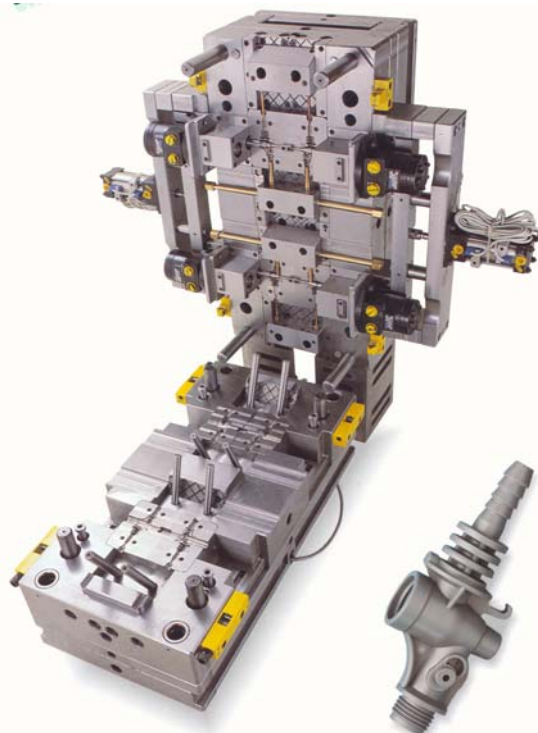


# CalcMaster® Injection molding software



Mold price calculation  
Detailed moldhours



Injection molding data  
Cost price product

Injection molding software for optimization and calculation  
of injection molded products

**Makes the Project, Mold and Product calculation very easy**

Is the most comprehensive injection molding software for:

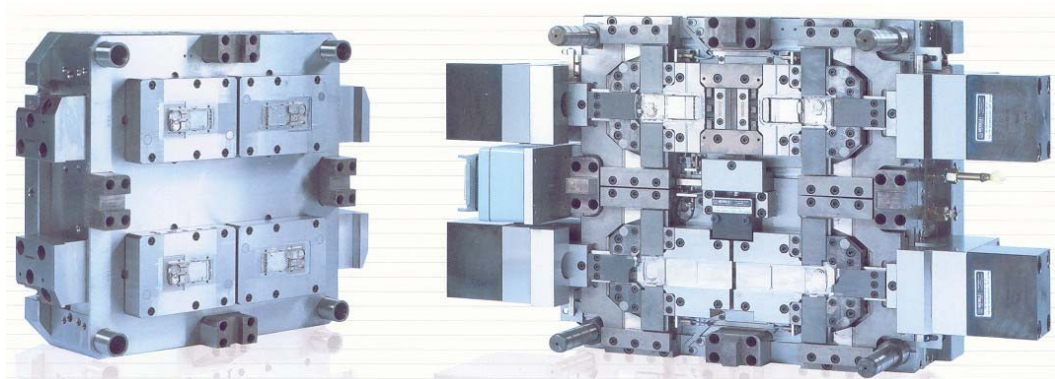
**The Standard CalcMaster software calculates for you very fast the:**

- Mold prices + detailed moldhours
- Injection molding data
- Most economical quantity of cavities
- Complete costprice of the product
- Asking a quotation for a moldprice
- Making a quotation for a moldprice also added on this CD-ROM
- 3D Product Viewer Software

