Software organimold

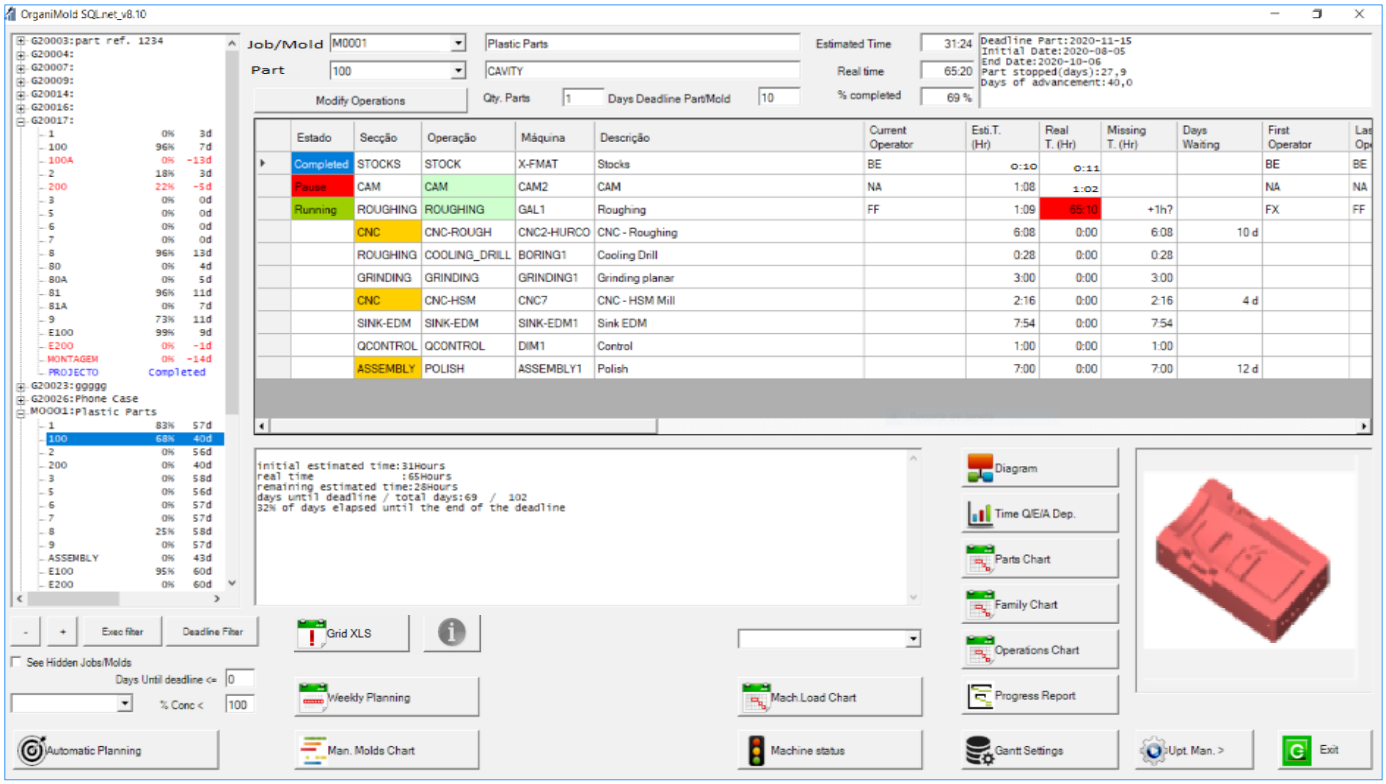
Production Management of Jobs/Molds

Automatic/Dynamic Planning

GrandeSoft | Advanced Software Solutions | www.grandesoft.pt

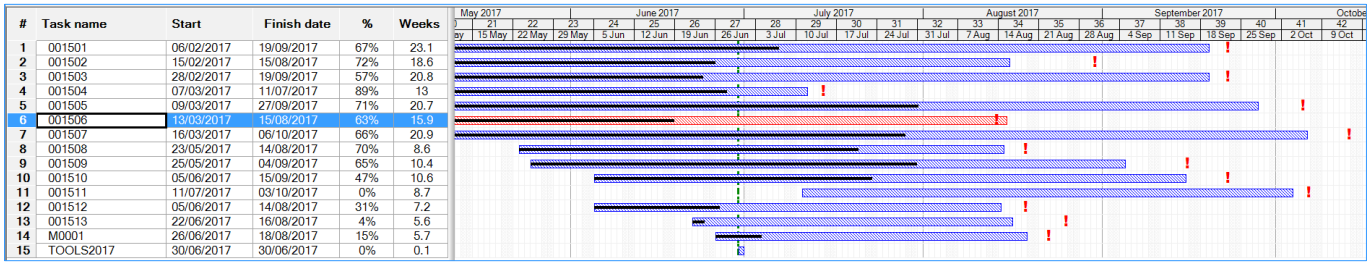
The Software organimold is an integrated Jobs/Molds Production Management System (Integration of processes, systems and software of industry 4.0)

General Planning



Visualize progress

For each Mold as well as for each specific part, progress, deadlines, estimated and real starting and conclusion dates can be displayed graphically for a more quick and easy evaluation.



General Planning

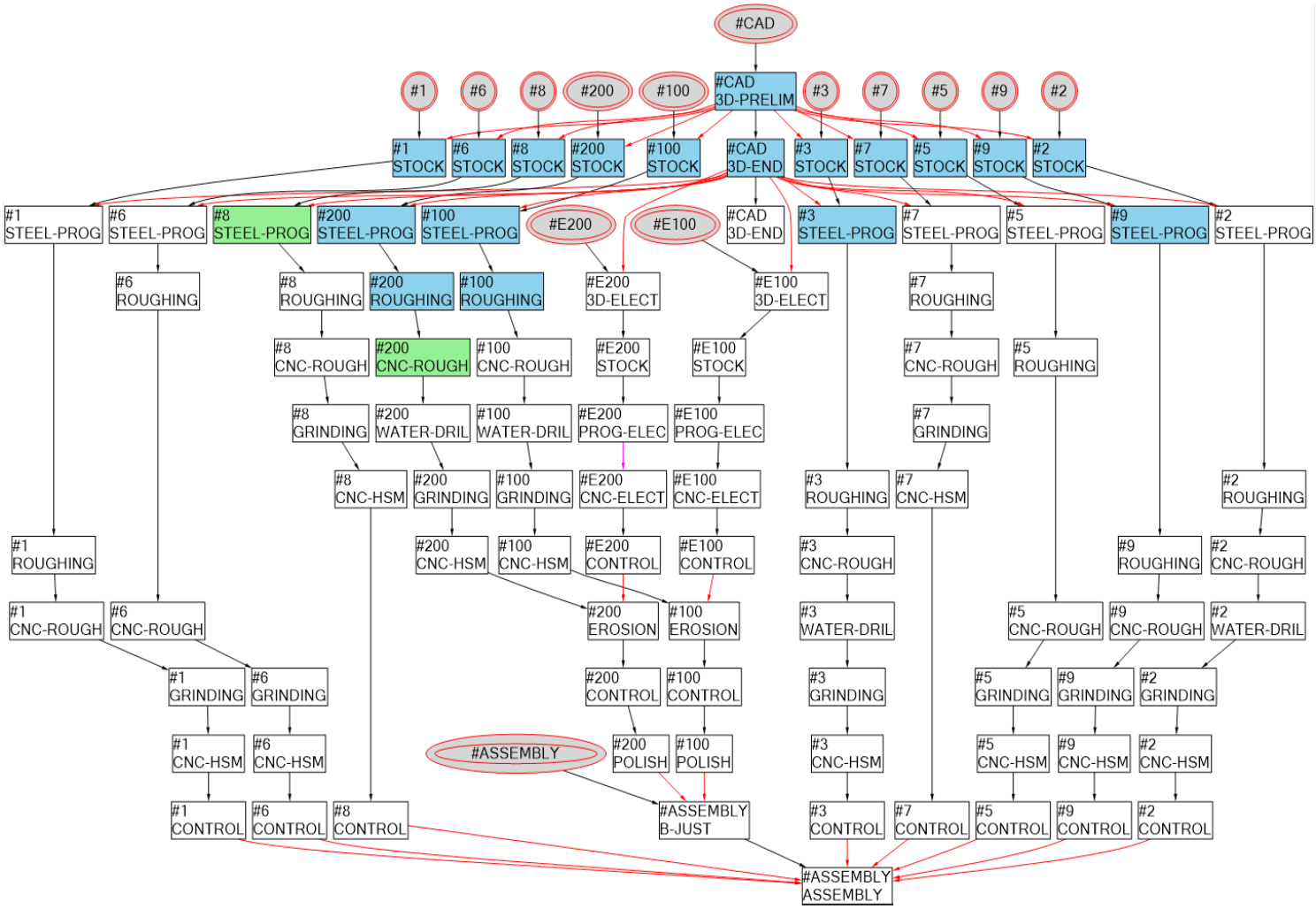
Stay on schedule

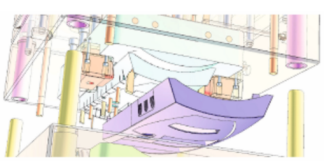
The software OrganiMold calculates automatically the priority of Jobs/Molds in order to stay on schedule, but allows the manual override of priorities.

When staying on schedule is just not possible, the software can identify which parts and operations are causing the most delay and deliver solutions by simulating sub-contracts or overtime.

