

INTRODUCTION OF COMPANY & INTEGRATED BROCHURE

# COMPANY INFORMATION 2015



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# COMPANY INTRODUCTION

DUT's slogan is "Solution for Polyurethane". It means we do not just sell the product but care of products until customer's satisfaction. Our technology of polyurethane is started from customer's need and finished by their satisfaction.



## DUT KOREA

DUT has established in 1992 and became a leading company as manufacturer & specialist in field of High Pressure PU Solutions including Foaming Machine, Mixing Head, Metering Pump and all kinds of PU Applications in Korea. DUT started PU business with high quality of Mixing Head which is core of PU technology then the business expanded to all kinds of PU applications. DUT's market share of this field is getting bigger rapidly.

## Huge Sales Network

Sales Department has huge international network over 57 countries including USA, Germany, Italy, UK, Poland, Hungary, Egypt, China, Mexico, Japan, India, Iran, Thailand, New Zealand, and Brazil so customers are able to contact easily in their region.



# History

## 1992

- Jan – Established D.U.T. KOREA
- Feb – Admitted technique intensive venture company

## 1999

- Jan – Designated as an excellent company in technical competitiveness
- Dec – Developed a bundle of mixing heads for a polyurethane foaming machine

## 2000

- Jan – Designated as export support company
- Mar – Registration a venture company
  - Designated as a prominent small business
- Jul – Designated as a prominent bright prospect export

## 2001

- Jan – Registration the DUT KOREA corporation
- Nov – Acquired an NT (new technology) certificate (from the president of the Agency for Technology and Standards under the Ministry of Commerce, Industry, and Energy)
- Dec – Acquired an ISO9001 certificate

## 2002

- Apr – Participated UTECH ASIA 2002 (Mixing head DHV series, Simchon, China)

## 2003

- May – Industrial anti-fatigue mat developed & patent registration
  - Developed Mixing head DHVA series
- Jun – Developed Home Safety Mat with patent
- Jul – Registered International Patent with Mixing Head Assembly (PCT/KR02/10254)

## 2004

- Apr – Korea occupational safety & health agency Clean 3D support item
- Sep – Obtained EM certificate for Industrial Safety Mat (Anti-Fatigue Mat)
- Dec – Venture company confirmation (Pusan, Ulsan small business center)
  - ISO 9001 innovation (limited Dec. 2007)

## 2005

- Jan – Designated as a parts & material special company confirmation
  - Contracted with CTM (England), small capacity high pressure mixing head for foaming system (VARITHANE)
- Apr – Participated the UTECH ASIA 2005 (Singapore)
- May – Supplied 32 mixheads to Samsung China
- Sep – Established Shanghai branch office in China
- Oct – Contract with Desmex, Mexico as sales agent

## 2006

- Mar – Participated the PU world, China (Kwangjou, China)
- Jun – Participated the Quintao exhibition, China (Quintao, China)
- Aug – Contract with TKF (German) as sales agent
- Sep – Participated the PU China (Shanghai, China)
- Dec – Contract with Sintex India for Pu sandwich panel line

## 2007

- Mar – Participated Desmex fair, Mexico (Mexico, Leon city)
- Nov – Move in #914-4, Janglim-Dong, Shaha-Gu, Busan, Korea
  - Contract with Hunter telecom India for Pur Cold Room Panel Continuous Production line

## 2008

- Mar – Participated PU TECH India Exhibition
- Sep – Participate PU China Exhibition

## 2009

- Oct – Participated PUTECH EURASIA, Istanbul

## 2010

- Oct – Participated UTECH North America

## 2011

- Mar – Participated PUTECH India
- Sep – Participated UTECH Shanghai
- Nov – Participated PUTECH EURASIA Istanbul

## 2012

- Apr – Participated UTECH Europe Holland
- May – CE certification (High pressure foaming machine)
- Sep – Participated PU China

## 2013

- Sep – Participated PU China
- Oct – Participated K fair

## 2014

- Mar – Participated PU TECH India Exhibition
- June – Participated UTEC North America

**Company Name:** DUT KOREA CO.,LTD

**C.E.O:** Jeong Young Chai

**Establishment:** 10, Jan, 1992

**Location:** 914-4, Janglim-Dong, Saha-Gu, Busan, Korea

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## DUT KOREA's trustable technology.

