

mastip™



LSR



LIQUID SILICONE RUBBER MOULDING

Mastip Cold Deck Solution

Valve Gating Technology

Cooled Nozzles

Ideal Solution for LSR applications

Liquid Silicone Rubber Cold Deck

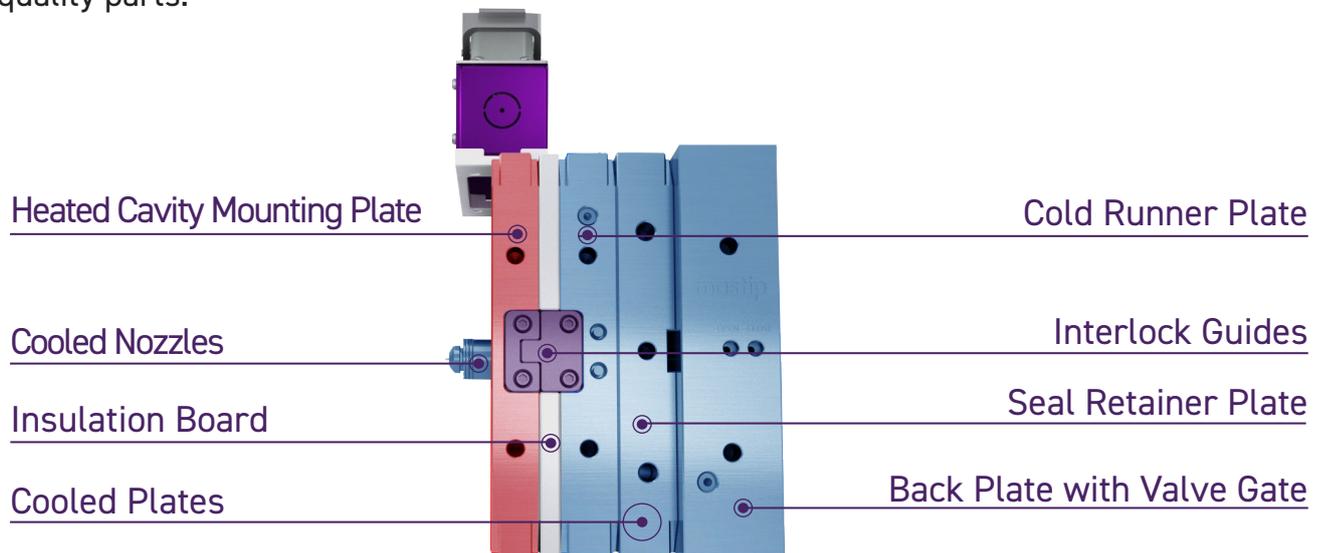
LSR Moulding Solution

Building on 30 years of continuous improvement and innovation, Mastip has expanded our range to include cold deck solutions for LSR customers.

Cold Deck Solutions for LSR Moulding

Liquid silicone rubber is widely used in various applications thanks to its properties that allows biocompatibility, tolerance of harsh chemicals, extreme temperature resistance and flexibility.

Mastip provides a customised LSR cold deck valve gated solution with proven cooling and heating technology. Mastip cold decks are optimised to shorten cycle times while producing high quality parts.



Key Features

- Cooled plates ensure silicone remains liquid
- Cooling channels in the nozzle for delivery of material in optimum condition
- Cavity mounting plate heated with Mastip's proven heater technology
- Insulation board to thermally insulate the cooled plates from heated plates
- Hardened interlock guides to control the thermal expansion between the heated and cooled plates
- Valve gate technology to precisely control the liquid silicone at the gate
- Thermally insulated electrical terminal mounting box for heated plates

