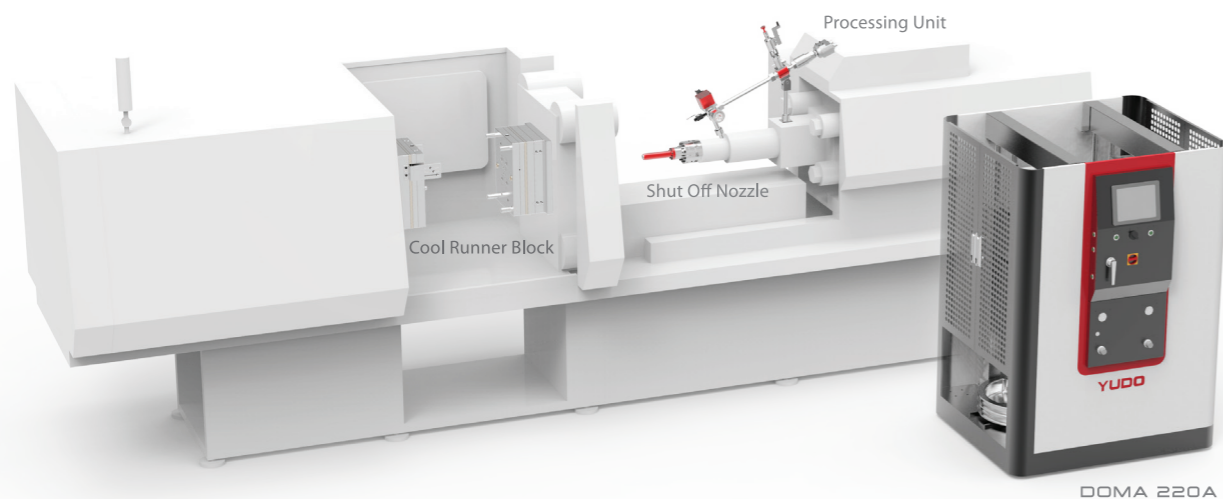


# LSR [ Liquid Silicone Rubber ]

## Cool Runner Block type injection



"YUDO LSR Solution" patent application number  
: 10-2014-0065385

**YUDO**

## LSR DOMA - SERIES

### MIXING & DOSING MACHINE

Stable mixing ratio  
management

Precise control of material discharge rate  
by applying electric proportional valve and accurate flow sensor

User Friendly Design

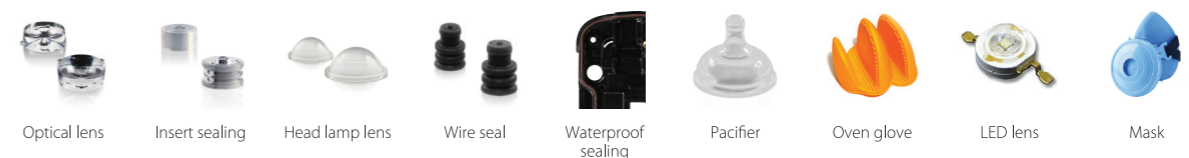
Integrated management by all-in-one screen for cylinder, pump, and color measuring signal  
Easy operation after material exchange by setting button placed side of product

**E**ASY &  
**P**RECISE  
CONTROL



Model	DOMA 220A	DOMA 020A
Power Supply	AC200V/230V ±10% 50/60Hz, Single phase	
Pneumatic	Ø 12 / 6 ~ 8 bar	
Material Mixing Ratio	1:1	
Material Discharge Pressure	Max. 250 bar	
Material Discharge Rate	1500g / min (100 Pas, Depending on viscosity)	
Display	10.1" Touch screen	
Storage Box	20ℓ / 200ℓ for common use	20ℓ Exclusive
Weight	About 600kg	About 160kg
Size(mm)	1070(W) x 1270(D) x 1730(H)	920(W) x 850(D) x 1670(H)
Wattage	42 W	
Option	Colorant supply device / Shut off Valve Filter applied at supply unit / Static Mixer Mixing Block / Cooling Jacket / Cover Non-return Valve / Pressure Limiter	Colorant supply device / Shut off Valve Filter applied at supply unit / Caster Wheel Mixing Block / Cooling Jacket / Static Mixer Non-return Valve / Pressure Limiter

## Application



**YUDO**  
Consilience Technology

YUDO INC. (USA) | 33875 Capitol St. Livonia, MI 48150  
Tel . 734 744 8120 | Fax. 734 744 8123 | E-mail. yudo@yudousa.com

