



## Part 2: Modules of the Process Analysis

## Classification

Within the process analysis, the PMP-Software provides structures and methods supporting the model creation process and which can be easily adapted to different machines. Therefore, a concept has been chosen that allows to

- ❑ build up the models problem-related
- ❑ the check the quality easily
- ❑ improve the model quality stepwise.

The uniform frame structure of the PMP-Software enables to evaluate experimental data by different procedures and checking different model approaches without much effort. On the other hand, models can be evaluated by means of experimental data.

The concept of the system allows to include further proceedings into the software.

Module Package: CLASS	Classification
<p><b>Module: CLASS 10</b></p> <p>Description of operating states of a classification level via tromp curves</p> <p>Contains methods for</p> <ul style="list-style-type: none"><li>◆ setting up problem related data structures</li><li>◆ presetting and editing tromp curves manually or function supported</li><li>◆ balancing tromp curves from experimental data</li><li>◆ calculating characteristics</li><li>◆ adapting via PLITT - Functions</li><li>◆ visualising of tromp curves, characteristics and functions in various table- and graphic views</li><li>◆ pre-calculating classification results</li></ul>	<p><b>Module: CLASS 20</b></p> <p>Description of operating stated of a classification level via</p> <ul style="list-style-type: none"><li>◆ state characteristics:<ul style="list-style-type: none"><li>x T – cut size and</li><li>T 0 - bypass fraction</li></ul></li><li>◆ and standardised tromp curves (stand. to x T , reduced about T 0)</li></ul> <p>Contains methods of CLASS 10 related to this description form and additional methods for</p> <ul style="list-style-type: none"><li>◆ transforming the description CLASS 10 into CLASS 20 and reverse.</li></ul>
<p><b>Module: CLASS 30</b></p> <p>The modelling of the classification processes is based on description CLASS 20 and is effected via:</p> <ul style="list-style-type: none"><li>◆ characteristic fields, where state characteristics x T and T 0 are described in dependence of process determining influencing values. Influencing values dominant for the task can be chosen for the respective classifier.</li><li>◆ A medium standardised tromp curve that is presentable in the validity area.</li></ul> <p>Contains the methods of CLASS 10, related on this description form and additional methods for</p> <ul style="list-style-type: none"><li>◆ setting up machine-specific data structures</li><li>◆ calculating characteristic fields and the medium standardised tromp curve</li><li>◆ visualising operating states and characteristic fields</li><li>◆ adjusting operating conditions and pre-calculating classification results</li><li>◆ calculating the tromp curve in an operating point</li></ul>	