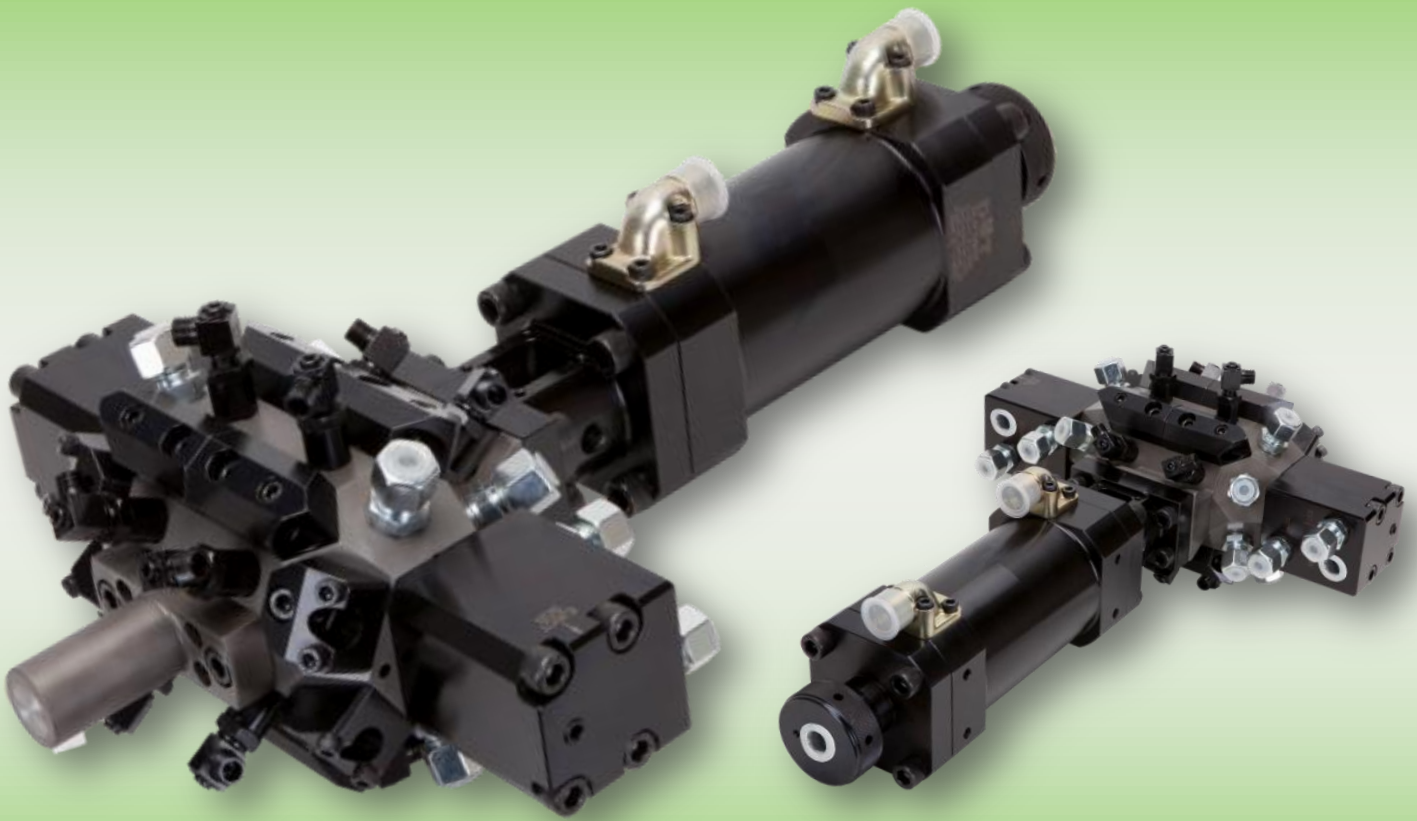


Perfect capability with various type of Mixing Head

HIGH PRESSURE MIXING HEAD



Tailored to your production tasks
High pressure mixing head

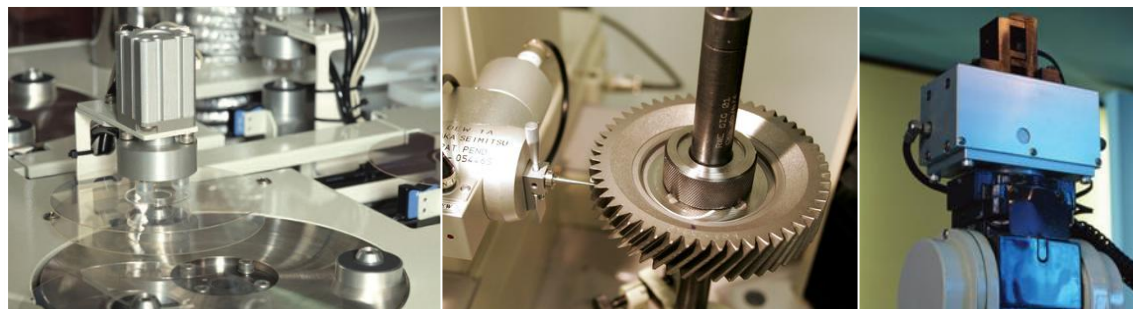
DUT KOREA high pressure mixing heads perfectly tailored to your application

DUT KOREA is a premium partner for the high pressure mixing head and high pressure PU injection machine processing business worldwide.

High quality product and highest productivity are a direct outcome of our many decades of experience and our commitment to continuous improvement of our whole range of mixing heads.

DUT KOREA high pressure mixing heads are engineered as the perfect answer for POLIURETHANE SOLUTION. They promise a high return on investment, reliable technology and lower costs.