From start to finish

Visualize every single operation and part with complete diagrams



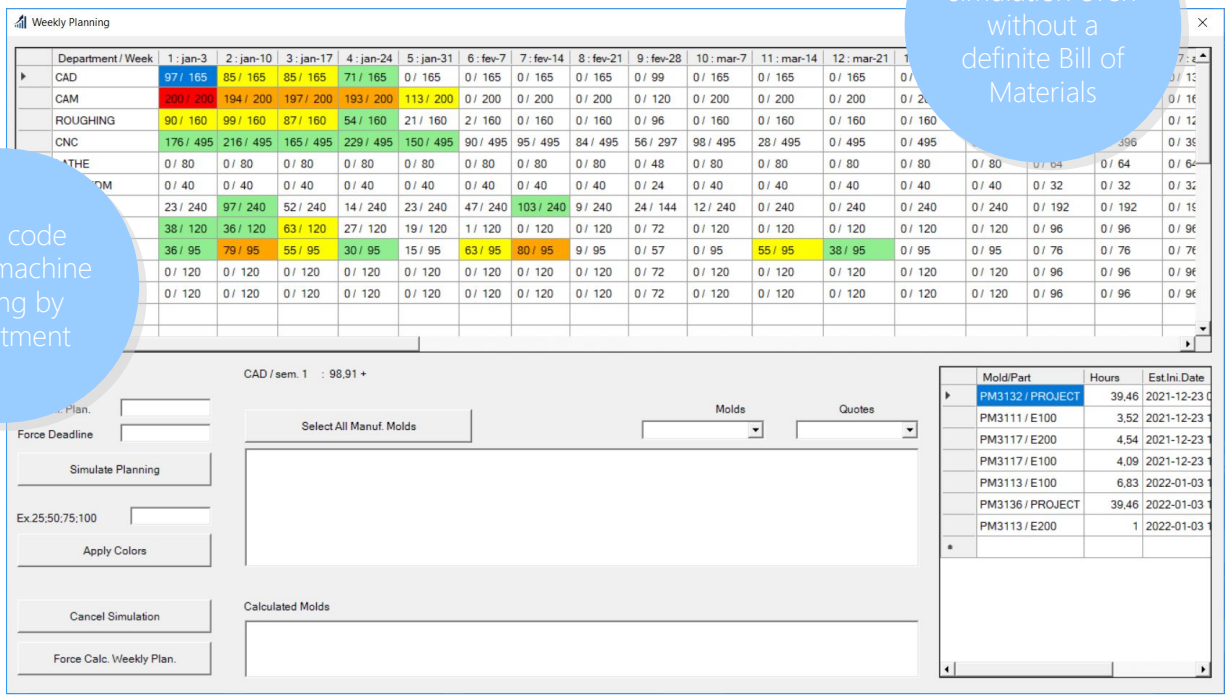


General Planning

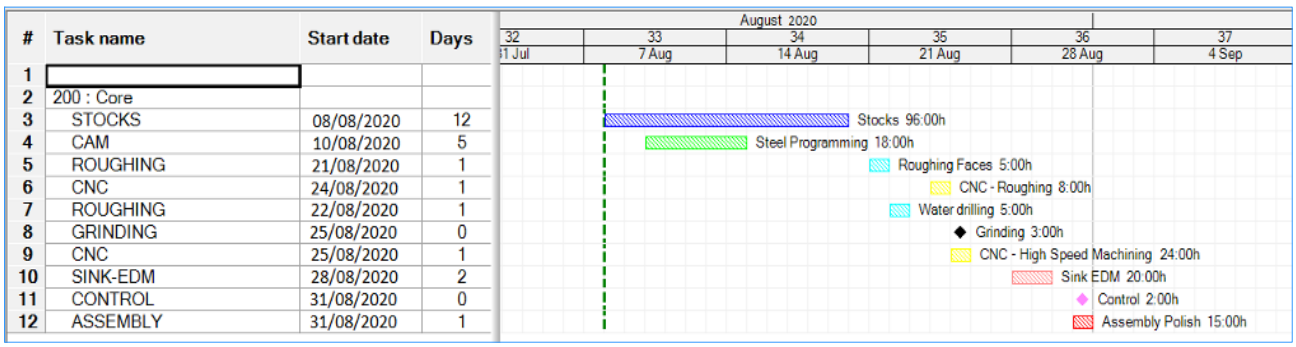
Weekly planning

Quote simulation even without a definite Bill of Materials

Color code shows machine loading by department

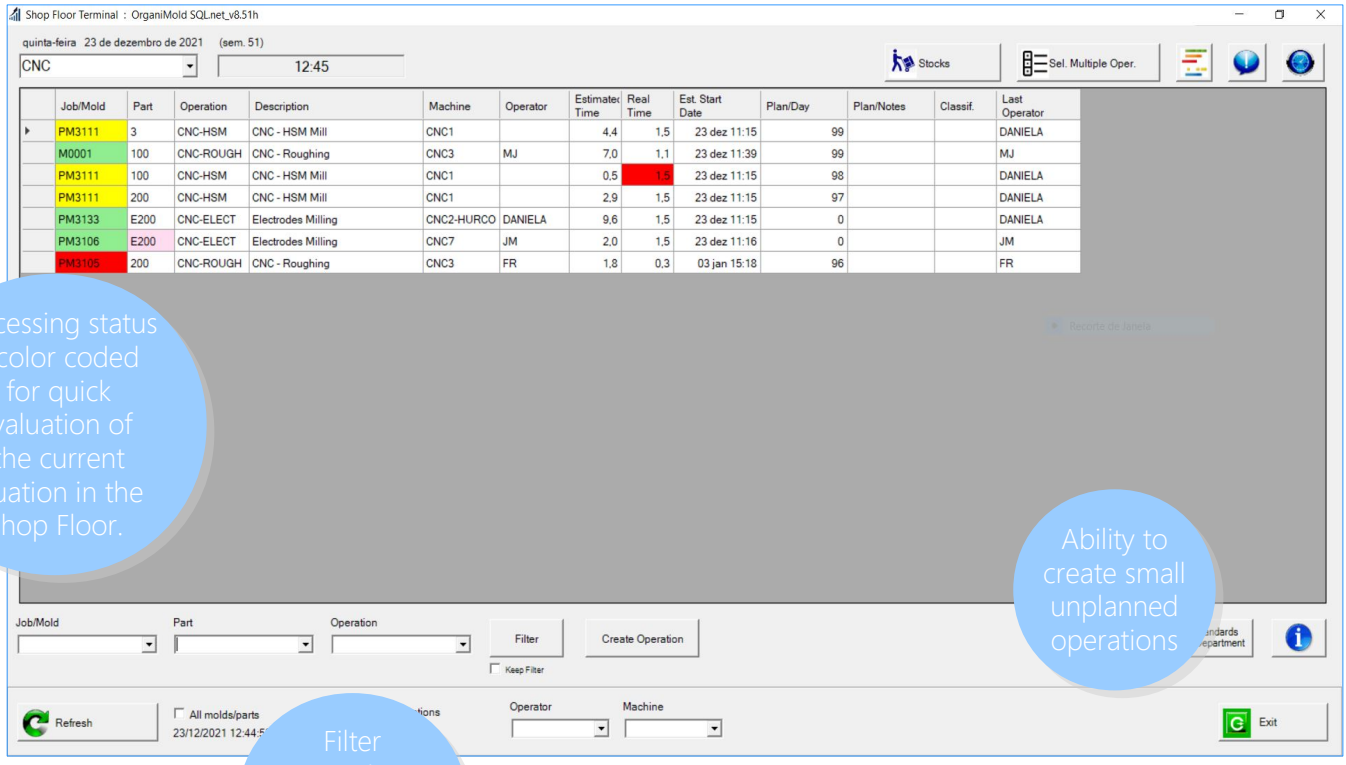


Part operations



#	Task name	Start date	Days
1			
2	200 : Core		
3	STOCKS	08/08/2020	12
4	CAM	10/08/2020	5
5	ROUGHING	21/08/2020	1
6	CNC	24/08/2020	1
7	ROUGHING	22/08/2020	1
8	GRINDING	25/08/2020	0
9	CNC	25/08/2020	1
10	SINK-EDM	28/08/2020	2
11	CONTROL	31/08/2020	0
12	ASSEMBLY	31/08/2020	1

