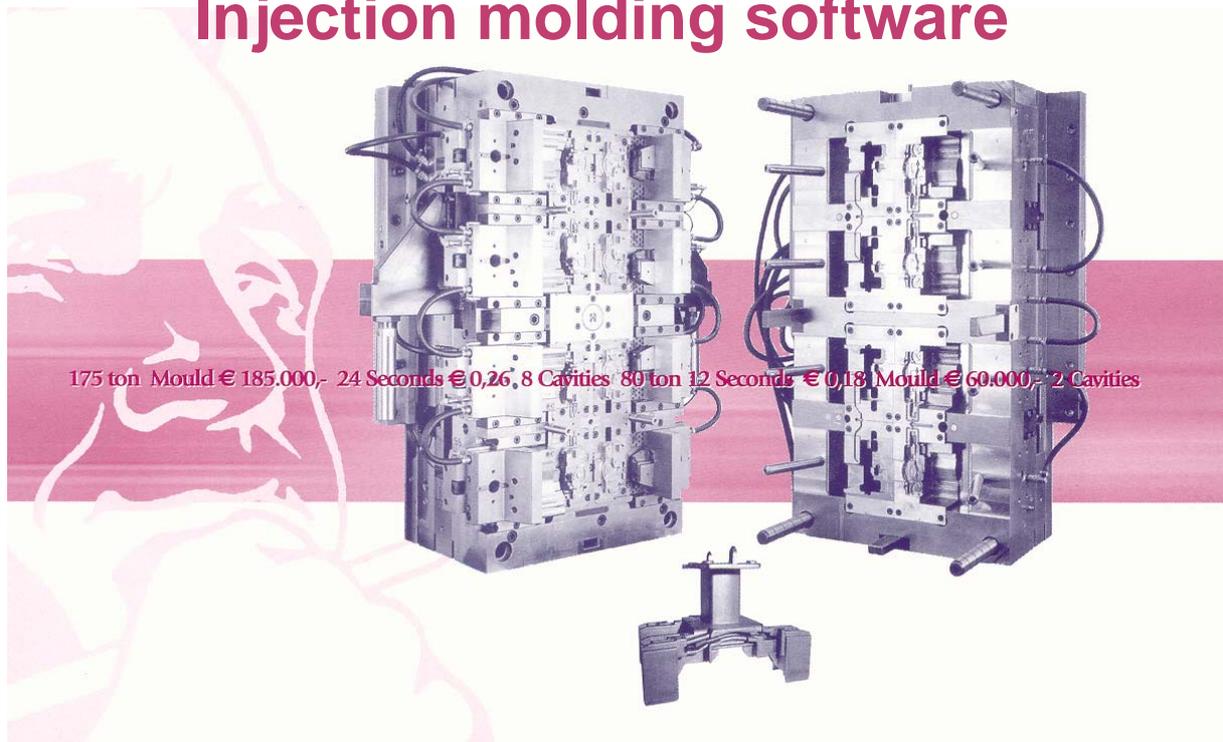


CalcMaster®

Injection molding software



175 ton Mould € 185.000,- 24 Seconds € 0,26, 8 Cavities 80 ton 12 Seconds € 0,18 Mould € 60.000,- 2 Cavities

**Injection molding software for optimization
and calculation of injection molded products**
Made Project- Mold- and Productcalculation very easy

Is the most comprehensive injection molding software for:

**The Standard CalcMaster software
calculates for you very fast the:**

- C **Moldprices**
- C **Injection molding data**
- C **Most economical quantity of cavities**
- C **Complete costprice of the product**
- C **Asking a quotation for a moldprice**
- C **Making a quotation for a moldprice**
also added on this CD-ROM
- C **3D Product Viewer Software**

**The Optional CalcMaster part for the
mold and injection molding software
calculates for you very fast:**

- C **2 Components in 2 cavities**
- C **2 Components in 1 cavity**
- C **Left and Right product**
- C **Stack molds**
- C **Softtools molds**
- C **1+1 Product in the mold**

