

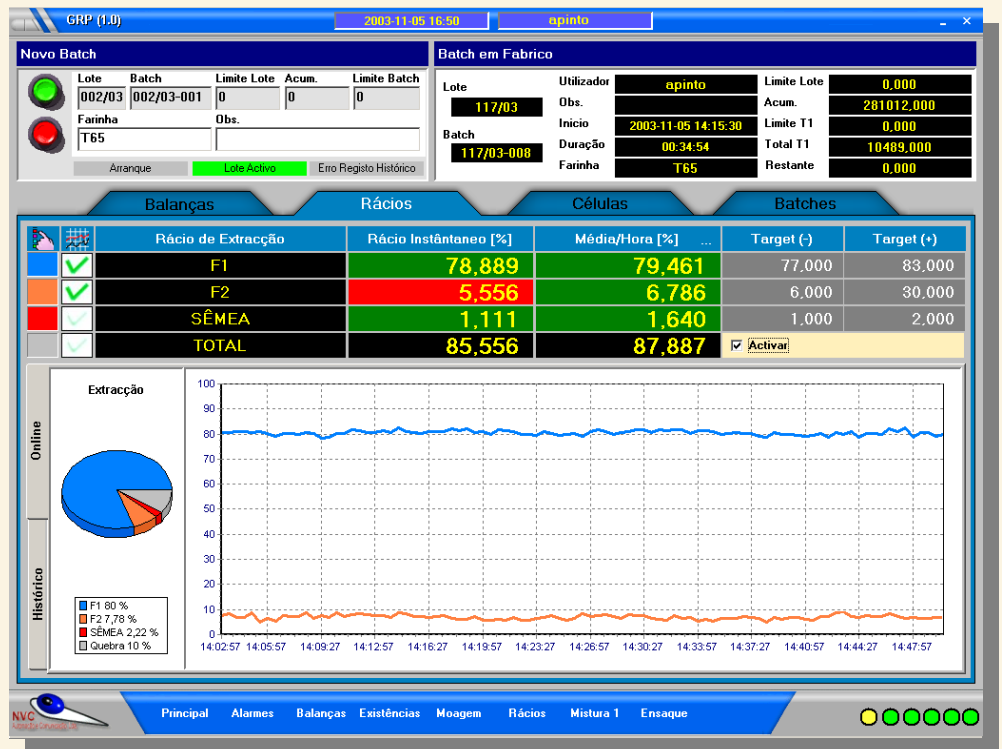
GRP

Production Ratios Management

The software **GRP - Production Ratios Management** delivers all tools necessary to visualize, control and manage the cereal milling process.

The highly flexible architecture of **GRP** allows an easy way to interface with the already existing equipment at the customer's plant, such as PLC, weighing devices, frequency converters, and others.

GRP can be harmoniously installed on customer plant, without disturbances while the production takes its normal course.



- | | |
|--------------------------------|--|
| Control and Supervision | <input checked="" type="checkbox"/> Remote programming of the weighing devices (gravimetric or volumetric)
<input checked="" type="checkbox"/> Interface with PLC |
| Production Ratios | <input checked="" type="checkbox"/> Instantaneous and average ratios
<input checked="" type="checkbox"/> Ratio historical data |
| Product Traceability | <input checked="" type="checkbox"/> Assignment of sequence code (products contracts, etc)
<input checked="" type="checkbox"/> Traceability of product transfers |
| Additional Features | <input checked="" type="checkbox"/> Customizable Application
<input checked="" type="checkbox"/> Product Classification and Management
<input checked="" type="checkbox"/> Users Administration (Login)
<input checked="" type="checkbox"/> Database Utilities (Backup and Restore) |
| Future Expansion | <input checked="" type="checkbox"/> Remote Data Access (Internet Explorer)
<input checked="" type="checkbox"/> Teleservice
<input checked="" type="checkbox"/> Interfacing with proprietary applications of the customer (accounting programs, stock management, etc). |

For more information about this product or others developed by the NVC, please, contact us by email dep.comercial@nvc.pt or visits our website www.nvc.pt



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GRP

(continuation)

GRP stores all the process information and historical data in a SQL Database Server, making it easy and secure to maintain.

