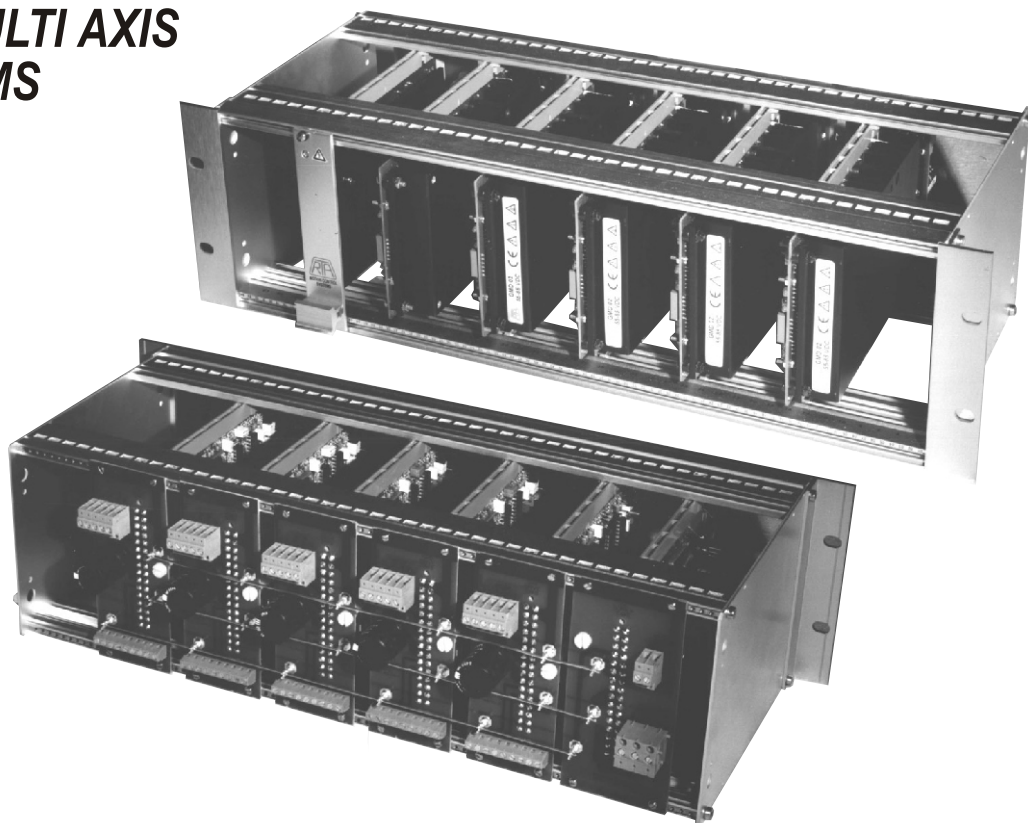




RACK SERIES

PREWIRED RACK ASSEMBLIES

FOR MULTI AXIS SYSTEMS



- Flexible motherboard design for GMD and GMH series drives.
- Motherboards have screw terminal blocks for solderless connections.
- Ideal for multi axis applications.
- Upto 8 GMD or GMH drives in one 3U Eurorack.
- Warning LEDs visible through front panel.
- Drives easily removed for replacement.

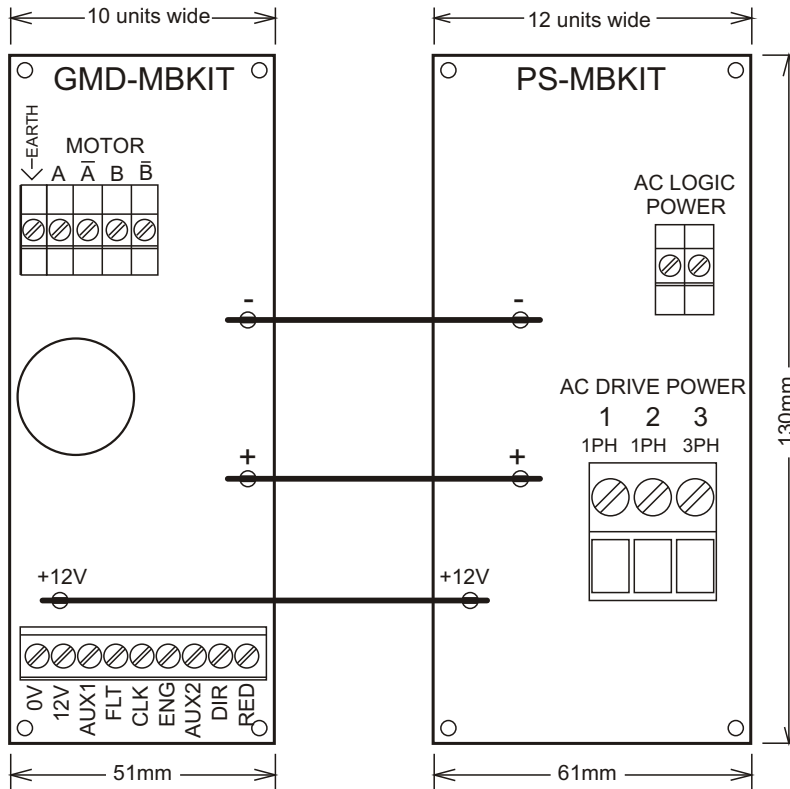
The GMD and GMH series of stepper motor drives are designed for mounting in a 3U Eurorack. This is not only a very compact method of packaging but also allows easy unplugging of the cards. The whole rack assembly can then be mounted in a separate control panel.

