



ENGINEERED TO HELP YOU WIN



CERT NO. : 2004-1-0737  
ISO 9001 : 2008

H Series

**GMA**<sup>®</sup>

Polyurethane Processing Machinery

# HIGH PRESSURE POLYURETHANE MACHINE

# H - Series

## The GMA-H Series

The GMA H-Series is a High-Pressure Polyurethane Foaming machine designed for mid to high production manufacturing. Assembled with the highest quality sub-components and subjected to high quality control standards, the GMA H-Series represents the highest form of precision. Customizable to fit any Foam production line, it can be integrated with industrial robots pouring system. It is compacted, easy to install, low maintenance yet high on versatility, making it the strongest product in the GMA Line.



## Tank Group

- 270L Tank Capacity for both ISO and POL
- In-tank mechanical stirrer to prevent chemical segregation
- Large Heat Exchanger for efficient temperature control
- Tank Chemical Level monitoring system with multi-alarm system
- Tank Auto-Refilling Function



## Hydraulic Group

- Working tank capacity of 20, 50 or 100 Litres with level indicator
- 10 Litres oil accumulator
- Heat Exchanger with temperature monitor system
- High Performance and high endurance Fix Displacement gear pump
- Real-Time Interface with control panel



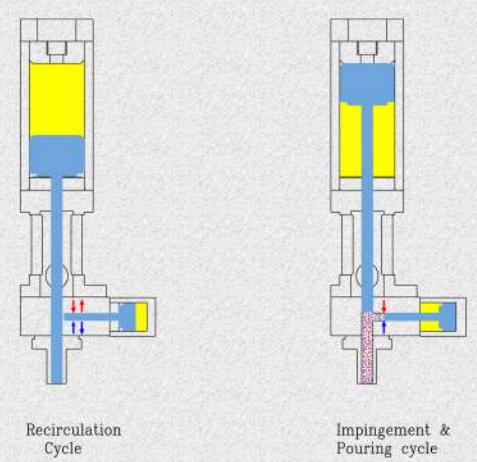
## System Control Group

- Anti-Static electric cabinet
- PLC Control System
- 9.0-inch touch screen operator panel
- User Friendly interface with multi-language option
- 29 pouring programs
- Real-Time monitoring display for components



## Mixing Head Group

- GMA-L Series, L-style Hydraulic Driven Self-cleaning Mixing Head with spacer design
- Hydraulically driven
- Self-Cleaning Feature
- Chemical Recirculation
- Proprietary seal flush system and Anti-Sticking surface on clean-out plunger - Reduces risk of cross contamination
- Operator Control for 29 pouring programs



■ Isocyanate  
■ Polyol  
■ Oil



## Metering Group

- Individual Drive Pump System - ISO and POL
- High Performance and accuracy using Rexroth A2VK Hydromatic pumps
- High efficiency 3 Phase motor system
- Magnetic Coupling system - No leakage system
- Individual Variable Frequency Drive for chemical output control
- Individual Flow-Meter for tracing chemical consumption
- EXD rating available



## Temperature Control Group

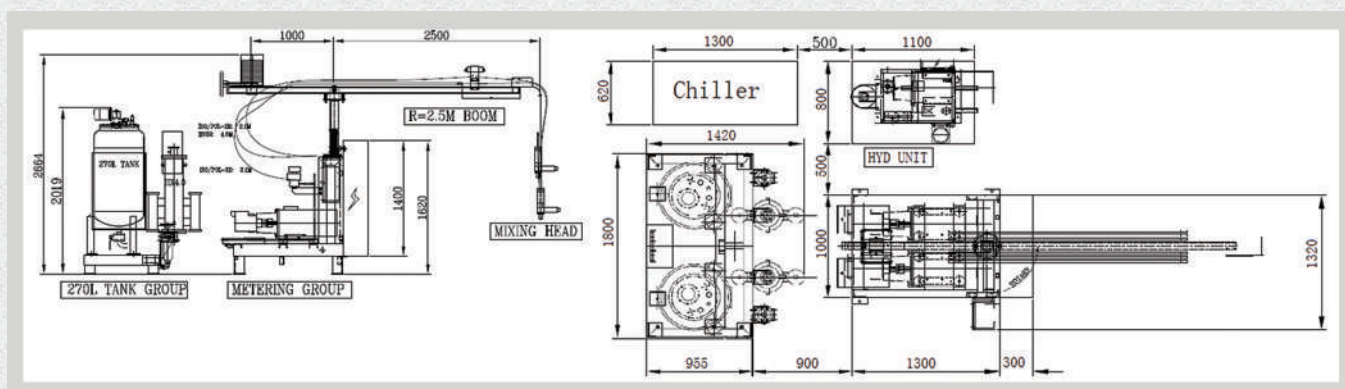
- Air Cooled Chiller Unit of various capacity
- Control Panel with basic alarm indications
- Easy interface with tank group
- Real-Time temperature and pressure display
- Safety system with pump and compressor overload prevention



## Application

Variations of the GMA H-Series has a proven track record in some of following industries:

1. Automotive components: Steering wheels, Carpet Underlay, Engine Cover, Head Rest, Arm Rest, Car seats, Dashboard.
2. Cold Chain Industry: Household and display refrigerators, Sandwich Panel Production; Ice Boxes.
3. Piping Industry: Pipe Spray Industry, Pipe-in-pipe insulation



Model	Max Ouput		Ratio	Tank	Power Consumption
	Kg/min at ratio				
GMA	1:1	2:1	POL/ISO	Litre (each)	KW
H6	5.4	-	5:1 to 1:5	100	≈20
H10	9	-	5:1 to 1:5	270	≈24
H20	18	-	5:1 to 1:5	270	≈25
H40	36	-	5:1 to 1:5	270	≈30
H60	-	54	5:1 to 1:5	270	≈40
H100	90	-	5:1 to 1:5	270	≈50
H200	175	-	5:1 to 1:5	270	≈100
H300	300	-	5:1 to 1:5	500	≈180

(\*) Note:

(1) : Output indicated as maximum output of machine per model, based on 1:1 component A: B mix ratio, PU chemicals with viscosity between 15 – 2000 cps, specific gravity: ISO = 1.20, POL: 1.05

(2) : Supplier reserves the rights to change design or specification according to technology advancement.

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