



 PARTsolutions

Strategic Parts Management at IMAFORNI INT'L S.p.A

Case Study

IMAFORNI



The Geometric Similarity Search as an effective tool for parts management at IMAFORNI INT'L S.p.A.

Founded in 1962 in Verona, IMAFORNI INT'L S.p.A. is today an international world leader in the production of complete lines for biscuits and crackers. The company is active in 83 countries with more than 1,000 biscuit and cracker oven lines installed worldwide.

Passion, innovation and reliability are today, as in the past, the basic ingredients of the winning recipe of Imaforni. Thanks to the constant attention to the most innovative technologies, the company can offer high quality products in terms of health and safety with the new versions of machinery of stainless steel structures.

Initial situation at Imaforni

Imaforni's product is extremely sophisticated, with a high level of technology and engineering, where the first requirement is to achieve the best in performance and reliability.

Before starting the co-operation with CADENAS, no specific system was used at Imaforni to handle the nearly 120,000 standard and supplier parts used in the production of the industrial ovens.

In 2012 the company decided to start a project of geometric search with two main targets: to avoid the proliferation of multiple parts and to optimize the reuse rate of parts in the PLM system.



»» One of the basic selection criteria during our search for the best solution was the necessity to find a tool that could be integrated with both our 3D CAD systems used within the company. ««

Valter Venturelli
Chief Information Officer at IMAFORNI Int'l S.p.A.

One solution for all company departments

The Strategic Parts Management PARTSolutions by CADENAS met this requirement and it is now installed on approx. 50 work stations at Imaforni. "The search functions offered by CADENAS' software solutions are used in the technical, production and purchasing departments for 3D geometrical searching during the engineering phase and the geometrical comparison between similar parts or different releases of the same part number", says Venturelli. This is required to avoid the introduction of similar or duplicate part copies and improves the reuse of parts already released within the company.

The integration of the Strategic Parts Management PARTSolutions by CADENAS, with the existing PLM system used at Imaforni, was possible thanks to the implementation of processes which import parts during the night that have been released to the PLM system during the day. A check of all the parts verifies the presence of any duplicate copies within the imported components. This allows engineers to be offered alternatives for their possible use and also to avoid the creation of parts already existing in the database.

The screenshot displays the CADENAS PARTSolutions software interface. The main window shows a table of parts with the following columns: ERP_PDM_NUMBER, RP-Number, CAD TYPE, CODICE, VERSIONE, DESCRIZIONE, * LASTVERSION, MATERIALE, RICEVATO_DA, SPECIFICA_TECNICA, FAMIGLIA, and DESCRIZIONE_AGG. Below the table, a 3D model of a flange is visible.

Three green callout boxes highlight specific data points:

- Product release yes / no**: Points to the **RICEVATO_DA** column.
- CAD system**: Points to the **CAD TYPE** column.
- From semi-finished product yes / no**: Points to the **MATERIALE** column.

ERP_PDM_NUMBER	RP-Number	CAD TYPE	CODICE	VERSIONE	DESCRIZIONE	* LASTVERSION	MATERIALE	RICEVATO_DA	SPECIFICA_TECNICA	FAMIGLIA	DESCRIZIONE_AGG
133	P199130345_00	MD	P199130345	00	FLANGIA DI CHIUSURA	Ultima Revisione	AIISI 304		141878		
134	P199130347_00	MD	P199130347	00	FLANGIA	Ultima Revisione	Fe 37 C UNI 7070		142277		
135	P199130348_00	SW	P199130348	00		Ultima Revisione	SF61041018	SF61041018	143562		
136	P199130349_00	SW	P199130349	00		Ultima Revisione	SF61041016	SF61041016	143567		
137	P199130350_00	MD	P199130350	00	FLANGIA	Ultima Revisione	AIISI 304		144564		
138	P199130351_00	SW	P199130351	00		NON Ultima Revisione	SF61041018	SF61041018	144913		
139	P199130351_01	SW	P199130351	01		NON Ultima Revisione	SF61041018	SF61041018	144913		
140	P199130351_02	SW	P199130351	02	FLANGIA PER ATTACCO P460	Ultima Revisione	NERA DECAPI Fe 37 UNI 665	SF61041018	144913		
141	P199130352_00	MD	P199130352	00	FLANGIA PER UCF 211	Ultima Revisione	AIISI 304	SF01123080	145064		TRAMOGGIA CON ASPO PER ALIMENTAT
142	P199130353_00	MD	P199130353	00	FLANGIA PER SUPPORTO	Ultima Revisione	AIISI 304	SF60610028	145337		
143	P199130354_00	MD	P199130354	00	FLANGIA PER RULLO	Ultima Revisione	AIISI 304	SF60610025	146786		
144	P199130358_00	MD	P199130358	00	FLANGIA	Ultima Revisione	AIISI 304	SF01123072	150130		DI TENUTA

The benefits

One of the greatest benefits resulting from the installation of the Strategic Parts Management PARTsolutions at Imaforni is that “it is possible to optimize the management of the components already existing in the company system. Furthermore, the internal production and purchasing processes have been improved thanks to the Geometric Similarity Search, which has simplified the check procedure to verify the geometric differences between various versions of the parts”, says Venturelli.

With reference to the possible parts reduction resulting from the implementation of the parts management system PARTsolutions within the company, Venturelli explains that “it is difficult to verify this currently because the typology of products have a high rate of personalization. Certainly during these months we have reused a lot of existing parts, avoiding the creation of new codes to handle.”

IMAFORNI in figures



Founded in **1962**



Today in **83** countries worldwide



More than **1,000** industrial
oven lines installed



120,000 standard
and commercial parts



2012: implementation
of the Geometric Similarity Search



50 working stations
with PARTsolutions

An effective co-operation also for the future

In the near future, the co-operation between Imaforni and CADENAS will continue with the integration of the software solution PARTsolutions with the PLM system, to allow the management of the internal commercial codes and to support the activity of the Standardization department at Imaforni.

»» ...the production and purchasing internal processes have been improved thanks to the Geometric Similarity Search, which has simplified the check procedure to verify the geometric differences between the various versions of the parts. ««

Valter Venturelli

Chief Information Officer at IMAFORNI Int'l S.p.A.

Company Profile

IMAFORNI INT'L S.p.A.

Founded in 1962 in Verona, IMAFORNI INT'L S.p.A., is a leading company in the production of machines and equipment for the baking industry.

Many things have changed since 1962, starting with the technical knowledge, the innovation in technology and the growing experience in the market, which have brought the company to worldwide leadership in the production of industrial ovens for crackers and biscuits while maintaining the same the corporate values. Passion, innovation and reliability are now as then the basic ingredients of Imaforni's winning recipe.

Imaforni is present in 83 countries worldwide and offers a wide range of technologically advanced products to a market that increasingly demands the highest efficiency with low energy consumption.

For further information about the company, please visit the website:

www.imaforni.com

IMAFORNI

CADENAS

CADENAS is a leading software developer in the areas of Strategic Parts Management and parts reduction (PART-solutions), as well as Electronic Product Catalogs (eCATALOGsolutions). Included are also the numerous innovative search functions, like the Geometric Similarity Search GEOsearch, which is offered as alternative or supplement to the traditionally classified parts master under the term of intelligent finding. With its customized software solutions, the company acts as a link between the component manufacturers with their products and the purchasers. In doing so, the company serves more than 10,000 customers in 40 countries.

With its 300 employees at 17 international subsidiaries, the name CADENAS (Hispanic: process chains) has been standing for success, creativity, support and process optimization since 1992.

For further information about the company, please visit the website:

www.cadenas.de/en