Furthermore, DUT's have a Great efficiency by patented mixing head (DOUBLE TILTED INJECTION MACHINE), it perfect capability with various type of injection machine.



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DUT'S HIGH PRESSURE MIXING HEAD

DHV SERIES

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DHS SERIES

- R-TYPE INJECTION
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- TABLE OF DHS SERIES OUTPUT

DUT'S MIXING HEAD TABLE OF DIMENSION

NEW 12K MIXING HEAD

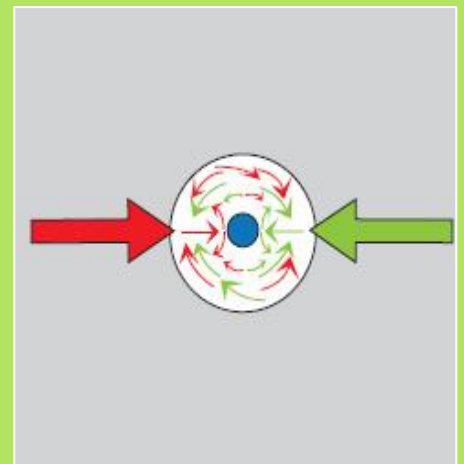
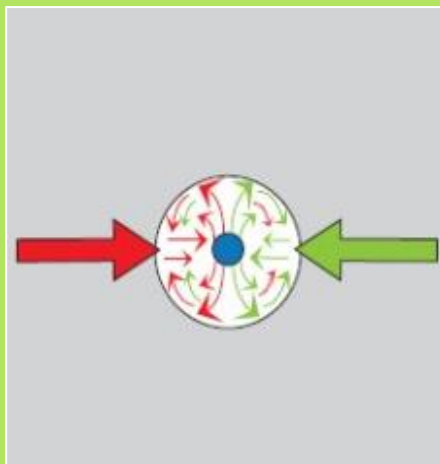
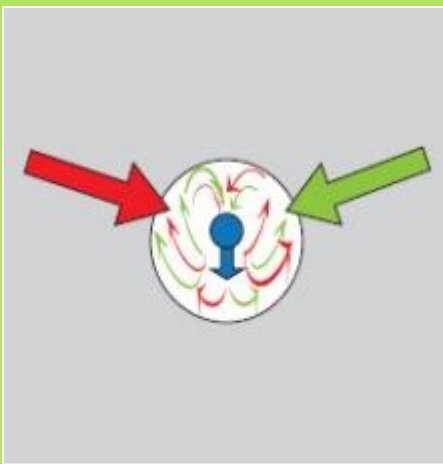
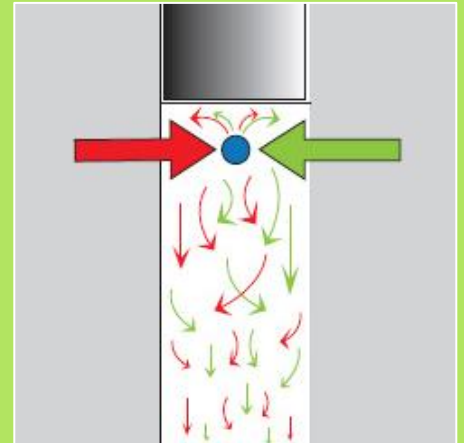
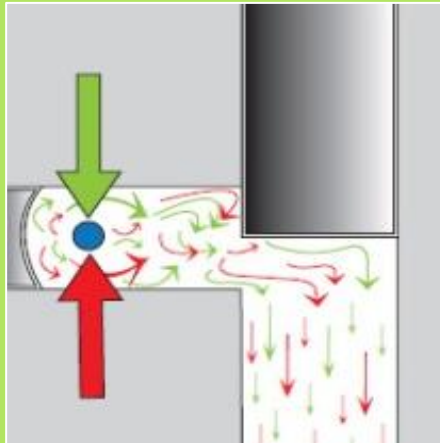
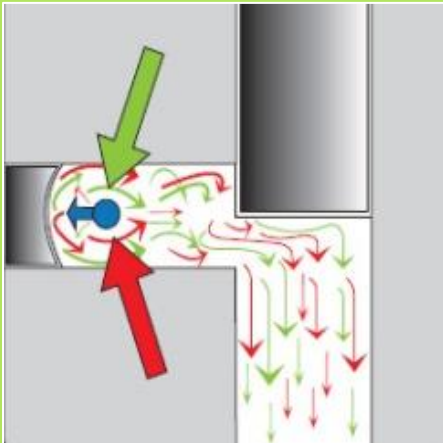
- FEATURE
- DESIGN
- OUTPUT

