



Cannula implantation system

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Components:

Guide cannula



Guide cannula consists of a threaded cylindrical plastic pedestal and a stainless steel tube. It has to be preimplanted into brain and fixed with dental cement. Both dummy cannula and internal cannula can be inserted into guide cannula individually.

Dummy cannula



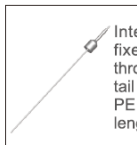
Stainless steel wire and threaded plastic cap make a dummy cannula. It can be inserted into guide cannula and fixed by screw to seal the guide cannula and prevent outflow of tissue fluid after injection. The length of the stainless steel wire can be customized.

Metal Cannula



The metal materials avoid biting after the cannula implantation.

Internal cannula



Internal cannula can be fixed into guide cannula through fixing screw and its tail end is connected with PE tube for injections. The length can be customized.

Fixing screw



Fixing screw fixes internal cannula to guide cannula.

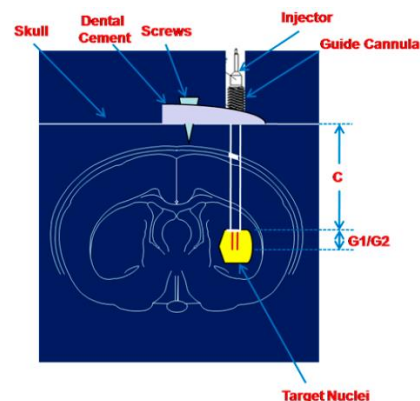
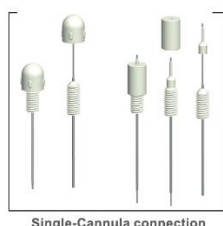
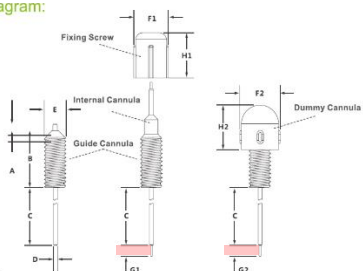


Diagram for Customization

Coring Diagram:



Single-Cannula connection

Diagrams:

- A - The length of the stainless steel tubing below the plastic pedestal.
- B - The height of the cylindrical plastic base.
- C - The length of the stainless steel tubing below the plastic pedestal, can be customized.
- D - External diameter of stainless steel guide cannulas.
- E - External diameter of cylindrical plastic base.
- F1 - External diameter of Lock nut.
- H1 - Height of Lock nut.
- F2 - External diameter of Dummy Cannulas.
- H2 - Height of Dummy Cannulas.
- G1 - The internal cannulas projection length beyond the guide cannulas tip, can be customized.
- G2 - The dummy cannulas projection length beyond the guide cannulas tip, can be customized.



Order information (Unit: mm):

Cannula

Matching	Guide Cannula	Dummy Cannula (plastic)	Dummy Cannula (metal)	Internal Cannula	Fixing Screw	PE Tube
1	62001 OD 0.64 x ID 0.45	62101 OD 0.40	62106 OD 0.40	62201 OD 0.41 x ID 0.25	62501 OD 5.5 x L7.5	62320 OD 0.85 x ID 0.42
2	62002 OD 0.56 x ID 0.38	62102 OD 0.30	62107 OD 0.30	62202 OD 0.36 x ID 0.20	62502 OD 5.5 x L7.0	62320 OD 0.85 x ID 0.42
3	62003 OD 0.48 x ID 0.34	62102 OD 0.30	62107 OD 0.30	62203 OD 0.30 x ID 0.14	62502 OD 5.5 x L7.0	62320 OD 0.85 x ID 0.42
4	62004 OD 0.41 x ID 0.25	62104 OD 0.20	62108 OD 0.20	62204 OD 0.21 x ID 0.11	62502 OD 5.5 x L7.0	62320 OD 0.85 x ID 0.42
5	62005 OD 0.71 x ID 0.45	62101 OD 0.40	62106 OD 0.40	62205 OD 0.41 x ID 0.25	62501 OD 5.5 x L7.5	62320 OD 0.85 x ID 0.42

Double Cannula

Introduction:

RWD has launched I, II, III and IV series double cannula systems for acute and chronic intracranial drug administration in animal experiments.

Series I: Recommended for rat or mouse use, 0.48mm (outer diameter) x 0.34mm (internal diameter).

Series II: Recommended for rat use, 0.64mm (outer diameter) x 0.45mm (internal diameter).

Series III: Specifically for mouse use, 0.48mm (outer diameter) x 0.34mm (internal diameter).

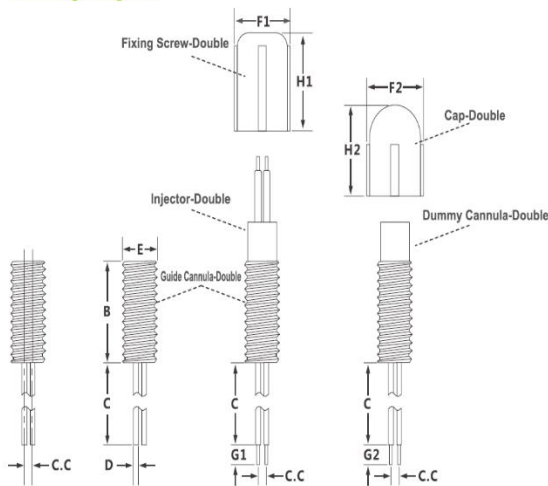
The height of cylindrical plastic pedestal of Guide cannula is different from Series I.

