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# Contrast Media Injectors

( For CT/MRI/DSA Series )

SINO MDT

CFDA CE ®

Build Quality Build Reliability

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# SinoPower series

## ICT Injectors

SinoPower-D



SinoPower-S



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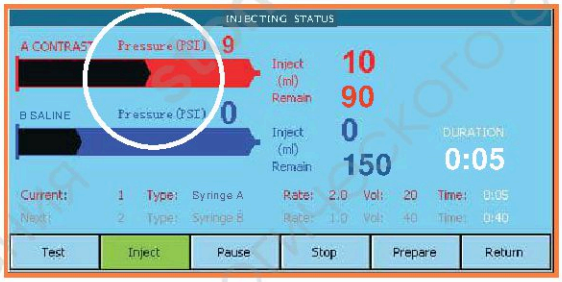
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# SinoPower



## Unique design of "Direct Pressure Sensor" protect patient

( Patent No.: ZL200920129005.9 )




- Real-time injection pressure display
- When the actual pressure exceeds the limit, the system will automatically stop injection and give alarm
- Effectively reduce the swelling caused by vascular rupture (See the application case)

## Local & remote real COLOR LCD touch screen display



- Remote console: able to edit the protocols and execution of injection, synchronous display of all operations of the local console
- Local console: all actions can be performed, and synchronous display of all operations of the remote console.

## LED rotation indicator

- LED clockwise rotation show the drug suction process
- LED counter clockwise rotation show the injection process



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# SinoPower

## Immediately stop the injection

- For the emergency,immediately stop injecting and prevent damage



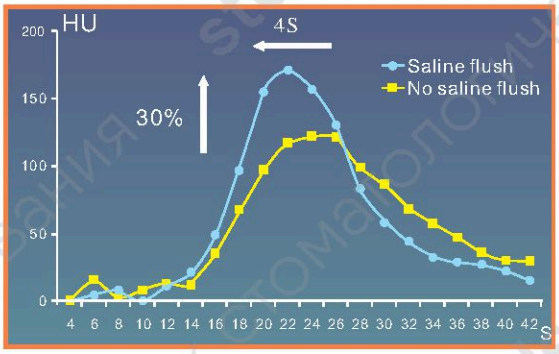
## Large handhold and large wheel

- *Easy to move and easy to fix the injector*



## *Dual syringe* injection, support saline flush function

**(SinoPower-D)**




- Saline flush reduce the fake image and get better enhancement, improve the image quality

## Syringe Maintainer 35℃±5℃ (≥1hr)

- Maintain the temperature of the contrast media and saline, making the injection process more comfortable



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## *Specifications of CT High-Pressure Injector*

| Model | SinoPower-S | SinoPower-D |
|---|---|---|
| Syringe | Single syringe | Dual syringe |
| **Size of syringe** | **200mL sterile syringe for high-pressure injector** | |
| Pressure limit | 50 Psi ~300Psi | |
| Flow rate | **0.1ml/s~10.0ml/s**<br>Step: 0.**1mL/s** | |
| Injection volume | **0.1mL** - Volume of syringe | |
| Injection delay | 0~600s | |
| **Injection phases** | 1~8 phases | |
| Injection protocol | Up to 120 protocols | |
| **Control console** | **7 inch real color touch LCD for both local and remote** | |
| Syringe heater | **35℃±5℃ ( ≥40min )** | |

# *Patented technology to protect patient*

## *-Application of SinoPower High-pressure Injector*

Patented technology of 'Direct Pressure Senor' to monitor real-time injection pressure, the injector will give alarm and stop injection when the pressure is abnormal, effectively reduce the swelling caused by vascular rupture to protect patient

**The application of SinoPower-D High-pressure Injector in Sun Yat-sen Memorial Hospital**




The Sun Yat-sen Memorial Hospital is an internationally well-known hospital with long history. In early February 2009, a SinoPower-D CT Injector was brought into use in the radiology department working with Siemens Sensation 64 CT . After being put in use, the new equipment has shown outstanding performance. The docoters and nurses responsible for on-site operation highly praise it: " SinoPower CT Injector is very safe, convenient and stable in use, having excellent clinical performance!"

**Unique and patented technology of 'Direct Pressure Sensor', avoid medical accident caused by leakage of liquid**

Enhanced Scan Injection has some risks in clinical use, if the needle hole moves away from blood vessel or the blood vessel is ruptured, the liquid will percolate through the skin to cause severe swelling and even fester. Fortunately, the SinoPower-D High can perceive real-time injection pressure, once the pressure exceeds limit extremely, the injector will give alarm and stop injection immediately to greatly reduce swelling and avoid accident.