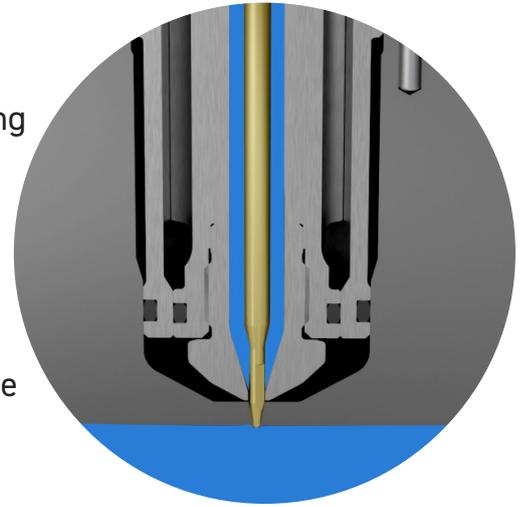
Valve Gating Technology

Precise LSR Flow Control

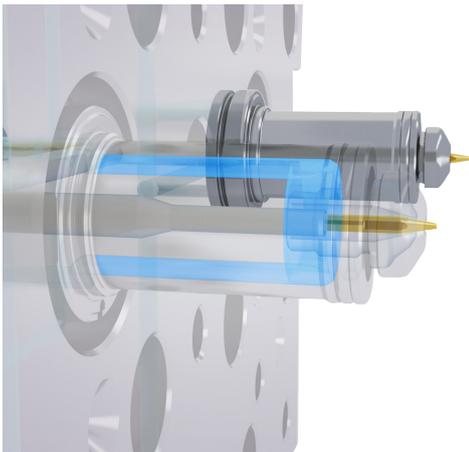
Valve Gating

Valve gating is recommended for best control of your LSR moulding process. It offers a high quality gate while reducing the risk of excessive flashing and eliminating the material curing in the gate between cycles.

Mastip's LSR cold deck incorporates proven valve gating technology to precisely control the liquid silicone flow into the part.



Cooled Nozzles



Good thermal control at the gate is key to producing a repeatable cycle and a quality part.

Mastip's LSR nozzles are designed and tested with cooling channels extending down towards the valve gate tip to ensure a consistent thermal profile along the nozzle. This gives optimal control of the temperature of the valve gate tip, keeping it cool and thermally isolated from the heated plates to produce perfect parts every time.

Specifications

Nozzle Range				Steel Grade	
Drops	Gate Diameter	Nozzle Lengths	Material Viscosity	Nozzles	Cold Deck
1-128	0.6-1.2mm	50, 70, 90mm	High - Low	2316 Corrosion Resistant Steel	P20 or 420 Corrosion Resistant Steel

We make things better

Ideal Solutions for LSR Applications

Medical & Healthcare

- Respiratory components
- Masks
- Valve seals
- Dental
- Pacifier
- Baby bottle nipple
- Teething rings and chew toys

Consumer Goods

- Diving mask
- Shower head
- Keypads and buttons
- Ice tray
- Baking tray
- Food containers
- Seals and gaskets

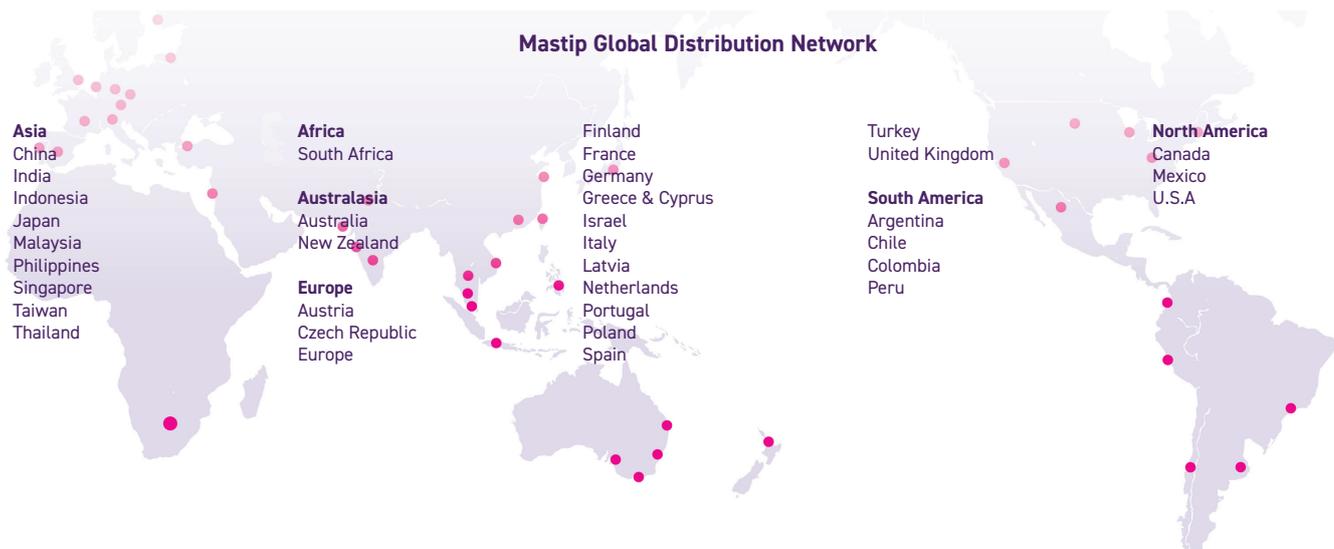
Automotive

- Optical components
- Fuel system connectors and seals
- Gaskets and seals
- Electrical system connectors
- Fuel cell components

Electronics

- Keypads, buttons
- Phone cover
- Gaskets
- Watch straps

For a Quote and Lead Time, Contact Mastip Team Today!



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