CalcMaster is an **interactive** program which makes a clear and direct connection between the **Productdesign, Moldcosts, Injection molding data** and the **complete Costprice** of the product

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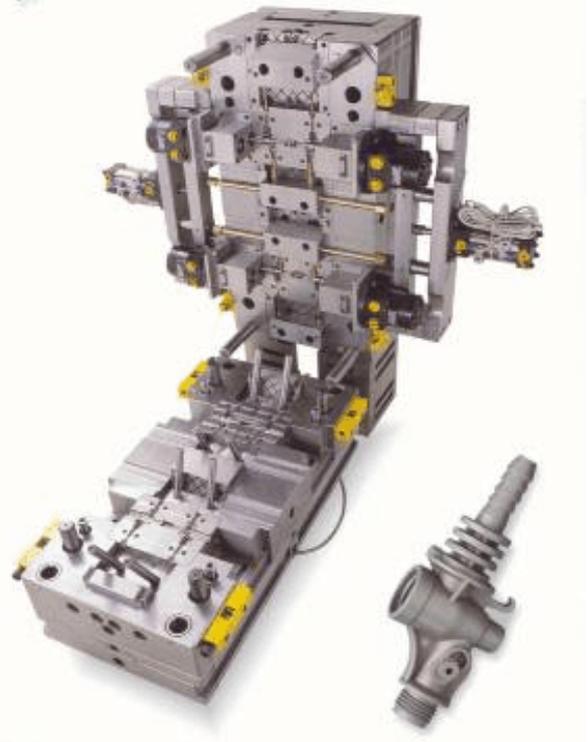
CalcMaster® Injection molding software for the plastic industry

Software, Consulting and Training for the Mold- and Molding industry

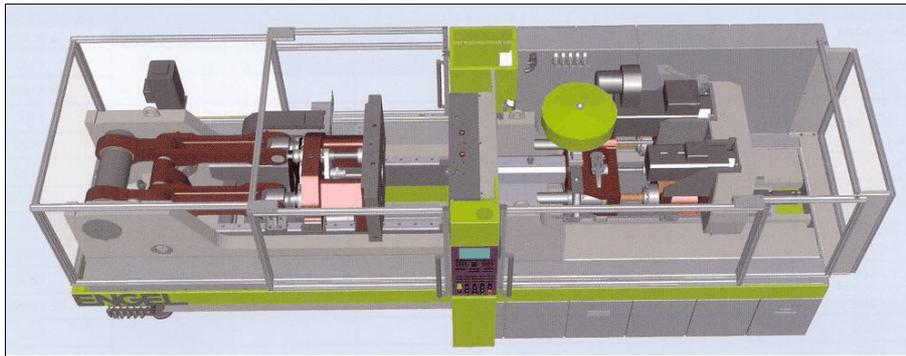
Mould costprice

For working out the costprice of the mould we use a counting system. Herewith we always make the choice for the relevant point for a criterion such as for example product geometry, tolerances, surface ratio, the type of gating and ejection system, mechanisms, cooling, slides, etc. The points for the manufacturing of the cavities and the mould base are added and the program calculates the total number of manufacturing-hours, construction-hours and the remaining costs for material and hardening, hotrunner, standard mould base parts etc. and afterwards the total mouldprice. By changing the number of cavities, the program calculates very quickly the new mouldprice.

This mouldprice can eventually, with the help of the calculated values, be corrected step by step. The cost analysis of the hours and cost shares can be viewed graphically.



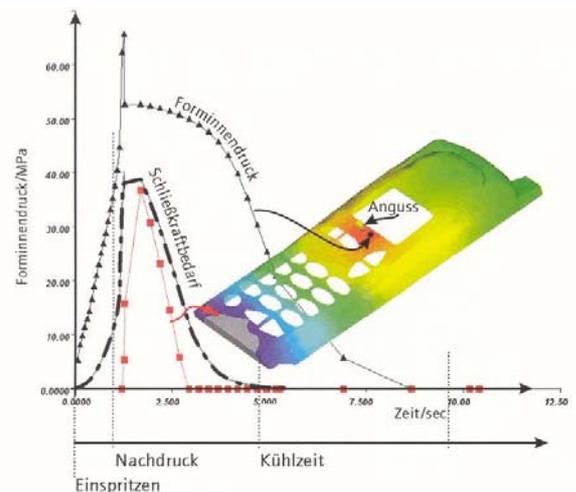
CalcMaster® Injection molding software



Injection pressure, Clamping force and Cycle time

In this menu we can, with the help of the injection-moulding simulation, calculate all the injection moulding data. With the use of the product and plastics data all the values are calculated, in which the rheological data from the database is used. When entering the processing temperatures, the values which are recommended by the plastics supplier are automatically taken from the database.

