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Simoloyer® CM20-AB20

High Kinetic Processing mode

batch operation, **auto-batch**, semi-continuous

in general

High Kinetic Processing (HKP) in the Simoloyer® represents the most advanced technique for Mechanical Alloying (MA), High Energy (HEM) and Reactive Milling (RM), for making Nanostructures. To cover requirements from lab to industry for quality and quantity, processing modes batch-, auto-batch and semi-continuous operation do provide the most advanced solutions. While the Simoloyer® base unit remains same, grinding units are equipped with corresponding mainports. Standard for batch operation, type -s2 with second mainport for auto-batch and type -s1 with semi-continuous ports for insitu separation/classification at carrier-gas/multiphase flow. All types cover batch operation, multiple mainports are available up to type -s5 and exceeding.

application

Automatic batch-processing, for battery materials cathode, anode, particularly Li/Ion. ODS/NFA, both, Fe- and Ni-base manufacturing. Solid-state hydrogen storage, hard-metal applications, composite materials, rapid particle size reduction of brittle solids vs. ductile metal flakes and multiple more.

advance

large-scale semi-automatic nanostructure processing with aerodynamic separation. Here titanium composites in/with:

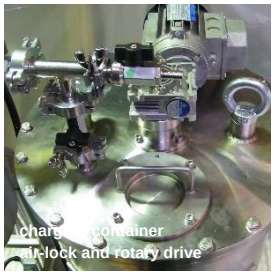
- closed system, controlled atmosphere & evacuation;
- modular setup, automatic valves for system and charging;
- carrier-gas discharging with automatic product separation;
- communication of all drives by Maltoz®-software/PLC;

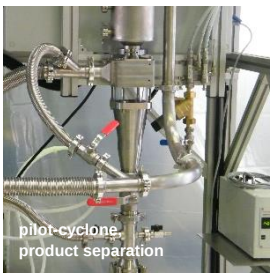
➢ safe process, faster discharging for best product quality.

data & dimensions AB20

AB20 (CM20 > 22kW) IP22 upon inquiry: 320-528V	400VAC + PE, 3-phases (4 lines, TT/TN-net), 50/60Hz
power supply AB20 only	<5kW, 16A
dimensions (LxWxH)	1820 x 950 x 4000mm
floor-plan / AB20 weight	2 x 5m (10m^2) / 300kg

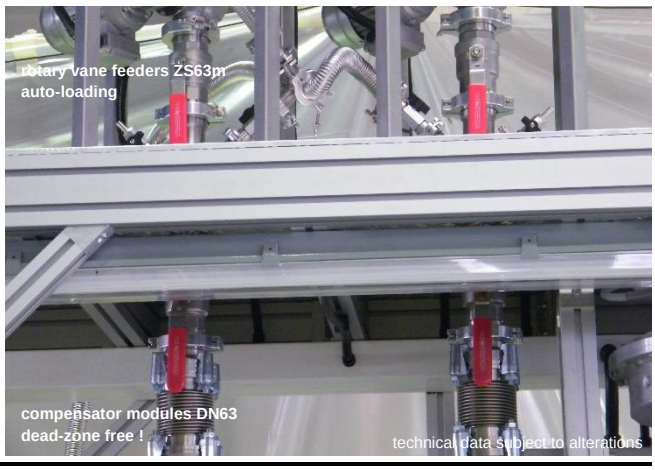

charging container (2) automatic loading


charging container air-lock and rotary drive


pilot-cyclone, product separation


Zoz-turbine SKZ vacuum !


draingrating Ask, chargegrating Bsk and side adapter with auto-valves


rotary vane feeders ZS63m auto-loading

compensator modules DN63 dead-zone free !

technical data subject to alterations