

# MC-I 710

2-component injection pump with separate flushing pump



## PRODUCT PROPERTIES

- Compressed air driven high pressure pump for injection resins
- Extra flushing pump, can be used for separate 1K injection
- Complete with high pressure hoses and mixing head
- High volume output
- Efficient grid mixing technology
- Compact, mobile, functional
- Delivery volume measurement via stroke counting

## AREAS OF APPLICATION

- Dosing, mixing and injection of reactive resins
- Combined pre-injection of water-stopping elastomer foam via 1K pump and main injection via 2K pump

## APPLICATION ADVICE

**Intended use:** The MC-I 710 is used for the injection of 2-component injection products in a mixing ratio of 1:1 parts by volume. Optionally, the flushing pump can be used for single-component injection. The modular design of the injection unit allows both pumps to be used independently.

The individual components of an injection material are conveyed separately via high-pressure hoses to the mixing head, where they are homogeneously mixed. The mixing distance must be adapted to the injection material (see "Technical data" table). Information on mixing ratios, processing conditions, processing times and protective measures can be found in the data sheet of the respective injection material and must be observed.

The delivery pistons of the 2-component unit are driven synchronously by a central air motor. The delivery rate is influenced by hose length, hose diameter, delivery height, length and equipment of the mixing tube and the properties of the injection material.

The air inlet pressure of the air motor must not exceed 8 bar! The pump can be operated with dry, oil-free or oil-containing compressed air. Important: After use with oil-containing compressed air, oil-containing compressed air must always be used!

Before each start-up, the 2-component conveying unit must be calibrated. The mixing ratio must be checked regularly. The function of valves and sealing packages must be checked. The addition of anti-freeze to the compressed air is generally only necessary at high humidities (> 70 %). Set the supply of antifreeze (e.g. Glycoshell, Shell) to 1 drop per 8 double strokes. The function of the antifreeze unit and the water separator on the air motor must be checked daily.

The MC-I 710 is equipped with an independently operating flushing pump. It has the performance characteristics of a 1-component high-pressure pump and thus always achieves optimum flushing performance. The 1-component pump can be used separately to inject suitable products. Multi-component resins must be mixed in advance for this purpose and are aspirated from a separate container.

The MC-I 710 must be thoroughly cleaned and maintained before longer interruptions to work or after completion of the injection work. As a rule, a cleaning agent adapted to the injection material must be used for this purpose. After thorough cleaning, a preservative oil must be pumped through the pump so that all pumping parts are wetted with it. This also applies to the flushing pump.

**Inspection cycles and maintenance schedule:** Instructions for inspection, maintenance and replacement of wear parts can be found in the MC-I 710 operating manual.

## TECHNICAL VALUES & PRODUCT CHARACTERISTICS

Characteristic	Unit	Value	Comments
Weight	kg	approx. 45	
Dimensions (L:W:H)		45 / 31 / 74	
Air inlet pressure	bar	8	
Air requirement	l/min	500	minimum
	l/stroke	18.5	minimum
Material hoses	piece	3	pair of 7.5 m high-pressure hoses Ø 6 mm for 2c pump / 7.5 m high-pressure hose Ø 4 mm for 1c pump
Suction tubes	piece	3	
Sliding couplings	piece	1	for 2c pump and MC-Bore Packers LS 18
Cone head coupling	piece	1	1c pump MC-Bore Packer DS 14 / MC-Adhesive Packer HP
Number of mixing tubes	piece	1	MC-Injekt GL-95 (and the like)
		2	MC-Injekt 2700 (and the like)
		2	MC-Injekt 2300 top (and the like)
Number of inline static mixers	piece	16	
Discharge rate (maximum)	l/min		free-flowing discharge from the pump
2c pump		approx. 20	
Purging pump		approx. 3	
Transmission ratio			
2c pump			
Purging pump			
Mixing ratio	parts by volume	1 : 1	
Operating pressure (maximum)	bar		
2c pump		120	
Purging pump		264	

### Safety instructions

The MC-I 710 is a high pressure pump with injection pressures of up to 120 bar on the 2-component delivery unit and up to 264 bar on the flushing pump. Read the user handbook carefully before starting up the pump. The user handbook must be kept ready to hand at the place of use. In particular, the injection jet must never be directed against living beings. Protective equipment such as protective goggles or visors, protective suits and gloves must be worn by all persons involved.

**Note:** The information contained in this data sheet is based on our experience and is correct to the best of our knowledge. It is, however, not binding. It will need to be adapted to the requirements of the individual structure, to the specific application and to non-standard local conditions. Application-specific conditions must be checked in advance by the planning engineer/specifier and, where different from the standard conditions indicated, will require individual approval. Technical advice provided by MC's specialist consultants does not replace the need for a planning review by the client or its agents in respect of the history of the building or structure. Subject to this prerequisite, we are liable for the correctness of this information within the framework of our terms and conditions of sale and delivery. Recommendations of our employees deviating from the information given in our data sheets are only binding for us if they are confirmed in writing. In all cases, the generally accepted rules and practices reflecting the current state of the art must be observed. The information given in this technical data sheet is valid for the product supplied by the country company listed in the footer. It should be noted that data in other countries may differ. The product data sheets valid for the relevant foreign country must be observed. The latest technical data sheet shall apply to the exclusion of previous, duly superseded versions; the date of issue in the footer must be observed. The latest version is available from us on request or may be downloaded from our website. [2300018702]