This is very economical for multi axis applications as each rack can house upto 7 drives and a power supply card. It is also possible to have more than one power supply rail in the same rack (eg. 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.

MOTHERBOARDS



Notes

Mounting holes 3.0mm diameter.

1 rack unit = 5.08mm = 0.2"

A 19" rack is 84 rack units wide.

Earth terminal on motor connector is for EMC grounding.

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

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

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

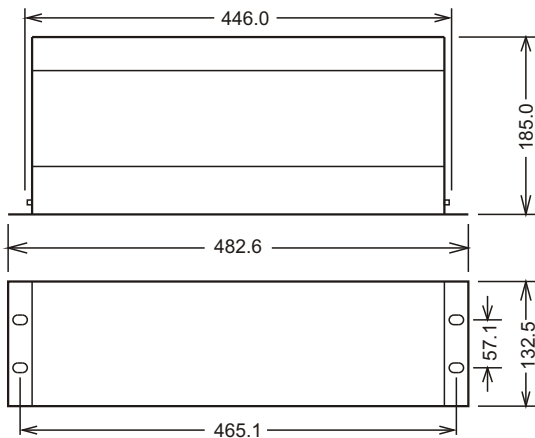
AC logic power is only required when clock cards are used.

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

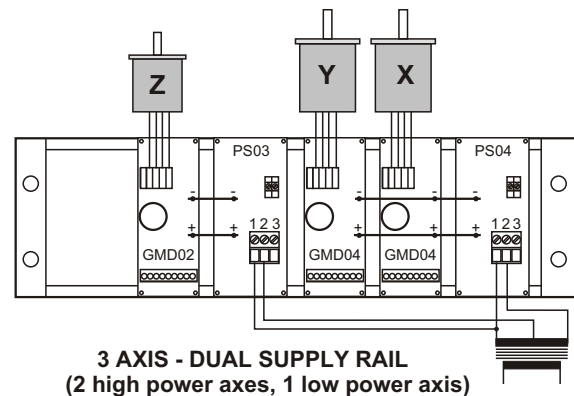
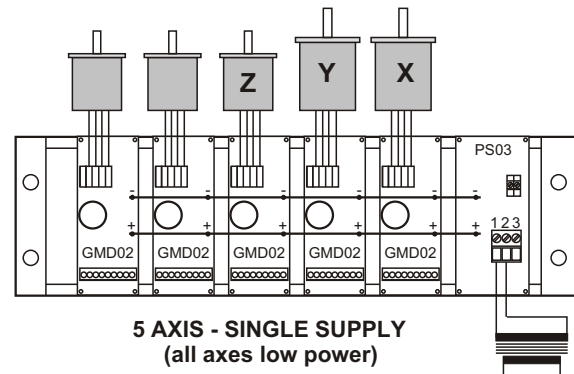
'GMD' CONNECTIONS

BOARD	DRIVE	DESCRIPTION
0V	30a,c 32a,c	0V common for all signals.
+12V	6c	+12V supply for optional clock cards.
AUX1	12a	Used only for optional clock cards.
FLT	10a	Drive fault. Normally low. Goes high when drive fails
CLK	6a	Step input. Force low to make motor step.
ENG	4a	Energise. Forcing low will de-energise drive.
AUX2	2a	Used only optional for clock cards.
DIR	2c	Direction. Force low to change direction.
RED	4c	Current reduction. Force low to for 65% current.

RACK DIMENSIONS (in mm)



EXAMPLES (rear view of rack)



Motors, transformers, controllers, motion control software and motor couplings also available on request. Continuous development may necessitate changes in models and specifications without notice.

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