Oneday, when making enhanced scan on a girl from Foshan, liquid leakage and swelling happened due to the needle was a little away from the blood vessel, as the girl's blood vessel is a little bit narrow. SinoPower-D High injector successfully detected abnormal pressure and stooped injection immediately, a medical accident was avoided. Afterwards, the on-site doctor said: "Thanks to the machine, an accident is avoided in time, otherwise the consequence will be terrible. "

**Powerful functions and stable working**

This CT department is very busy, more than 80 enhanced scan will be done per day sometime . In the peak time, there is case every 4-5 minutes, which covers scan of ordinary organs and brain. With so frequent use, SinoPower-D injector still works well all the time. During the 7 years after being put in use, several tens of thousands injections were finished without any problems, even under so intensive, long time and continuous use.

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# SinoAngio series
## DSA Injectors




## SinoAngio-600/1200

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# SinoAngio



## Perfect display quality




- 12.1 inch color LCD control display, large visual angle, graphic interface

## Specifications of DSA High-Pressure injector

| Model | SinoAngio-1200 | SinoAngio-600 |
|---|---|---|
| Syringe | Single syringe | |
| Size of syringe | 150mL sterile syringe | |
| Injection volume | 0.1mL - Volume of syringe | |
| Injection delay | 0-600 s | |
| Injection phases | 1-8 phases | |
| Injection protocol | Up to 120 protocols | |
| Syringe heater | 35°C±5°C ( >40min ) | |
| Tilt lockout | Rotate head to arm-down, minimize riskofairembolish | |
| Control console | 12.1 inch real color touch LCD for both local and remote (Remote is optional ) | |
| ISI | Synchronization of injection delay and scanning delay | |
| Pressure limit | 100 -1200 Psi | 100 -600 Psi |
| Flow rate | 0.1mL/s~50.0mL/s<br>Step:<br>0.1mL/s for 0.1mL/s<X<10.0mL/s<br>1mL/s for 10mL/s<X<50.0mL/s | 0.1mL/s-25.0mL/s<br>Step:<br>0.1mL/s for 0.1mL/s<X<10.0mL/s<br>1mL/s for 10mL/s<X<25.0mL/s |

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# SiПОМ'R /senes

## I MRI Injectors

NEW







SinoMRI

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# SinoMRI



## Unique display function

- Injection head digital display the volume of contrast media





## LED working status light

- LED shows dark green or dark blue, means the system is in standby state
- LED shows high light green or high light blue, means the system is in ready state
- LED shows blink high light green or blink high light blue, means the system is in injection state
- LED shows blink red, means the system is in alarm

## Specifications of MRI High-Pressure-Injector

| Mode | SinoMRI-A/AP SinoMRI-B/BP |
|---|---|
| Syinge | Double |
| Size of Syringe | 65mL sterile syringe |
| Injection Volume | 0.1mL~Volume of Syringe |
| Delay | 0~900s |
| Pause | 0~900s |
| Injection phases | 1-8phases |
| Injection protocol | up to120protocols |
| Pressure limit | 50~300psi 1psi increments |
| KVO | 0.1ml Pulsed every20~90s 1s increments default 30s |
| Flow Rate | 0.1ml/s~10ml/s 0.1ml/s increments |

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# Syringes for High Pressure Injectors

