



*Amold* Hot Runner System



**TAIWAN**  
EXCELLENCE 2016



## COMPANY OVERVIEW



**ANN TONG**, established in 1989, is a pragmatic, focused, professional and innovation oriented Taiwanese enterprise. For years, we have been granted various patents and have won a number of awards as follows : Taiwan Excellence Award, Innovation Research Award, National Invention and Creation Award, Excellent enterprise of New Taipei City, etc.

We provide customer-oriented and all-around services to make sure that our customer will have a smooth production. Our mission statement is 'When customers succeed, Ann Tong succeeds.'

### AWARDS & RECOGNITION



### Three Business Divisions :

#### ① Hot Runner System

" **AMOLD** " is our hot runner brand and has been sold in the plastic injection molding market worldwide.

We have more than 29-years experiences in the hot runner field and our performance is highly recognized in this area. Our services include product design, mold development, hot runner design, assembly, mold trial, maintenance and operator training to provide our customer all kinds of related solutions measures.

We have launched 'Hot Runner Hospital' program providing all-round consulting services to assist our customers solving the molding issues.



#### ② Liquid Silicone Rubber (LSR)

Liquid Silicone Rubber (LSR) has been widely applied to various industries including medical, optics, automobile, consumer electronics, cell phone, smart wear, children products, daily necessities, sports equipment, etc. LSR has become the best choice materials for water-proof structure due to its injection molding process with silicone(R), insert metal (M+R), and insert plastic (P+R).

We provide silicone mold development, LSR cold runner system, cold deck, heat uniform analysis and design to help our customers improve the quality, save the cost and increase production output.



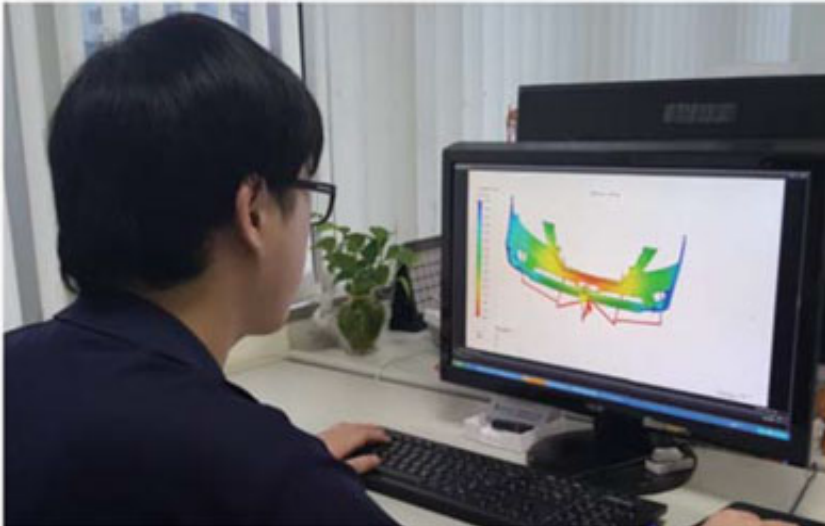
#### ③ Micro Injection Molding

The injection molding machine we utilize is world-renowned for its small size, for consuming the least resin and for its ability to produce small components.

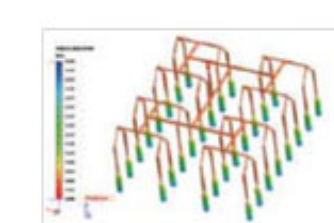
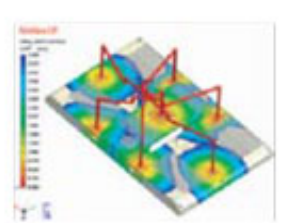
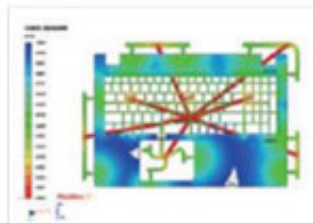
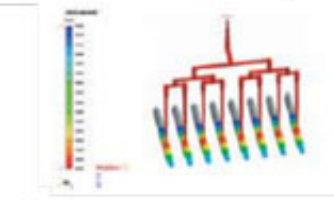
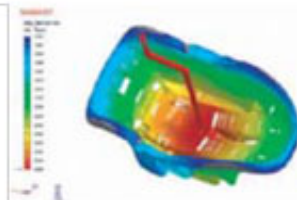
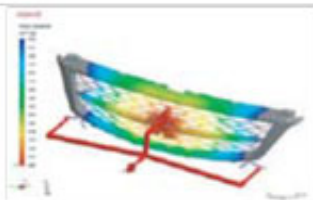
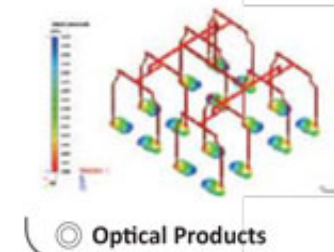
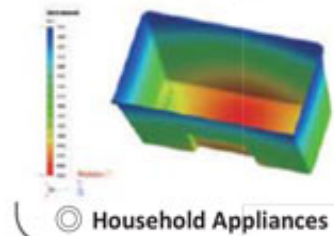
We assist our customers in developing injection molding technology and help integrate this technology into their mass production process for the following products : Medical components, precision electronic parts, connectors, small gears, optical elements, wearable devices, and so on.



# CAE MELT FLOW Analysis Service



We partner with **Moldex3D** a global leader in the melt flow analysis field, to assist our customers in designing hot runner layouts.

