

# PMP CLASS

## Characterising and Evaluating Classification Processes



### PMP CLASS

comprises different program modules to support the

#### Solution of Classification Problems

Tromp curves are applied for describing the classification. The program module PMP Class supports the characterisation and the evaluation of classification processes by means of the tromp curve. Thereby, experimental investigations and individual experiences can be involved directly.

### PMP CLASS

provides optimum support for

- ♦ balancing classification processes
- ♦ calculating tromp curves
- ♦ reducing data by function approaches
- ♦ calculating characteristic values
- ♦ comparing different classifier states
- ♦ evaluating experimental series
- ♦ applying useful transformation procedures
- ♦ deriving characteristic fields
- ♦ optimising classification processes

### PMP CLASS

Enables, combined with the module **PMP PARSIZE**,

- ♦ an user friendly complex data acquisition
- ♦ a problem-oriented administration of experimental investigations
- ♦ an expressive data visualisation
- ♦ a flexible data reduction

### PMP CLASS

supports the empirical modelling of classification processes at different levels. The parameters

- ♦ cut size  $x_T$
- ♦ bypass value  $T_0$

are essential characteristic values of the classification and will be determined from the tromp curve. By means of simple transformation algorithms the tromp curve can be standardised (see *Class 20 / 30*).

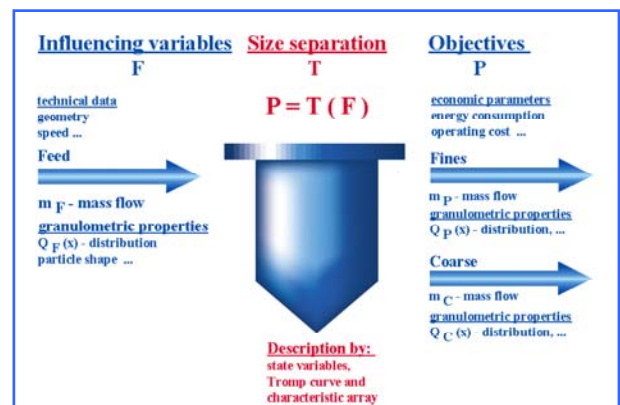
The empirical model is based on the approximate equality of the standardised tromp curves in different process states. The characteristic fields for the state variables  $x_T$  and  $T_0$  are the main components of the model. By means of these arrays, the dependence of the most important influencing variables will be reflected.

### PMP CLASS

Each program package contains methods for

- ♦ calculating models and descriptions
- ♦ verifying the validity of the models
- ♦ determining classification products for different process states

The classification processes can be evaluated, verified and optimised under specific application conditions by means of these methods. Those methods are kept generally so that a direct application to a wide range of classifier types is possible.



### PMP CLASS

comprises the following program packages:

- ♦ Class 10  
partition numbers, tromp curves and characteristics according to **DIN 66142**
- ♦ Class 20  
State variables: cut size  $x_T$   
bypass value  $T_0$   
characteristic curve: standardised tromp curve
- ♦ Class 30  
State variables: cut size  $x_T$   
bypass value  $T_0$   
characteristic field: power product approaches for the state variables  
characteristic curve: medium standardised tromp curve

The program packages *Class 10* and *Class 20* are available for evaluating individual process states, which can be characterised by an arbitrary number of influencing variables. The package *Class 30* requires *Class 20* and enables setting up and applying the empirical model for two dominant influencing variables.

More details completing this survey can be read in the corresponding product information leaflets.