

# PHARMATHEK

AUTOMATION TECHNOLOGIES



## ROBOTIC STORAGE DESIGN



## Summary

New product design contest on Desall.com: Pharmathek and Desall invite you to design the new case of the Sintesi robotized warehouse dedicated to the pharmacy world.

**Official contest page:** <http://bit.ly/PharmathekContest>

## Company Description

Pharmathek is a company that designs, produces and installs robotic storage systems for pharmacies.

Born within the Th.Kohl Group, a company with a century-old experience in the pharmacy sector, since its foundation (in 2007) the company has worked to offer its customers increasingly innovative and high-performance solutions, able to respond better and better to the needs of the contemporary pharmacy.

Among the values behind Pharmathek solutions there are efficiency, speed and reliability.

But even before that, flexibility: the Pharmathek robotic storage systems can be configured according to the needs of the individual company.

This is why Pharmathek customers include not only pharmacies but also hospital pharmacies and medicine wholesalers.

## What we are looking for

**Pharmathek** is looking for the new **design of the case** of the **Sintesi robotized warehouse** and of the automatic loader **Pharmaload**, installed inside the pharmacies and developed to facilitate the pharmacist and her/his collaborators in the daily management of the medicines and their data.

## Guidelines

For the correct realisation of your proposals, keep into consideration the following guidelines:

**Product typology:** the object of the contest is the **case**, that is the **external enclosure**, that covers the internal components of the **Sintesi robotized warehouse** and of the **Pharmaload automatic loader**. A peculiar feature of the robotized warehouse is its **modular structure** that enables to adapt it to the various contexts of installation, thanks to its modules and its customisable dimensions. For more information on the warehouse structure and on the Pharmaload automatic loader, please refer to the *Material files*.

**How to use:** the robotized warehouse enables the pharmacist and her/his collaborators to manage the medicines and their data, in an easy and automated way. In particular, there are four main modalities:

- **Phase of medicine delivery for selling purposes:** the pharmacist, through the pharmacy management software, sends the request to the warehouse for the products to be automatically collected by the robot and delivered to one of the delivery doors accessible to the operators;
- **Phase of medicine delivery for warehouse management purposes:** the operator sends the request from her/his position for the robot to automatically collect the medicine from the warehouse and deliver it at the dedicated exit service hatch, that constitutes the point of delivery;
- **Assisted loading:** the operator uses the dedicated scanner to read the product and places it on the conveyor belt, outside the hatch door for inserting the medicines. After verifying that the dimensions of the product match the target size, the warehouse opens the hatch door and moves the belt taking the product inside; then, the robot will automatically store it;
- **Automatic loading** (through Pharmaload): the operator pours the products to store in the hopper of the automatic loader and Pharmaload will provide automatically to identify, measure and take the products inside the warehouse where the robot will autonomously provide for their storage.

For more information on the functioning of the robotized warehouse, you may have a look at the following videos ([video 1](#) and [video 2](#)) and at the *Material files* attached.

**Where to use:** thanks to its modularity, the Sintesi robotized warehouse is able to adapt to any type and size of pharmacy, enabling the installation either on the back counter or in a separated room, either on the same level or at a higher or lower storey.

**Dimensions:** for the purpose of the contest, keep into consideration a standard warehouse measuring **4m in length, 2,5m in height and 1,43m in width**. The dimensions will be customised based on the client needs, as better illustrated in the layout attached in the *Material files*.

**Materials:** the panels that constitute the external enclosure of the robotized warehouse may be realised in **metal, wood or derivatives, glass, plastics**, even alternating different types of panels in order to offer a greater customisation for the pharmacist. Always keep into consideration a view of **product industrialisation**, avoiding processes or solutions not compatible with mass production.

**Interactive elements:** for the purpose of the contest you are invited to include the following elements to enable the operators to interact with the system:

## Robotized warehouse

- 1 operator station with screen (touch), space for a qwerty keyboard and mouse, barcode scanner, conveyor belt and hatch door for inserting the medicines, 1 emergency STOP button and 1 power switch;
- 1 entrance/exit door for the operator;
- 1 service exit hatch, to collect the medicines collected by the robot upon request of the operator (for ex. to collect the expired medicines or for other warehouse operations);
- 2 medicines delivery trays.

## Pharmaload

- 1 hopper;
- 1 service compartment.

For more information on the elements (functioning, size, location, etc.) and for an example of warehouse layout, you may refer to the document provided in the *Material files*. At your discretion you may make some changes to the size of the elements listed above to adapt them to your design idea; you are not required, though, to stylistically reinterpret the emergency STOP button and the power switch.

**Logo:** you are invited to include the *Pharmathek* logo on the external enclosure of the robotized warehouse, making sure it receives proper visibility; for this purpose, we suggest you to place the logo near the operator station. You can use the vector file provided in the *Material files*.

**Style and shapes:** the design of the external enclosure of the robotized warehouse shall prioritise the use of **clean lines**, preferring a **minimal** and **timeless style**. Your project shall be characterised by a **distinctive stylistic trait**, that might provide added value with its uniqueness. The **shapes** shall be **essential** and **clean**, still providing some characterising element. **It is fundamental that the design** you suggest is **versatile** and able to adapt to the various configurations, thanks to the modularity and adaptability of the warehouse.

**Colours:** for the purpose of the contest you are invited to show in at least one view the warehouse in a **white standard or neutral shade**. You are nevertheless free to suggest some colours variants based on your project idea, both for the panels and for some details, in order to show the great degree of customisation of your project.

**Surface finishes:** if provided by your project, make sure that any possible surface finish enables a practical cleansing of the external enclosure.