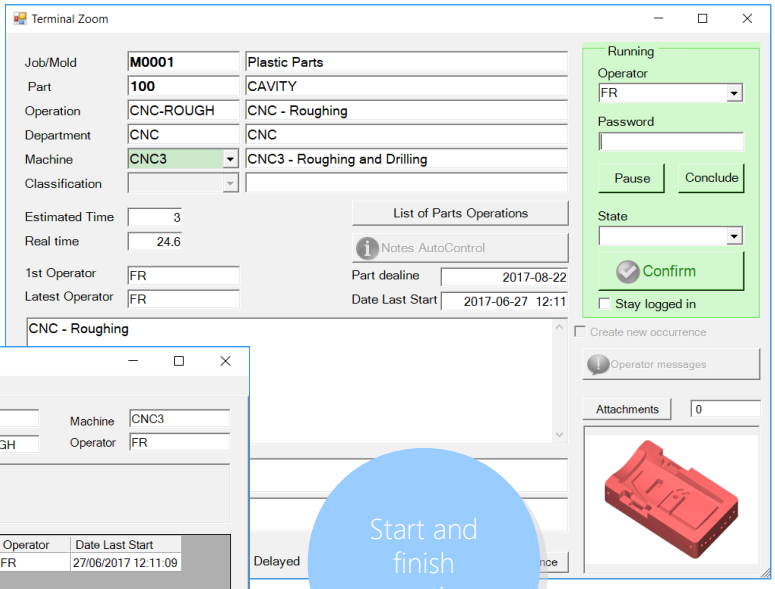
Shop Floor Terminal

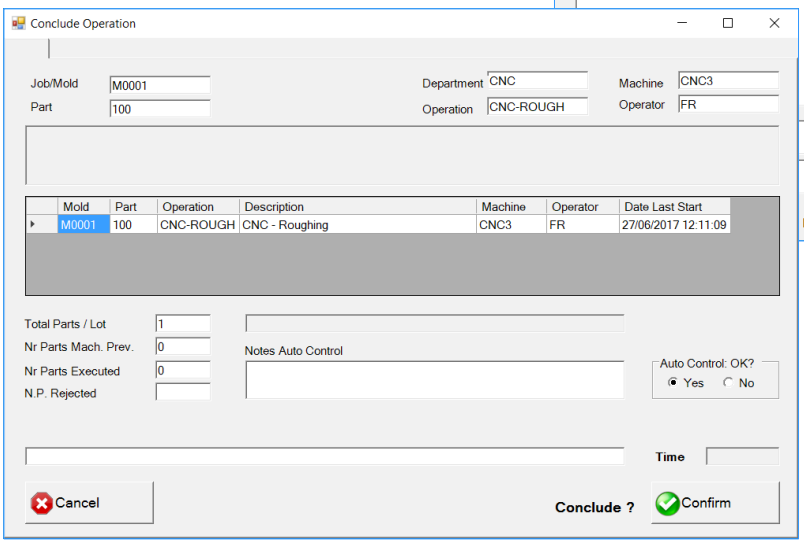


Processing status is color coded for quick evaluation of the current situation in the Shop Floor.

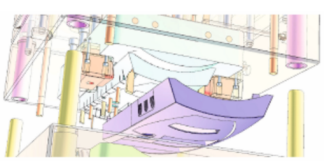
Ability to create small unplanned operations

Filter operations by Job/Mold, part or operator





Start and finish operations

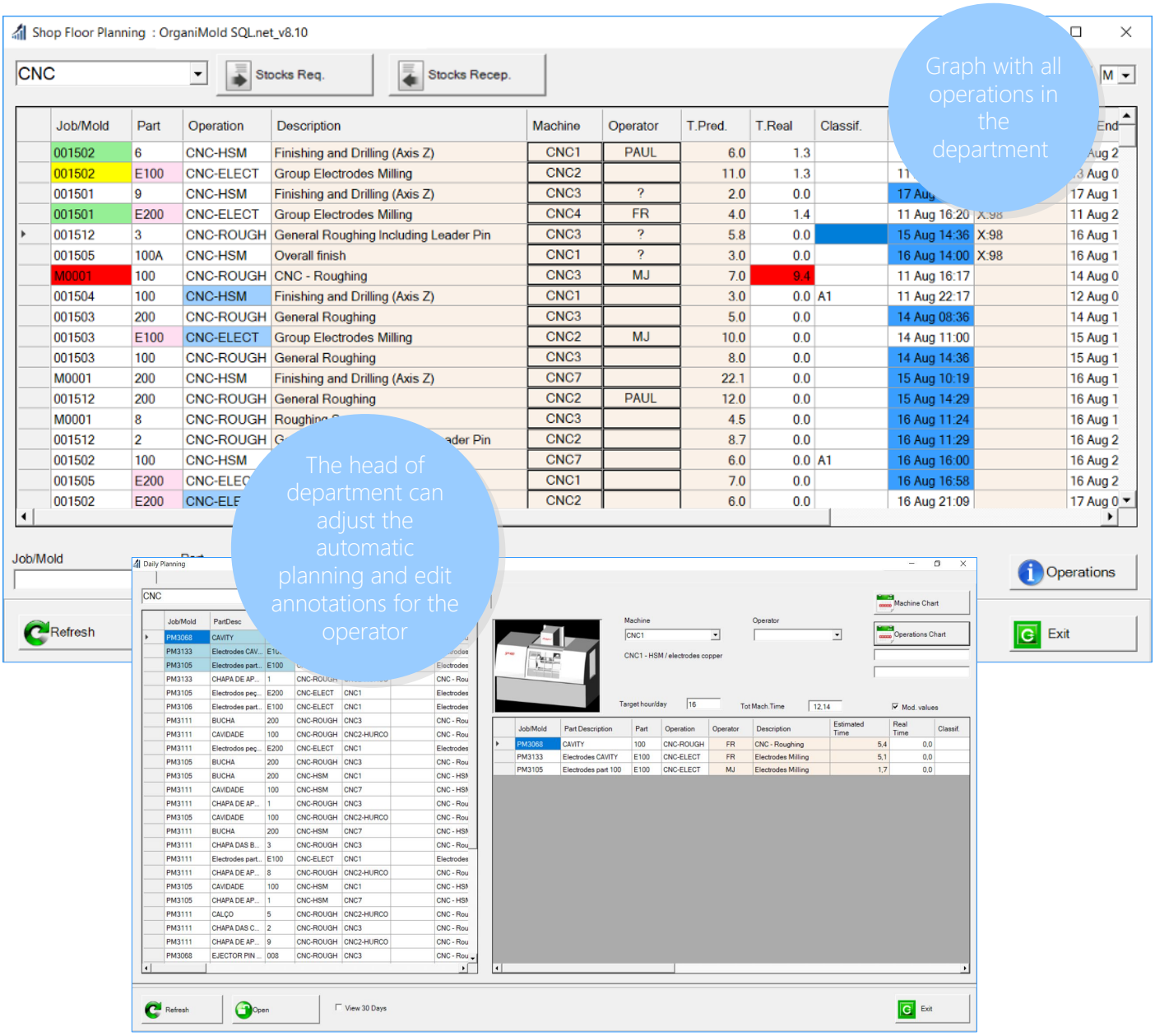


Shop Floor Planning

Control priorities

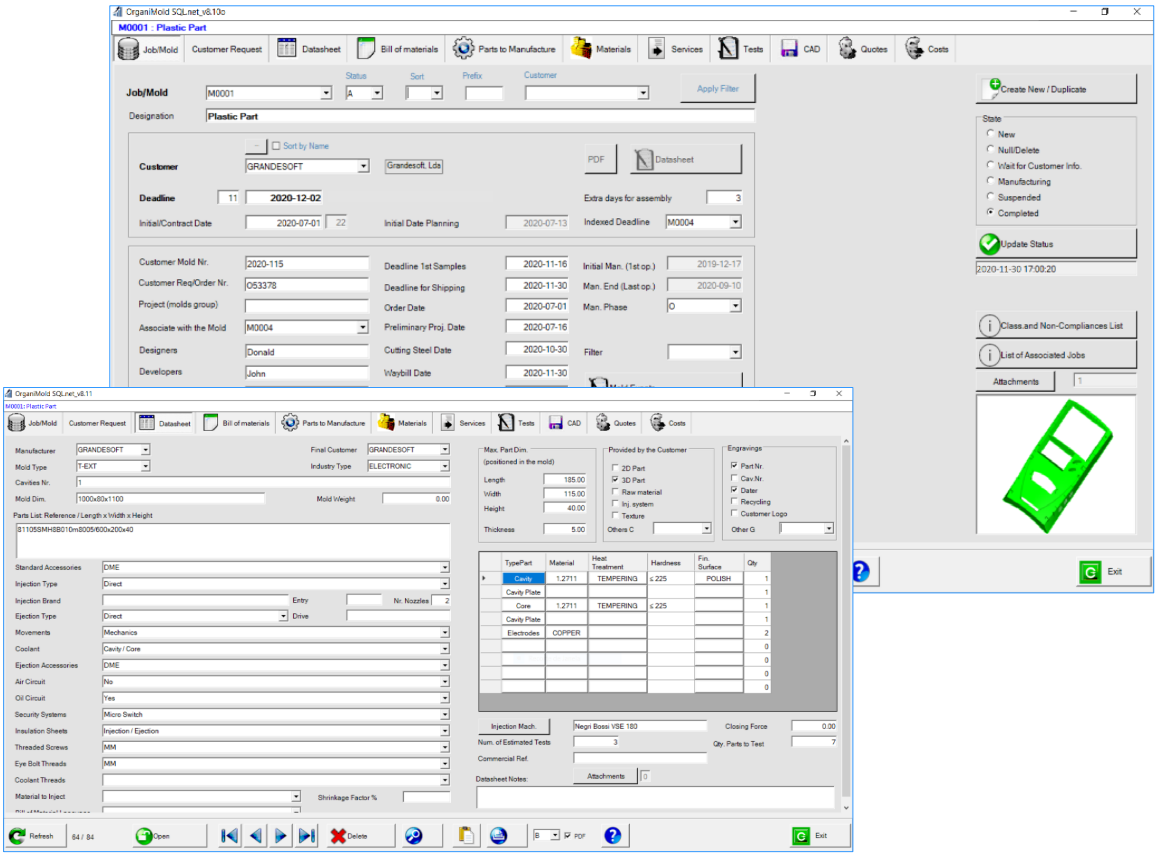
The Shop Floor Planning allows the Head of Department to define the priorities for the day, send processing orders and correct expected times of conclusion.

