

MICRO MANIPULATOR & PROBE NEEDLE (COAXIAL PROBE)

We offer various types of products other than shown here.
We also produce specialized products according to your needs.
Please inquire us.

PROBE NEEDLE

Precision Probe Needle

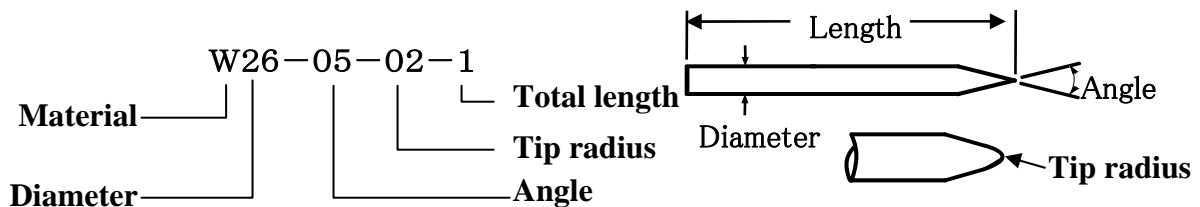
FEATURES

Material of probe is either Tungsten or Beryllium copper.


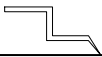

Needle pressure of Beryllium is so low in comparison with Tungsten that it suit the condition where you want to low Needle pressure or measure low leakage

※ Needle pressure of Beryllium is about half amount of that of Tungsten, comparing at same configuration.

MJC can supply various size of probe needle according to customer's usage and requirement.



| Material | Diameter | Angle | Tip radius | Total length |
|----------------------------------------------------|-------------|-----------|----------------|--------------|
| W (Tungsten) B (Beryllium copper) | 26 (0.66mm) | 05 (5°) | 004 (1 μ m) | 1 (25.4mm) |
| | | 08 (8°) | 01 (2.5 μ m) | 1·¼ (31.7mm) |
| | | 10 (10°) | 02 (5 μ m) | 1·½ (38.1mm) |
| | | | 05 (12.7 μ m) | |
| | | | 10 (25 μ m) | |

| Model No. | Form | Usage |
|-------------------|-------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| W26-05-01 × 1 | Straight Needle  | At using L arm |
| W26-05-01 × 1·¼ | | |
| W26-05-02 × 1·¼ | | |
| W26-05-05 × 1·¼ | | |
| W26-05-02 × 2·¾ A | Needle combined use with probe card  | At using Zoom7·Micro zoom |
| W26-05-02 × 2·¾ B | Needle combined use with probe card  | At using socket board, purge board |

※ MJC can supply probe needle except size of tip radius above. Please inquire us.

MODEL 203, 203-SP80 MICRO MANIPULATOR



203

203-SP80

203-PICO

| Model No. | Usage |
|-----------|--------------------------------------------------------------------|
| 203 | Manipulator(with magnetic holder) for high precision manual prober |
| 203-SP80 | For 708fT,SP-80,SP-8000 (with magnetic holder) |
| 203-PICO | For installation of pico probe |

FEATURES

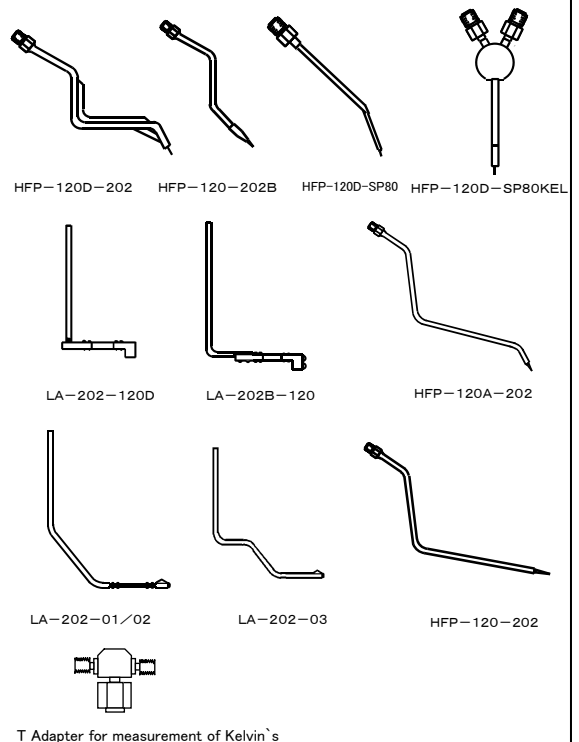
- (1) Read under $10 \mu m$ due to using handle of X,Y,Z axis, which has microhead.
- (2) Smooth to operate due to using the steal bowl on slide base side of X,Y,Z.
- (3) Measure low leakage by coaxial probe needle.
- (4) Organize system suitable for measurement by plentiful option.

