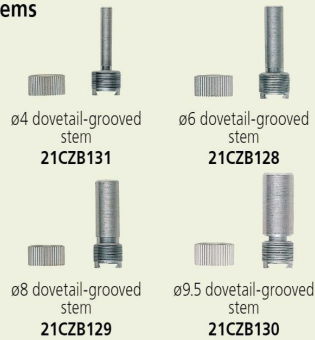
Unit: mm

Mitutoyo

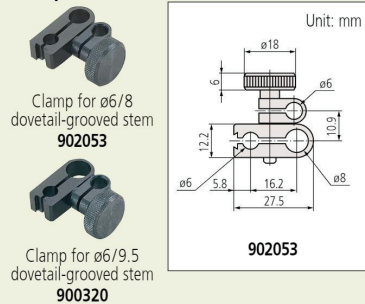
Lever-head mounting brackets (optional)

Optional accessories for Mitutoyo test indicators can be used.

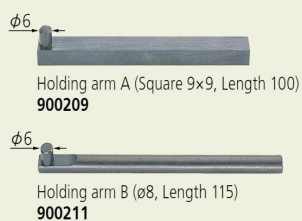
Stems



Clamp



Holder



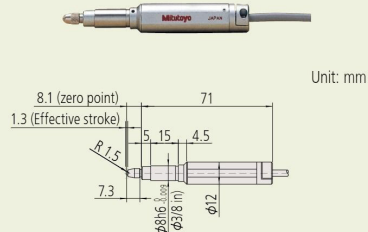
SPECIFICATIONS

Cartridge heads (special order only)

Order No.	519-331	519-332	519-346	519-347	519-385	519-341	519-348
Model	MCH-331	MCH-332	MCHS-346	MCHS-347	MCH-385	MCHP-341	MCHS-348
Measuring range (mm)	±0.5	±0.5	±0.25	±0.5	±1.5	±2.5	±1.0
Stroke (mm)	±0.65	±0.65	+0.34 -0.26	+0.85 -0.65	+2.35 -1.65	+3.2 -2.8	+1.35 -1.15
Measuring force (N)	Approx. 0.25	Approx. 0.25	Approx. 0.7	Approx. 0.7	Approx. 0.7	Approx. 0.9	Approx. 0.7
Stem Dia. (mm)	ø8	ø3/8 in	ø8	ø8	ø8	ø8	ø8
Linearity (%)	±0.5	±0.5	±0.3	±0.3	±0.3	±0.5	±0.3
Plunger support	Plain bearing			Linear ball-bearing			

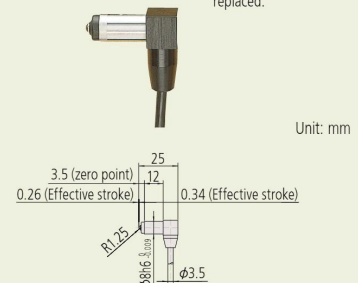
519-331/(519-332) MCH-331/(MCH-332)

- M2.5x5 (4-48 UNF) interchangeable contact points for dial indicators can be used.



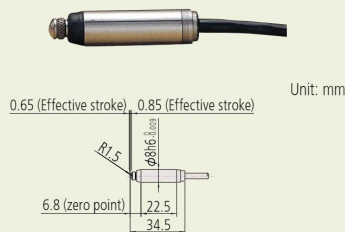
519-346 MCHS-346

- Dedicated contact point only that cannot be replaced.



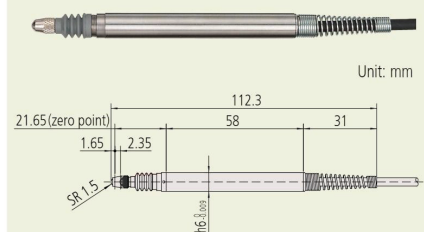
519-347 MCHS-347

- Dedicated contact point only that cannot be replaced.



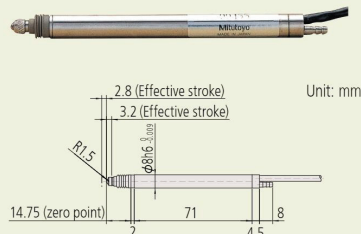
519-385 MCH-385

- M2.5x5 interchangeable contact points for dial indicators can be used.



519-341 MCHP-341

- M2.5x5 interchangeable contact points for dial indicators can be used.
- Recommended air pressure 0.05 MPa



519-348 MCHS-348

- M2.5x5 interchangeable contact points for dial indicators can be used.