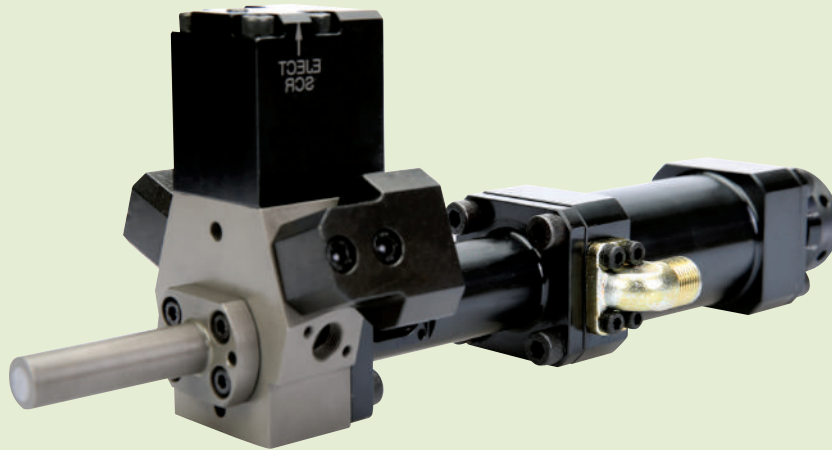
DUT has committed total quality control section for continuous improvement activity and will do our best step by step with providing high quality products based on reliability equipment.

## WORLD PATENTS

1. Mandrel of Invention
2. Ball Lock Retainer
3. Mixing Head for Polyurethane High Pressure Foaming System
4. Cleaning rod spiral groove in mixing head assembly
5. Mixing Head assembly for dual spray type
6. Mixing Head assembly with double tilted injection nozzle

# MIXING HEAD (DTRC/DHV/DHVA/DHS) (High Pressure Mixing Head)

## DTRC (Double Tilted Rear Chamber)



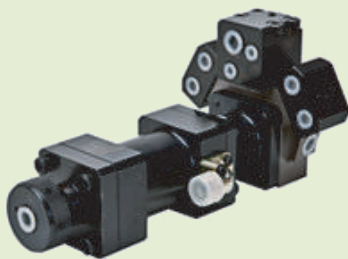
Mixing Head is core part of foaming machine. It decides quality of end product and affects efficiency of raw materials. DUT's mixing head has improved from advantages of L-type mixing head and it has patented "Double Tilted Injection System"

Also various models for each type offer optimal compatibility.

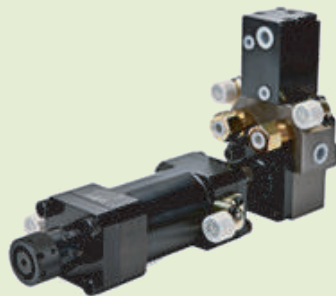
### Double Tilted Nozzle and Reared Chamber Injection – DTRC Series

L-Type – DHVA Series

R-Type – DHS Series



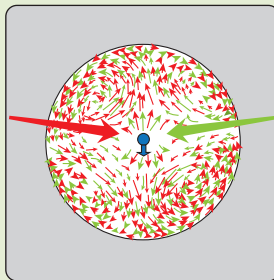
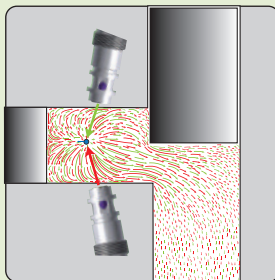
DHV 2K Series



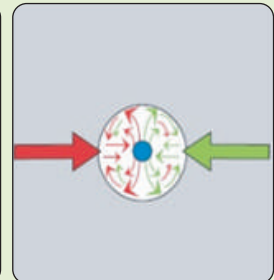
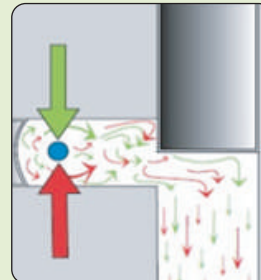
DHVA 2K Series



DHS 2K Series



Double Tilted Nozzle and Reared Chamber Injection(DTRC Series)