NOZZLE

- FEATURE
- VARIETY TYPE OF NOZZLE SERIES



PRINCIPLE OF DUT'S MIXING HEAD



**Double Tilted injection
(DHV SERIES)**

**L-Type injection
(DHVA SERIES)**

**R-Type injection
(DHS SERIES)**

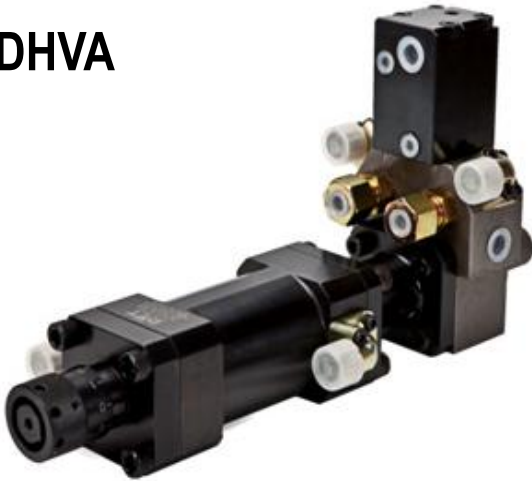
Double Tilted injection	L-Type injection	R-Type injection
The enhance of initial kinetic energy which is caused by 1st and 2nd collision	Easy maintenance & Repair	High mixing efficiency by R-Type injection System
The enhance of kinetic energy and laminal flow by reverse	Installation of Nozzle block to supply materials	Huge output manufacture
maximize offset process of kinetic energy by the maximize energy by the maximum mixing efficiency of high viscosity materials	Easy Nozzle set up	Long operation life & low maintenance cost
The most soft laminal flow at outlet pipe	Design which is removed a piping interference Easy disassembly & assembly	High compatibility with various type of injection machine
	High efficiency with economical price	Stable laminal flow

DUT'S HIGH PRESSURE MIXING HEAD

DHV



DHVA



DHS



Mixing heads are the key elements of any PU production line. They determine the cost-effectiveness and quality of polyurethane processing. Whatever the product be it rigid or flexible foam, integral skin, filling or energy absorbing foam. DUT Korea has different mixing head types for different applications.

2K, 3K, 4K, 4KSH,

2K – 2 Components (POL / ISO) with general two nozzle assemblies.

3K – 3 Components (POL / ISO / Pigment) with general two nozzle assemblies and one pigment injector.

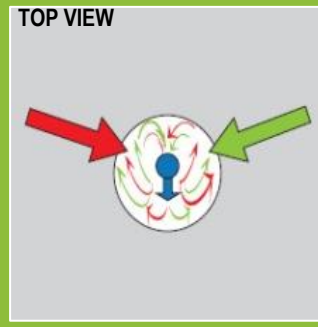
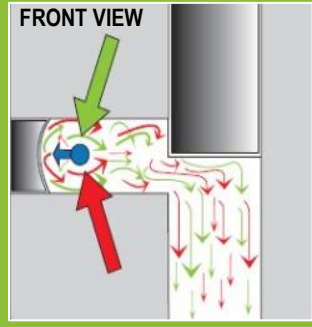
4K – 4 Components (POL / ISO) with dual head and general four nozzle assemblies.