The planning will be re-calculated according to those changes.

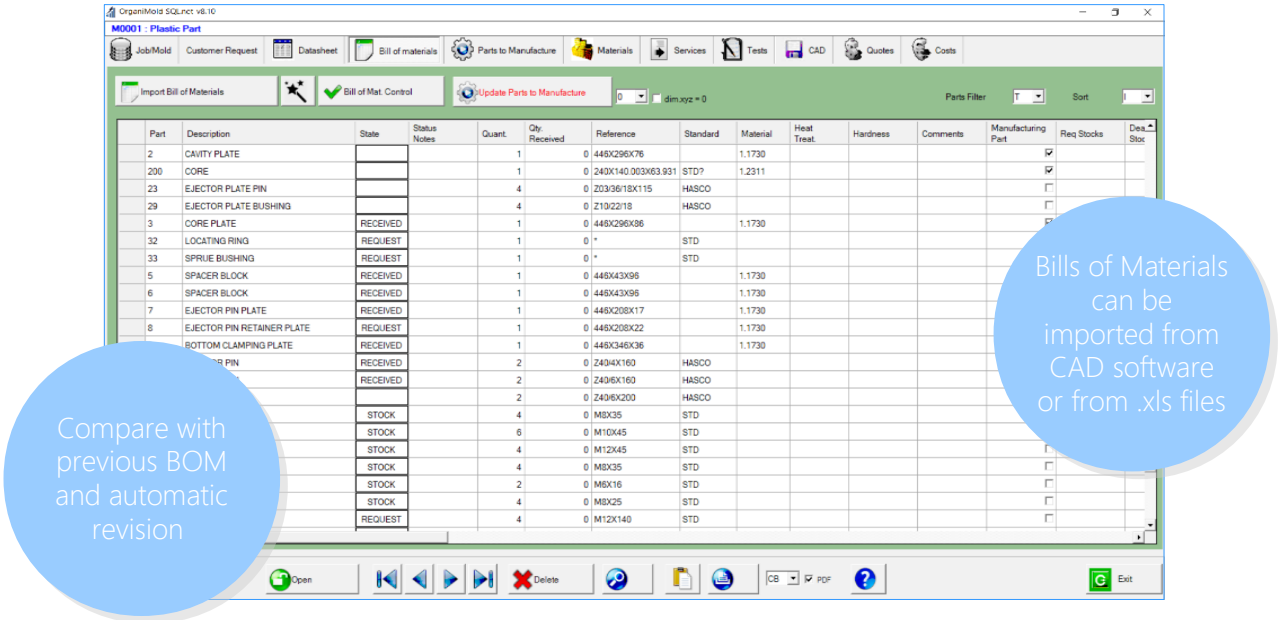


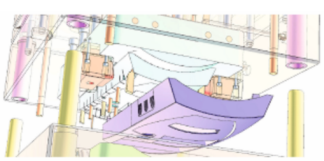
Jobs/Molds

Create New Job/Mold



Bill of Materials

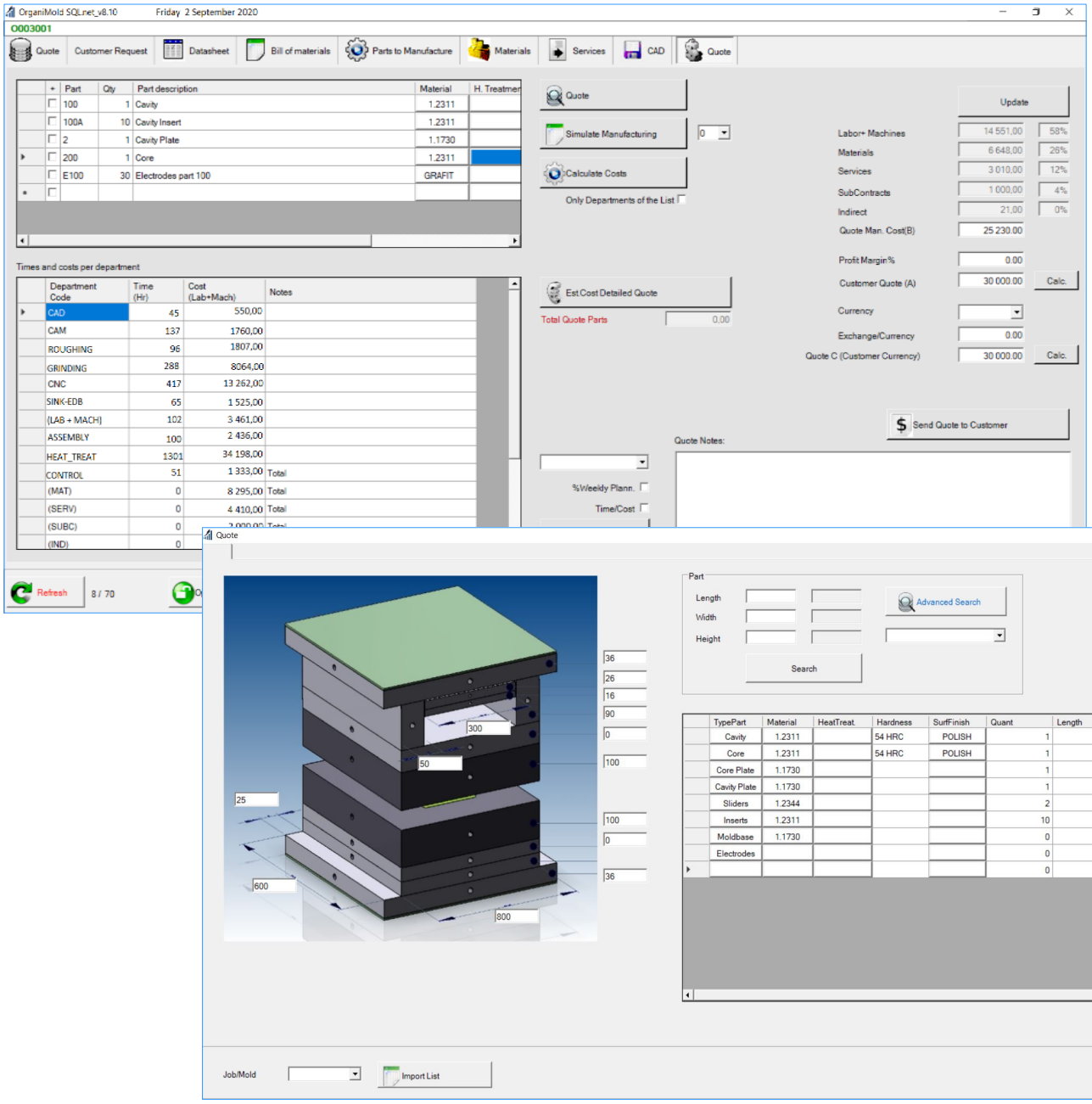




Quotes

The budget is calculated using a virtual list of materials as source. The manufacturing simulation calculates the costs of workforce, machine operation and the cost of the materials used.

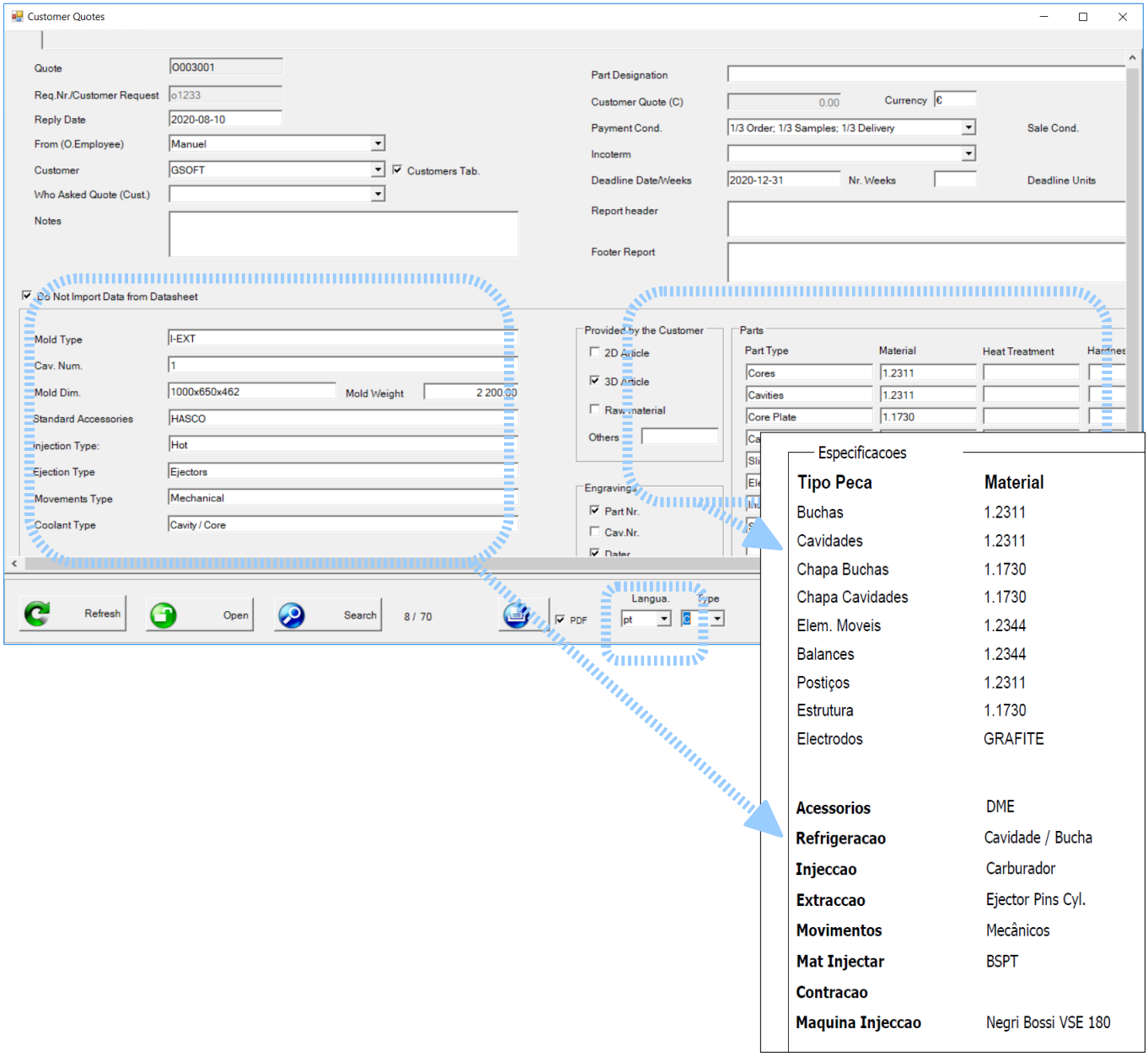
The software calculates the time/costs for each department. These values can be modified manually.