The injection pressure and the clamping force are calculated at different injection times from the flowlength / wall thickness ratio. The injection times are chosen by the CalcMaster program and dependent of the wall thickness. After the calculation of the cooling time, the cycle time is calculated and displayed in detail and can be used for further correction and evaluation. For products with thick walls, for which in most cases the inner core of the products does not have to be cooled down until the demoulding temperature, you can select an optimal cooling time from the graph of the temperature curve against the total wall thickness for 5 cooling times. With the use of the graph for the temperature curve you can make a correct estimation.



Supplementary functions

- C Substantial, expandable plastics-database with standard groups and trademark types.
- C Machine hour rates for injection moulding machines or machine groups, visible in a help window.
- C A selection for several languages (Dutch, German, English, French, Portuguese, Spanish, Italian, Finnish, Swedish, Turkish).
- C A selection from several currencies with automatic conversion. Standard currency is €.
- C Possibility for on-line help-screens for all the important input.
- C Many graphic screens, such as: temperature curves against the product wall thickness, injection pressure against injection time, cycle time, economical number of cavities, product price, manufacturing hours and mould costs.

Hardware Configuration

- C Hard-Lock connector installation on the parallel port (optional on the USB port).
- C Working under Windows 95 / 98 / NT / ME / 2000 / XP.
- C Delivery as a Standalone and as a Network version.

Succesfull mould calculations en injection moulding simulation made very easy.

Especially for the plastic moulding industry, we have developed the software package CalcMaster. During the **product design stage** the **quotation-stage** and later in the **manufacturing** of an injection moulding product working with CalcMaster will **save you a lot of time** and produces the right information for you.

Mould calculation

For working out **the costprice of the mould** we use **a counting system**. Herewith we always make the choice for the relevant point for a criterion such as for example, product geometry, tolerances, surface ratio, the type of gating and ejection system, mechanisme, cooling and the mould base are added and the program calculates the total numbers of manufacturing-hours, construction-hours and the remaining cost for material and hardening, hotrunner, standard mould base parts etc. and afterwards **the total mouldprice**.

Injection moulding simulation

Because the CalcMaster software can **simulate the injection moulding process**, there is a direct connection between the **wall thickness of the product**, the **cooling time**, the **cycle time**, the **flowlength / wall thickness ratio**, the **required injection pressure** and the **clamping force of the injection moulding machine**.

Product cost price

CalcMaster is an **interactive** program, in which a direct connection is made between the **Product design, Mould costs, Injection moulding data, Economical number of cavities** and the detailed **Product costprice** for an injection moulding product. With the use of a counting system, you can simply and quickly determine the mouldprice, and can make a simulation of the injection moulding process, after which the economical number of cavities can be calculated and at last the total product price can be found.

CalcMaster is especially developed for the injection moulding industry.

Also for your business.

CalcMaster is momentary used worldwide at many locations. It's used by **Product development, Injection moulders, Mouldmakers, Machine suppliers** and **Materials suppliers, Trainings institutes** and **Universities** at home and abroad.

When designing a new plastic injection moulding product we always come to a standard pattern of decisions that have to be made in order to get an optimal final result. **Product design, Mould construction, Injection moulding results** and the **Product price** are unquestionable connected with each other, while the largest part from the total costs are fixed during the product design. On the basis of this fact it is important to calculate already in this early stage the future production-circumstances and costs to get an optimal product concept to produce at the lowest costs. With the help of CalcMaster all alternatives can be calculated in a very short time.

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