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

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

**CalcMaster makes the mold calculation very easy**



# CalcMaster®

## Injection molding software

### Mold calculation is made very easy

#### Mold prices + detailed moldhours

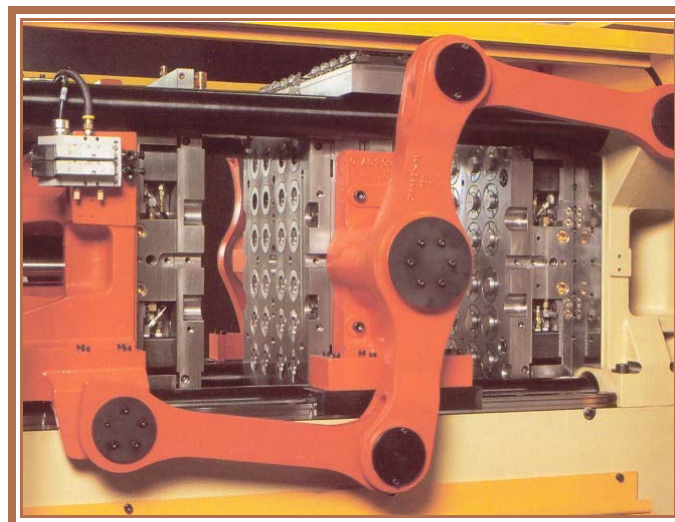
Calculation of the **total Mold costs** with the score system.  
 Calculation of the **total corrected / adjusted** mold costprice  
 Calculation of the **detailed mold drawing hours**  
 Calculation of the complete **detailed mold hours**  
 Export all the mold data to the **Automotive** Exel sheet.

#### I Know Molding 3D software.

After the input of a **STL** cad file we show you on your screen:  
 The **product in 3D**.  
 Both **mold plates in 3D**, including the partingline of the mold.  
 After the export to the CalcMaster software we calculate **automatically**  
 the **complete moldprice**.

#### Including:

- Manufacturing hours of the cavities.
- Manufacturing hours of the mold base.
- Manufacturing hours for set up / sampling.
- Numbers of hours for making the programming.
- Numbers of hours for making the workpreparation.
- Total number of toolmaker hours.
- Number of mold design and drawing hours.
- Costs of material and hardening.
- Costs of mold base.
- Costs of standard parts.
- Total costs for hotrunner.
- Costs for injection trials, follow-up, price at mould acceptance, provisions for profit margins.



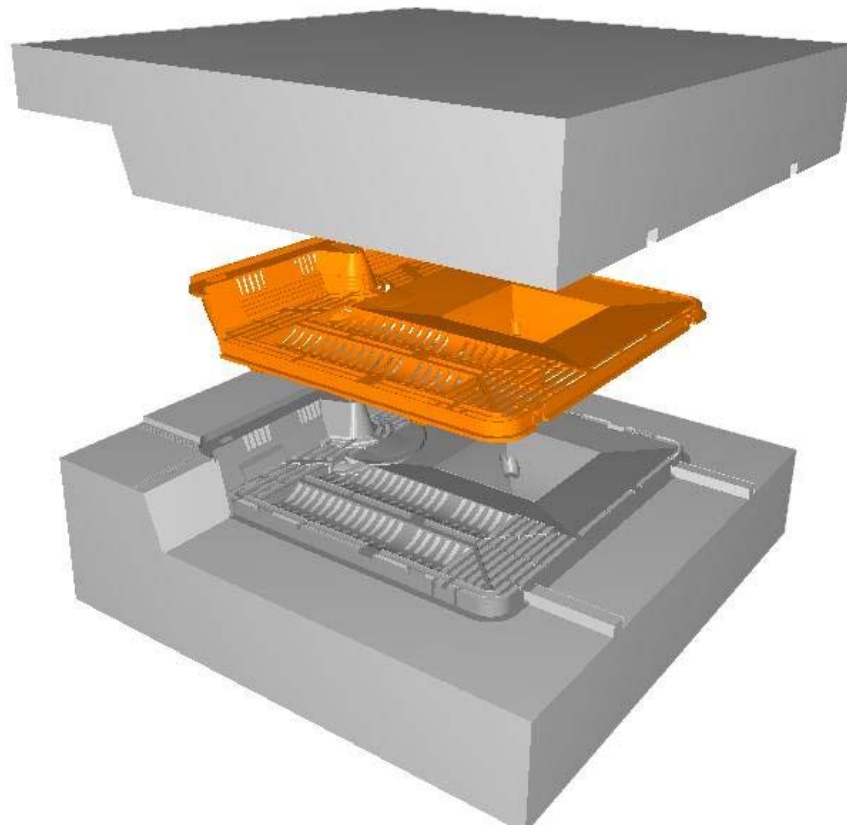
# CalcMaster® Injection molding software.

+

I-Know Moulding 3D Software.