The **MED - Database Explorer Module** was specially conceived to easily explore the database information and present it as printout reports or maps. **MED** includes the following features:

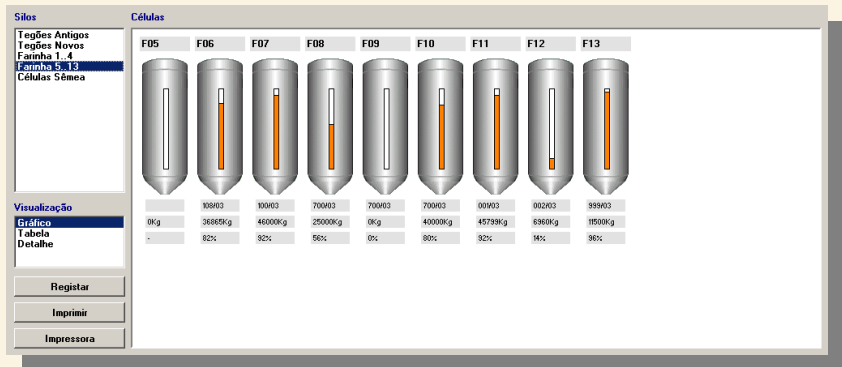

- Selective data filtering
- Calculations (totals and partials)
- Graphical representation
- Batch Traceability

Balanças		Rácios		Células		Batches	
Tegões Origem							
Data/Hora Registro	Estado	Tegão	Lote 1L	Data/Hora Fim 1L	Tempo de Repouso Lote 1L		
2003-11-05 16:56:28	Fim	2	100/03	2003-10-29 08:16:08	7 dia(s), 08:40:20		
2003-11-05 16:56:28	Fim	4	101/03	2003-10-29 05:16:23	7 dia(s), 11:40:05		
2003-11-05 16:56:28	Fim	6		Indisponível	Indisponível		
2003-11-05 16:56:28	Fim	8	103/03	2003-10-28 16:41:35	9 dia(s), 00:14:53		
2003-11-05 16:56:31	Início	1	100/03	2003-10-29 08:11:47	7 dia(s), 08:44:44		
2003-11-05 16:57:31	Fim	1	100/03	2003-10-29 08:11:47	7 dia(s), 08:45:44		
2003-11-05 16:57:31	Início	2	100/03	2003-10-29 08:16:08	7 dia(s), 08:41:23		

Células Destino							
F1	Célula	Farinha	Data/Hora Início	Data/Hora Fim	Peso Inicial	Peso Final	
2	2003-11-05 16:57:37	ESP	2003-11-05 16:09:47	2003-11-05 16:57:37	437	726	
79,000	00:00:33						

F2	Célula	Data/Hora Início	Data/Hora Fim	Peso Inicial	Peso Final	
12	2003-11-05 16:57:40	11	2003-11-05 16:09:47	2003-11-05 16:57:40	212	279
102,000	00:00:30					

Sêmea Grossa	Célula	Data/Hora Início	Data/Hora Fim	Peso Inicial	Peso Final	
3	2003-11-05 16:57:52	?	2003-11-05 16:09:47	2003-11-05 16:57:49	335	353
42,000	00:00:18	2	2003-11-05 16:57:49	2003-11-05 16:57:52	353	353

The screenshot shows a 'DETAILED MILLING REPORT' for 'MILA TORRE'. It includes a header with 'Programa em: 19/05/2003' and 'Programa por: Oper'. The main table has columns: 'Data Início', 'Data Fim', 'Data Início', 'Data Fim', 'Data Início', 'Data Fim', 'Data Início', 'Data Fim', 'Data Início', 'Data Fim'. Below the table are sections for 'Destino: 11', 'Destino: 12', and 'Destino: Sêmea', each with a small table of data.

Detailed Milling Report

This report supplies detailed information about one specific batch; precise quantities consumed from the origin bins and accumulated on the destination bins.



The screenshot shows a 'MILLING TOTALS REPORT' for 'TOTAL DA MOAGEM'. It includes a header with 'Programa em: 19/05/2003' and 'Programa por: Oper'. The main table has columns: 'Tipo de Lote', 'Q. Lote', 'Total 11', 'Total 12', 'Total Sêmea', 'Total Adit', 'Total Adit'. The table shows a total of 30000 for 'Tipo de Lote', 2400 for 'Q. Lote', 2400 for 'Total 11', 2400 for 'Total 12', 2400 for 'Total Sêmea', and 2400 for 'Total Adit'.

Milling Totals Report

This report permits the analysis of the productivity of the milling organized by finish product (flour). It shows the total quantities of cereal and additives consumed versus the quantities of flour obtained.

NVC is an active member of the Tecnimil Organization. Find more information at: