



# AP HIGH-PRESSURE METERING MACHINES FOR POLYURETHANES

**The compact AP model dosing unit is the ideal solution when low and medium outputs are necessary.**

The AP models are specifically designed for foaming small, rigid, low-density molded products, cavity-filling applications, and spraying processes.

With their low cost and compact design, companies can benefit from the machines' easy processing, user-friendly operator interface, reduced maintenance, and self-cleaning mixing technology. AP models offer a modern solution with energy saving and low environmental impact.

Each unit comes with two 24-liter carbon-steel bugger tanks, pressurized up to 4 bar, and directly connected to the chemical drums for automatic refilling and temperature stability via a heat exchanger. Each component is metered with two high-pressure axial piston pumps with output and ratio close loop control performed by inverters.

AP machines are available in the following versions:

	AP 10		AP 30	
<b>Output range (g/sec) at ratio 1 : 1*</b>	Min: 40	Max: 200	Min: 75	Max: 380
<b>Two Cannon HP fixed output pumps</b>	6cc / rev		12cc / rev	

\* Specific gravity: 1.2 g/cc for isocyanate, 1.0 g/cc for polyol with a maximum allowed component viscosity of 1,900 cps.



# Key advantages of the AP machine

## Mixing Heads

Each AP model is equipped with a dedicated LN or FPL models mixing head. Thanks to the high-pressure mixing technology, harmful head cleaning solvents are no longer necessary, improving operator working and safety conditions.

## Operator Panel

The machines are monitored and controlled in real-time using a Siemens PLC and HMI panel, allowing operators to save up to 99 pouring programs and a weekend cycle during production or shutdown periods.

## Customized to your needs

AP models are available with a series of optional devices

- Optiatio system for real-time monitoring and close loop control of outputs and ratios
- Pre-setting system to organize and list pouring programs for automatic sequencing
- Free-standing, rotating spring boom to support mixing heads

Mixing Head model	AP 10 LN 5	AP 30 LN 10	
Min Output*	20	100	
Max Output**	140	Comp A** 350	Comp B** 550
Head Weight (kg)	1,2	5,8	

Output (cc/s) calculated considering a viscosity < 1000 cps  
\*Total Output    \*\*Total Output = (Comp A + Comp B)

Other dedicated mixing head models are available for spraying applications.



Cannon Afros, a company of the Cannon Group founded in the early 1960s, is the world's leading supplier of dosing systems, mixing equipment and processing technologies for polyurethanes and multi-component resins. Today Cannon Afros offers an extensive range of processing technologies for molding, pouring, injection, spraying, pultrusion and manufacturing abilities dedicated to a comprehensive range of resins such as polyurethanes, silicones, elastomers, epoxy resins, phenolic foams, and bi-component adhesives. Cannon Afros design, manufactures and sells a vast range of equipment from single mixing heads and

stand-alone units to complex turnkey and customizable production plants to serve the following main industrial applications: automotive interiors and exteriors, appliances and refrigerator insulation, rigid insulation for the cold chain industry and refrigerated transportation, building and construction insulation, sanitary ware, piping insulation for oil heating and district heating, technical components and medical equipment, flexible padding and seats for furniture and automotive industries, sealing and gluing for lighting and electrical enclosures, direct infusion and pultrusion for wind blades, and encapsulation and potting for electrical and electronic components.