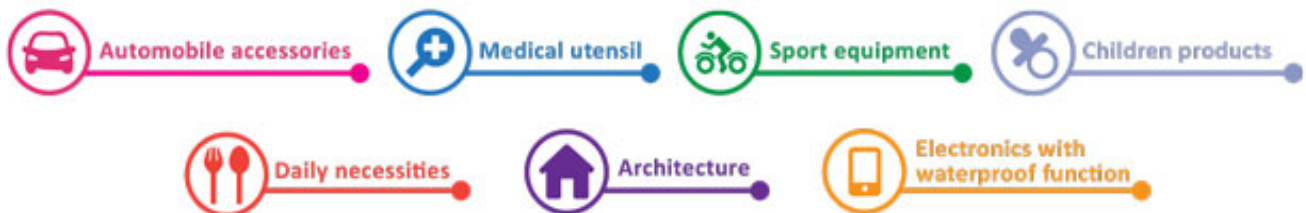




## Silicone mold development

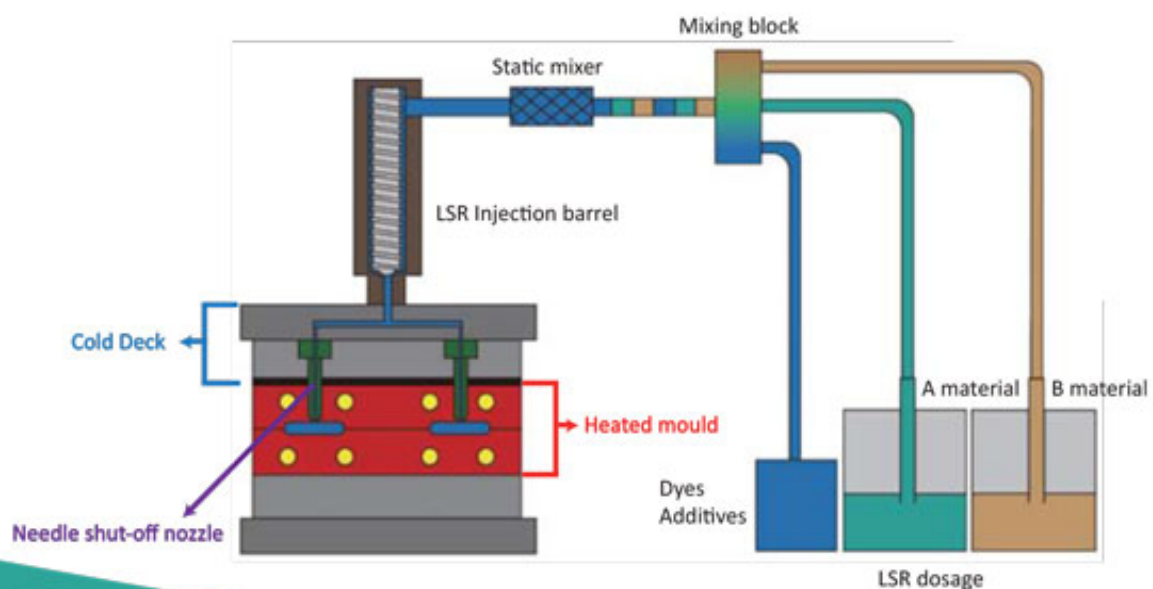
### LSR shut-off nozzle

### Cold Deck



### Liquid Injection Molding (LIM) process

Liquid injection molding uses a mechanical mixing process that focuses mainly on liquid silicone rubber (LSR) and similar elastomeric materials. Most of liquid silicone rubber products are made by injection molding. Mix material A and B of the dosage system and then each material will be pumped in a 1:1 ratio into a static mixer, which triggers the mixing reaction. The liquid mixture is then injected into a sealed mold and heat the mold for solidification.



## System advantages

### Module design of Cold Deck

Quick Installation and easy to maintain.



### System temperature analysis

High efficiency heat isolation & cooling, uniform heating system.



### Shut-off nozzle design



Don't need to cut scrap.

### Flow control valve



Control flow balance of multi-cavities.

### Temperature alarm device



Over temperature alarm to keep the silicone in the runner no solidification.

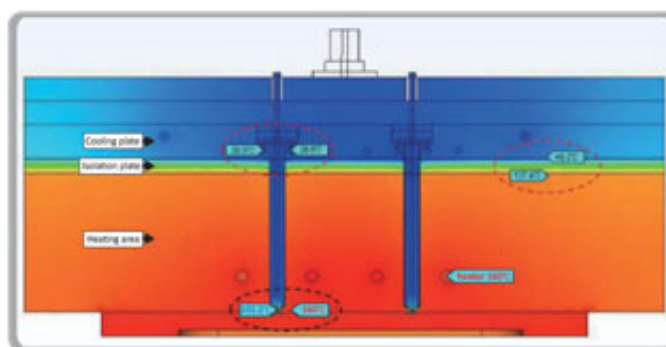


## Nozzle specification

(mm)

| Type    | Nozzle diameter | Cavity diameter |
|---------|-----------------|-----------------|
| CVRT-10 | Ø 12.7          | Ø 14            |
| CVRT-20 | Ø 20            | Ø 22            |
| CVRT-30 | Ø 38            | Ø 40            |

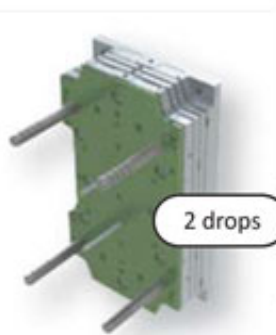
## Thermal analysis & heating system design



