Important: Brief info on the name "PEA1000":

The PEA1000, is known worldwide under this name and stands for a certified and approved sample collection.

PEA1000, what does the abbreviation actually mean?

Its derived from the German term of "Proben Entnahme Automat" referring to automatic sampling device 1000mm width.

However, the automatic sampler can be adapted to all material stream widths to be sampled. For example, if the conveyor belt to be sampled is 1400mm. wide, the designation would be PEA1400.

This product has been driven to an absolute top level by close cooperation over many years with research, the Federal Quality Association for Secondary Fuels, developers, laboratories, chairs, scientists, professors, doctors, right down to the normal operator on site.

We travelled all over Germany for decades, taking in all the suggestions, operating features, simplicity and also partly dreams of the above-mentioned. The result is a sampling machine that everyone wanted and is approved for.

Machine description:

The "Automatic Sampling Station" PEA1000 is used for independent sampling of pourable bulk materials. The PEA can be integrated wherever the material to be sampled is in "free fall". For example at the transfer of conveyor belts, chain conveyors, walking floors, truck loading, bunkers, rotary valves or at any other dropping point.

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We traveled all over Germany for decades, taking up all suggestions, operating characteristics, simplicity and also some dreams of the above. The result is a sampler as everyone wanted and approved.

The certified sample acquisition is carried out by a sampling tray which penetrates the material flow and records the entire trajectory parabola and cross section during the backward movement. The heap of samples, which then lies on the tray, is stripped off at the end of the sampling cycle and fed to the further process.

This can be continued and completed with a wide variety of "modules" from MMe. One of the MMe modules is the sideshift. This is used wherever the sample has to be removed from the sampling area laterally, i.e. horizontally, due to a "lack of space". Then the sample is placed in a fully automatic and integrated collecting container (module MMe).

The system described above has become a "standard" over time.

The MMe module, sample carousel (round) or sample magazine (linear) rounds off the complete system. Several consecutive records can be recorded and archived in this. Whether the "classic 10 liter buckets" from the laboratory or 80 liter drums have already been automated by us.

Hermetically sealed off, self-contained, coherent, removed and permissible.

This is the MMe-Sampling-Complete-System, PEA1000.

Machine structure:

The sampling station consists of a sheet steel construction to accommodate the linear guide, the sampling tray and the pneumatic one

Drive. The sheet steel construction is either primed / RAL varnished or made of stainless steel.

Pneumatic drive fully installed, including solenoid valve, tubing, maintenance unit, pressure switch and 2 inductive magnetic switches. Linear guide via 2 stainless steel shafts with linear plain bearings to accommodate the substructure for the sampling tray.

Delivery including 4 different sampling trays (50,100,150,200 deep) for easy exchange for different bulk goods and sample quantities.

Wiper as a solid steel construction with an integrated brush for cleaning the sampling tray.

Electrics:

Control cabinet with Siemens PLC control and control panel without Profibus connection. Potential-free interference and switching contacts for integration into the existing system or monitoring of the emptying of the collecting container of the collected samples, optional.

Documentation:

CE-compliant documentation with detailed operating instructions in German. Translation of the documentation into other languages optional.

Immersion depth of the tray in the material flow: approx. 600mm

Compressed air	6 bar, approx. 120 liters Compressed air per sampling
Compressed air connection	G ½ "
Electrical connection	400V AC / 50 Hz
Power consumption	max. 2 KW
Cable length to the control cabinet (standard)	10 m
For the main dimensions of the sampling station	see the dimension sheet
Weight of the sampling station	~400 kg – 600 kg
Wide sampling trays	from 600mm to 2000mm
Depth of the sampling tray	max. 200 mm