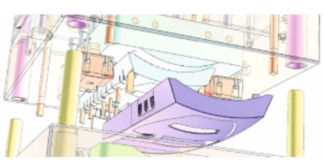


Quotes

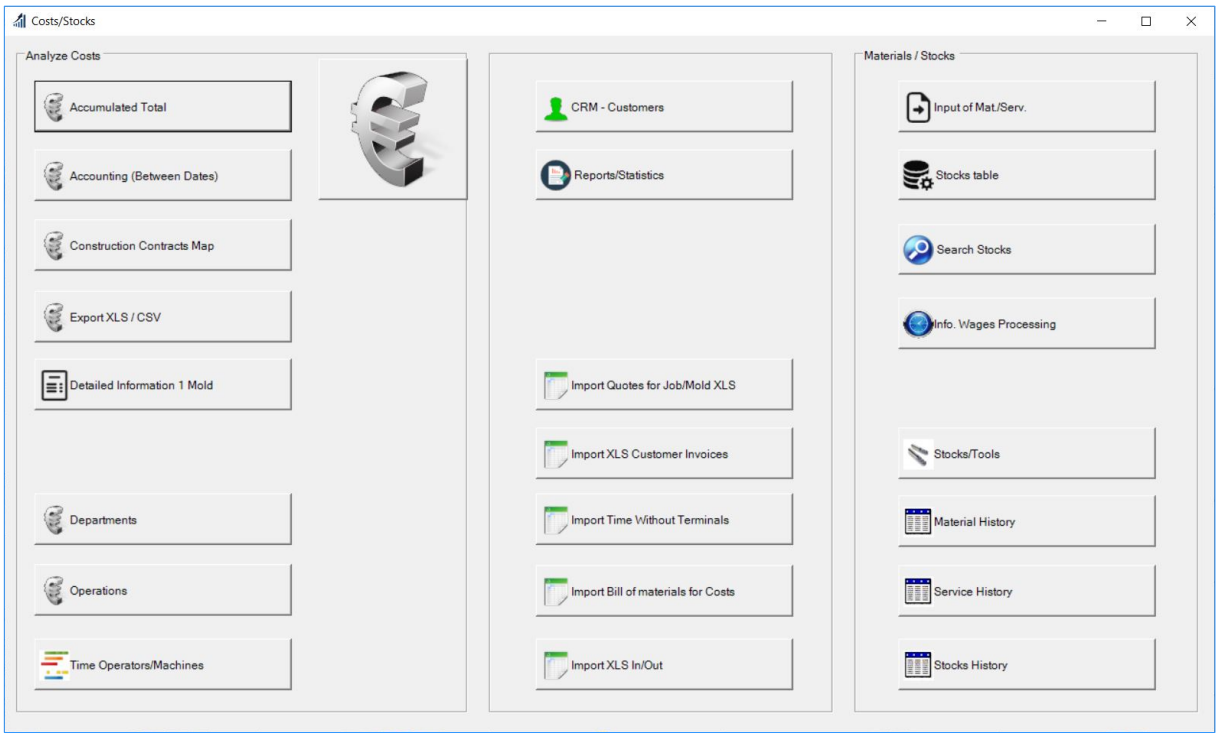
Generate automatically translated reports

After filling in all of the specific information for the client, the software can generate an automatic translation of the report to the Client's language.





Analyze Costs

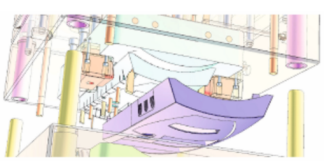


Job/Mold Costs by Department in the period 2000-01-01 - 2021-12-07

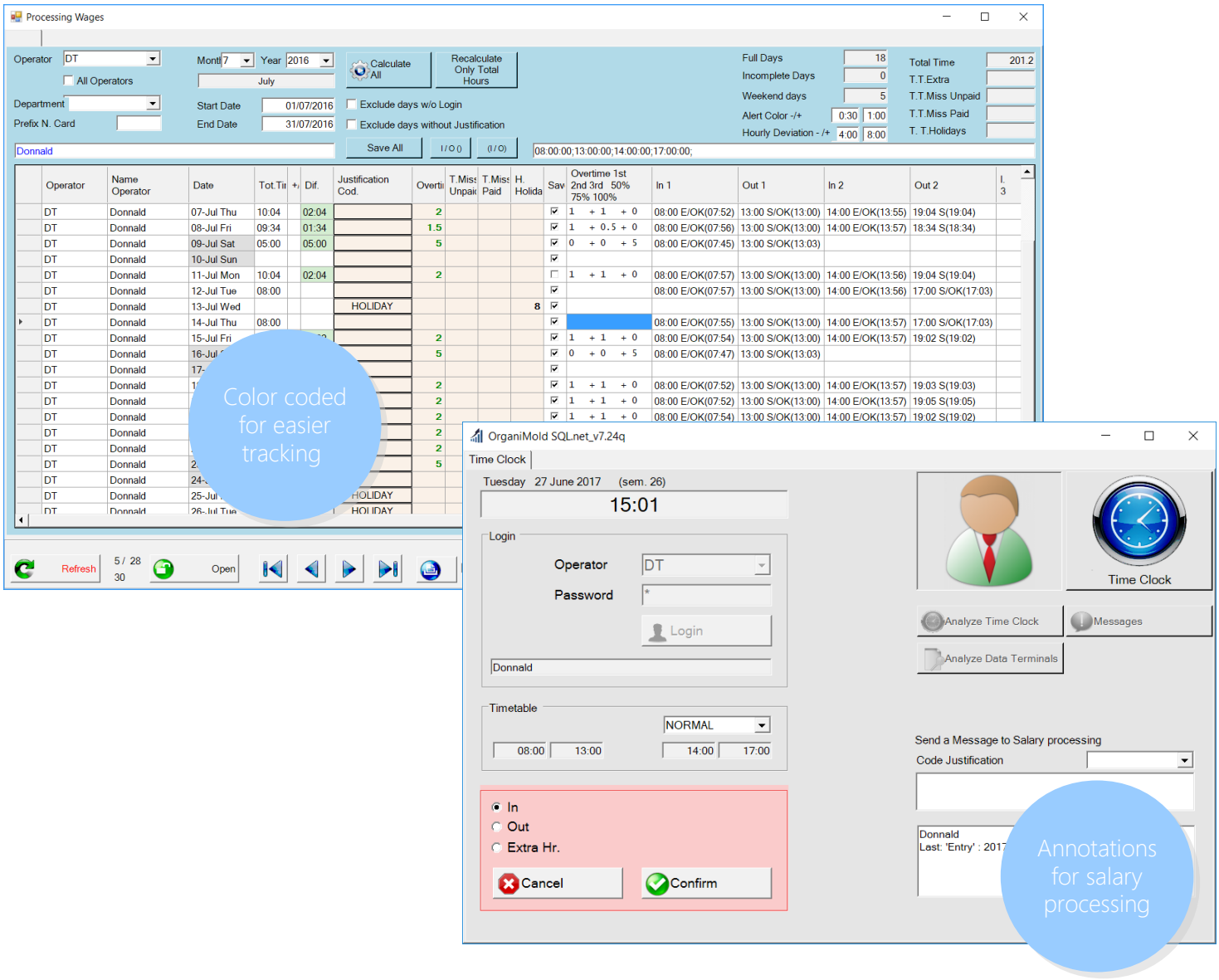
Job/Mold:	001502	ACESSÓRIO TELEMÓVEL					
Department	Lab.T. (Hr)	Lab. Cost	Mach.T. (Hr)	Mach.Cost	Indirect		TOTAL
ASSEMBLY	8:36	78,75	8:36	126,13	20,49		225,37
CAD	25:43	315,34	25:43	0,00	0,00		315,34
CAM	31:25	475,30	31:55	15,02	47,53		537,85
CNC	104:15	1 597,15	160:47	3 440,11	503,73		5 540,98
GRINDING	0:01	0,25	0:01	0,20	0,04		0,49
MAN-MILL	0:00	0,04	0:00	0,02	0,01		0,07
QCONTROL	0:39	7,06	0:39	10,47	0,00		17,52
ROUGHING	26:00	176,38					
SINK-EDM	0:00	0,04					
TOTAL	196:42	2 650,30					
Job/Mold:	001503	SECADOR					
Department	Lab.T. (Hr)	Lab. Cost					
ASSEMBLY	107:12	2 211,96					
CAD	36:09	661,91					
CAM	7:08	76,72					
CNC	86:41	2 422,63					
GRINDING	1:08	18,68					
MAN-MILL	0:30	10,02					
QCONTROL	0:00	0,12					
ROUGHING	3:36	51,82					
TOTAL	242:26	5 453,86					
Job/Mold:	001504	BOTÃO AUTORÁDIO					
Department	Lab.T. (Hr)	Lab. Cost	Mach.T. (Hr)	Mach.Cost	Indirect		TOTAL
ASSEMBLY	3:35	38,74	3:35	53,83	9,26		101,83
CAD	10:42	147,18	10:42	0,00	0,00		147,18
CAM	1:24	13,62	2:24	20,61	1,36		35,58