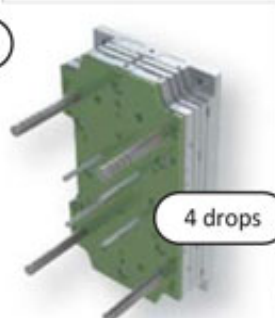
## Cold deck



single drop



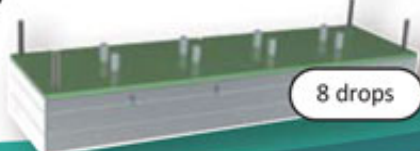
2 drops



4 drops



16 drops



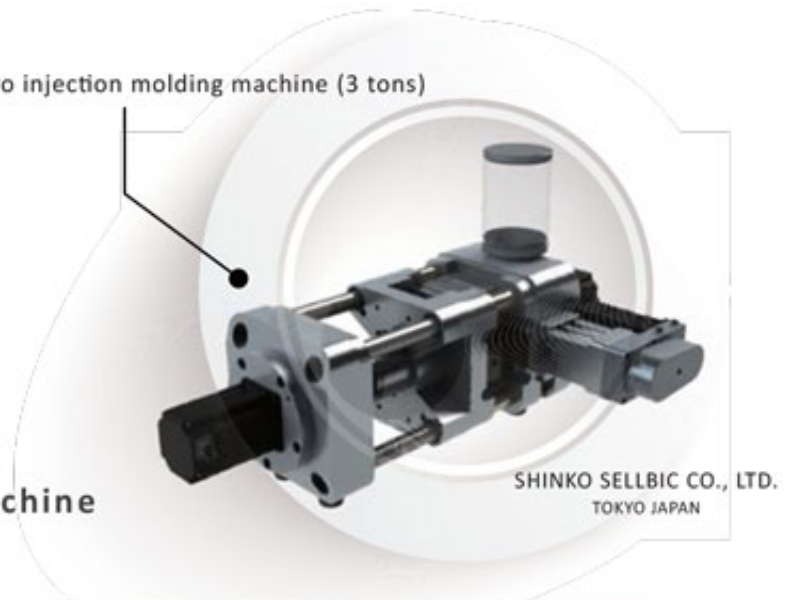
8 drops



# Micro Injection Molding

- Mold Manufacturing
- Micro Injection Molding
- Micro Injection Molding Machine

Micro injection molding machine (3 tons)



## Machine features :

1. The disc screw is quick disassembly designed and able to quickly color/resin change.
2. Modular design with reliable performance and easy to maintain.
3. With built-in hot runner to save the resin consumption and increase the molding stability.
4. Ultra-small volume/high-level effect can be integrated with other process equipment to the production line for one-stop automated production.
5. With online production and production line modularization to achieve flexible production and rapid change line production.
6. Minimize the waste and transportation of the material and parts.
7. Materials : From regular to engineering grade, all kinds of thermoplastics, even high temperature resins or glass fiber resins. (EX. TPE,TPU,PP,PE,ABS,POM,PA,PC,COC,LCP,PEI,PPSU,PVDF and PEEK.)



Vertical micro injection molding machine (3 tons)

|                                                   |                 |                                                  |
|---------------------------------------------------|-----------------|--------------------------------------------------|
| Clamping force (ton)                              |                 | 3                                                |
| Screw diameter (mm)                               |                 | 80                                               |
| Plunger diameter (mm)                             |                 | 10      8                                        |
| Theoretical capacity (cc)                         |                 | 3      2                                         |
| Maximum injection pressure (kgf/cm <sup>2</sup> ) |                 | 2268      3544                                   |
| Maximum injection speed (mm/sec)                  |                 | 60 ( can upgrade to 120 )                        |
| Machine dimensions (mm)                           | Horizontal type | (W) 640 * (D) 305 * (H) 300                      |
|                                                   | Vertical type   | (W) 260 * (D) 300 {or 519 with piston} * (H) 662 |
| Machine weight (kg)                               | Horizontal type | 45                                               |
|                                                   | Vertical type   | 85                                               |
| Power (v)                                         |                 | AC220V Single phase                              |
| Mold dimensions (mm)                              |                 | 80 * 130 * 80                                    |

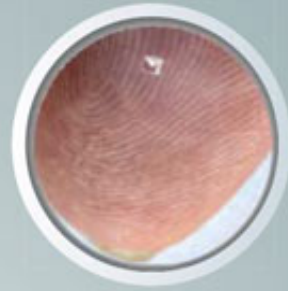




Product : Precision Parts  
Material : PMMA/LCP/ABS/PA  
Specification : 1~5 (mm)



Product : Connector  
Material : LCP 30%GF  
Specification : 10\*4\*2 (mm)



Product : Sensor Hub  
Material : PMMA  
Specification : 1\*1\*1 (mm)



Product : Micro Filter  
Material : PC  
Specification : 18\*0.8 (mm)



Product : Gear  
Material : POM  
Specification : 30\*11 / 12\*9 (mm)



Product : Screw / Nuts  
Material : PEEK  
Specification : 18\*8 (mm)



Product : VCM Holder  
Material : LCP  
Specification : 8\*8\*2 (mm)



Product : Electronic Parts  
Material : ABS  
Specification : 5\*2\*1 (mm)



Product : Stent  
Material : PLA / PEEK  
Specification : 15\*4 (mm)

## Other services

### ☛ Provide micro injection molding service and total solution.

- ✓ Accept small orders (minimum order is 300 pieces).
- ✓ Part weight range : 0.0001 g ~ 6 g.
- ✓ Part dimension range : 1mm ~ 20mm.

### ☛ PEEK Small screw.

- ✓ M1.2 / M1.4 / M1.6 / M1.7... and special sizes.
- ✓ Inch screw size is complete.



