The GMD and GMH series of stepper motor drives are designed for mounting in a 3U Eurorack. This is not only a very compact method of packaging but also allows easy unplugging of the cards. The whole rack assembly can then be mounted in a separate control panel.

This is very economical for multi axis applications as each rack can house up to 7 drives and a power supply card. It is also possible to have more than one power supply rail in the same rack (e.g., low voltage for small motors and high voltage for larger motors).

The rack is constructed with individual motherboards linked by power supply bus bars. This enables systems from 1 to 7 axes to be constructed quickly from stock components. The end user can easily construct an engraved aluminium panel with apertures for LEDs, switches, and other devices. Motherboard design prevents drive cards being plugged into power supply sockets and vice versa, which would otherwise cause damage.

The rack systems are assembled from a Rittal frame in our workshop to RTA specifications.
Continuous development may necessitate changes in models and specifications without notice.

Motherboards are designed for VERO rack 84 units wide and 180mm deep (part number: 950202581E).

A 19" rack is 84 rack units wide.

Earth terminal on motor connector is for EMC grounding.

Mounting holes 3.0mm diameter.

+12V bus bar only necessary when clock cards are used.

AUX1 and AUX2 connections only necessary if clock cards are used.

AC logic power is only required when clock cards are used.

Safety feature in motherboard design prevents drive cards being plugged into power supply motherboards and vice versa.

Notes