4KSH – 4 Components (POL / ISO) with general four nozzle assemblies.

FEATURES

- High mixing efficiency by double tilted injection nozzle.
- Stable laminar flow-smoothing of the mixture stream & wide laminar range.
- Suitable for rigid and flexible foam with low and high viscosity.
- Innovative nozzle control for minimum switching times at multi-component.
- Economical and reliable.
- Long operation life & Low maintenance cost.
- Anti-stick locking design & Anti-scrap floating design.

DHV SERIES



DOUBLE TILTED INJECTION

- The enhance of initial kinetic energy which is caused by 1st and 2nd collision
- The enhance of kinetic energy and laminal flow by reverse
- Maximize offset process of kinetic energy by the maximum mixing efficiency of high viscosity materials
- The most soft laminal flow pipe

(World Patented Double Tilted Injection System)
DHV SERIES

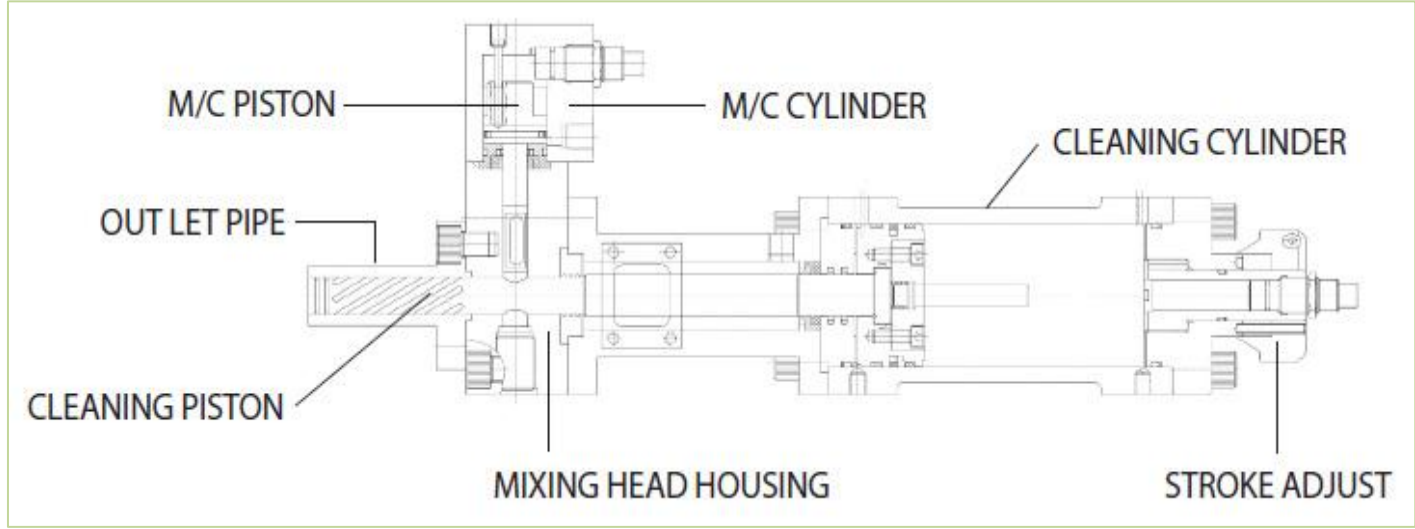


FEATURE

- Ultimate mixing efficiency by Double Tilted Injection System.
- High compatibility with various type of injection machine
- Innovative nozzle control for minimum switching times at multi-component
- Anti-stick looking design & Anti-scrap floating design
- Long operation life & low maintenance cost

High pressure mixing head has great mixing efficiency and optimized design for DUT's high pressure injection machine. It means the heart of high pressure injection machine.

DESIGN



DHV SERIES TABLE OF OUTPUT

■ DHV-2K SERIES (POL / ISO)

L-Type Mixing head for all kinds rigid, semi rigid, flexible, integral skin foam.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHV 0507-2K		30~190	45~180	45~165	30~80
DHV 0812-2K		40~420	50~320	70~280	50~180
DHV 1014-2K		50~450	60~380	80~340	60~250
DHV 1218-2K		130~1100	140~900	150~750	120~500
DHV 1422-2K		280~2000	250~1800	240~1500	230~550
DHV 1625-2K		370~3500	380~2300	600~2100	400~900

■ DHV-3K SERIES (POL / ISO / PIGMENT)

L-Type Mixing head for all kinds rigid, semi rigid, flexible, integral skin foam.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHV 0812-3K		40~420	50~320	70~280	50~180
DHV 1014-3K		50~450	60~380	80~340	60~250
DHV 1218-3K		130~1100	140~900	150~750	120~500

■ DHV-4K SERIES (Dual head)

Double L-Type Mixing head Dual hardness foam car seat.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHV 1422-4K		280~2400	200~1100	220~1000	250~600
DHV 1625-4K		320~3800	430~2300	450~1800	400~800

■ DHVM-2K SERIES (Changeable length of outlet pipe)

L-Type Mixing head for all kinds rigid, semi rigid, flexible, integral skin foam.

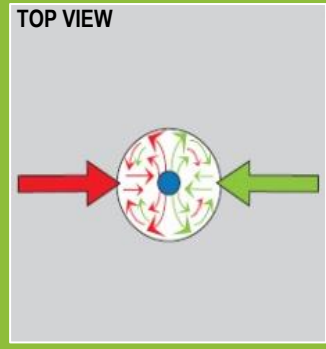
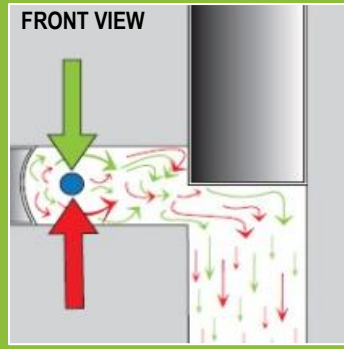


Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHV 0507-2K		30~190	45~180	45~165	30~80
DHV 0812-2K		40~420	50~320	70~280	50~180
DHV 1014-2K		50~450	60~380	80~340	60~250
DHV 1218-2K		130~1100	140~900	150~750	120~500
DHV 1422-2K		280~2000	250~1800	240~1500	230~550
DHV 1625-2K		370~3500	380~2300	600~2100	400~900

DHVM of DUT'S Mixing Head is made for SAMSUM refrigerator line and longer outlet pipe is able to pour in mould. Whatever you aim to achieve in polyurethane processing, DUT KOREA is offering to solution.

HIGH PRESSURE MIXING HEAD
DHV | DHVA | DHS SERIES

DHVA SERIES



L – Type Injection

- Easy maintenance & repair
- Installation of nozzle block to supply materials
- Easy Nozzle set up
- Design which is removed a piping interference
- Easy disassembly & assembly
- High efficiency with economical price

