



# Bormioli Pharma Dispenser Design

## Summary

New product design contest on Desall.com: Bormioli Pharma and Desall invite you to design a tablet dispenser capable of releasing medication in a controlled manner according to prescribed dose.

**Official contest page:** <https://bit.ly/BormioliDispenser>

## Company description

At Bormioli Pharma, we design and produce pharmaceutical packaging systems that are used by millions of patients around the world every year.

We are present in Europe with 10 production plants and count on the work of more than 1300 people to offer our products in over 100 countries.

We like to consider ourselves a “start-up” with over 100 years of experience, as we were founded in a historical industrial environment but in 2017 we became an independent company.

This makes it possible for us to be both solid and dynamic. In recent years we have invested relentlessly, strengthening our production capacities, acquiring new companies, but above all we have turned innovation into a lever for growth.

In this spirit, we have created our own Open Innovation model; a system based on the sharing of skills and opening up our workflows to the outside world. We believe that collaboration is the driver of change and that new ideas can improve people’s lives.

## What we are looking for

Bormioli Pharma is looking for a new product capable of **containing and dispensing oral drugs, particularly tablets and micro-tablets, in a controlled manner.**

In the medical field, there are different types of prescription that require accurate dosage of the drug, but at the same time need to be flexible according to the needs of the patient, i.e. modulating the amount of tablets according to age, weight and other variables.

The focus of the product will therefore be to improve **patient adherence** by maximising the match between the doctor’s prescription and the drug actually taken by the patient.

## Guidelines

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

**Product typology:** The dispenser can be designed according to one of the following design approaches.

- The dispenser may be an accessory assembled on the top of a standard tablet bottle with a 35mm diameter opening, thus acting only as a dispenser (for more information on the bottle, please refer to the *Material files*).
- The dispenser can be a **complete product**, both as a packaging to hold/transport the tablets and as a dispenser.

In order to enable greater versatility, autonomy and guarantee better user care, the dispenser will be able to integrate additional functions linked to **Internet-of-Things (IoT)** technologies, ideally while keeping the production cost as low as possible.

**How to use:** The dispenser will be used by a caregiver, including a professional caregiver such as a doctor or nurse, or directly by the patient.

It is necessary that the prescribed dose is set at the time of taking the drug, and by performing a specific action, the dispenser will dispense the dose.

Both dose setting and dispensing can be done **manually** (with a visual confirmation of the number of tablets measured before dispensing and the operation of a mechanical actuator) or **semi-automatically** (see the *Technologies* paragraph).

The dispenser has to be **easily transportable, manageable and simple to use**, and **one-handed** solutions will be appreciated.

**Where to use:** The places of use of the dispenser can be many, home, office, outdoors, in public places, in hospitals, or in nursing homes, wherever the user needs to take his dose of medicine through tablets or micro-tablets.

**Technologies inside the product:** the technologies to be designed are mainly mechanical. The dispenser will have to handle tablets of different sizes (2 to 5 mm diameter), its mechanism will therefore have to be relatively versatile or scalable and not rely on volumetric measurement principles to deliver the dose.

The system shall also be designed to minimise damage or crushing of tablets during dispensing.

**An electronic IoT integration** connected to a smartphone and app can be included to set the dosage, count the tablets being dispensed, monitor the remaining content inside the bottle, activate the dispenser, etc.

The system may combine or may be associated with child proof devices/accessories.

**Production technologies and materials:** Plastic injection moulding is the main approved production technology for the dispenser. All areas coming into contact with the drug shall be made of plastic materials. Matt finishes are preferred, allowing for grip and easy handling of the dispenser.

**Aesthetics and shapes:** The aesthetics of the product shall be **minimal and modern**, using curved and soft shapes, and excluding sharp and angular shapes.

Other sectors besides medicine, such as aerospace, can also be used as inspiration for the style. The product shall communicate and ensure **reliability, robustness, trust, safety and ease of use**.

**Colours:** Please refer to Bormioli Pharma's [corporate visual identity](#) for a series of colour guidelines.

**Logo:** you are invited to include the graphic symbol that makes up the company logo on the product case, making sure that it receives appropriate visibility. The vector file of the logo to be included is provided within the *Material files*.

**Deliverables:** upload all the images that better present your projects. The images in the gallery (maximum 5) must have a proportion of 4:3, ex. : 960x720 px; allowed format file: .jpg, .gif or .png; colours: RGB; max size file: 1MB. **You are invited to submit and attach a complete 3D file of mechanical parts dedicated to dispensing and an analysis of the phases of the product's use.**

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

**Functionality/Usability 5/5**

**Degree of innovation 5/5**

**Aesthetics 4/5**

**Technical feasibility 4/5**

**Compliance with brand 3/5**

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

## Contest Deadline

Upload phase: 28th May 2021 – 7th September 2021 (2.59 PM UTC)

Client Vote: from 7th September 2021

Winner announcement: approximately before the end of October 2021

## Optional deadline

Concept revision: 28th June 2021 (2.59 PM UTC)

**Concept revision:** this is the 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.

## 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 this contest will be accepted.

## Award

1°: €5000

The selection of the winner by the Sponsor 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 2500,00 = (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.*