Cost of Jobs / Molds (accumulated total) Grandesoft

Job/Mold	Labor	Machines	Indirects	Materials	Services	SubCont.	Total Costs	Quote	Deviation	%Dev	Labor Time	Mach. Time	%Conc
001501 *	7 393,58	5 427,06	1 138,85	18 050,00	1 510,00	800,00	34 319,50	58 600,00	24 280,50	41%	378:47	426:10	100%
001502 *	2 650,30	3 930,11	623,25	4 589,36	0,00	0,00	11 793,01	25 000,00	13 206,99	53%	196:42	253:44	100%
001503 *	5 453,86	3 733,19	852,48	180,00	0,00	0,00	10 219,54	28 000,00	17 780,46	64%	242:26	257:01	100%
001504 *	1 046,66	1 537,45	241,63	2 621,85	0,00	0,00	5 447,59	28 000,00	22 552,41	81%	68:07	92:58	100%
001505 *	9 340,26	8 730,77	1 768,88	0,00	0,00	3 266,70	23 106,61	60 000,00	36 893,39	61%	430:51	535:25	100%
001506 *	6 681,20	4 808,61	1 112,01	2 149,66	0,00	40,00	14 791,48	28 000,00	13 208,52	47%	379:05	382:30	100%
001507 *	28 097,15	19 015,82	4 216,49	0,00	0,00	0,00	51 329,46	28 000,00	- 23 329,46	-83%	1 090:44	1 178:18	100%
001508 *	9 946,14	6 782,02	1 654,49	456,00	0,00	100,00	18 938,66	25 000,00	6 061,34	24%	421:58	423:40	100%
001509 *	292,97	249,54	54,04	3,77	0,00	0,00	600,32	30 000,00	29 399,68	98%	23:11	23:13	100%
001510 *	3 991,19	218,60	42,36	0,00	0,00	0,00	4 252,15	28 000,00	23 747,85	85%	177:31	178:50	100%
001511 *	178,74	166,88	34,55	0,00	0,00	0,00	380,17	22 000,00	21 619,83	98%	11:30	13:33	100%
TOTAL	75 072,05	54 600,05	11 739,03	28 050,64	1 510,00	4 206,70	175 178,49	360 600,00	185 421,51	51%	3 420:52	3 765:22	



Time Clock and Salary Processing



Clock-out

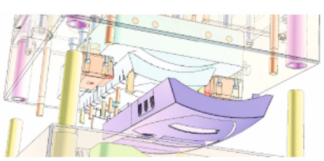
Operations initiated by the operator are automatically interrupted when the operator leaves the factory.

In Manual Machines, operations stay paused until next clock-in.

In Automatic Machines, the operations can keep going without an operator.

Clock-in

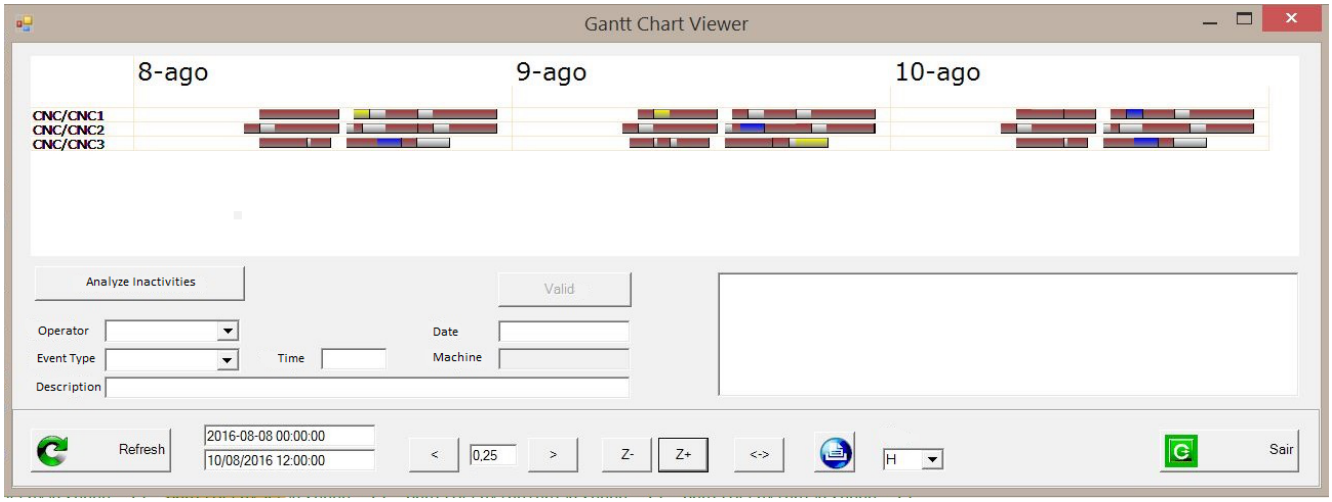
After lunchtime (or any other pause) while still in the operator's shift, by clocking-in, operations that were automatically interrupted before can be automatically re-started (depending on the company's preference).



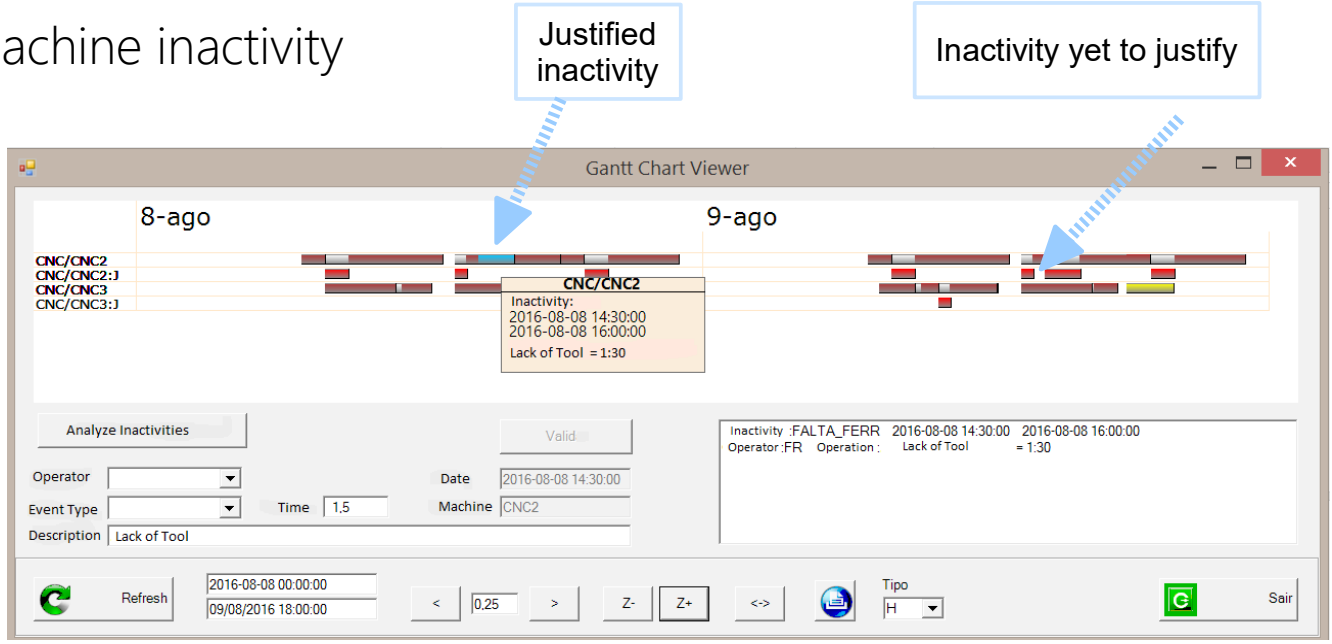
Analysis of Machine Productivity

Machine productivity graph

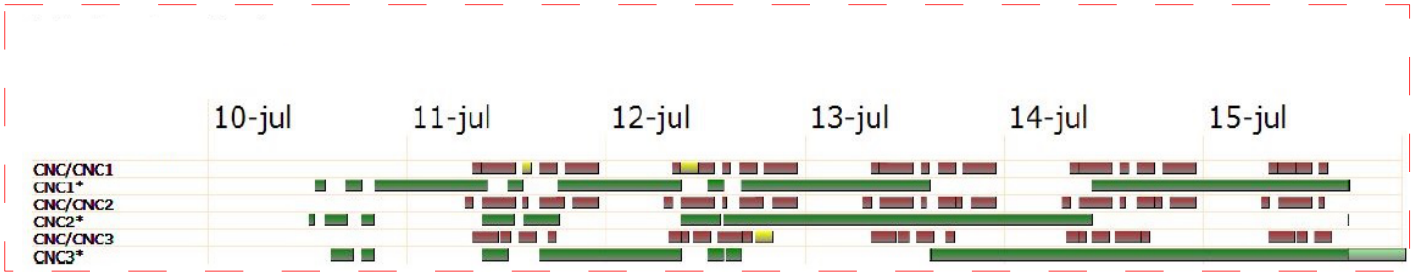
Includes the machine timetable, operations done with an operator, operations done without an operator and inactivity.

