



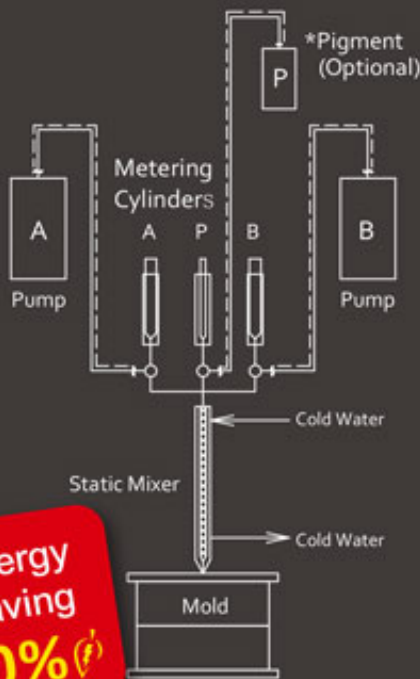
LSR



**Quick Color Change Vertical Injection
Molding Machine Turnkey Solution**

Smart Control

Vertical Liquid Silicone Rubber Injection Molding Machine



**Energy Saving
70%**

- Precision vertical clamping system (parallelism/ flatness : 0.02/100 mm) , heavy-duty tie-bars, and low-pressure mold clamping work together to greatly extend machine & mold life.
- Increased productivity and efficiency with shuttle table or rotary table configuration. Pick and place products while another product finish molding.
- Energy saving of 50-70% with servo pump power system.
- Safety cover, Light curtain, pneumatic door and two hand control button for personnel safeguard.
- Multi-Language PC Base industrial type Linux core system.
- 1000 sets of mold settings can be stored and export as backup.
- Complete record of history settings & warnings. Built in USB connect.
- On-line remote control and maintenance service.



Vertical Hydraulic
Clamping System



Operator friendly



Safety Design
for Operator



Energy Saving

Model		KL520-200- 80DVS-1-S68	KL560-300- 120DV2S-1-S68	KL660-400- 160DV2S-1-S68
INJECTION UNIT				
Plunger Diameter	mm	25 *2	31.5*2	36*2
Injection Pressure	kgf/cm ²	441	444	439
Injection Capacity	cm ³	196	312	407
Injection Weight (LSR)	oz	7.5	11.9	15.5
	gram	212	336	439
Plunger Stroke	mm		200	
Nozzle Stroke	mm		280	
Nozzle Contact Force	ton		8.5	
CLAMPING UNIT				
Clamping Force	ton	80	120	160
Minimum Mold Height	mm	200	250	250
Opening Stroke	mm	580 (without Heating Platen)	690 (without Heating Platen)	690 (without Heating Platen)
Maximum Daylight	mm	400 (with Heating Platen)	500 (with Heating Platen)	500 (with Heating Platen)
Overall Size Of Platens	mm	700*570	770*570	920*720
Space Between Columns	mm	520*385	560*360	660*460
Size Of Shuttle Table	mm	510*540	550*1150	650*1450
Shuttle Table Stroke	mm	540	580	730
Ejector Force	ton		2.7	
Ejector Stroke	mm		up 100	
ELECTRICAL EQUIPMENT & GENERAL				
Power Source	v/hz		380/60/50	
Drive Motor	kW	7.5	15	15
Heater	kW	3.6 (option)	5.5 + 5.5 (option)	7.5 + 7.5 (option)
Temperature Control Zone	zone	2+1 (middle)	3+2 (middle)	3+2 (middle)
Hydraulic System Pressure	kgf/cm ²	140	160	160
Machine Dimension	m	2.2*1.4*3.1	2.2*1.5*3.8	3.2*1.8*4.2
Machine Weight	ton	4	5.5	7
★Option Heating Platen 、 LSR Transfer pump A/B/P 、 20L/200L				

KING'S Solution Corp.