## HOT RUNNER

### Application & Performance



#### SVG Series



Product : Child safety seat  
Resin : PP



Product : Vegetable crisper  
Resin : PMMA

#### PET Series



Product : Container  
Resin : PET



Product : Preform  
Resin : PET

#### Multi-colored Series



Product : Organizer bins  
Resin : ABS/RPET/RABS/TPE

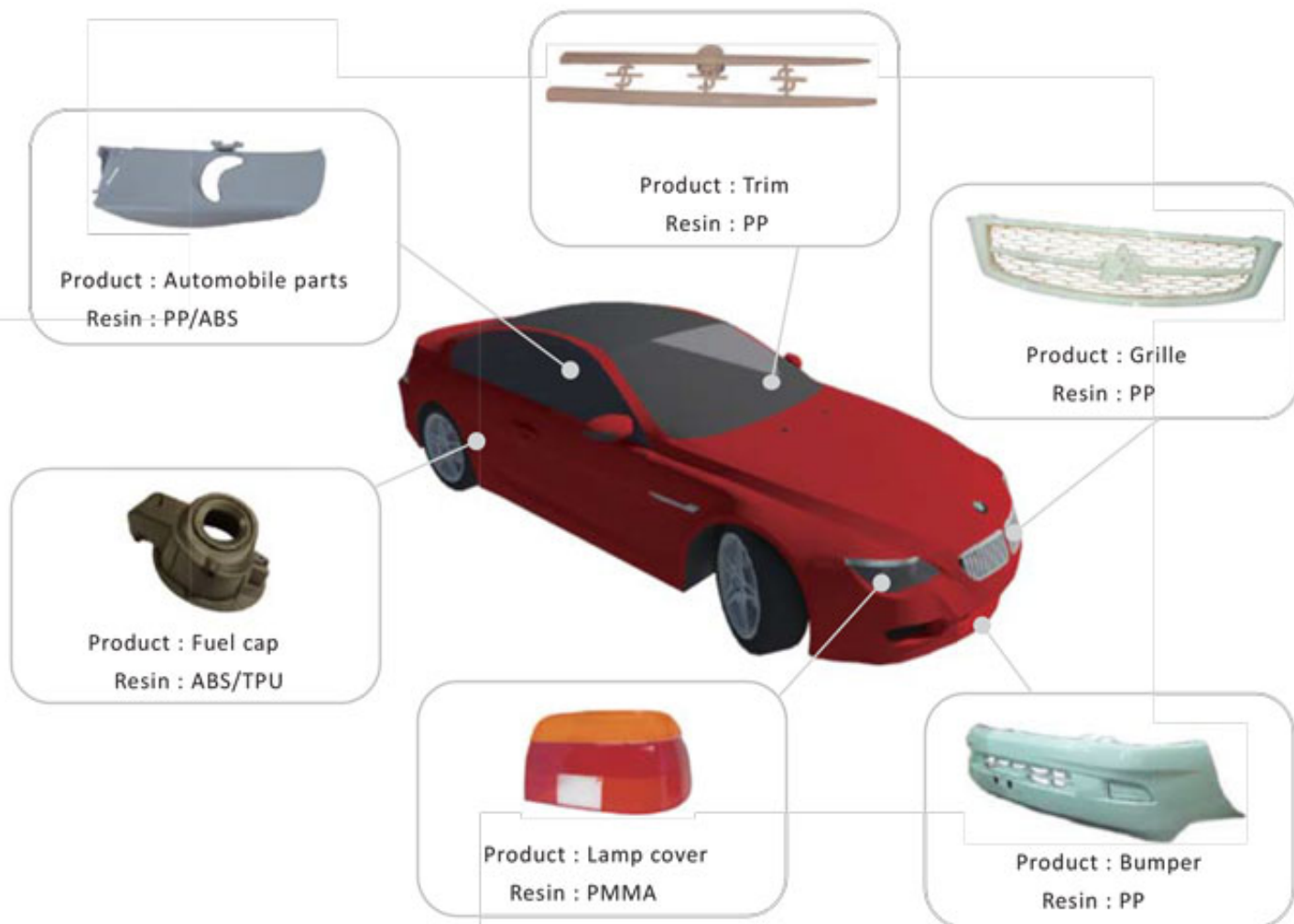


Product : Interdental brush  
Resin : PP/TPE



Product : TV base  
Resin : PC/ABS

## Automobile Series



## 3C Parts Series



## HOT RUNNER

### Application & Performance



#### Optical Parts Series



Product : Contact lens mould  
Resin : PP



Product : LED lens  
Resin : PMMA



Product : Contact lens box  
Resin : PP/COP



Product : Light guide plate  
Resin : PMMA/PC

#### Cosmetic Parts Series



1 Product : Cosmetic jar  
Resin : PET/PETG

2 Product : Cosmetic jar lining  
Resin : PET



Product : Cosmetic bottle  
Resin : PCTG



Product : Cosmetic jar  
Resin : PETG



Product : Mascara shell  
Resin : AS



Product : Mascara lining  
Resin : PS/ABS

## Insert Molding



Product : Mobile accessories  
Resin : PPS+GF insert molding  
aluminum



Product : Tablet frame  
Resin : PC



Product : Sensor  
Resin : PC/black

## Additive Glass Fiber



Product : Laptop cover  
Resin : PA+50%GF



Product : Laptop rear cover  
Resin : PC+25%~45%GF



Product : Bicycle mat  
Resin : PA+30%GF



Product : Solenoid valve & relay  
Resin : PA66+45%GF 、 PA9T+33%GF



Product : Automobile  
Resin : PA+33%GF 、 POM+25%GF

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## HOT RUNNER

### Application & Performance



#### Sports Series



Product : Swim mask  
Resin : PC



Product : Swim goggles  
Resin : PC



Product : Swim mask  
Resin : PC

#### Daily Necessities



Product : Knife handle  
Resin : PA+TPU



Product : Toothbrush handle  
Resin : PP



Product : Fork  
Resin : PP



Product : Ball-point pen  
Resin : PS



Product : Glasses frame  
Resin : PP



Product : Shoe cushion  
Resin : PP

## Medical



Product : Syringe-push rod  
Resin : PP



Product : Syringe-barrel  
Resin : PP



Product : Syringe  
Resin : PP

## Others



Product : Cap  
Resin : PP



Product : Plug  
Resin : PC



Product : Speaker  
Resin : PC



Product : Fan  
Resin : PA+GF



Product : Lampshade  
Resin : PC



Product : Pipe connector  
Resin : PP

**AMOLD**  
ANNTONG Ind.co.,Ltd.

Hot Runner System • LSR Cold Runner System • Micro Injection Molding

## Hot runner system related products

### Temperature Controller

## Temperature Controller ( RO6012003E-B01 )

### Features :

1. High sampling rate 50ms for very precise temperature regulation during molding process.
2. 5 LED indicators for different operating status.
3. Automatic self-diagnostics ability and error code warning.
4. Microprocessor based self-tuning temperature controller with PID algorithm.
5. Sophisticated protection for power and current surge.
6. Two ways of power output control : one is Zero-cross control, another is Phase angle control.
7. Soft start mode for longer heating element usage.
8. Accepts two types of thermocouple J or K input. Two temperature units °C and °F setting.
9. Alarm temperature range setting.



TC-H090602

TC-H090601



TC-H090608

TC-H090612

| Model        | Input Voltage | Apperance Dimension<br>( L * W * H cm ) | Weight<br>( kg ) |
|--------------|---------------|-----------------------------------------|------------------|
| TC-H090601-X | 220V          | 7 * 26 * 20.5                           | 6                |
| TC-H090602-X | 220V          | 23 * 30 * 20.5                          | 8                |
| TC-H090604-X | 220V / 380V   | 35 * 33 * 24.5                          | 15               |
| TC-H090606-X | 220V / 380V   | 45 * 33 * 24.5                          | 20.8             |
| TC-H090608-X | 220V / 380V   | 55 * 33 * 24.5                          | 28.8             |
| TC-H090612-X | 220V / 380V   | 75 * 33 * 24.5                          | 32.8             |

TC-H090601-X

— wire connection / A : Amold \ I : Incoe

— temperature control zones

— temperature control code

## Touch Screen Multi-Zone Temperature Controller

### Features :

1. Super security protection.
2. Full alarm indication is easy to view and troubleshoot.
3. Multiple operation options (soft start dehumidification function / standby insulation function / instant heating function / automatic and manual functions / °C, °F unit display / K, J type of temperature sensors are available ).
4. There are 4 models at below sheet (24 / 48 / 72 / 96 zones ).



HC-170-48

| Model                         | HC-170-24                 | HC-170-48        | HC-170-72         | HC-170-96         |
|-------------------------------|---------------------------|------------------|-------------------|-------------------|
| Control box model             | HC-170A-6                 | HC-170A-6*2      | HC-170A-6*3       | HC-170A-6*4       |
| Total power capacity          | 63 A                      | 63 A*2           | 63 A*3            | 63 A*4            |
| Output connector<br>SIZE B    | 24pin x 4                 | 24pin x 8        | 24pin x 12        | 24pin x 16        |
| Voltage specification         | 3 Ø 3W 220V / 3 Ø 4W 380V |                  |                   |                   |
| Power cable length            | 4M                        | 4M*2             | 4M*3              | 4M*4              |
| Temperature sensor            | K / J                     |                  |                   |                   |
| Control box size<br>W×H×D(mm) | 410x250x430               | 410x490x430      | 410x730x430       | 410x970x430       |
| Control box weight            | 18 KG                     | 38 KG            | 58 KG             | 78 KG             |
| Connection cable<br>SIZE B    | 24P-3M*4<br>10KG          | 24P-3M*8<br>20KG | 24P-3M*12<br>30KG | 24P-3M*16<br>40KG |
| HC-170 modules                | 6                         | 12               | 18                | 24                |
| Package Size<br>W×H×D(mm)     | 450x290x470               | 450x530x470      | 450x770x470       | 450x1010x470      |
| Gross weight                  | 40 KG                     | 70 KG            | 100 KG            | 135 KG            |

## Sequence Controller

The Valve gate system can solve welding line issue by using the sequence controller to set switch timing for on and off of valve pins.



SC-A-105-06

| Model       | Apperance Dimension<br>( L * W * H cm ) | Weight<br>( kg ) |
|-------------|-----------------------------------------|------------------|
| SC-A-105-02 | 23 * 30 * 20.5                          | 7.5              |
| SC-A-105-04 | 35 * 33 * 24.5                          | 14               |
| SC-A-105-06 | 45 * 33 * 24.5                          | 19.8             |
| SC-A-105-08 | 55 * 33 * 24.5                          | 27.8             |
| SC-A-105-12 | 75 * 33 * 24.5                          | 31.8             |

## Air Booster

The valve pins of the valve gate system are difficult to control due to the over volume of air loss; however, the Air Booster can enhance the air flow stability.



| Model      | Apperance Dimension<br>( L * W * H cm ) | Weight<br>( kg ) |
|------------|-----------------------------------------|------------------|
| TC-IPTC 04 | 41 * 66 * 88                            | 47               |

## Filter Nozzle

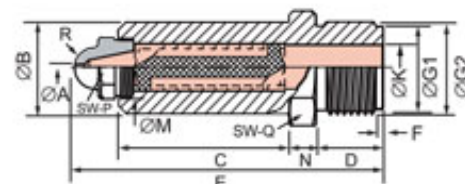
The filter Nozzle was installed in the front tip of the injection molding machine barrel and using different types of inserts lead to reach effectiveness of filtering impurities.

### Features :

1. Prevent the runner gate from clogging.
2. Filter impurities.
3. Easy to be installed and maintained.



- N40 : Used by injection machines less than 400 tons with one shot weight less than 1 KG.
- N50 : Used by 400-1000 ton injection machines with one shot weight less than 5 KG.



| Model | Ø A | Ø B | C  | D | E | F | Ø G1 | Ø G2 | K | Ø M | N  | SW-P | SW-Q | R  |
|-------|-----|-----|----|---|---|---|------|------|---|-----|----|------|------|----|
| N 40  | 3   | 40  | 70 |   |   |   |      |      |   | 30  | 16 | 23   | 41   | 10 |
| N 50  | 3   | 50  | 90 |   |   |   |      |      |   | 38  | 20 | 29   | 54   | 13 |

| Model                                                                                  | W   | H   | ØS                |
|----------------------------------------------------------------------------------------|-----|-----|-------------------|
| M1  | 0.8 | 0.8 | 15 、 20 、 30 、 45 |
|                                                                                        | 1.5 | 1.5 |                   |
| M2  | 50  | 0.8 |                   |

\* M1 : Suitable for general resin.  
M2 : Suitable for glass fiber resin.

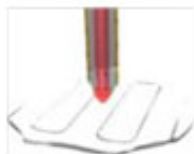
# Single Valve Gate Hot Runner System



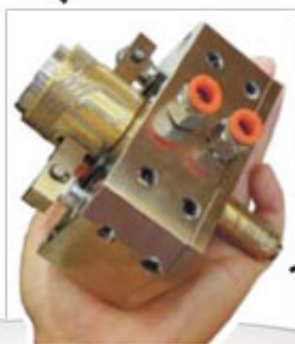
Dual-Cylinder, powerful for gate seal



All in one, easy to install



Nice gate mark



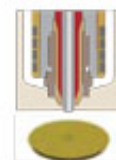
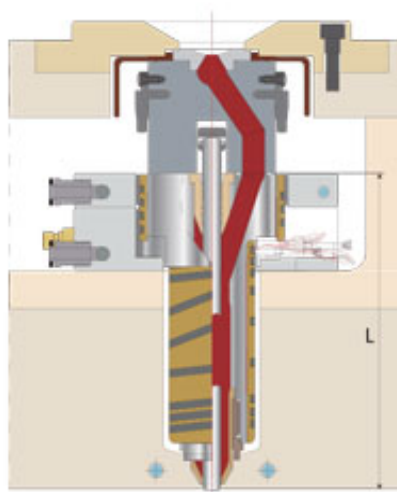
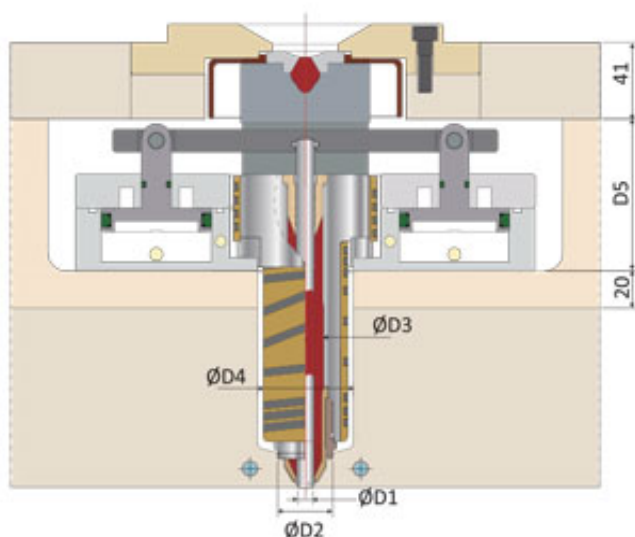
Customize for your need



Single valve gate system is the cutting-edge research product from ANN TONG.



## SVG



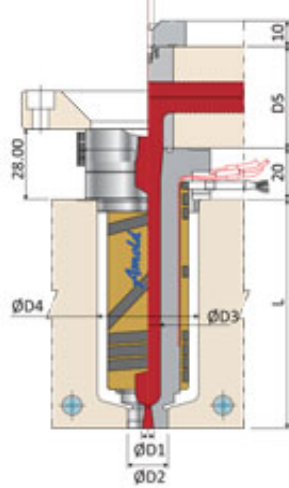
SVG T



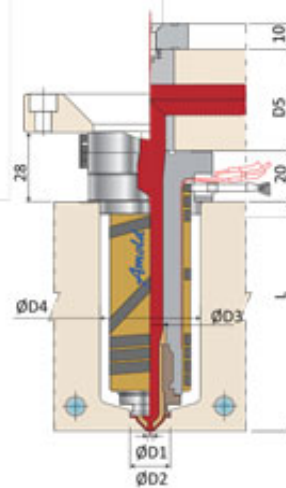
SVG P

| Type | SVGT 18   | SVGT 38   | SVGT 48   | SVGT 68   | SVGP 18   | SVGP 38   | SVGP 48   | SVGP 68   |
|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ø D1 | 0.8 ~ 1.5 | 1.5 ~ 2.5 | 3.0 ~ 5.0 | 7.0 ~ 9.0 | 0.8 ~ 1.5 | 1.5 ~ 2.5 | 3.0 ~ 3.5 | 7.0 ~ 9.0 |
| Ø D2 | 8         | 15        | 18        | 30        | 8         | 12        | 18        | 30        |
| Ø D3 | 5         | 8         | 12        | 20        | 5         | 8         | 12        | 20        |
| Ø D4 | 16        | 30        | 40        | 52        | 16        | 30        | 40        | 52        |
| D5   | 70        | 76        | 82        | 82        | 70        | 76        | 82        | 82        |
| L    | 80 ~ 120  | 120 ~ 250 | 120 ~ 400 | 120 ~ 650 | 80 ~ 120  | 120 ~ 250 | 120 ~ 400 | 120 ~ 650 |

