**Extruder, Multi-Gran**

**Equipment: Extruder: Multi-Gran, Model: MG-55 ( FUJI PAUDAL CO.)**

**No. of Equipment: UFCH6**

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**Equipment Description**

**Description of equipment:** Granulatoris designed **to** manufacture granules of ceramics, organic materials, polymers/biopolymers in form of cylinders of the diameter 1 to 3 mm adjusted by the selection of a die with proper openings.

The granulator is a wet extrusion system with a single screw. From the three types of designed extrusion arrangements there is available the arrangement for frontal type extrusion. Extruder´s hopper is charged by a material pretreated by mixing and kneading to acquire adequate rheological properties and is transferred to the extrusion zone at the front end via a special screw and screw housing. The front of the machine extrudes the wet material through a perforated die plate.

Specifications and technical features:

The set consists of two parts: (i) the intrinsing extrusion machine and (ii) control panel equipped with a screen, touch panel and emergency stop button. The two parts are connected by a cable.

Rotation: 6.7 – 60 Hz

Engine: GM-HY2-RH: 0.75 kW , 230 V, 50 Hz, single-phase

**Specification of expertise relevant to NanoEnviCz workpackages:**

**WP3**f, **WP4**a,b,c, **WP5**a,b,c,

**Detailed description of expertise**

**Please, specify the main research topics connected with equipment**:

Preparation of catalysts, preparation of catalyst´s supports

**Please, specify the secondary research topics connected with equipment**:

Preparation of sorbents,

**Keywords describing research area:**

catalysis, sorption,

**Competence**

**Relevance for applied and industrial research:** Yes

**Relevance for fundamental studies:** Yes