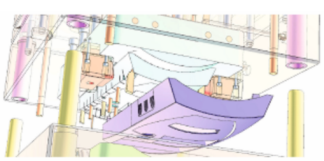


Machine inactivity



Interface for analysis and justification of machine inactivity:
- Clicking on the red bar allows the creation of a justification automatically

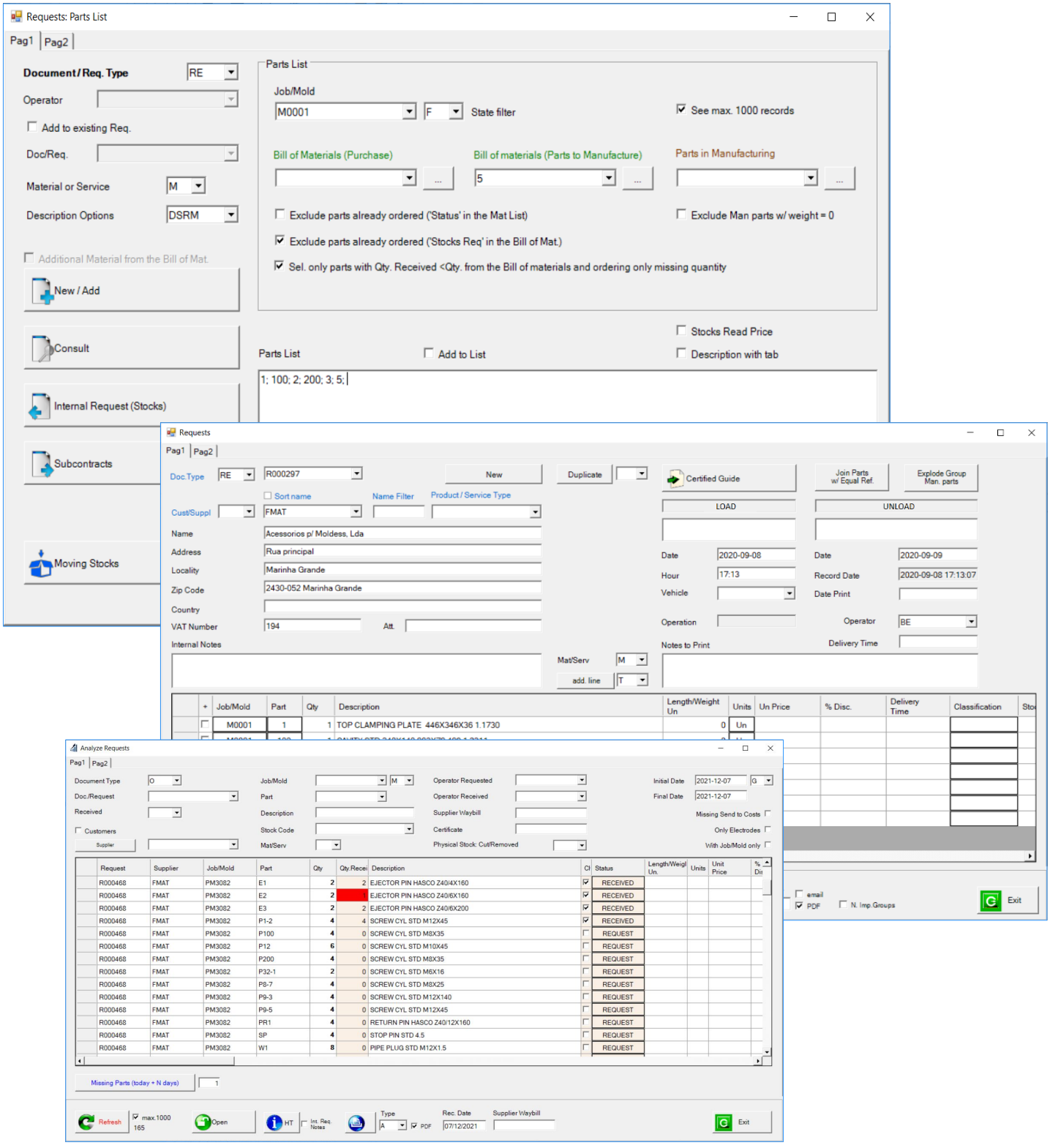


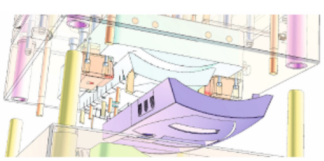


organimold

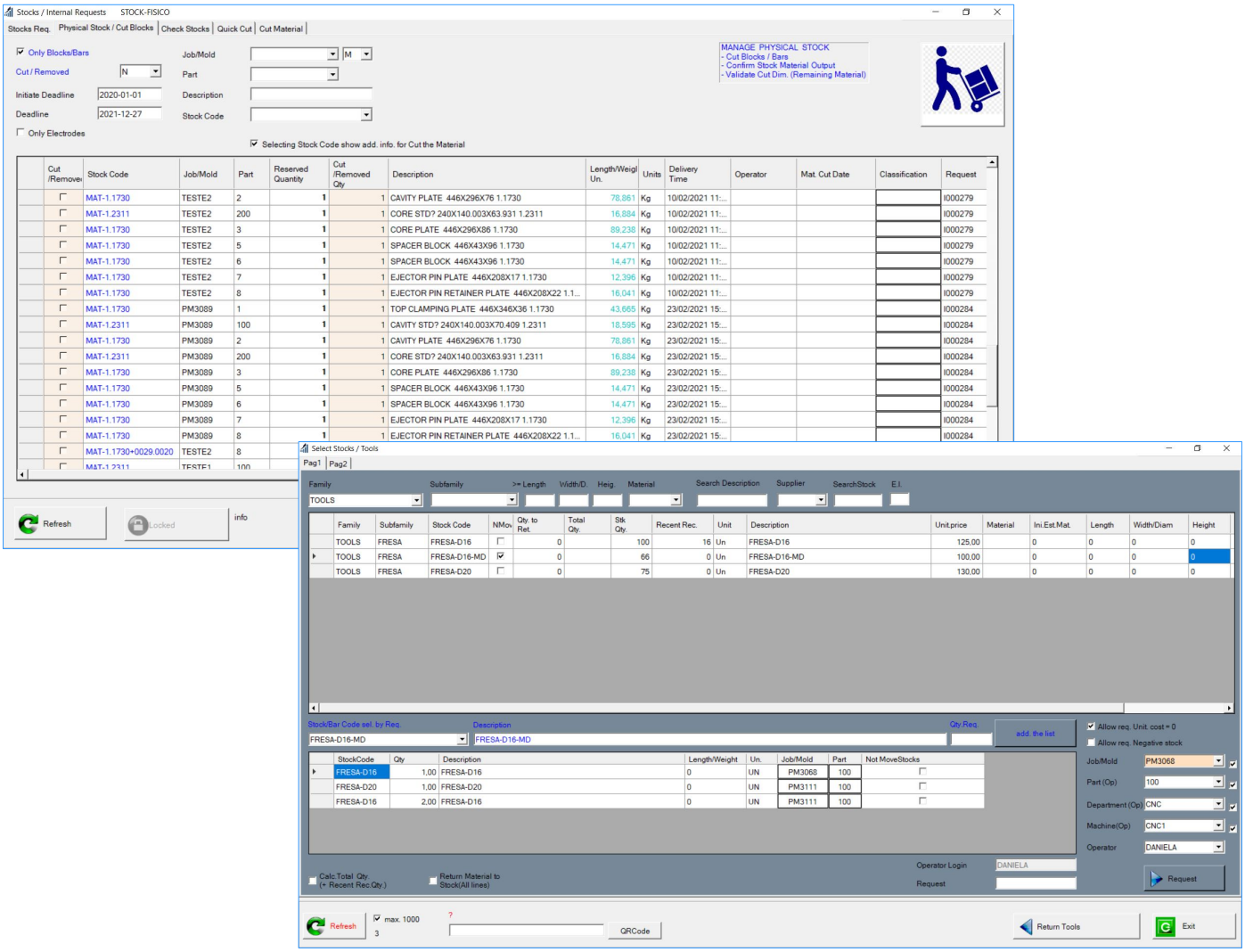
Requests

Make requests and quote demands using the Bill of Materials



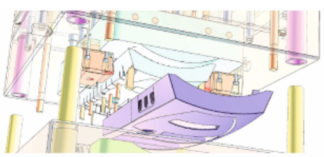


Stocks and Tool Management



Stocks and Tools management

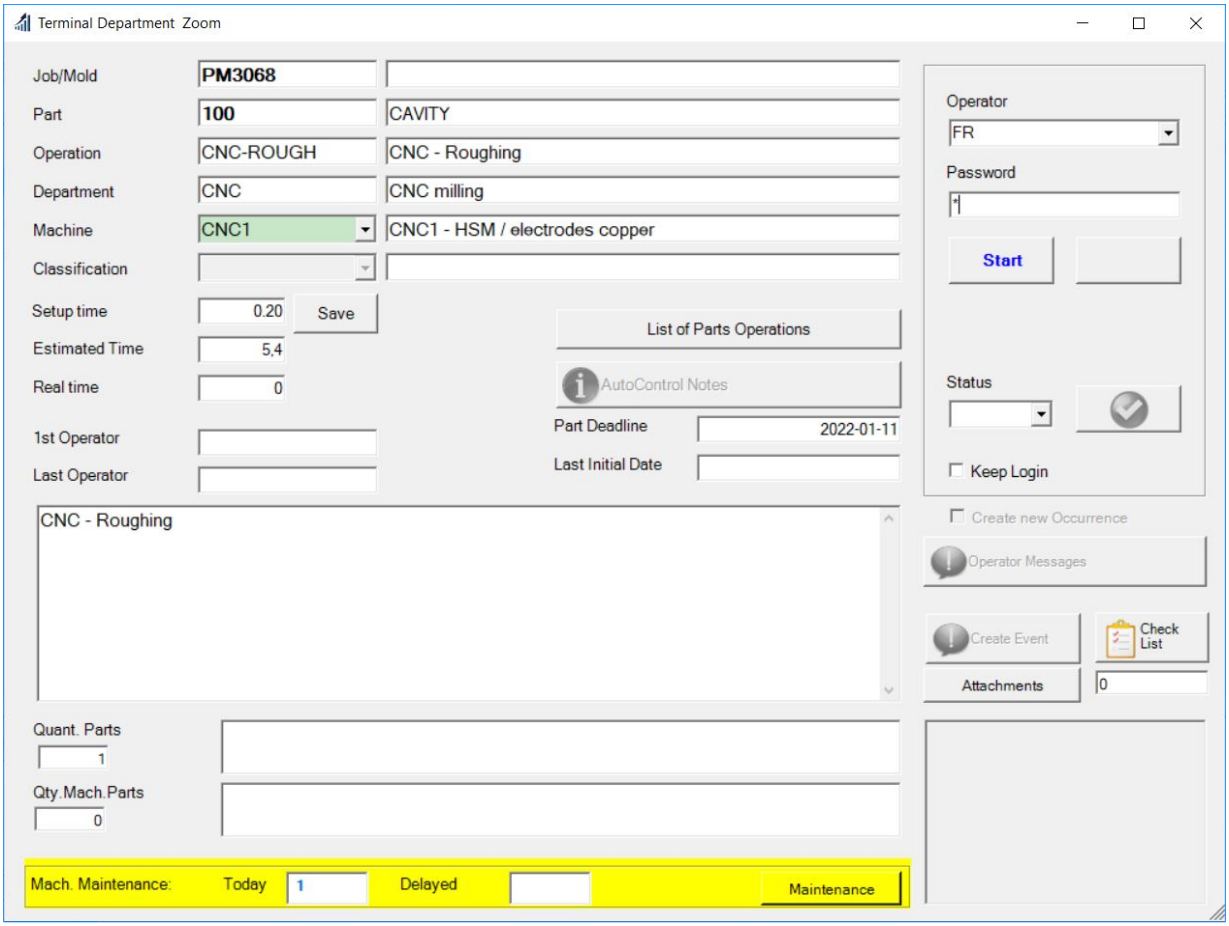
- Materials management of blocks and bars by size
- Automatic suggestion of bar/blocks to use, based on an optimization algorithm