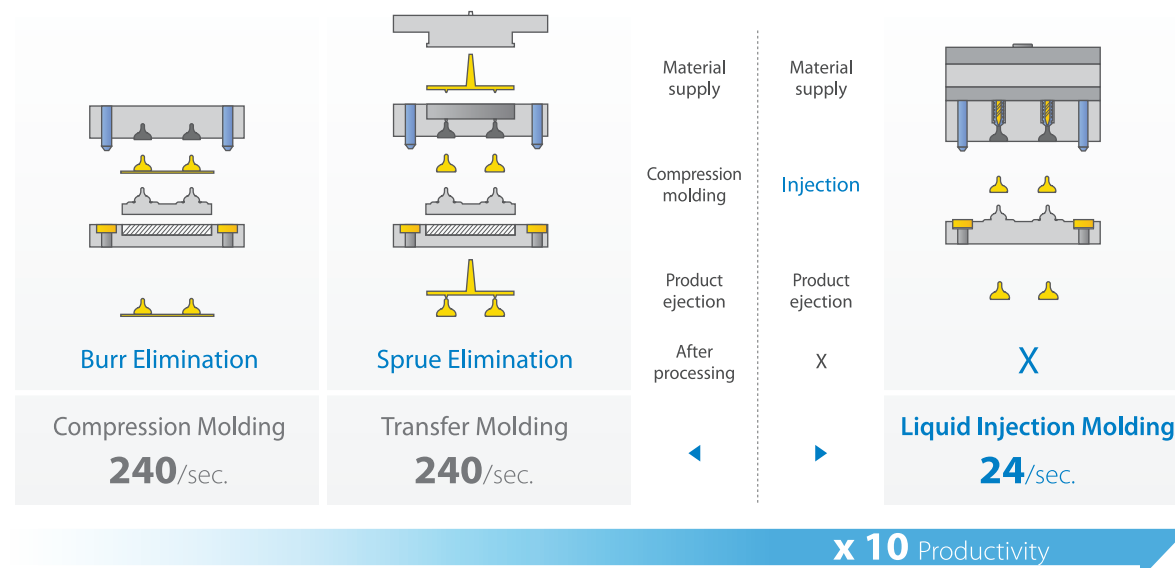
HEAD OFFICE & FACTORY | 1112, Seohae-Ro, Paltan-Myeon, Hwaseong-City, Gyeonggi-Do, 445-915 South Korea  
Tel . + 82 31 350 2500 | Fax. +82 31 354 7446 | E-mail. yudo@yudohot.com

> We reserve the right to change any specifications without notice.  
Ver.1.5 BR LSR ( 2014. December )

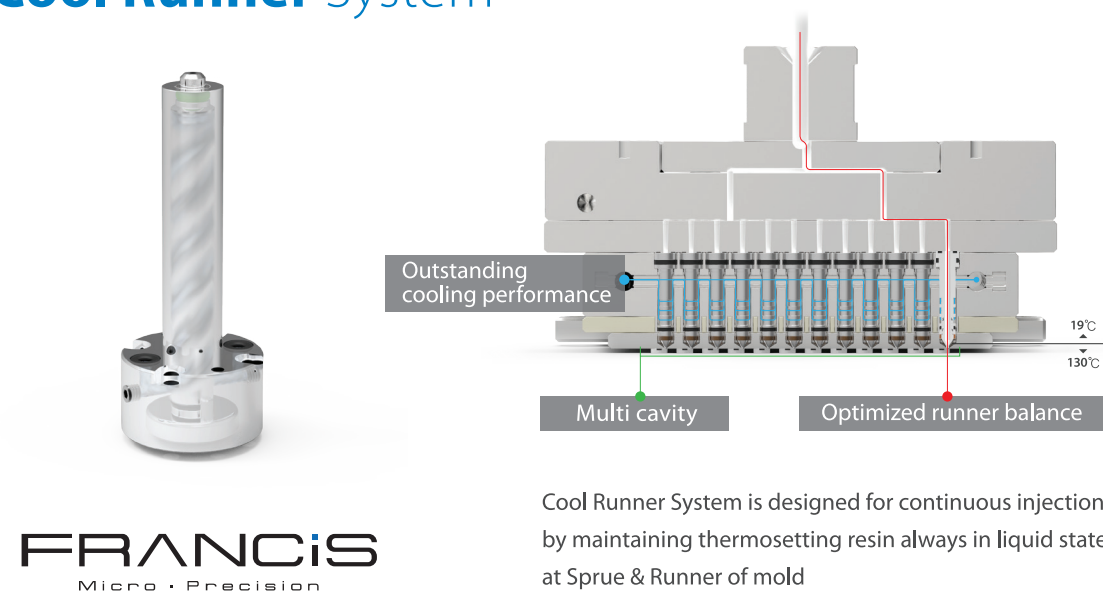
## YUDO CRB Advantage

Complex geometries	Provide excellent expressivity of ultra-thin and complicated shape thanks to low viscosity of LSR
Automation	Implement automation of entire process from Dosing to De-molding in contrast with other labor-intensive rubber injection
Improved safety	Build safe production area by unmanned automation system
Faster cycle	Improve productivity with innovative cycle time by 'sec.' unit compared to 'min.' unit cycle time of Compression and Transfer molding
Material preparation	Prevent contamination and faulty mix of material and save time and labor by eliminating preparation process like mixing material

