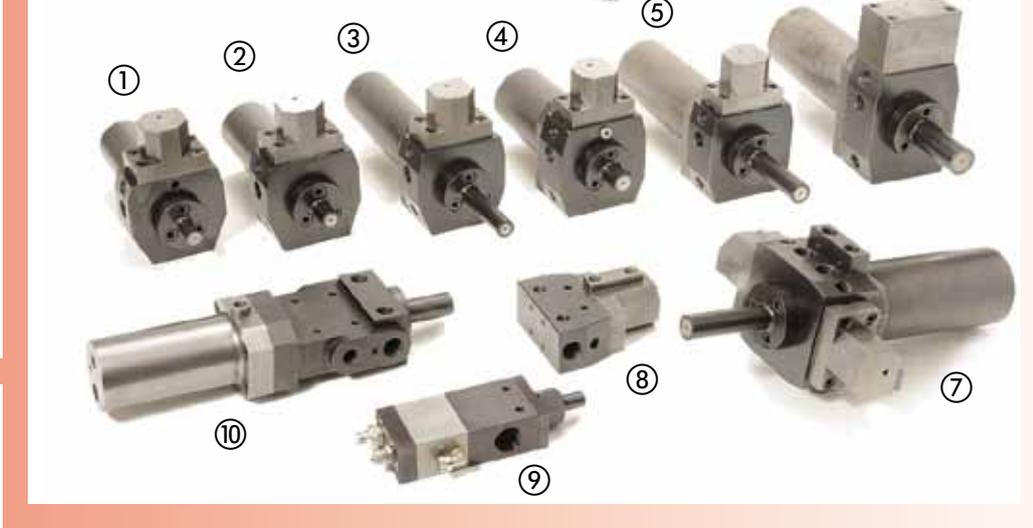


# HP 2TJ



## INTRODUCTION POLYURETHANE

Polyurethanes are “plastic” products” that are obtained by mixing an appropriate dosage of organic liquids called isocyanate and polyol.

Depending on the different types of product used, one can obtain a wide range of polyurethanes which may be classified as:

- RIGID (sandwich panels, refrigerators, imitation wood, structures),
- FLEXIBLE (pillows, mattresses),
- INTEGRAL (automotive, furniture)
- ELASTOMERS (shoe soles, gaskets, wheels)

### INTRODUCTION CMC HP 2TJ

The modern technologies employed for molding polyurethane foams, and the ever increasing need to operate in workplaces free from noxious fumes, require the use of high pressure mixing machines.

Unlike the low-pressure mixing machines in which the washing of the mixing bowl is performed with the use of solvents, high pressure machines offer the following advantages:

- Elimination of the washing cycle;
- Elimination of the disposal of wastewater from washing;
- Reducing energy consumption;
- Improvement of working conditions;
- Respect for and protection of the environment;
- Greater accuracy of dosage;
- Increase of the mixing quality of the foam;
- Optimization of production processes;
- Reduction in operating and maintenance costs.

The high pressure mixing machines CMC HP 2TJ are designed using modern technologies adapting them to the needs of all types of user.

#### Key benefits

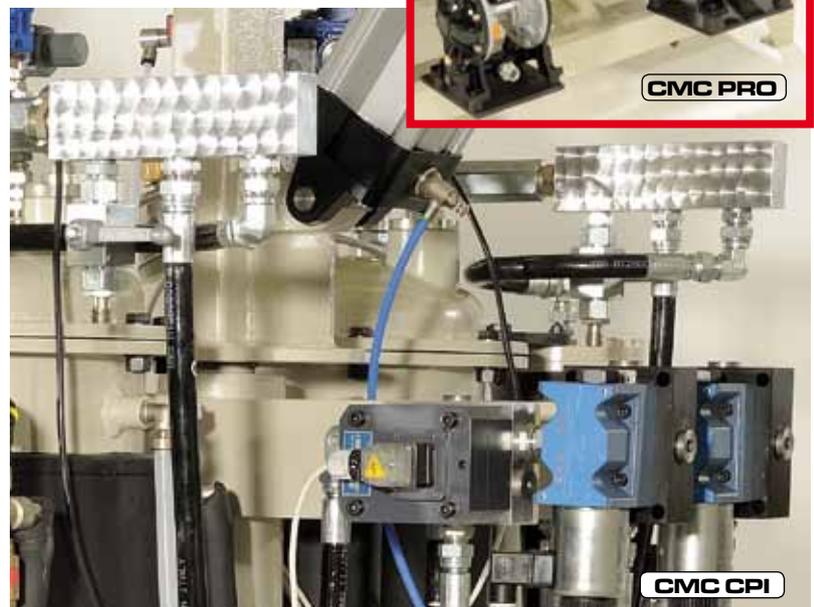
- Simplicity of use
- Reliability
- Flexibility
- Low maintenance
- Complete customization

