

# 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 2TJ

The modern technologies employed for molding polyurethane foams and the ever increasing need to operate efficiently and containing operating costs have reduced the use of low-pressure technology.

Special applications, such as low-flow casting, small production volumes and mixing of specific products, make essential the use of low-pressure machines.

The low pressure mixing machines CMC 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

- Volumetric metering pumps with high precision double gear
- Inverter driven variable flow
- Digital pressure regulators sensing component dosing pressure

#### 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
- Line washing valves and component tank discharge

#### Component mixing

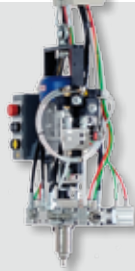
- Self-cleaning head with independent valve component recycling
- Recycling and component casting pressures adjustable in head
- Dynamic mixer motor driven by pulleys and belt
- Calibration of the components directly from the mixing head
- Special head holder with joystick operated pneumatic cylinder



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## 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: CALIBRATION, MANUAL, 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



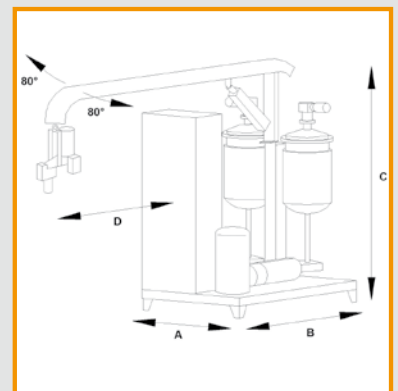
2TJG



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MODEL	TOTAL FLOW (gr/s)				kW	Kg	DIMENSIONS (mm)			
	Ratio 1:1		Ratio 2:1				A	B	C	D
	Min	Max	Min	Max						
CMC3/2TJ	5	50	7	35	6	600	1100	1700	2200	2200
CMC6/2TJ	10	100	15	75	6	600				
CMC12/2TJ	20	200	28	155	8	600				
CMC20/2TJ	50	330	60	250	10	650				
CMC40/2TJ	100	660	140	500	12	700				
CMC60/2TJ	120	1000	150	750	14	700				
CMC120/2TJ	200	2000	280	1550	16	800				
CMC200/2TJ	500	3300	700	2570	22	1200	2000	2000	2600	2200
CMC300/2TJ	600	5000	840	3500	26	1300				
CMC400/2TJ	700	6600	1000	5000	30	1800				



## 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
- **CMCAC**  
Slow gate paddle agitator scraper on tank bottom to lift any decanted material or color
- **CMCH2OE**  
Automatic environment friendly washing system of mixing chamber with hot water
- **CMCLCC**  
Level of charge of anti-crystallization components
- **CMCPRO**  
Diaphragm pumps for loading components complete with suction tube
- **CMCGMPD**  
Magnetic coupling drive for metering pumps to eliminate completely component leaking due to seal wear
- **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 conditioning of components
- **CMCBS**  
Special head holder arm following customer request
- **CMCMR**  
Remote monitor positioned on the control keypad



High density

Low density



Flexible & Integral

Elastomer



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