Use the IKM software for the automatic mould calculation in the **CalcMaster software**



There is a direct connection between the **Product** cad STL file, **3D Product** view, **3D Mould plates** view and the **automatically total mould calculation**

CalcMaster for Windows 6.0

Project Menu's Tools Help

Pre-calculation Post-calculation

	Proposal	Hours	Hrs.rate	Amount		Proposal	Hours	Hrs.rate	Amount	
1					Touching	8	8	45	368	
1.a	Convert to 3D-data	31	31	45	1.375	Assembly	16	16	45	731
	Generate 2D-drawings	31	31	45	1.375	Trial-moulding	8	8	45	368
2	Concept design	41	41	45	1.833		33	33	45	1.463
	Detail drawings	71	71	45	3.208	Turning mechanisme	0	0	45	0
	finishing drawings	20	20	45	917		0	0	45	0
3		193	193		8.707	Corrected hours (Menu 1)		1101		
4	CNC-programming	152	152	30	4.562	Material and hardening	3699		3.699	
		152	152		4.562	Mouldbase	3403		3.403	
5	Workpreparation	88	88	30	2.649	Standard parts	545		545	
		88	88		2.649	Hotrunner	0		0	
6						Extra percentages	3215		3.215	
Sp	CNC milling	62	28	90	4.045	Mouldcosts (Menu 1)			56.801	
	HSC milling	62	9	71	3.208	Optimizing	35	35	45	1.588
	Conventional milling	33	19	52	2.325	Measurement reports	35	35	45	1.588
	Turning / cylindrical grinding	21	15	36	1.600	Cpk-studies	0	0	45	0
	Grinding	33	19	52	2.325	Mould-flow analysis	0	0	45	0
	Wire-EDM	41	9	51	2.277			71	3.177	
	EDM	41	9	51	2.277	Corrected hours		1172		
	Jig-grinding	33	19	52	2.325	Total mouldcosts			59.978	
	Polishing	41	0	41	1.858					
M	General toolmaker	103	37	140	6.322					
		471	164	635	28.558					
			635							

Moldtype-Undefined Shape

Copy proposed hours

Copy standard hourly rates

Toolmaker 1

sampel 6 PE-LD: Lupolen 2420 H Schouenberg & Partners EUR

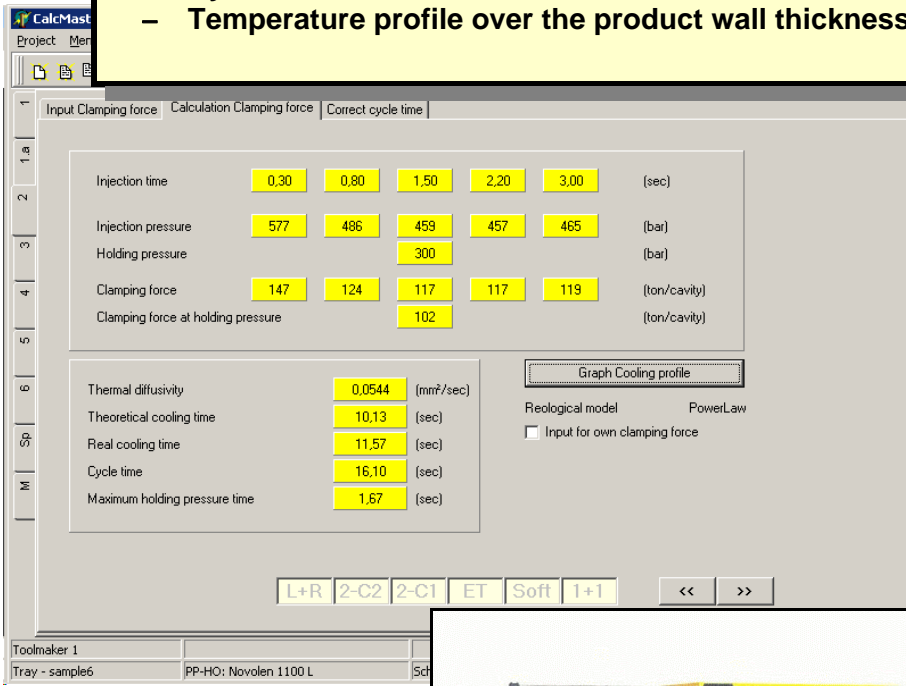
# CalcMaster®

## Injection molding data

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**

**Calculation of the Injection molding data**  
 Injection time, Injection pressure, Clamping force requirement.  
 Theoretical cooling time, Actual cooling time, Cycle time, Max.holding time  
 Total detailed cycle time.  
 Temperature profile over the product wall thickness during the cooling process.  
 and many graphic screens of:

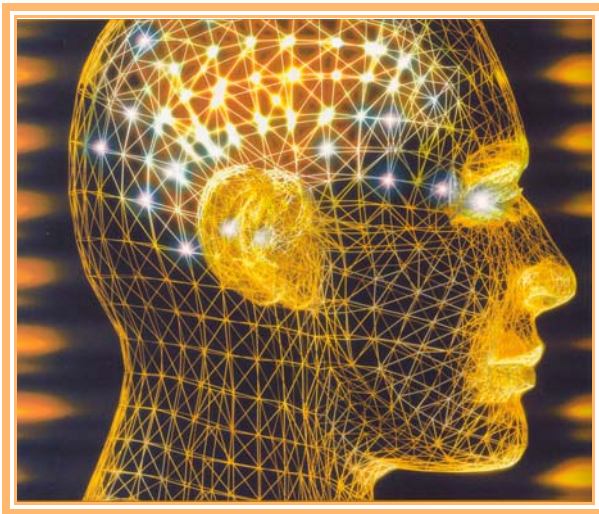
- Injection pressure / injection time
- Cycle time
- Temperature profile over the product wall thickness during the cooling process



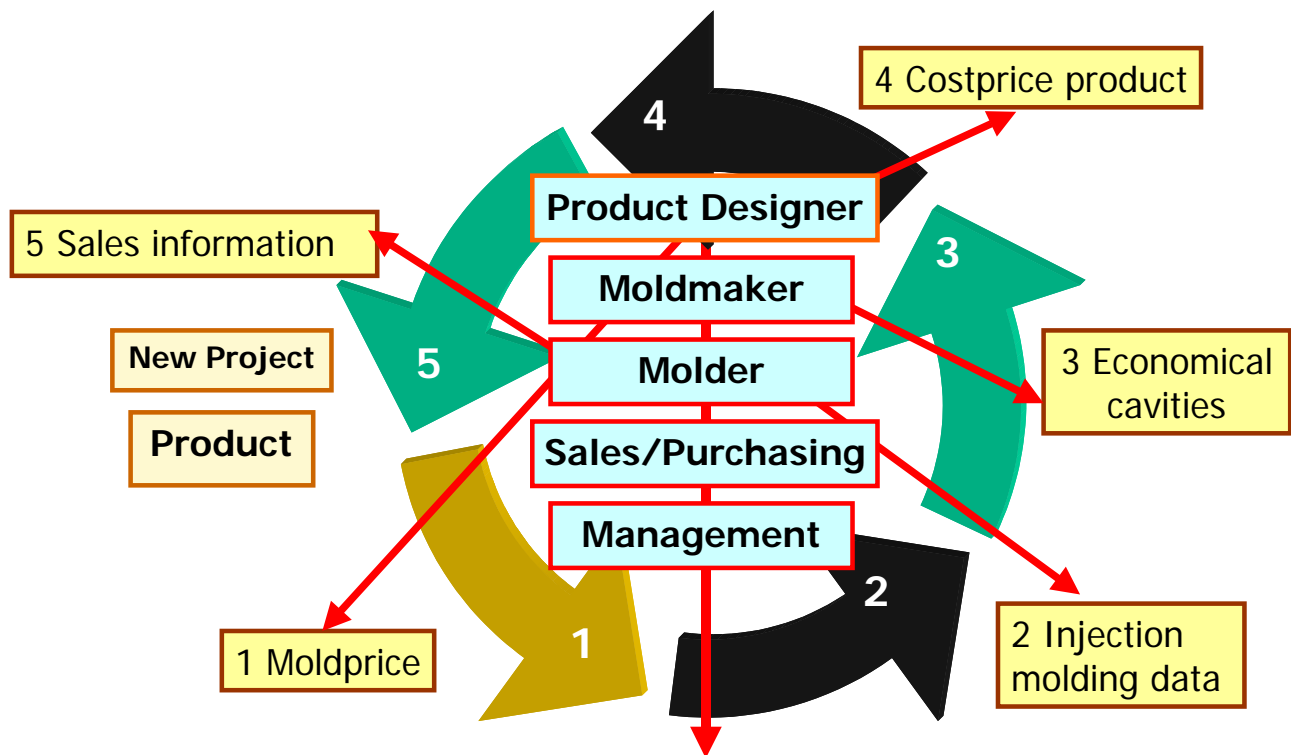
# CalcMaster®

Injection molding software

Makes the Project, Mold and Product calculation very easy



**Save you a lot of time**  
with the calculation of an injection molding product



With CalcMaster as a very reliable sound board on table

# CalcMaster®

Injection molding Software.

## Our Philosophy is:

That you can intervene **direct** in the CalcMaster mold calculation by saving in the background **once-only** the many extra settings with your own **experience**.

## Working with the CalcMaster Software means:

That you can use directly your own **experience** into the complete CalcMaster mold calculation

Not every company works on the same level.

# CalcMaster®

Software for optimisation and modelling around an injection molded product.

With the CalcMaster software we start as a **STARTING POINT** with the:

**PRODUCT DESIGN.**

after that we take into consideration the complete:

**CONCEPT**

from out these two we starting with the complete:

**COST MODELLING**

**of the total product**

and then we can determine the:

**Mold prices + detailed mold hours.**

**Standard + Detailed hours for programming and workpreparation**

**Injection molding data.**

**Most economical quantity of cavities.**

**Complete costprice of the product.**

**CalcMaster®** is the most **comprehensive** injection molding software

The **Standard** Calcmaster calculates for you very fast:

- 1- Moldprices, Standard + Detailed hours for programming and workpreparation
- 1a- Detailed Moldhours
- 2- Injection molding data ( injection molding simulation )
- 3- Most economical quantity of cavities
- 4- Complete costprice of the product
- 5- Asking quotation for a moldprice
- 6- Making a complete quotation from the moldprice

Simultaneous add on the CD-ROM:

- 1- I-Know Molding 3D software (60 days testversion)
- 2- 3D Product Viewer
- 3- Autodesk Voloviewer from Autocad
- 4- Hasco Catalog
- 5- Cumsa Demo (parts injection molds)

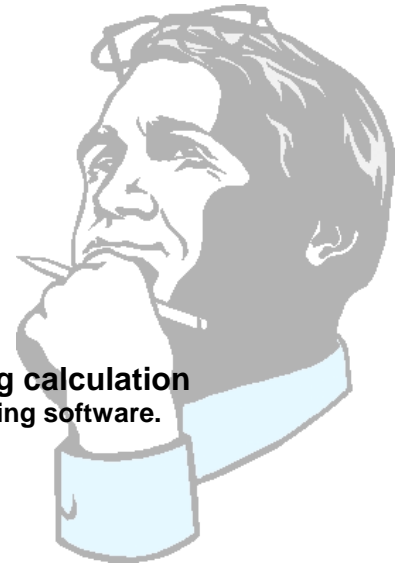
**Optional CalcMaster** part for the Mold and Injection molding calculation

Only to use in combination with the normal CalcMaster Injection molding software.

This **Optional** part for the Mold and Injection molding software includes:

- 1- 2 Components in 2 cavities.
- 2- 2 Components in 1 cavity.
- 3- Left and Right product.
- 4- Stack molds
- 5- Softtools molds
- 6- 1+1 product in the mold.
- 7- Combinations of mold constructions are possible (not every combinations is possible)

The **Professional** version is the **Standard** + the **Optional** CalcMaster part



**CalcMaster** makes the Project, Mold and Product calculation very easy

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**CalcMaster®** Injection molding software for the plastic industry

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