## Syringes for CT Injectors



200ml

Product code: **7.20.01.0058**

**Application:**
Medrad
1.MCT & MCT plus CT
2.Vistron CT
3.En Vision CT

**Standard configuration:**
1-200ml Syringe
1-1500mm Connecting Tube
1-Fill Tube



200ml

Product code: **7.20.01.0059(S)**
**7.20.01.0060(D)**

**Application:**
Medrad
1.Single stellant
2.Double stellant

**Single Standard configuration:**
1-200ml Syringe
1-1500mm Connecting Tube
1-Fill Tube

**Double Standard configuration:**
2-200mlSyringe
1-1500mm Connecting Tube
2-Fill Tube



200ml

Product code: **7.20.01.0062(S)**
**7.20.01.0061(D)**

**Application:**
EZEM
1.Single Empower
2.Double Empower

**Single Standard configuration:**
1-200ml Syringe
1-1500mm Connecting Tube
1-Fill Tube

**Double Standard configuration:**
2-200mlSyringe
1-1500mm Connecting Tube
2-Fill Tube



100ml

Product code: **7.20.01.0053**

**Application:**
Nemoto
A-60&A-25

**Single Standard configuration:**
1-100ml Syringe
1-1500mm Connecting Tube
1-Fill Tube



200ml

Product code: **7.20.01.0063**

**Application:**
Nemoto
A-60

**Single Standard configuration:**
1-200mlSyringe
1-1500mmConnecting Tube
1-Fill Tube



200ml

Product code: **7.20.01.0064(HP)**
**7.20.01.0065(DP)**

**Application:**
Medtron
1.Accutron HP
2.Accutron DP

**HPStandard configuration:**
1-200mlSyringe
1-1500mmConnecting Tube
1-Fill Tube

**DPStandard configuration:**
2-200mlSyringe
1-Connecting Tube
2-Fill Tube



200ml

Product code: **7.20.01.0066(S)**
**7.20.01.0067(D)**

**Application:**
Liebel-Flarsheim
CT9000&CT9000ADV

**Single Standard configuration:**
1-200mlSyringe
1-1500mmConnecting Tube
1-Fill Tube

**Double Standard configuration:**
2-200mlSyringe
1-Connecting Tube
2-Fill Tube



200ml

Product code: **7.20.934651(S)**
**7.20.934661(D)**

**Application:**
Sino Medical-Device
Technology Co., Ltd.
1.Sinopower-S
2.Sinopower-D

**Single Standard configuration:**
1-200mlSyringe
1-1500mmConnecting Tube
1-Fill Tube

**Double Standard configuration:**
2-200mlSyringe
1-Connecting Tube
2-Fill Tube

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# Syringes for DSA Injectors



150ml

Product code: **7.20.01.0033**

**Application:**
Medrad
Mark V

**Standard configuration:**
1-150mlSyringe
1-Fill Tube



125ml

Product code: **7.20.01.0068**

**Application:**
Nemoto
120S

**Standard configuration:**
1-125mlSyringe
1-Fill Tube



150ml

Product code: **7.20.01.0069**

**Application:**
Liebel-flarsheim
Lilumena

**Standard configuration:**
1-150mlSyringe
1-Fill Tube



130ml

Product code: **7.20.01.0070**

**Application:**
Medrad
Mark Ⅲ&MarkVI

**Standard configuration:**
1-130mlSyringe
1-Fill Tube

# Syringes for MRI Injectors



65ml

Product code: **7.20.01.0071**

**Application:**
Sino Medical-Device
Technology Co., Ltd.

SinoMRI-A/AP
SinoMRI-B/BP

**Standard configuration:**
2-65mlSyringe
1-Connecting Tube
2-Fill Tube



65m/115ml

Product code: **7.20.01.0072**

**Application:**
Medrad
Spectris&Solaris
**Spectris Standard configuration:**
2-65mlSyringe
1-Connecting Tube
2-Fill Tube
**Solaris Standard configuration:**
1-65mlSyringe
1-115mlSyringe
1-Connecting Tube
2-Fill Tube



60ml

Product code: **7.20.01.0032**

**Application:**
Liebel-flarsheim
Optostar LE,Elite

**Standard configuration:**
2-60mlSyringe
1-Connecting Tube
2-Fill Tube



60ml

Product code: **7.20.01.0038**

**Application:**
Nemoto
Sonic shot 50

**Standard configuration:**
2-60mlSyringe
1-Connecting Tube
1-Fill Tube

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# Syringe Kits and Accessory

## I Type Connection Tube for DSA Injector (Pressure limit: 1200 PSI)

| | |
|---|---|
| Product code | 7.20.01.0034 |
| Size | 1200mm |
| Standard configuration | 1 piece of 1200 mm transparent high-pressure connection tube ( With 1 Luertaper ) |



## I TypЄ Connection Tube (Pressure limit: 300 PSI)

| | | |
|---|---|---|
| Product code | 7.20.03.0018 | 7.20.03.0017 |
| Size | 1500mm | 1500mm |
| Standard configuration | 1 piece of spiral connection tube( Without one-way valve ) | 1 piece of spiral connection tube( With one-way valve ) |



## Y Type Connection Tube (Pressure limit: 300 PSI)

| | | |
|---|---|---|
| Product code | 7.20.03.0022 | 7.20.03.0019 |
| Size | 1500mm | 1500mm |
| Standard configuration | 1 piece of spiral connection tube( With 1 one-way valve ) | 1 piece of spiral connection tube( With 2 one-way valve ) |



## T Type Connection Tube (Pressure limit: 300 PSI)

| | | |
|---|---|---|
| Product code | 7.20.03.0020 | 7.20.03.0021 |
| Size | 1500mm | 1500mm |
| Standard configuration | 1 piece of spiral connection tube( With 1 one-way valve ) | 1 piece of spiral connection tub ( With 2 one-way valve ) |



## Fill Tube

| | | |
|---|---|---|
| Product code | 7.20.03.0028 | 7.20.03.0029 |
| Size | 100mm | 100mm |
| Standard configuration | 1 piece of 500 mm J type filltube | 1 connection tube (Fill tube) 1 end with long spike |




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