## AESB



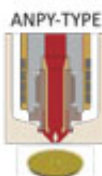
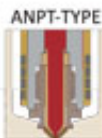
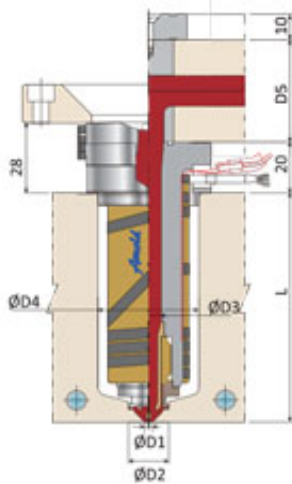
## ANPR



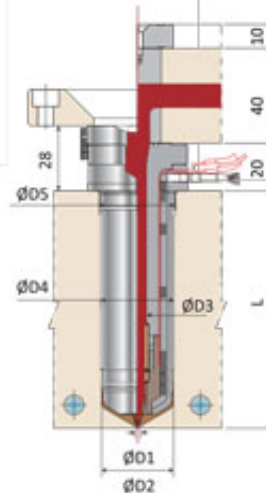
| Type | AESB 10   | AESB 20   | AESB 30   | AESB 40   | AESB 40    |
|------|-----------|-----------|-----------|-----------|------------|
| Ø D1 | 1.0 ~ 3.0 | 1.5 ~ 5.0 | 5.0 ~ 7.0 | 5.0 ~ 8.0 | 6.0 ~ 10.0 |
| Ø D2 | 8         | 9         | 15        | 16        | 20         |
| Ø D3 | 4         | 5         | 7.5       | 10        | 14         |
| Ø D4 | 19        | 25        | 32        | 40        | 45         |
| D5   | 40        | 40        | 40        | 40        | 40         |
| L    | 55 ~ 95   | 52 ~ 160  | 80 ~ 250  | 80 ~ 400  | 80 ~ 600   |

| Type | ANPR 20  | ANPR 30  | ANPR 40  | ANPR 50  |
|------|----------|----------|----------|----------|
| Ø D1 | 1.8      | 1.8      | 2.0      | 3.0      |
| Ø D2 | 9        | 15       | 16       | 20       |
| Ø D3 | 5        | 7.5      | 10       | 14       |
| Ø D4 | 25       | 32       | 40       | 45       |
| D5   | 40       | 40       | 40       | 45       |
| L    | 52 ~ 160 | 80 ~ 250 | 80 ~ 400 | 80 ~ 600 |

## ANPT / ANPY



## NL-ANPT / NL-ANPY



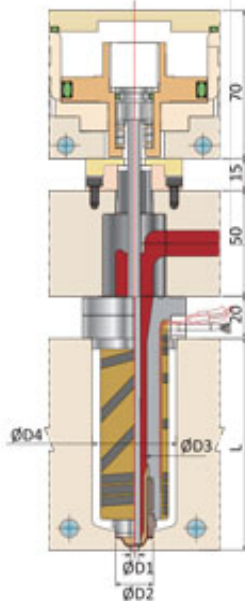
NL-ANPT -TYPE

NL-ANPY -TYPE

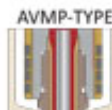
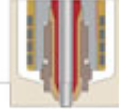
| Type | ANPT/Y 10 | ANPT/Y 20 | ANPT/Y 30 | ANPT/Y 40 | ANPT/Y 50 |
|------|-----------|-----------|-----------|-----------|-----------|
| Ø D1 | 0.8 ~ 1.2 | 1.0 ~ 2.5 | 1.5 ~ 3.0 | 1.8 ~ 3.5 | 3.0 ~ 4.0 |
| Ø D2 | 8         | 9         | 15        | 16        | 20        |
| Ø D3 | 4         | 5         | 7.5       | 10        | 14        |
| Ø D4 | 19        | 25        | 32        | 40        | 45        |
| D5   | 40        | 40        | 40        | 40        | 45        |
| L    | 55 ~ 95   | 52 ~ 160  | 80 ~ 250  | 80 ~ 400  | 80 ~ 600  |

| Type | NL-ANPT/Y 10 | NL-ANPT/Y 20 | NL-ANPT/Y 30 |
|------|--------------|--------------|--------------|
| Ø D1 | 0.8 ~ 1.2    | 1.0 ~ 2.5    | 1.5 ~ 3.0    |
| Ø D2 | 17           | 22           | 30           |
| Ø D3 | 3            | 5            | 7.5          |
| Ø D4 | 18           | 23           | 31           |
| Ø D5 | 22           | 25           | 32           |
| L    | 55 ~ 95      | 52 ~ 112     | 100 ~ 175    |

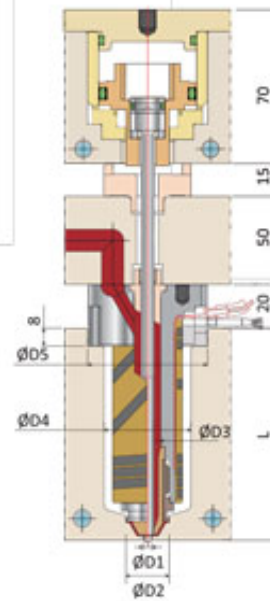
## AVMT / AVMP



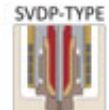
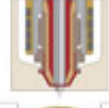
AVMT-TYPE