General L-Type Injection System

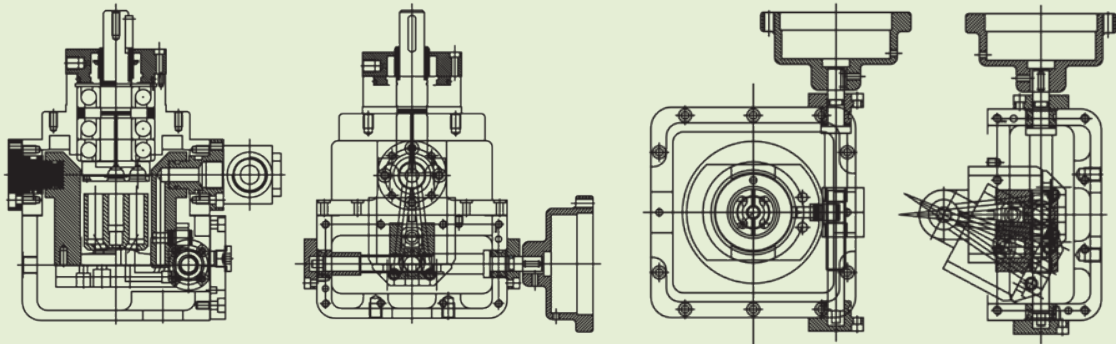
## METERING PUMP (DMP) (Light weight duralumin metering pump)



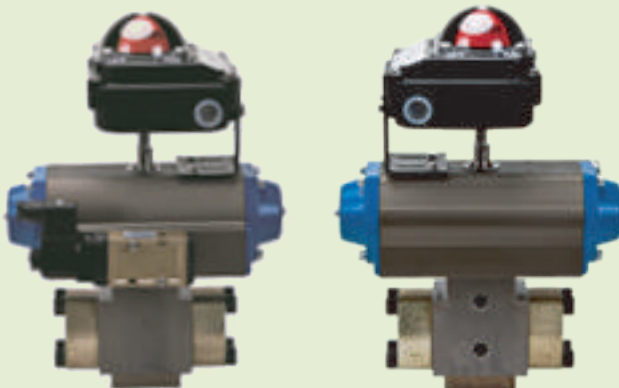
DUT's new developed pump 'DMP' is the type of 'Axial Piston Variable Displacement' and it designed to improve from weaknesses from previous metering pump.

Screws for 'Mechanical Adjusting Gear' have replaced by 'Fine Pitch', so operators can precise adjustment for outputs.

Also It has perfect compatibility with previous models and weight lightening has applied by parts simplification inside and using duralumin case so operator can maintain and replace easily.



## SD VALVE (High-Pressure Switching Valve)



- Optimized design for DUT's High Pressure Foaming System
- To prevent flowing backward, it is controlled by actuator (Not by Hydraulic)
- Semipermanent product life by superprecision machine
- Fast high pressure building time by air actuator

# FOAMING MACHINE (MAMIX) (High Pressure Injection System)

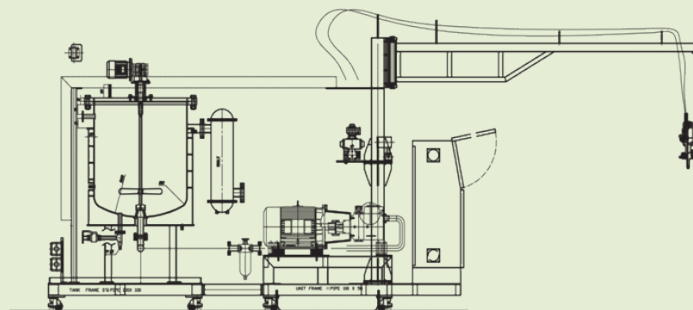
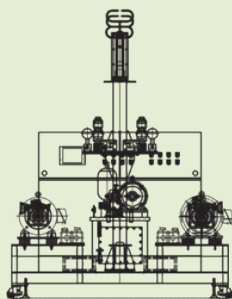
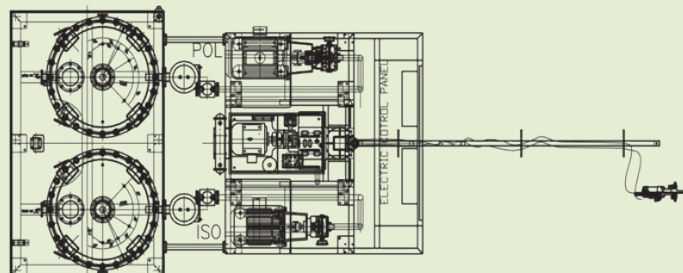


DUT's foaming machine has ultimate stability.

