

**Equipment**

Designation	Part number
2K dynamic mixing head - Please consult us	♦♦♦♦

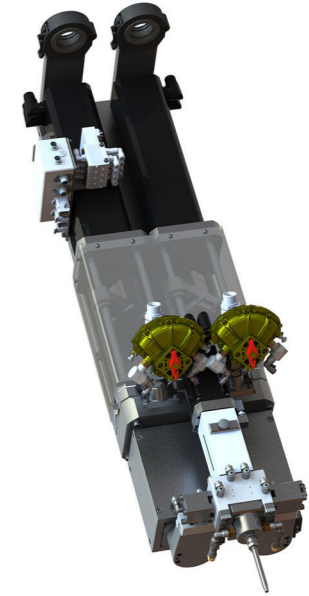
**Accessories**

Designation	Part number
Please consult us	♦♦♦♦♦




**2K mixing head**

Dynamic

High Viscosity / Streaming



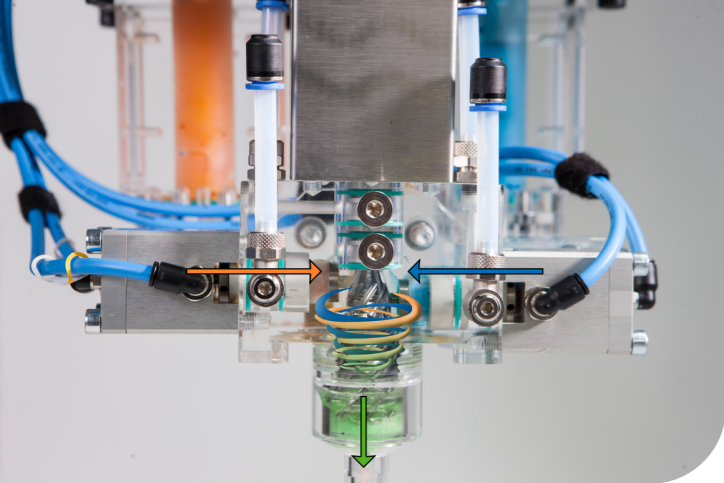
APPLY WITH UNBELIEVABLE PRECISION

-  **Compatible with all our dosing units**
-  **Highest accuracy and precision**
-  **Perfect homogeneity at high flow**

**Markets**



**BOND • PROTECT • BEAUTIFY**



## 2K mixing head

### Dynamic

The Sames Intec 2K mixing head is available in all dosing units and is suited for high flowrates as well as accurate applications.

In comparison to static mixing, dynamic mixing allows higher application flow rates thanks to higher pressures. The dosing units with dynamic mixing are the best in class in terms of precision and cover **volumes from 2x50 to 2x400cc**. The encoder is able to send more than 250.000 increments per piston stroke millimeter which guarantees a **huge accuracy on the flow and the quantity applied**. Sames Intec dispensers are thermally controlled to ensure repeatable application in accordance with the recommendations given by the material manufacturers. The design of the dosing chambers is skillfully engineered: its construction realizes a good material renewal and minimizes the required material pressure of the high viscosity material. The First In First Out (FIFO) construction avoids any retention area where the material could harden or degrade and cause the nozzle to block.

All the fluid connections are designed for an **optimized hydraulic flow** avoiding sharp angles and quick change of orientation. A multiple choice of seals allow an accurate adaptation to the material's chemical compatibility and abrasion. A carbide-carbide sealing solution is available for very difficult materials. The outlet valves are designed for high speed switching and closing at the very end of the nozzle. Thus, you can achieve a very clean and precise application respecting the geometrical specifications of the process. Sames Intec outlet valves offer a large variety of application types: round bead, flat bead, swirl, slot, stitch bead, triangle section, etc. Our shotmeter range has been designed with **reliability and quick maintenance** in mind. All components are easily accessible and the replacement time has been optimized to make our solution as available as possible for production needs. Furthermore, the capacity of the dosing chamber can be adapted from 2x50cc to 2x400cc according to the volume of applied material thanks to a very easy assembly of the dosing parts.

During **dynamic mixing**, both adhesive components are simultaneously mixed by a driven helix. Due to the rotation and geometry of the mixer and the chamber, the material mixes optimally for the subsequent application. A cooling system can be added for exothermic reactions.



### Technical data table

Designation	Value	Unit: metric (US)
Power Supply	480	VAC
Width	204 (9.5)	mm (")
Depth	290 (11.4)	mm (")
Height	891-974 (35 to 38.3)	mm (")
Air Inlet Maximum	6 (90)	Bar (psi)
Maximum Inlet Pressure	300 (4350)	Bar (psi)
Maximum Outlet Pressure	135-215 (2000-3120)	Bar (psi)
Dispense Volume	5 - 640	cc
Weight	60-99 (132-218)	kg (lbs)
Max Product Temperature	80	°C
Max. rotation speed	1.700	rpm



### Technologies



Bead



Potting



Droplets



Streaming



### Description

#### Performance

- ◆ Very precise servo motor driven mixing rotation
- ◆ Good material renewal: First In First Out (FIFO) construction
- ◆ Pressure drop minimization: All fluid connections are designed for optimized hydraulic flow and a minimal shearing
- ◆ Modular construction kit for mapping all common mixing ratios and requirements. Please contact us for special mixing ratios.

#### Productivity

- ◆ Wide range of seal kits: For maximum compatibility and abrasion resistance to the chemical properties of the material.
- ◆ Special design under hydraulic aspects: prevents contamination, smooth geometry, precise & reproducible dosing
- ◆ Different types of mixers available for all kinds of adhesives
- ◆ Fast head replacement system

#### Sustainability

- ◆ Easy access to every component. Maintenance is simple
- ◆ Interchangeable dosing chamber sizes from 2x50 to 2x400cc: easy adaptation to the process due to common spare parts.
- ◆ Smart purging management reduces hazardous waste