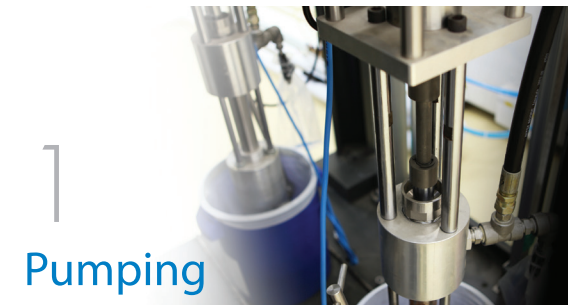
## LSR CRB [Cool Runner Block type injection]



## Cool Runner System



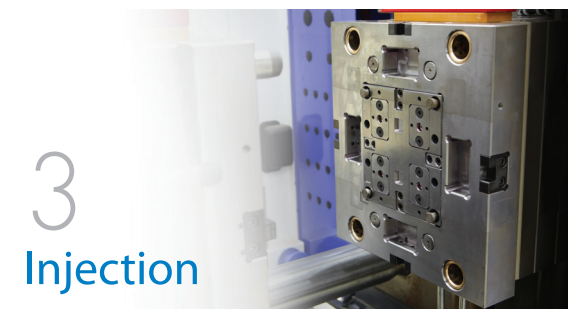
## LSR Process



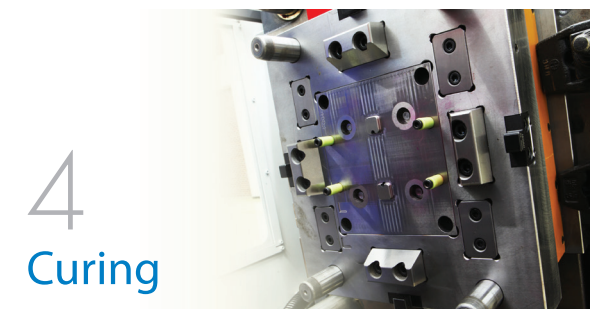
Deliver raw material divided into A part and B part to mixing block through exclusive pipe on dosing pump



Mix gathered main material and hardener through static mixer, then provide material to Cool runner with pressure limiter adjusting dosing time and material amount regularly



Fill cold material to mold through Cool runner with specialized Screw type flow in order to maximize cooling performance



Inject parts after curing material within a short time using rapid addition reaction in hot heated mold

## Processing Unit

### Pressure limiter

\_ Deliver material of precise shot & weight by maintaining charging pressure regularly

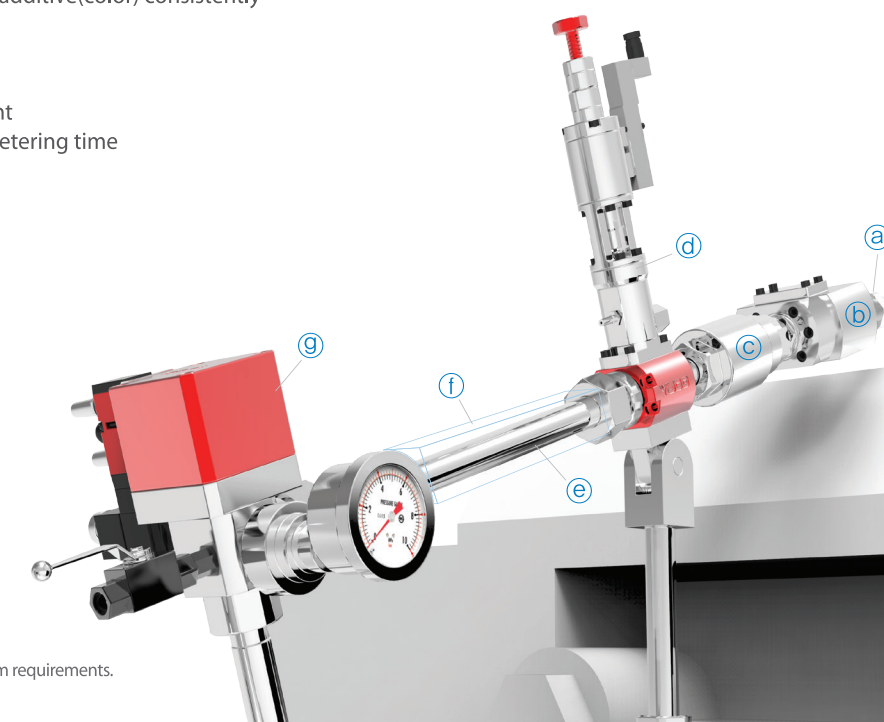
### Static mixer

\_ Mix 2 kinds of silicon raw material & additive(color) consistently

### Shut off valve

\_ Realize precise measurement amount by supplying material only during metering time  
\_ Easy purging of mixing unit

- Ⓐ Non-return valve
- Ⓑ Static mixer
- Ⓒ Mixing block
- Ⓓ Cooling jacket
- Ⓔ Pressure limiter
- Ⓕ Shut off valve
- Ⓖ Color block



※ Installation of Ⓐ, Ⓓ parts is determined by system requirements.