



# MATAS EL12

## Automatic batching system for welding electrode coating mass preparation

Batching system was created for dosing of specific materials, used to produce coating mass of welding electrodes. The list of materials includes rutile, marble, FeMn, FeCr, FeTi, FeV, FeB, FeMo, FeSi, FeNb, FeW, dolomite, cellulose, graphite, talc, aluminum powder, soda, feldspar, alumina, mica etc. The original system includes not only batching system, but has database for material accounting, production monitoring system and other features.

It is extremely important not to overweight or underweight an expensive rare materials as well as guarantee quality of the final product. Using MATAS system, recipe-driven batching tasks will be done exactly according to the recipe, independently of the large or small material percentage in the final batch.

MATAS batching system gives you possibilities to store in databases quantity of all materials used in batches, track and trace all batching procedures and almost totally eliminate human factor in batching process.

Batching accuracy	Up to 0,1%
Discrete of weighing system	50 g
Weight of the batch according to one recipe	150 kg (or according to task)
Batching system for small weights	6 kg (or according to task)
Discrete of weighing system for small weights	2 g
Weighing class of scales	Class III
Number of recipes	Unlimited
Number of materials batched 12+4 or according to specific project	
Valves	Pneumatic
Forced support of constant material flow	4 blade ripper in each batcher
Screw conveyor speed regulation	0-120%
Identification tracking of hoppers/containers and operators	RFID
Batching speed	13 batches/hour
Process control	SCADA system, touch screen displays
Protection class of control cabinets and HMI	IP65

## Automatic micro batching

If your standard recipe has larger number of small weight components relatively to the batch, you need automatic micro batching system. Made from stainless steel micro batchers (including hoppers) are suitable for materials with high and low density, for abrasive, viscose, sticky, dirty, as well as for electrostatic, explosive, volatile and flammable materials.

Every material gets specific screw conveyor with screw blade of special form, most suitable for that material. Integrated ripper provides steady flow of the material.

Micro batchers could be supplied with any modification of adjustable material flow: from 3 to 150 l/h; from 10 to 1000 l/h; from 40 to 6000 l/h. Batching accuracy depends on required batching limits.

Automatic micro batching system is fully integrated into the system MATAS EL12.

