



# 1M BOLT-ON NYLON GEAR RACKS

## GTR020



### Compatible with the following Richmond motors.

Sliding / Cantilever Motors		
GTR156 & GTR212 ✓		GTR061 & GTR207 ✓
Swing Motors		
GTR099 !	GTR058 !	GTR062 & GTR078 !
GTR500 & GTR501 !		GTR502 & GTR503 !

### TECHNICAL SPECIFICATION

<b>Gear Rack Height (mm):</b>	26 (minus Mounting Tabs)
<b>Gear Rack Width (mm):</b>	20 (minus Mounting Tabs)
<b>Gear Rack Length (mm):</b>	1000
<b>Teeth Pitch (mm):</b>	12.56 (Suitable for Module 4 Drive Pinions)
<b>Material:</b>	Nylon



### THE GTR020 1M BOLT-ON NYLON GEAR RACK:

The **GTR020 1m Bolt-on Nylon Gear Rack** is suitable for use with all Richmond Rolling Solutions Sliding Gate motors.

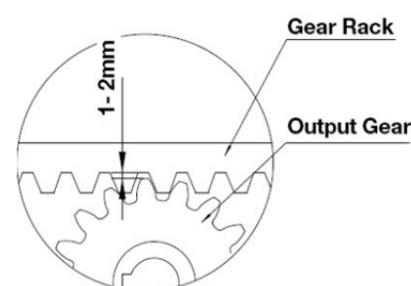
Made from extremely durable and hard-wearing nylon, each 1m length of gate gear rack comes with 6 x mounting tabs ready for installation on to your gate. Joining lengths together is also a simple process courtesy of the male/female dovetail joint receptacles located at opposite ends of each piece.

Hex head screws and square mounting washers are included.

\*GTR092 1m Bolt-on Nylon Gear Rack #4 Pack# also available\*

**\*\*Please Note:** The correct placement and positioning of the gear rack is directly dictated by the position and height of the sliding gate motor's drive pinion.

You must ensure that there is always a minimum clearance of between 1-2mm between the top of the teeth of the drive pinion and the underside of the gear rack for the entire length that the gear rack runs (See Figure 1). Under no circumstances should the drive pinion of the sliding gate motor carry any of the physical weight of the gate. This will damage your sliding gate motor.



Gear rack correctly aligned at 90° to the motor cog



Gear rack misaligned. Do not attempt to use if misaligned.

Fig 22

It is also important that the gear rack is aligned at 90° to the drive pinion and does run misaligned (See figure 2). This will damage the gear rack and potentially lead to damaging the sliding gate motor.

Always consult the relevant Richmond Rolling Solutions Sliding Gate Motor Manual before attempting to install any GTR020 Nylon Gear Rack to ensure correct positioning and alignment on your gate.

See Richmond Rolling Solutions Sliding Gate Opener User Manual links below:

**GTR156 - 240V AC Powered Sliding Gate Motor suitable for gates up to 1200kg**

<https://www.richmondau.com/wp-content/uploads/2022/11/In-boxGTR156-instruction-manual-REV28.docx.pdf>

**GTR212 - 240V AC Powered Sliding Gate Motor suitable for loads up to 2000kg**

<https://www.richmondau.com/wp-content/uploads/2021/12/GTR212-instruction-manual-REV04.pdf>

**GTR061 - 240V AC Powered Sliding Gate Motor suitable for gates up to 800kg**

<https://www.richmondau.com/wp-content/uploads/2021/12/GTR061-instruction-manual-Revision-3.pdf>

**GTR207 - 24V Low Voltage Sliding Gate Motor suitable for gates up to 800kg**

<https://www.richmondau.com/wp-content/uploads/2021/12/GTR207-instruction-manual-Revision-4.pdf>