



Assembly Kits for Enclosures *Choose the right one*



With our software Front Panel Designer, you can design and order an entire custom enclosure. This is the perfect alternative to prefabricated enclosures. With this option you tailor the enclosure to fit your requirements.

We offer two different types of enclosures. You can either build an enclosure with **side profiles**, or one with **housing profiles**.

To assemble your enclosure, you will need a corresponding assembly kit. This newsletter will summarize the **different screw options we offer and which ones you can order**. You can also find more detailed information in our *Manual for Enclosure Assembly*.

[Download the Manual for Enclosure Assembly](#)

Side Profiles

Enclosures designed with side profiles have a set height of either 42mm or 56mm. The finished enclosure will be made out of 2 side profiles and 4 panels (front, back, top and bottom). The top and bottom panels slide into the profiles and self-tapping screws mount the front, back, and side profiles.

Side Profile / Assembly Kit:

An assembly kit contains the hardware that is needed to assemble one enclosure. For side profiles you will need:

- 8 self-tapping screws, diameter 2.9mm
- 4 self-adhesive, black rubber feet

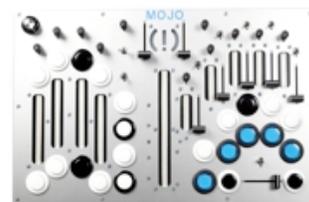
The screws can be ordered with three different head shapes and platings (examples see the *Manual for Enclosure Assembly*, page 7).

Project of the month: *The MOJO* *(Courtesy of [Moldover](#))*



When milling our customers' designs we can only guess what the panels are going to be used for. We are always excited to learn about their projects and to show some of them in our monthly newsletters.

Moldover's creation is fascinating and fun. Inspired by traditional instruments, DJ hardware, and game controller, he created the "sexiest controller in the entire multiverse". We just assume it is the front panel milled by Front Panel Express that makes him say this!



Curious how *The MOJO* works?

[Watch a video of THE MOJO in action](#)



As you can see in the photo above, the screws are tapped into the side profiles.

Housing Profiles

To build an enclosure with housing profiles, you will need 6 panels and 4 housing profiles. Machine screws hold the panels and housing profiles together.

Housing Profile 1 / Assembly Kit:

- 8 machine screws (M5)
- 4 self-adhesive, black rubber feet

The screws can be ordered with three different head shapes and platings (examples see the *Manual for Enclosure Assembly*, page 9).



The enclosure in the photo above is built with housing profiles. You can see how the machine screw is tapped into the profile.

Housing Profile 2 / Assembly Kit:

This housing profile requires two assembly kits; the same kind that you would use on housing profile 1 and an additional one for the cover panels. The second assembly kit will have the nuts and screws you will need to mount the cover panels.

More FAQs: Screws for Enclosures

Order numbers

You can find the order numbers and more detailed information in our *Manual for Enclosure Assembly*.

Download the Manual for Enclosure Assembly

Plating and Head Shapes

All screws are available in nickel-plated, zinc black (black galvanized) and zinc white (white galvanized).

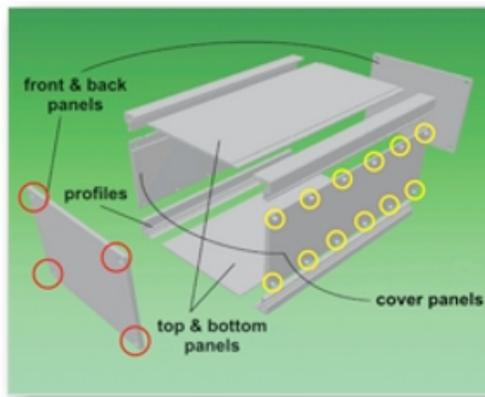
Our screws have a variety of head shapes to better fit your product. Choose between flat, oval, and pan headed screws.

Screw Assortments

Instead of just ordering one assembly kit for one enclosure, you can order a screw assortment. You have the same option for screw assortments as for the assembly kit, only the assortment will contain 50 screws instead of the 8 screws in the assembly kit. All screws in an assortment are identical.

Housing Brackets

If your enclosure is wider and/or higher than 150mm (5.906"), we recommend adding housing brackets and additional screws for the housing brackets for increased rigidity. Each housing bracket requires two additional screws.



- Assembly Kit for Housing Profile 1
- Assembly Kit for Housing Profile 2

The additional assembly kit for this option contains:

- 12 machine screws (M3)
- 12 square nuts to slide into housing profile 2

These screws can be ordered with three different head shapes, platings and two different length (examples see the *Manual for Enclosure Assembly*, page 9, 11).

How to add the right assembly kit to my order?

Once you are finished designing your enclosure, you can conveniently order it and its accessories via Front Panel Designer's order program.

Examples / Suggestions:

1. Example: You designed an enclosure with side profiles.

You chose to have black side profiles, and your front and back panels are 3.0mm.

As you have black side profiles, you probably would also like to have black screws. Depending on what kind of screws you prefer, you would either order *Assembly kit ISP / A3.0-SW*, *Assembly kit ISP / B3.0-SW* or *Assembly kit ISP / C3.0-SW*.

In Front Panel Designer:

You have decided to use ovalhead screws. In Front Panel Designer you would need to design the right countersink for the self-tapping screw. In the drilled hole properties, open the countersink options and choose *For countersunk tapping screws (DIN 74C)*, as shown in the *Manual for Enclosure Assembly* (page 5, 6).

2. Example: You designed an enclosure with housing profile 2.

You would like to have your profiles in natural aluminum and the panels of your enclosure are 2.5mm thick.

Choose your screw type depending on the option you prefer. In this example, we will go with zinc white. Accordingly, we are going to order either assembly kit either *IGP/ A6.0-ZI*, *IGP/ B6.0-ZI* or *IGP/*

C6.0-ZI.

Additionally, we need the Assembly kit for housing profile 2, the screws and nuts to mount the cover panels to the housing profiles. You would choose between IPGS/ A2.5-ZI, or IPGS/ B2.5-ZI or IPGS/ C2.5-ZI.

In Front Panel Designer:

You have decided to use flathead screws. In Front Panel Designer, you would need to design a drill hole with a diameter of 5.3mm for the front and back panels (*Manual for Enclosure Assembly*, page 8). For the screws with the nuts on the cover panels, you would have to design drill holes with a diameter of 3.2mm (*Manual for Enclosure Assembly*, page 10).

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