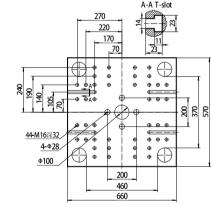
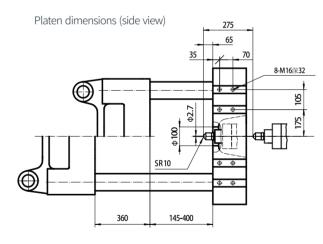
Standard/Optional Features

Note: ●: Standard; ○: Optional

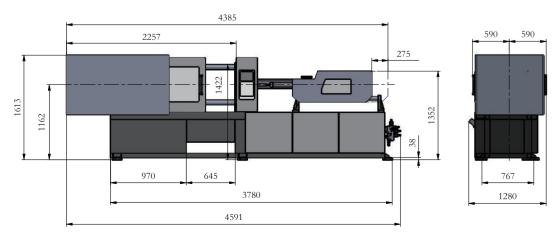
Features	Standard	Optional
Lateral T-slotted widen platen (Tie bar space 460x370)	•	
Three sets of electric heaters +three aviation connectors on the fixed platen	•	
Three sets of electric heaters +three aviation connectors on the movable platen	•	
Thermal insulation plates connector on fixed platen and movable platen	•	
Total of four sets of air blow units (three sets on the fixed platen and one on the movable platen)	•	
Mixing screw for silicone	•	
Water-cooled pneumatic injection nozzle	•	
Pneumatic 2-piece filter and air gun fittings	•	
Temperature control interface for fixed half and moving half	•	
Vacuum pumping procedure and interface	•	
D522 liquid silicone feeder		0
Control procedures for integrated silicone feeding device		0
Ejector unit (full set)		0
Mold thermal insulation plate on fixed platen and movable platen		0
Chiller		0

Platen dimensions (front view)





Machine dimensions



WE WALK ALONGSIDE THE WORLD



LSR Liquid Silicone Injection Molding Machine

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LSR LIQUID SILICONE INJECTION MOLDING MACHINE WE WALK ALONGSIDE THE WORLD

About LSR Liquid Silicone Injection Molding Machine

With the continuous advancement in the industries worldwide, the requirements for the industrial and consumer products are on the rise, demanding product to be environmental friendly, impact resistant, heat resistant, and recyclable. As a result, the injection molding technology has also be upgraded. The evolution of technology has taken the injection molding process from the traditional thermoplastic to the thermoset plastic today, where the thermoset injection molding process is divided further into hard plastic and soft plastic. Hard plastic is also known as bakelite and uses BMC injection process while soft plastic refers to liquid silicone injection process.

Liquid silicone resin (LSR) is characterized by good liquidity, low viscosity, fast solidification, and higher thermal expansion coefficient. Liquid silicone injection molding uses a two-part material delivery system which consists of an A component and a B component with a 1:1 ratio controlled by a quantitative device. After feeding the materials fully blended through the static blender into the barrel, they will be injected for molding production, heated in the mold for vulcanization and solidification.

Yizumi LSR machine is a dedicated liquid silicone injection molding machine that integrates the professional LSR injection unit with the SK II platform. It offers high precision, stability, reliability, and repetition accuracy to meet customer needs with improved product yield.

Auxiliary Equipment

YIZUMI liquid silicone feeder (technical features)

- ► Fully pneumatic secondary metering system, energy efficient and pollution free
- ► Manual correction of A/B material component ratio. Ratio error less than 3%
- ► Maintenance free design silicone leakage free, less waste
- ▶ Uniform color mixing with no flow marks, high repetition accuracy







Side view



Rear view

Industrial Applications



Baby bottle nipple



Silicone gloves



Baby finger toothbrush





Medical respirator mask



Cell phone case

Silicone lens

Technical Highlights

Increased tie bar space

Space between tie bars is increased to 460, suitable for larger mold.

Temperature control for mold heating

Visualized built-in mold temperature control to facilitate temperature adjusting;

Separate connecting socket for each set of heating unit for the convenience of customers.



Temperature control interface for fixed half and moving ha



Three sets of

Mixing screw for silicone



Standard pneumatic injection nozzle

Water-cooled pneumatic injection nozzle - prevents liquid silicone leakage, and prevents the mold temperature from being transmitted to nozzle and resulting in curing reaction of mixed LSR in the nozzle.

Mixing screw for silicone

Mixed compounds at the front end of the screw to ensure the fully blending of components A and B while eliminating phenomena such as adhesion, yellowing, or

Sensitive seal rings are used as the adaptation to the high liquidity of silicone resin to reduce leakage during injection start-up and injection.

Silicone leakage proof design

Add seal ring and wear ring at the tail end of screw to prevent silicone leakage at the rear end, material waste, and instability of injection.



Standard vacuum pumping procedure and interface

The use of vacuum mold improves the gas discharge effect of the mold and prevents defects such as short shot and gas burn caused by air traps (Vacuum pumping devices are not included).

Standard pneumatic 2-piece filter and air gun fittings

User friendly design for easy connection to the air gun and





Note: Theoretical injection volume = Cross-sectional area of injection molding machine barrel X Injection stroke

Specifications

International standard specifications

Theoretical injection volume cm³

07

mm

MPa

g/s

mm/s

mm

r/min

kΝ

mm

mm

mm

mm

kΝ

Мра

kW

kW

DESCRIPTION

Actual injection volume

(at 1.1g/cm3 density)

Screw diameter

Injection pressure

Injection rate

Screw L/D ratio

Screw stroke

Max. injection speed

Screw rotary speed

Clamping force

Opening stroke

Max. daylight

Ejector stroke

Number of ejectors Ejector force

Pump motor power

Heating power

Dry cycle time

Design weight

Oil tank capacity

Mold thickness (Min.-Max.)

Hydraulic system pressure

Number of temperature control zones

Machine dimensions (LxWxH) mxmxm

Space between tie bars (WxH) mmxmm

Disclaimer: 1. The company reserves the right to improve the products described in the brochure, specifications are subject to change without notice.

UN120LSR

295/900

INJECTION UNIT

16:1

107

165

0-215

CLAMPING UNI

1200

460x370

760

145-400

120

42

17.5

GENERAL UNIT

1.9

4.59×1.28×1.62

207.3

228.0

8.0

40

142.2

123.7

158.7

174.6

6.2

35

185.6

94.7

- 2. The product photos are for reference only, which are subject to the actual products.
- 3. The data are obtained from Yizumi's laboratory test, and the final interpretation right belongs to Yizumi.