- Allows also Tools Management

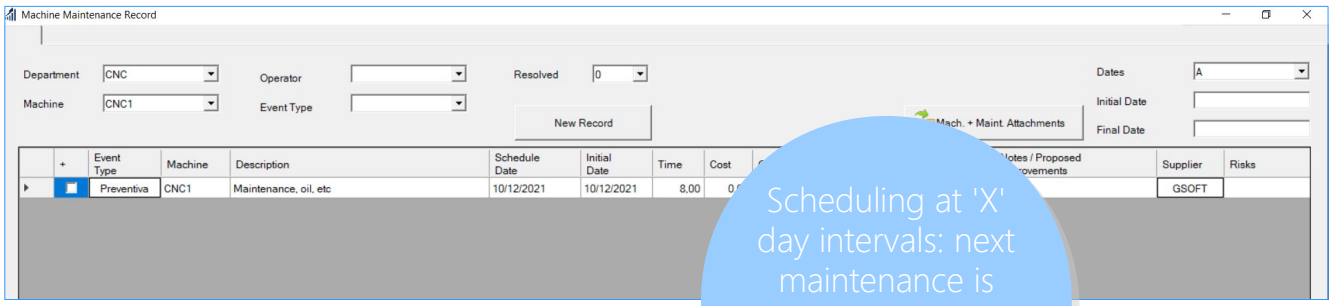


Machine Maintenance Alerts

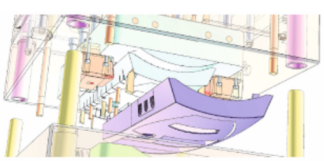
Scheduling of maintenance for each machine

Notifies the operator of the maintenance scheduled for the current and previous days



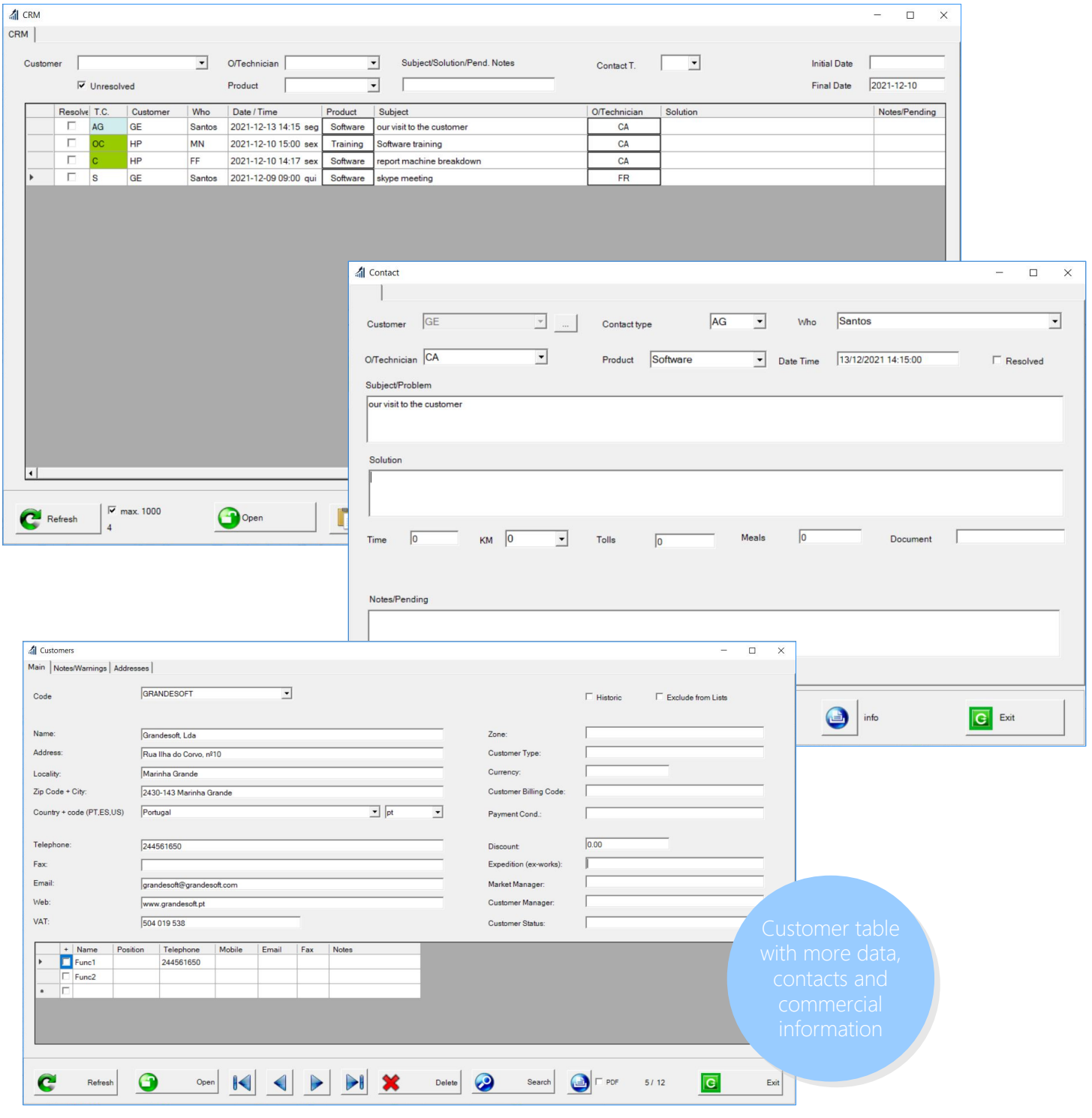


Scheduling at 'X' day intervals: next maintenance is scheduled after being marked as 'solved'



Customer Relationship Management

Allows scheduling of activities and pending subjects, logs phone calls, visits, expenses and distances (Km).
All the pending subjects are visible until they're marked as solved



organimold