## SVDT / SVDP

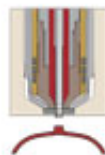
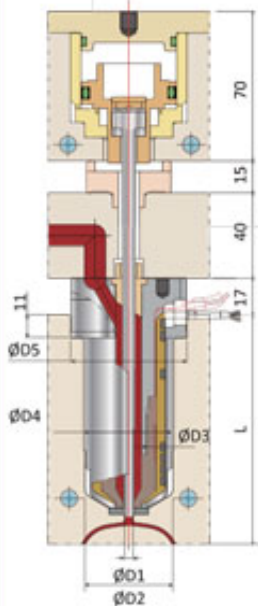


SVDT-TYPE



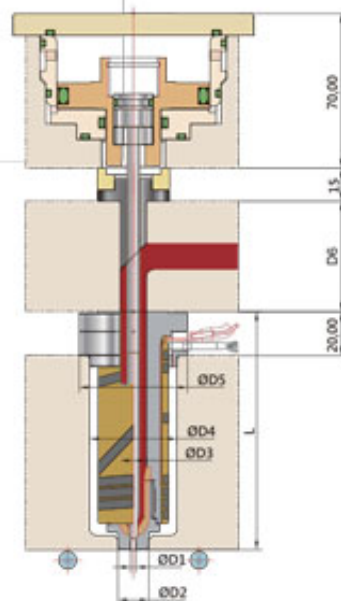
| Type | AVMT/P 48 | AVMT/P 58 | AVMT/P 68 | Type | SVDT 18   | SVDT 38   | SVDT 48   | SVDT 58   | SVDP 38   | SVDP 48   | SVDP 58   |
|------|-----------|-----------|-----------|------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Ø D1 | 3.0 ~ 5.0 | 5.0 ~ 7.0 | 7.0 ~ 9.0 | Ø D1 | 0.8 ~ 1.5 | 1.5 ~ 2.5 | 3.0 ~ 5.0 | 5.0 ~ 7.0 | 1.5 ~ 2.5 | 3.0 ~ 5.0 | 5.0 ~ 7.0 |
| Ø D2 | 18        | 25        | 30        | Ø D2 | 8         | 15        | 20        | 25        | 12        | 14        | 25        |
| Ø D3 | 12        | 16        | 20        | Ø D3 | 5         | 8         | 12        | 14        | 8         | 12        | 14        |
| Ø D4 | 40        | 45        | 52        | Ø D4 | 16        | 30        | 40        | 45        | 30        | 40        | 45        |
| Ø D5 | N / A     |           |           | Ø D5 | 32        | 42        | 55        | 60        | 42        | 55        | 60        |
| L    | 100 ~ 400 | 100 ~ 600 | 100 ~ 650 | L    | 60 ~ 120  | 100 ~ 250 | 100 ~ 400 | 100 ~ 600 | 100 ~ 250 | 100 ~ 400 | 100 ~ 600 |

## NL-SVDP

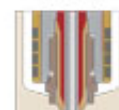


| Type | NL-SVDP 48 |
|------|------------|
| Ø D1 | 3.0 ~ 4.0  |
| Ø D2 | 41.5       |
| Ø D3 | 12         |
| Ø D4 | 42.5       |
| Ø D5 | 55         |
| L    | 90 ~ 200   |

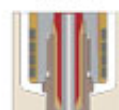
## FSDT / FSDP



FSDT



FSDP



| Type | FSDT 18   | FSDT 28   | FSDT 38   | FSDT 48   | FSDT 58   |
|------|-----------|-----------|-----------|-----------|-----------|
| Ø D1 | 0.8 ~ 1.5 | 1.2 ~ 1.5 | 1.5 ~ 2.5 | 3.0 ~ 5.0 | 5.0 ~ 7.0 |
| Ø D2 | 8         | 10        | 15        | 20        | 25        |
| Ø D3 | 5         | 6         | 8         | 12        | 14        |
| Ø D4 | 16 ~ 20   | 20 ~ 25   | 28 ~ 32   | 34 ~ 40   | 42 ~ 45   |
| Ø D5 | 30        | 31.5      | 41.5      | 49.5      | 59        |
| D6   | 40        | 40        | 40        | 50        | 50        |
| L    | 80 ~ 120  | 80 ~ 150  | 125 ~ 225 | 125 ~ 225 | 125 ~ 225 |

| Type | FSDP 18   | FSDP 28   | FSDP 38   | FSDP 48   | FSDP 58   |
|------|-----------|-----------|-----------|-----------|-----------|
| Ø D1 | 0.8 ~ 1.5 | 1.2 ~ 1.5 | 1.5 ~ 2.5 | 3.0 ~ 5.0 | 5.0 ~ 7.0 |
| Ø D2 | 8         | 3.5 / 4   | 12        | 14        | 20        |
| Ø D3 | 5         | 6         | 8         | 12        | 14        |
| Ø D4 | 16 ~ 20   | 20 ~ 25   | 28 ~ 32   | 34 ~ 40   | 42 ~ 45   |
| Ø D5 | 30        | 31.5      | 41.5      | 49.5      | 59        |
| D6   | 40        | 40        | 40        | 50        | 50        |
| L    | 80 ~ 120  | 80 ~ 150  | 125 ~ 225 | 125 ~ 225 | 125 ~ 225 |



📍 Headquarter & Branches

📍 Service Office



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