**Customer typology:** the system of the robotized warehouse addresses the pharmacy industry and provides for the interaction with various typologies of user, including pharmacists, sales people or warehouse workers.

**Values to convey:** the design of the external enclosure shall fully reflect the values of the brand, always keen on the technological research and innovation, supported by a long experience in offering highly functional and customised solutions for the final customer.

**Deliverables:** upload all the images that better present your projects and preferably provide further materials (.DWG, .STP, .AI or .PDF files, etc.) inside a .ZIP archive.

**Evaluation criteria:** in the evaluation of your submissions Pharmathek will take into account the following criteria:

**Functionality/usability**

**Aesthetics**

**Technical feasibility**

**Economic sustainability**

**Modularity and versatility**

**Language:** since we are an international Community, all texts provided with your uploads (abstract, description, tags, etc.) should be written in English.

## Contest timeline

Upload phase: 28<sup>th</sup> June 2019 – 4<sup>th</sup> November 2019 (1.59 PM UTC)

Client Vote: from 4<sup>th</sup> November 2019

Winner announcement: approximately by the end of January 2020

## Optional deadlines

Concept revision: 30<sup>th</sup> September 2019 (1.59 PM UTC)

**Concept revision:** deadline for requiring an optional revision of your project by the Desall team. In order to request a revision, upload your project, include the description project and save it as draft (SAVE DRAFT) from the upload page and send your request to the Desall Team via e-mail or through the contact form. **The revision is NOT mandatory:** it serves only as a further opportunity for the participants but does not constitute a condition for participation, nor does it constitute any advantage in the final evaluation.

## **Brief Revision (05/09/2019):**

As per your request, we're glad to inform you that Pharmathek has decided to give you one extra month to prepare your projects: the submission deadline has been postponed to November 04th. Accordingly also the (optional) Concept revision has been postponed to Sept 30th. For any questions, do not hesitate to contact our team writing to [contest@desall.com](mailto:contest@desall.com)

## **Eligibility and submission**

Participation is free of charge and open to designers and creative talents of any nationality aged 18 years or older. Participants can present one or more projects, but only the projects published on the [www.desall.com](http://www.desall.com) web site, via the upload page related to "Robotic Storage Design" will be accepted.

## **Award**

**1°: €4000**

The selection of the winner by Pharmathek will be the result of an unquestionable evaluation and it will take into account originality, feasibility and consistency with the brief presented.

## **Option right**

For the duration of the option right, the Sponsor offers an extra chance to all participants setting a fee of Euro 2,500.00= (two-thousand-five-hundred/00) for the purchase of the license for the economical exploitation of the projects not-acknowledged as the winning proposals.

For more info, please login and read the [Contest Agreement](#) from the upload page. For questions about the brief please use the "Have a question" button or write to [contest@desall.com](mailto:contest@desall.com).

## Submission Guidelines

**Project images:** the first image attached from the upload page will also be used as the preview of the project in the gallery. In order to better present your project and draw the attention of the sponsor, we suggest you to choose a content that provides an overall idea of the whole project in one single image, briefly including all the contents that will be further presented in the following images.

We also suggest you to use all five image slots available from the upload page of the contest and - where possible - to present several views of the project giving also an indication of the main dimensions of the product.

For product design contests in particular, we suggest you to include at least one image with your project on neutral background and no writings.

For the rendering and presentation of your project, the use of copyrighted images, even if slightly edited, is prohibited.

In case of using materials owned by third parties (ex. stock images, stock videos, texts, etc.), make sure you are granted all the licenses needed for participating in the contest, as further specified in the Contest Agreement.

In case of submitting multiple projects or concepts, you have to repeat the upload procedure for each project: do not submit multiple projects with a single submission.

You are required to upload at least 1 image; image ratio: preferably 4:3; allowed file formats: .jpg, .gif or .png; colour mode: RGB; maximum file size: 1MB.

**Descriptions:** we suggest you to use the appropriate fields, “Abstract” and “Description”, to include all textual information about your project. We discourage you to include textual description inside your images, as they might result difficult to read (at all events, we suggest you to include at least one image - if possible - with your project on neutral background and no writing). In the “Abstract” field you have maximum 500 characters to include a short summary of your project while in the “Description” field you can include all the remaining information.

**Additional material:** in addition to the project images, you are invited to attach further materials in a .ZIP archive (NO other file extensions are allowed, such as .RAR) through the “Archive File” field on the upload page. Among the various materials, you may include CAD files, PDF with further descriptions on the project, photos of any models or prototypes, high-resolution images of the project images and 3D files (preferably in .stp or .igs format - you may also include a PDF 3D file for a rapid visualisation). The maximum size of the .ZIP archive is 100MB. You may also attach a video presenting your project through the “Video File” field from the upload page, including it inside a .ZIP archive with a maximum size of 50MB.

**Concept revision:** revision of your project by the Desall team. In order to request a revision, upload your project including the description and save it as draft (SAVE DRAFT) from the upload page and send your request to the Desall Team via e-mail or through the contact form. The revision is NOT mandatory: it serves only as a further opportunity for the participants but does not constitute a condition for participation, nor does it constitute any advantage in the final evaluation.

**Hidden option:** only in case of public gallery contests, you can submit your project with “hidden” design privacy option, provided that you submit your project within the first half of the upload phase. By doing so, your project will remain hidden for all other users until the opening of the Community Vote, if any. At all events, your project will always be visible for the Sponsor regardless of the submission date. This option is automatically disabled once the first half of the upload phase has expired: you can find the deadline for activating this option in the Optional deadlines paragraph inside the brief.

*You can find further instructions on how to create your account, how to submit your project and other information in the [Tutorials](#) and in the [FAQ](#) sections.*