

# Ronchi Provides Outstanding Customer Service Through an End-To-End Digital Transformation Featuring the Arbortext Content Delivery System



## About the Company

Ronchi Mario SpA is a small company with a huge impact!

Founded in 1966 in Milan, Italy, Ronchi is a manufacturer of very large industrial packaging equipment for liquid, detergent, cosmetic, pharma, and food products.

Ronchi has a global service footprint — including UK, USA, South America, and China — supplying all the biggest multinational companies with sorting, orienting and filling/capping machineries. But all the design and manufacturing work is still centered in Milan, and is accomplished by a team of about 200 people!

The fascinating thing about Ronchi's products is that each machine is a one-of-a-kind, uniquely designed and built for the customer. This equipment also has a very long lifespan, and it evolves over time to process new bottles and caps formats through mechanical/software modifications.





**Frame description**

Main components

Part	Description
A	Scroll
B	Infeed starwheel
C	Transfer starwheel
D	Casing starwheel
E	Loading starwheel
F	Outfeed starwheel
G	Extraction unit
H	Rejection fingers
I	Product detection sensor

**Operation of frame components**

Introduction

The production process is made up of various steps. The steps are performed at the same time but, for clarity, each is described individually. The steps are:

1. Container entry, page 37

2. Full container transfer, page 38  
 3. Cap infeed, page 38  
 4. Capped container outfeed, page 39

**Container entry**

1. The empty container is positioned on the infeed conveyor belt [A] with the correct orientation (for asymmetric containers).
2. The infeed conveyor belt transfers the container to scroll [B] which, as it rotates, ensures the container is spaced from the ones behind it.
3. The scroll transfers the container to infeed starwheel [C].
4. Sensor [D] checks that the container is inside the infeed starwheel.
5. The infeed starwheel places the container on plate [E] as it rotates.
6. The plate rises and brings the container into contact with the filler nozzle.
7. The container is filled at the filler; see Filler operation, page 42.

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procedures from page-based documentation to task-based information units in XML, organized by product structure. These content units could then be managed using **Windchill CMS** functionality to maintain version controls, linking to the parts data, and potential reuse across products, releases, and output formats. In addition, **Windchill Translation Management** tools can now be used to reduce localization costs while providing multi-lingual version of documentation.

Finally, with all of this in place, **Arbortext Content Delivery** could now be launched as a one-stop source that delivers everything technicians need to maintain and service their equipment, as well as identify the parts they need. Features include the following:

- Each customer has access only to their own unique product information.
- “Super Users” have access to regional data.
- Multi-lingual versions available.
- Information can be located visually, or by search, including serial numbers, model numbers, part numbers, diagnostic codes, or full text.
- Technicians can click on a part in the 3D model and identify the parts they need, including all part details.

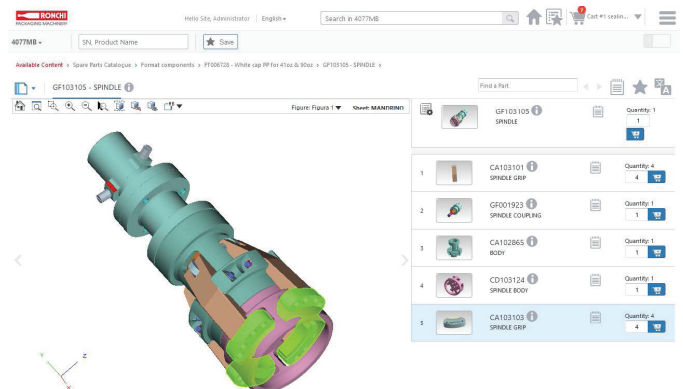
## The Solution

The obvious answer to Ronchi's dilemma would seem to be an online portal, such as the **Arbortext Content Delivery** system (ACD). However, to make this strategy most effective, there was a lot of infrastructure to put in place first.

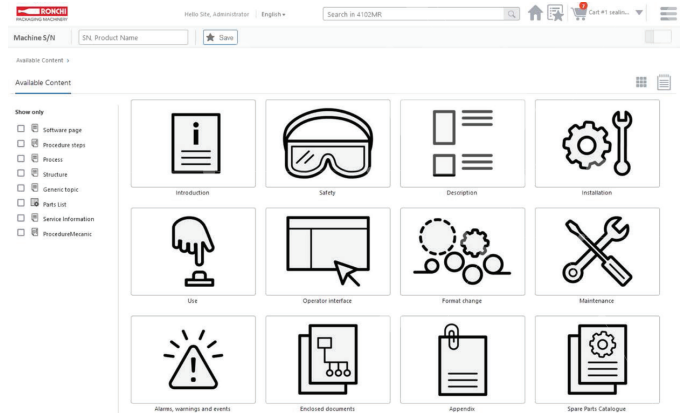
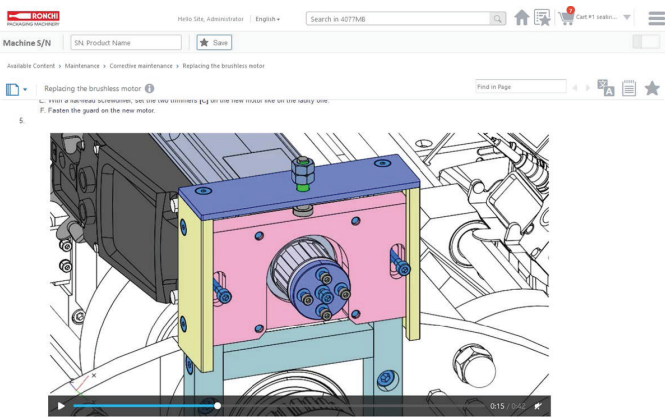
The first step was to gain control of the product structures themselves using **Windchill BOM Management** tools. Once an Engineering Bill of Materials (eBOM) was developed, the tools allowed development of an associated list of service parts (sBOM) that identified serviceable replacement parts and kits, specific to each customer.

With reliable product data in place, Ronchi could then use existing CAD models to develop intelligent 2D and 3D parts drawings using **Creo Illustrate**. These drawings provided a foundation for development of interactive Parts Catalogs using Windchill for Parts List. In addition, 3D animations are developed in **Creo Illustrate** for use in demonstrating service procedures.

Along with these improvements, Ronchi began using **Arbortext Editor** to transform their service



- A request for quote for required parts can be submitted through the system.
- All technical information is available in both print and interactive electronic formats, including animations.



### Key Benefits

- Information for each machine is continuously updated throughout its life cycle.
- Updated information is available to users both online and offline.

- Reduction of the time needed to obtain information to support the machines
- Consistency of information
- Product specific parts list
- Improved accuracy of spare parts ordering
- Modular access to information to provide exactly the information needed.
- Capture of customer machine fleet by type, plant.
- Creation of re-usable lists of items to improve the supply of consumables.

## Learn more

For more information about Arbortext Content Delivery and the entire portfolio of Arbortext software products, visit: [www.ptc.com/go/arbortext](http://www.ptc.com/go/arbortext).



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