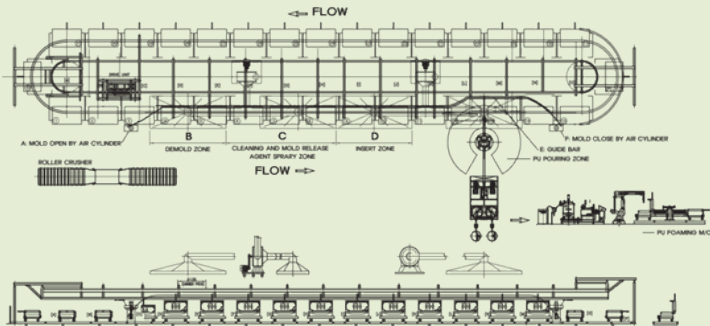
Core parts including mixing head, metering pump and S/D valve for foaming machine have designed organically. (DUT is only the company which manufactures all these together) Also simple and stable design helps operator to maintain and repair easily and self-developing PLC lets operator to control the foaming machine pleasantly.



- High mixing efficiency
- Stable laminar flow
- Suitable for rigid and flexible foam
- Innovative nozzle control
- Long operating life
- Low maintenance cost



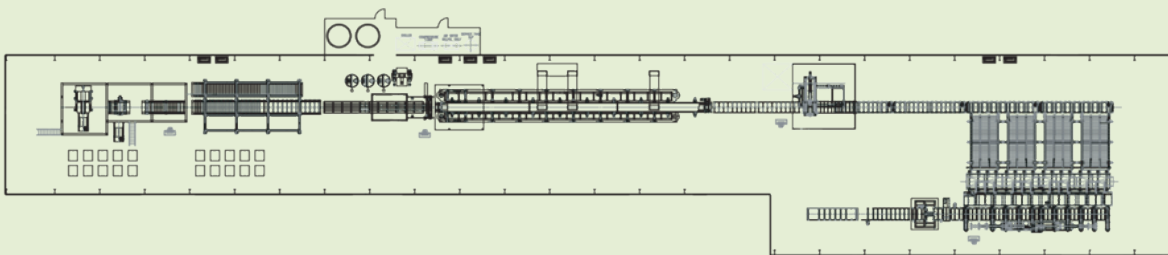
# APPLICATIONS (Total PU solutions list)



The point of system technology is stability by high compatibility among machines.

DUT has long product range from small part to huge machine so it makes high compatibility and offers best solution for customers.

Also DUT lets customer to chose various building options depending on their requirement.



# GLOBAL NETWORK

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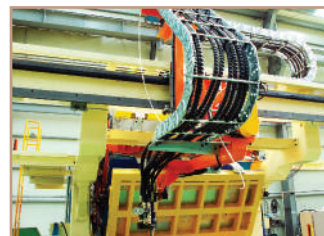
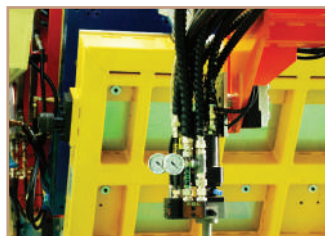


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# GLOBAL NETWORK



INTRODUCTION OF COMPANY & INTEGRATED BROCHURE

# COMPANY INFORMATION 2015

## R&D

DUT's R&D Team consists of PU specialists. They are always consider to solve customer's difficulties and DUT's innovative technology is created from customer's requirement. DUT's R&D center is totally set by customers.

## Q/A

To offer reliable products, Q/A team has been working to control product's quality. The technical data and troubleshootings are stored in DUT's Q/A database, and it helps to produce DUT's better products.

## PRODUCTION

The Production team has organized by skilled engineers and they manufacture DUT's innovative products by reliable equipments.

### Korea Head Office

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