MEASURE

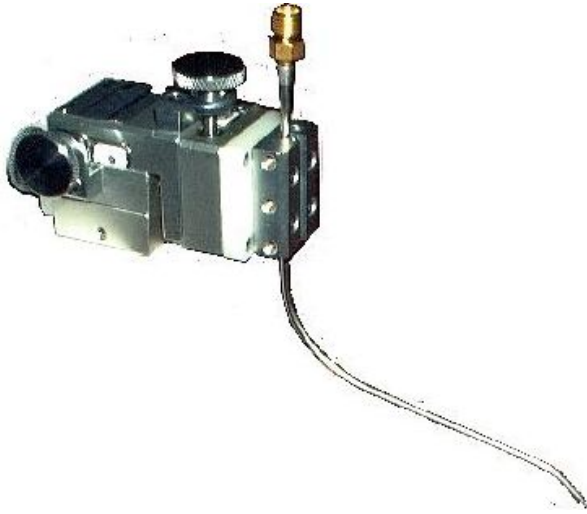
- Measurements : 203 34(W) × 203(D) × 88(H)mm
203-SP80 34(W) × 203(D) × 120(H)mm
- Total stroke : X,Y,Z each 12mm
- Stage travel : X,Y,Z each 500/revolution

OPTION

| MODEL No. | Item | Usage | Note |
|------------------|----------------------------------------------|------------------------------------------------------------------------|-----------------------------------------|
| HFP-120-202 | For 203 Coaxial probe needle | Low leakage, Capacity, Coaxial probe for measurement of high frequency | Normal Temperature |
| HFP-120A-202 | " | " | high temperature (heat-resistant 300°C) |
| HFP-120D-202 | With spacer | " | 1. 2 φ Noise less |
| HFP-120-202B | " | " | 2. 2 φ Noise less |
| HFP-120D-SP80 | Coaxial probe needle | For SP-80,SP-8000 | For high and low temp (-50°C~+200°C) |
| HFP-120D-SP80KEL | Kelvin's connection | " | " |
| LA-202-120D | Arm for installation of Coaxial probe needle | For installation HFP-120D-202 | Arm for 1. 2 φ |
| LA-202B-120 | " | For installation HFP-120-202B | 2. 2 φ |
| LA-202-01 | L arm for precision probe needle | Soft contact type | Standard |
| LA-202-02 | " | " | Insulation style |
| LA-202-03 | " | Hard contact type | 2. 5 φ |



MODEL 204C MICRO POSISIONER



Easy to operate and stable due to straight line motion of X. Y. Z. action.

| | |
|-------|-----------------------------------------------------------------------------|
| 204CL | Take a view from holder side, handle of X. Y. Z. axis belong to left side. |
| 204CR | Take a view from holder side, handle of X. Y. Z. axis belong to right side. |

FEATURE

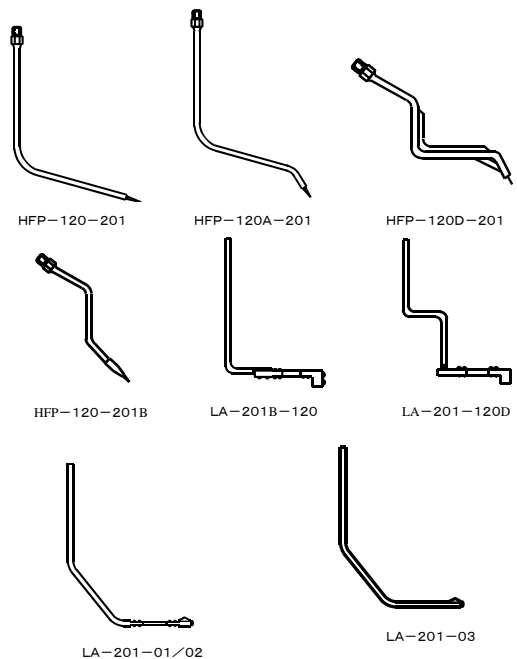
- (1) easy to set up due to magnetic bottom plate.
- (2) contact minute pad under test by X. Y. Z. system
- (3) Measure low leakage by coaxial probe needle(option)
- (4) Organize system suitable for measurement by plentiful option

SPECIFICA







- Measurements : 43(W) × 83(D) × 67(H)mm
- Total stroke : X.Y. Z. each 10mm
- Stage travel : X. Y. Z. each 500 μm / revolution

OPTION

| MODEL No. | Item | Usage | Note |
|--------------|------------------------------------|------------------------------------------------------------------------|------------------------------------|
| HFP-120-201 | For 204C Coaxial probe | Low leakage, Capacity, Coaxial probe for measurement of high frequency | Standard |
| HFP-120A-201 | " | " | High temp (heat resistance +300°C) |
| HFP-120D-201 | " With spacer | " | 1. 2 φ Noise less |
| HFP-120-201B | " | " | 2. 2 φ Noise less |
| LA-201-120D | Arm for installation coaxial probe | For installation of HFP-120D-201 | 1. 2 φ Arm |
| LA-201B-120 | " | For installation of HFP-120-201B | 2. 2 φ |
| LA-201-01 | Precision probe needle L arm | Soft contact type | Standard |
| LA-201-02 | " | " | Insulation style |
| LA-201-03 | " | Hard contact type | 2. 5 φ |



COAXIAL CABLE

| Model No. | Connector form | Note | Usage | Form |
|------------|------------------|--------------------------|--------------------|------------------------------------------------------------------------------------|
| HFP-60 | OSM-OSM | Standard length 80cm | |  |
| HFP-60A | OSM-OPEN | | |  |
| HFP-60B | OSM-FEMALEPIN | | For straight probe |  |
| HFP-60C | OSM-Terminal Pin | | For chuck top |  |
| BNC-BNC-1M | BNC-BNC | Standard length 100cm | |  |
| HFP-60-05 | OSM-OSM | Standard length 60cm | For 203-SP80 |  |

★Please be advised that specification may vary for product improvement.

★We offer various products other than shown here. Please inquire us.

Last modified on Jan 19 2012

MICRONICS JAPAN CO.,LTD.

System Sales Dept.

ST Sales Section

2-6-8 Kichijoji Honcho, Musashino-shi, Tokyo, Japan 180-8508

Phone : 81-422-21-0194 Fax : 81-422-21-2680

URL <http://www.mjc.co.jp>

©2009 Micronics Japan Co., Ltd.