



Ports to be generated for self-designing PMP

Flowsheets: creating-administrating- calculating

The PMP – Flowsheet Editor enables an individual arrangement of plant circuits.

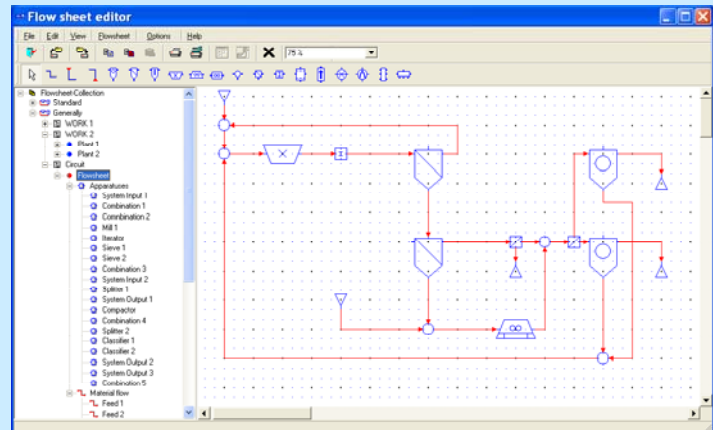
Features:

- ◆ common and hierarchic administration of circuits
- ◆ process related node description allows a simple combination of devices
- ◆ comprehensive analysis of calculation methods
- ◆ fast and complete calculation of all mass flows, particle size distributions and characteristics

PMP - Flowsheet Generator:

Administration

Drawing Area



Example: Plant evaluation

Target size: spec. energy consumption of the entire plant W_{Tot}

Basic values: Plant throughput m
Power input device i : $P_i \quad i = 1, \dots, n$

Coherence: $W_{Ges} = \sum P_i / m$

Application:

- ◆ The coherence can be formulated in any project / flowsheet.
- ◆ All values are available in the PMP views.
- ◆ Complex values will be displayed centrally in the project.

Formula Generator - setting up - calculating

Particular coherences can be formulated project wide and displayed automatically via formulas.

There will be formula collections for special cases:

- ◆ Dry grinding
- ◆ Suspension characteristics
- ◆ Plant evaluation
- ◆ Device dimensioning

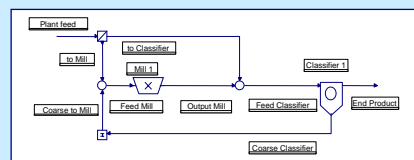
TabTrans complex data record

For an uniform and company-wide data record, form ports (e.g. MS Excel) will be available.

This port enables a common transfer of different information and the allocation in a PMP-Flowsheet:

- ◆ Material data
incl. particle size distributions
- ◆ Machine- and device data
- ◆ Operating data

Example: Simple grinding circuit



Transfer of:

- ◆ Dimensions of the fresh material
- ◆ Parameters of the mill
- ◆ Parameters of the classifier
- ◆ Target sizes of the product
- ◆ Particle size distributions:
Feed, Product, Coarse,...