

## Types of Mounting Adaptors

Narishige carries micromanipulation products as well as mounting adaptors for installing the micromanipulators on microscopes. We usually discuss mounting adaptors from the view point of the manipulator to be mounted. In this news, we will discuss mounting adaptors from the view point of its characteristics.

### ◆◆ Seven Types of Mounting Adaptors ◆◆

Mounting adaptors can be grouped broadly into four types according to its characteristics. They can be further divided into seven types according to mounting methods and positions.

#### 1. Type A

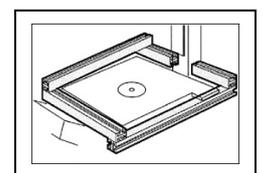
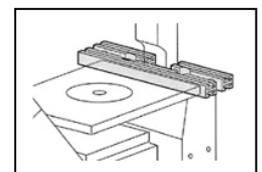
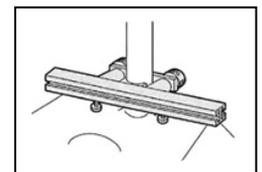
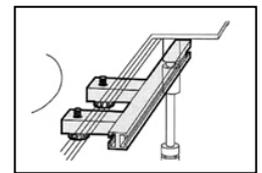
Stage side mounted type. Manipulators are put on the side of the microscope stage with the aid of a height adjustment plate (P-1A/B/C).

※Typical manipulator models... MN-151, MN-153, M-152, WR-6, etc.

#### 2. Type B/B2

Illumination column mounted type. This type is fixed to the illumination column of the microscope and mounts typical micromanipulators for microinjection applications.

※Typical manipulator models... Fine manipulators (MMO-202ND, MO-202U, MMO-203) in combination with coarse manipulators (MM-89, MN-4, MMN-1). Also MWS-1, MWS-1A, MWS-1B, etc.



#### <Difference between Types B and B2>

Type B : Vertical supports are included. Used for MMN-1 coarse manipulator.

Type B2 : Vertical support is not included. Used for coarse manipulators other than MMN-1.

#### 3. Type C/C2

Double railed type. This type allows for a better rigid installation. The two rails secure the micromanipulators firmly for electrophysiological applications.

※Typical manipulator models... MHW-3, NMN-21/25, MM-80, EMM-3NV, etc.

#### <Difference between Types C and C2>

Type C : The mounting adaptor is fixed to the rear of the microscope.

Type C2 : The mounting adaptor is fixed to the front of the microscope.

#### 4. Type D/D2

Surround mount type. This type of adaptor is an atypical type and surrounds the microscope stage to hold manipulators.

※In principle, this type is designed for micromanipulators used in electrophysiological applications. However, as this is a special kind of application, please consult with Narishige if you have interest in this type.

#### <Point>

Type B/B2 allows for changing to different adaptor types by part replacement or recombination.

#### ★ Type B2 + NR2 (2 pieces) = Type B ★

When Type B is not available but Type B2 is available, Type B2 adaptor can turn into Type B with the aid of NR2. On the other hand, when Type B2 is not available but Type B is available, Type B adaptor is chosen.

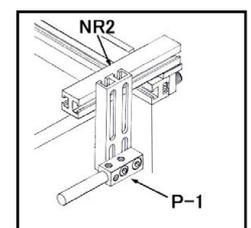
The incorporated NR2 is removed and it can be used as Type B2.

※NN-D is an exception and does not allow recombination.

#### ★ NR2 recombined in Type B, or Type B2 + NR2 (recombined) = Type A ★

When Type A is not available but Type B or B2 is, NR2 is recombined to be Type A.

To see how this is done, please refer to Narishige Web News No.26.



If you have any questions or need information, please contact us.