(General L-Type Injection System)
DHVA SERIES

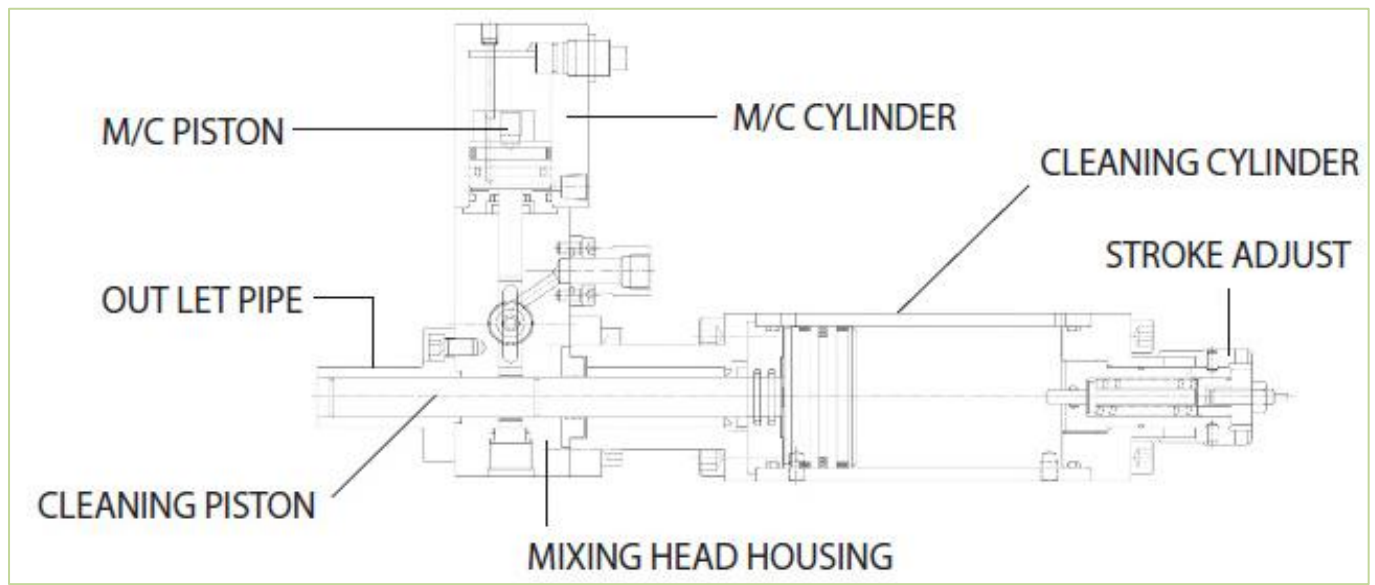


Feature

- Ultimate mixing efficiency by L-Type Injection System
- Innovative nozzle control for minimum switching times at multi-component
- Long operation life & low maintenance cost
- High compatibility with various type of injection machine
- Stable laminal flow.

Smaller, horizontal impingement chamber mixes material while larger vertical exit chamber reduces flow velocity to minimize splashing in open pour applications.

DESIGN



DHVA SERIES TABLE OF OUTPUT

■ DHVA-2K SERIES

L-Type mixing head for all kinds of rigid, semi rigid, flexible and integral skin foam.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 0507-2K		30~190	45~180	45~165	30~80
DHVA 1220-2K		130~1000	130~700	150~600	130~500

■ DHVA-4K SERIES (Dual head)

Double L-Type Mixing head Dual hardness foam for car seat.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 0814-4K		80~700	60~320	70~280	50~250
DHVA 1016-4K		110~800	80~450	80~350	80~300
DHVA 1220-4K		130~1000	250~1000	250~700	150~500

■ DHVA-4KSH (SH Type)

Double L-Type Mixing head Dual hardness foam for car seat.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 1220-4KSH		130~1100	130~950	150~700	130~550

■ DHVA-2KF

DHVA02K type with Tungsten Carbide Process.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 1220-2KF		130~1000	130~700	150~600	130~500

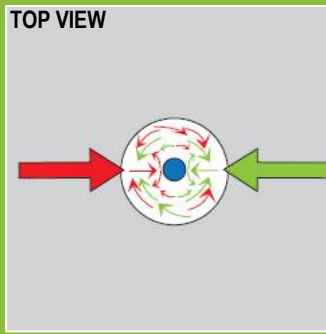
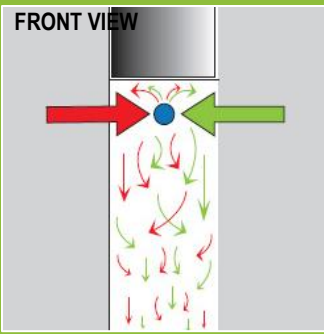
■ DHVA-4KSHF

DHVA-4KSF type with Tungsten Carbide Process.



Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 1014-4KSHF		100~720	80~840	120~600	80~350

DHS SERIES



R-Type Injection

- High mixing efficiency by R-Type Injection Sys
- Huge output manufacture
- Long operation life & low maintenance cost
- High compatibility with various type of injection machine
- Stable laminal flow

(General R-Type Injection System)
DHS SERIES



Feature

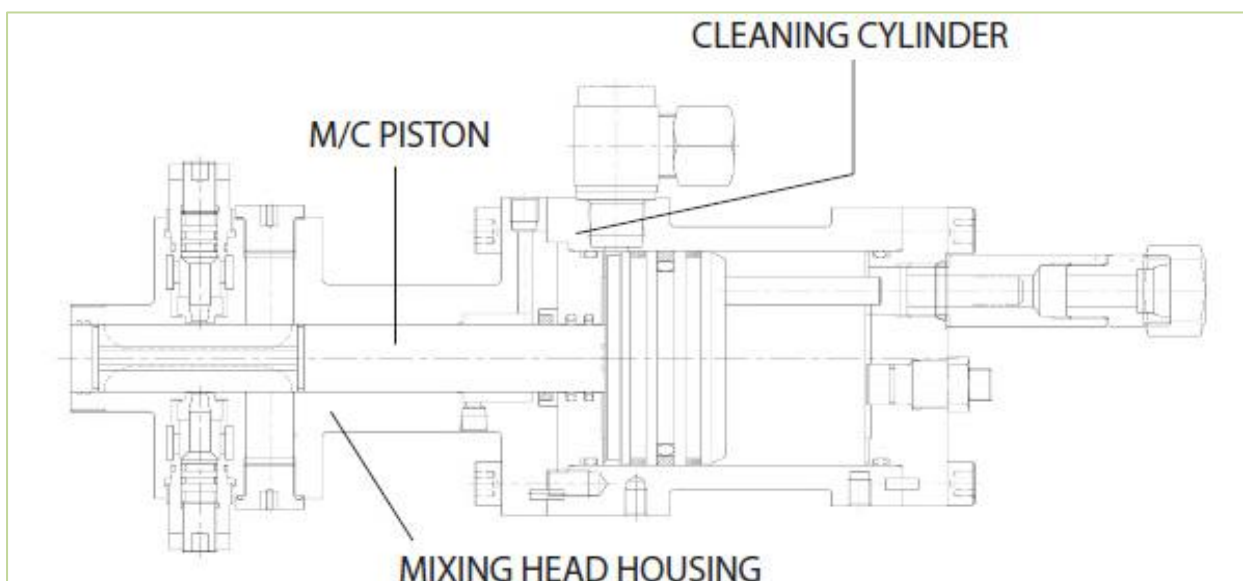
- High mixing efficiency by R-Type Injection machine
- Huge output manufacture
- Long operation life & low maintenance cost
- High compatibility with various type of injection machine
- Stable lamial flow