#### Dosage of components

- High pressure axial piston dosing pumps with variable flow with handwheel
- Filters suction components on dosing pumps with digital pressure regulators sensing supply pressure
- Digital pressure regulators sensing component dosing pressure
- One piece leak-proof component recycling separators

#### Storage and conditioning components

- Component tanks with external insulated cavities for recycling cooling liquid, capacity: 70 Lt
- Automatic temperature control components using electrical resistance and cooling liquid shut-off solenoid valve
- Visual level indicators on component tanks
- Signaling level indicators of component backup



# HP 2TJ

- Line washing valves and component tank discharge

## Component mixing

- Two-piston self-cleaning mixing head with injector driven component recycling
- Calibration of the components directly from the mixing head
- Hydraulic unit complete with battery for an immediate response, solenoid operated mixing head
- Special head holder with joystick operated pneumatic cylinder

## Machine control

- Touch screen for the control and display of the machine functions to guide the user through the choice of the programs to be set
- Machine cycles: PISTON TEST, CALIBRATION, INJECTOR TEST, WORK
- 100 mixing programs selectable from the keypad set on the mixing head
- Data management software: number of daily and total cast pieces; component partial and total consumption; chronological list of the alarms which occurred; graph of component casting pressures; maintenance reminders
- Automatic recycling for homogeneous component temperatures along the pipes



CMC BS

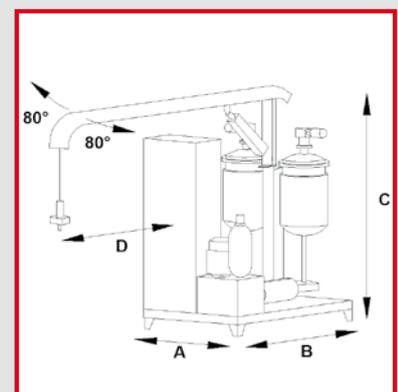


HP 2TJS



HP 4TJS

MODEL	TOTAL FLOW (gr/s)				kW	Kg	DIMENSIONS (mm)			
	Ratio 1:1		Ratio 2:1				A	B	C	D
	Min	Max	Min	Max						
CMCHP20/2TJ	40	330	60	250	15	600	1100	1750	2200	
CMCHP30/2TJ	60	500	85	390	18	700				
CMCHP40/2TJ	100	660	140	500	20	750				
CMCHP50/2TJ	120	800	170	630	25	800				
CMCHP80/2TJ	150	1400	210	1100	30	950	1200	2000	2200	
CMCHP100/2TJ	170	1650	240	1300	35	1100				
CMCHP120/2TJ	200	2000	280	1550	42	1200				
CMCHP200/2TJ	300	3300	420	2570	65	2500	1600	3500	2600	



# HP 2TJ

## OPTIONAL

- **CMCCPI**  
Component flow controllers for the display of the total flow values, and of the single components and the testing of the mixing ratios
- **CMCIR**  
Inverter for the variation of flows of the two components, complete of rear drive system for instant flow correction
- **CMCAC**  
Slow gate paddle agitator scraper on tank bottom to lift any decanted material or color
- **CMCGMPD**  
Magnetic coupling drive for metering pumps to eliminate completely component leaking due to seal wear
- **CMCLCC**  
Level of charge of anti-crystallization components
- **CMCPRO**  
Diaphragm pumps for loading components complete with suction tube
- **CMCHP**  
Heads available 1, 2, 3, 4, 5, 6, 7, 8, 9, 10
- **CMCFRH**  
Refrigeration unit for component cooling automatically supplied by the machine so as to reduce wear and power consumption
- **CMCSC**  
Shell and tube heat exchangers for quick conditioning of components
- **CMCBS**  
Special head holder arm following customer request
- **CMCRTS90**  
90 ° head rotation system for horizontal and vertical casting
- **CMCMR**  
Remote monitor positioned on the control keypad



High density

Low density



Integral & Flexible

RIM



Via Pio La Torre, 7 - 50018 Scandicci FI  
Tel +39 055 7311268 - Fax +39 055 7310809  
www.cosmec-pu.com - info@cosmec-pu.com