Series IV: 0.41mm (outer diameter) x 0.25mm (internal diameter).

Comments:

- B - Height of cylindrical plastic pedestal, which is 7.8mm for Series I, II & IV and 5.5mm for Series III.
- ★C - Length of stainless steel tube below the cylindrical plastic pedestal. The default value is 13.7mm for Series I & III, 20.0mm for Series II and 10.0mm for Series IV. The length can be customized with default value as maximum.
- ★C.C - Center distance between double guide cannulas, double dummy cannulas and double injectors. These 3 values should be the same in one system. It can be customized (range: 0.5mm-3.0mm, the minimal increment 0.1mm).
- D - Outer diameter of stainless steel tube and it has 3 sizes: 0.48mm for Series I & III, 0.64mm for Series II and 0.41mm for Series IV.
- E - Outer diameter of the cylindrical plastic pedestal and it comes with 3.5mm or 5.0mm. It is related to the outer diameter and centre distance between double guide cannulas.
- F1 - Outer diameter of fixing screw and it comes with 5.5mm (when E=3.5mm) or 7.0mm (when E=5.0mm).
- H1 - Height of the fixing screw which is 7.5mm.
- F2 - Outer diameter of guide cannula cap and it comes with 5.5mm (when E=3.5mm) or 7.0mm (when E=5.0mm).
- H2 - Height of guide cannula cap and it comes with 7.00mm (when E=3.5mm) and 7.5mm (when E=5.0mm);
- ★G1 - Length of protruding part after internal cannula is inserted into guide cannula. The default value is 5.5mm for Series I, 3.5mm for Series II, 7.5mm for Series III and 4.0 mm for Series IV. This length can be customized.
- ★G2 - Length of protruding part after dummy cannula is inserted into guide cannula. The default value is 3.0mm for Series I, 4.0mm for Series II, 5.5mm for Series III and 4.0 mm for Series IV. This length can be customized.

Cording Diagram:



関連機器



Series III:

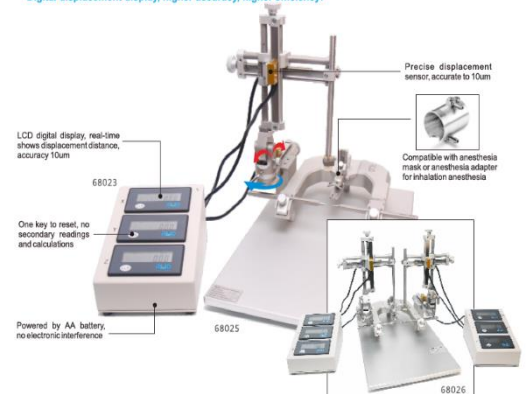
	C.C	Guide Cannula	Dummy Cannula	Injector	Cap	Fixing Screw
Guide Cannula: O.D. 0.48mm x I.D. 0.34mm	C.C 0.5mm	62050	62121	62221	62523	62521
Dummy Cannula: O.D. 0.30mm	C.C 0.6mm	62051	62122	62222		
Injector: O.D. 0.30mm x I.D. 0.14mm	C.C 0.8mm	62052	62123	62223		
Cap: F2 5.5mm x H2 7.0mm (62523)	C.C 1.0mm	62053	62124	62224		
F2 7.0mm x H2 7.5mm (62524)	C.C 1.2mm	62054	62125	62225		
	C.C 1.3mm	62055	62126	62226	62523	62521
	C.C 1.4mm	62056	62127	62227		
Fixing Screw: F1 5.5mm x H1 7.5mm (62521)	C.C 1.5mm	62057	62128	62228		
F1 7.0mm x H1 7.5mm (62522)	C.C 1.6mm	62058	62129	62229		
Plastic Pedestal of Guide Cannula: Height B = 5.5mm	C.C 1.8mm	62059	62130	62230		
Diameter E = M3.5mm	C.C 2.0mm	62060	62131	62231		

Series IV:

	C.C	Guide Cannula	Dummy Cannula	Injector	Cap	Fixing Screw
Guide Cannula: O.D. 0.41mm x I.D. 0.25mm	C.C 0.5mm	62061	62161	62261	62523	62521
Dummy Cannula: O.D. 0.20mm	C.C 0.6mm	62062	62162	62262		
Injector: O.D. 0.21mm x I.D. 0.11mm	C.C 0.8mm	62063	62163	62263		
Cap: F2 5.5mm x H2 7.0mm (62523)	C.C 1.0mm	62064	62164	62264		
F2 7.0mm x H2 7.5mm (62524)	C.C 1.2mm	62065	62165	62265		
	C.C 1.3mm	62066	62166	62266		
Fixing Screw: F1 5.5mm x H1 7.5mm (62521)	C.C 1.4mm	62067	62167	62267		
F1 7.0mm x H1 7.5mm (62522)	C.C 1.5mm	62068	62168	62268		
Plastic Pedestal of Guide Cannula: Height B = 5.5mm	C.C 1.6mm	62069	62169	62269		
Diameter E = M3.5mm	C.C 1.8mm	62070	62170	62270		
	C.C 2.0mm	62071	62171	62271		

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