Lower-cost alternative for laminar pour:

The DHS series are offering lower cost and it one of the most important areas of refrigerators line. When use for refrigerator line that it give you great satisfaction.

Available in a wide range of mixing head to fit your specific application. Also available in a long-stroke injection for better laminar flow.

DESIGN



DHS SERIES TABLE OF OUTPUT

■ DHS-2K (R-Type Head)

Straight Type Mixing head for discontinuous panel.



Model \ Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
	1:1	1:2	1:3	
DHS 12R-2K	150~1300	230~1000	250~900	150~80
DHS 18R-2K	400~2500	450~2300	500~2000	-
DHS 25R-2K	1000~5000	1250~4500	1400~4100	-
DHS 30R-2K	1000~8000	1250~4500	1400~4100	-
DHS 36R-2K	3000~10000	3050~10200	3500~9000	-

■ DHS-3K (R- Type 3k Head)

Straight Type Mixing head for discontinuous panel.



Model \ Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
	1:1	1:2	1:3	
DHS 16R-3K	400~2000	250~1300	270~1300	-

■ DHS-4K (R-Type 4K Head)

Straight Type Mixing head for discontinuous panel.



Model \ Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
	1:1			
DHS 36R-3K	3000~10000			--

■ DHS-2K (R-Type 4K Head)

For PU sandwich panel continuous line.



Model \ Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
	1:1	1:2	1:3	
DHS 10NA	-	-	-	30~300

NEW 12K MIXING HEAD

DHVA 12K Mixing Head

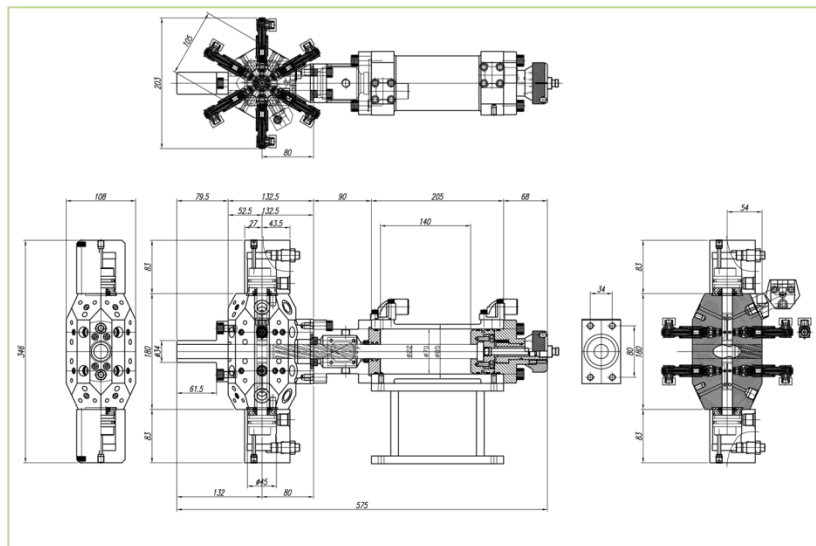
DUT Korea's developed most number of components mixing head in the first of world.