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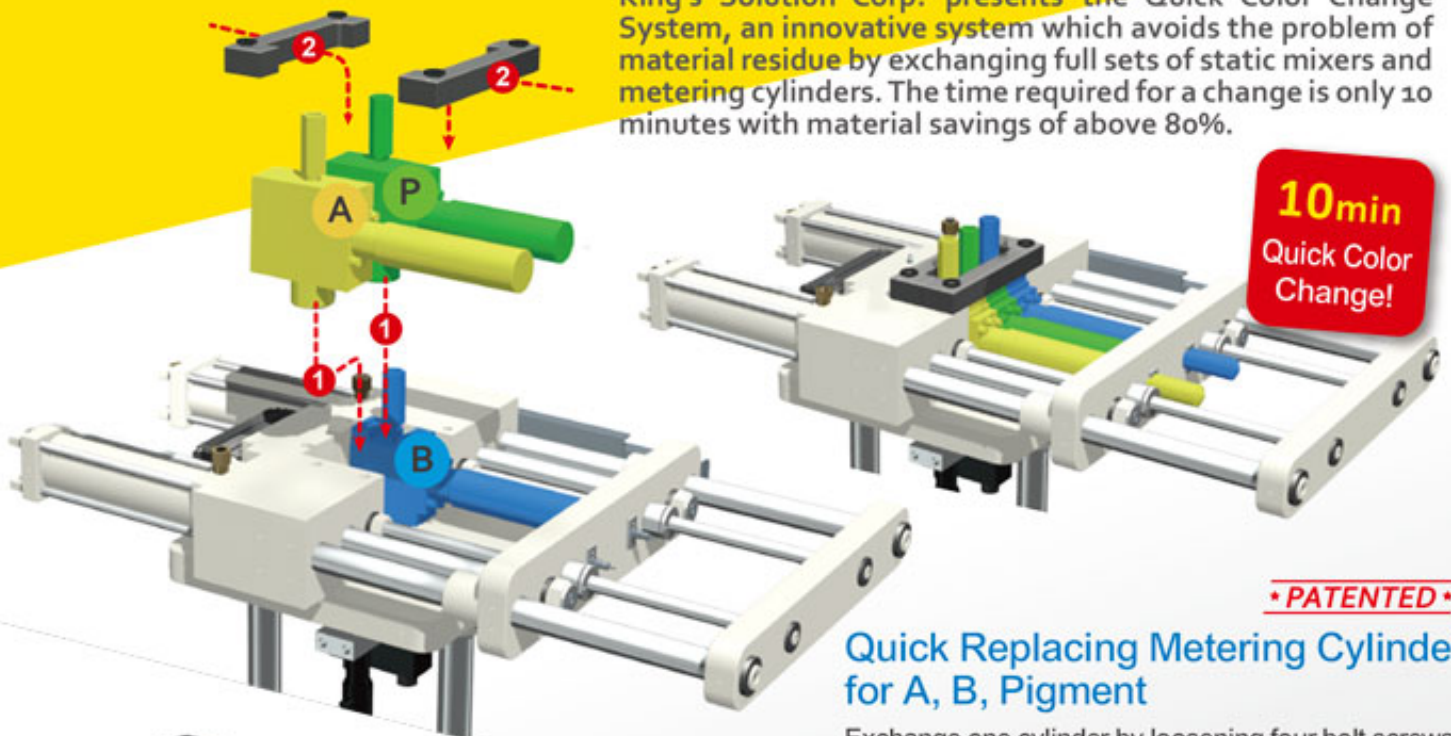
www.injection.com.tw/ | www.facebook.com/Kingsmachinery/ | https://www.youtube.com/user/kingsmachinery/



Quick Color Change LSR Injection Molding Machine

KING'S
Solution Corp.

King's Solution Corp. presents the Quick Color Change System, an innovative system which avoids the problem of material residue by exchanging full sets of static mixers and metering cylinders. The time required for a change is only 10 minutes with material savings of above 80%.



Exchange one cylinder by loosening four bolt screws which fix the clamp. Special anti-leakage valve ensures that material does not drip during operation.



Upward & Downward dual direction 2K pumping system

- Pneumatic driven pump which boosts the pressure by leverage mechanism on a scale of 55:1.
- Fast material feeding, and the low-viscosity silicone can also be processed without difficulty.
- Manual/ Proportional pressure setting is easy for operation and maintenance.
- Optional IPC controller which can set the pressure & position of the pump, leads to more precise feeding.

Compact modularized injection system

- Precise injection control by exchanging modularized metering cylinders with various volume from 1 g to 1000 g.
- Hydraulic metering cylinder with a linear transducer ensures the volume of silicon and pigment with a positional repeatability within 0.02mm.
- Horizontal injection cylinder reduces the machine height 50cm less compared to the traditional screw type machine.



• **PATENTED** •

Quick change of Static Mixer within 10 min

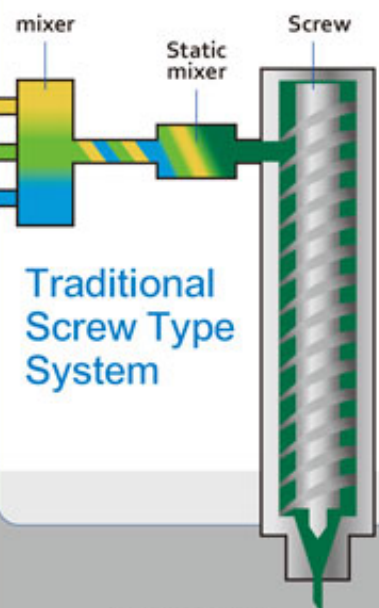
- Static Mixer set weights less than 11kg, and can be changed by one operator. Loosen just one bolt screw only.
- Special anti-leakage valve ensures that material does not drip during operation.

Superior Mixing Performance - Static Mixer

- $2^{21} = 2,097,152$ times of mixing, well mix the A & B 2 components.
- First in First out, shot volume from **1 cc to 1,000 cc** will be with the same strength after completely mixing.
- Optional long mixer with 31 section, $2^{31} = 2,147,483,648$ times of mixing, suitable for products require extra strength

Material Saving 80% ϕ

KING'S KING'S Quick Color Change System



Traditional Screw Type System

Traditional Screw Type System

Material Saving	Waste of silicone	✓ below 1KG	5-20kg
Time Saving	Time consumption	✓ 10 min	2-4 hr
Labor Saving	Numbers of Labor	✓ only 1	2 up
High Yield	Risk of Discoloration	✓ 0% of color residue	Difficult to clean the clearance and gap
Best Quality	Precision & Strength	✓ Well mixed 2K even for micro injection	Poor performance for micro injection
High Availability	Machine Performance efficiency	✓ One machine for multi color/volume injection needs	Limited capacity