Feature

- 12K Multiple Type Mixing Head
- Most number of components mixing head in the world
- Ultimate mixing efficiency by 60 angled nozzle
- Double L-type injection system
- High compatibility with various type of injection machine
- Stable lamial flow

DESIGN



OUTPUT

Model	Mixing Ratio	Close Mold(g/s)			Open Mold(g/s)
		1:1	1:2	1:3	
DHVA 1622-12K		130~1100	130~950	150~700	130~550



As an international company, DUT KOREA has a presence in all the major markets for the mixing head processing business and worldwide. Our sales and service network keeps us close to all our customers around the world.

DUT'S MIXING HEAD TABLE OF DIMENSION

No	Model	Width(mm)	Length(mm)	Height(mm)	Weight(kg)
1	DHV 0507-2K	160	300	100	5
2	DHV 0812-2K	138	320	143	8
3	DHV 1014-2K	182	435	165	15
4	DHV 1218-2K	200	520	190	20
5	DHV 1422-2K	192	200	494	22
6	DHV 1625-2K	200	600	215	29
7	DHV 0812-3K	138	320	149	8
8	DHV 1014-3K	182	435	165	15
9	DHV 1218-3K	200	520	190	20
10	DHV 1422-4K	190	525	195	25
11	DHV 1625-4K	320	600	200	31
12	DHVA 1220-2K	170	460	240	20
13	DHVA 0814-4K	262	145	420	15
14	DHVA 1220-4K	400	460	170	20
15	DHVA 1220-4KSH	140	520	220	20
16	DHVA 1014-4KSHF	123	434	183	15
17	DHVA 1622-12K	203	575	346	36
18	DHS 18R-2K	180	430	150	13
19	DHS 25R-2K	157	410	170	16
20	DHS 36R-2K	190	490	240	21
21	DHS 16R-3K	140	300	150	15
22	DHS 36R-4K	226	187	226	29
23	DHS 10NA	290	400	87	2

These are all products of Mixing Head by DUT's. It offers to high quality mixing efficiency and stable laminal flow to you by Ultimate mixing head technology of DUT KOREA. Furthermore, you can choice product options yourself. It means are offering various products line and optimized design for DUT's High Pressure Injection System.

Solution For Polyurethane

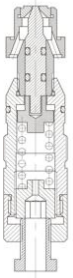
DUT KOREA
Dual Use Technology

NOZZLE

Nozzle offering high mixing efficiency and compatibility with various of mixing head.
Our nozzle is offer to you that amazing price compare with competitive companies

Features

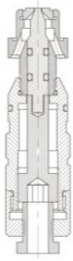
- Accurate injection
- Balanced pressure during injection
- Easy self-assembly & disassembly
- Long operation life and low cost to replace
- Straight injection even in controlling of pressure
- Keeping balanced pressure during injection
- Amazing price compare with competitive companies
- Desired customer's require need



◦ **N-DSN** - NSDN is standard type for DUT's Mixing Head and it has high stability.

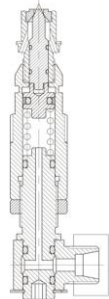
ACCURATE OUTPUT TYPE- Adjustment system of spring type

Always needle is straight forward. . By pressure of raw material thought reverse and injection flow. Also other point is that DSN-NOZZLE is take pressure at spring to certainly. But difficult to use larger output .



◦ **N-DCN** - NSCN has high efficiency with economical price. (Diffusion Type)

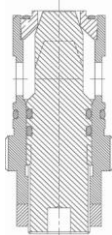
General type- The most commonly used by adjustment method of screw type. Applicable to whole mixing head. But harder for dispensing microscopic



◦ **N-DHN** - NDHN is specialized by 4KSH type Mixing Head

Applicable KSH type mixing head. It used to produce two or more material with one of mixing head. When injection A material than try to B material, it stop to B by spring in nozzle and stop by hydraulic safely.

It can be injection two or more material freely. (Only KSH type)



◦ **DCN20/30** - DCN30/20 is specialized by DHS2K 25R/36R and DHS 36R-4K

Applicable to whole mixing head and used large injection.

DUT KOREA is a premium partner for the high pressure mixing head and high pressure PU injection machine processing business worldwide.
Whatever you aim to achieve in polyurethane processing, DUT KOREA is offering to solution

Application-specific, **High pressure mixing heads** from DUT KOREA stand for profitability and productivity. High shot rates, good product quality and highest productivity are a direct outcome of our many decades of experience and our commitment to continuous improvement of our whole range of mixing heads. You benefit directly from the choice offered by our extensive range of mixing heads – from linear and transfer mixing heads to special versions engineered for highly specific applications.

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