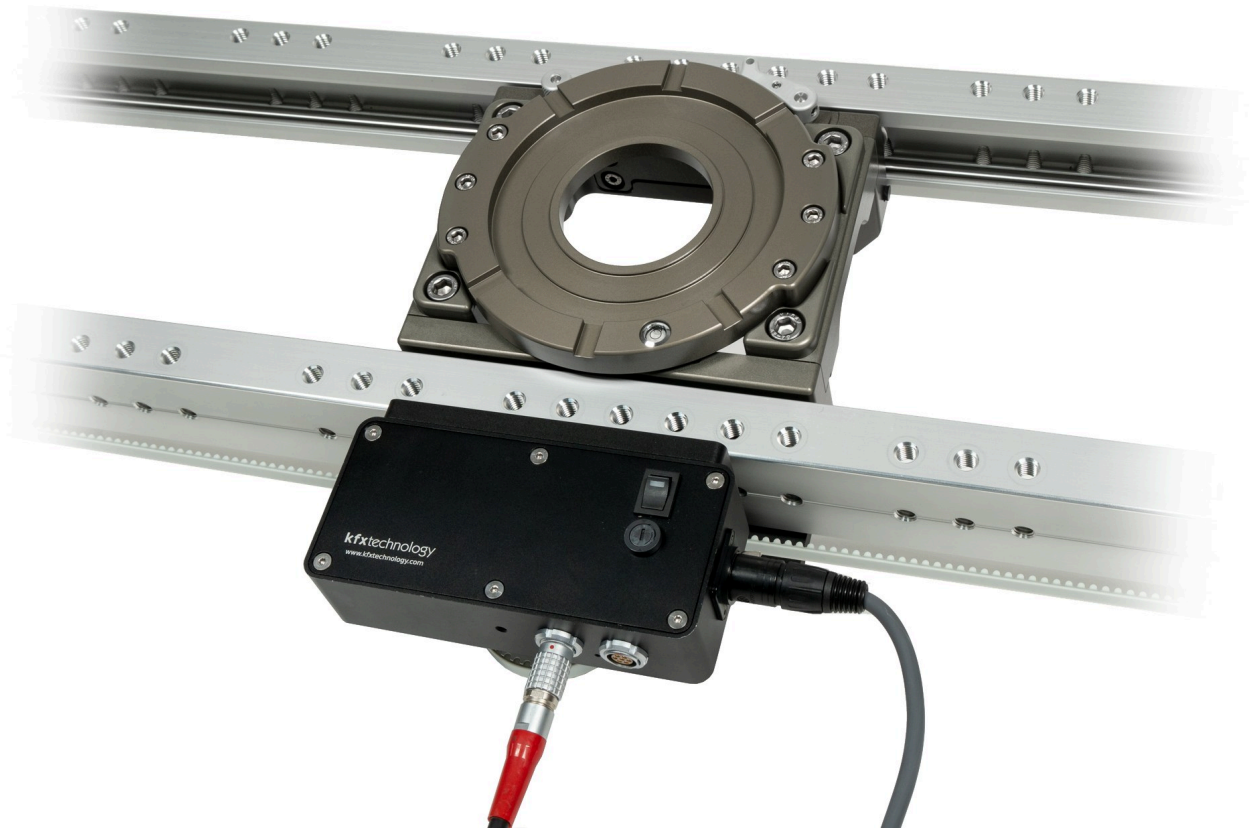
KFX GF-SLIDER MOTOR

Setup and Operation

Mounting, connecting and calibrating the slider drive

Engineered and built by KFX Technology · distributed by Grip Factory Munich



MODEL	PROCEDURE	DOCUMENT	REVISION
KFX GF-Slider Motor	Setup and Operation	GFM-TM-004	2026-11

Grip Factory Munich GmbH · Fürholzener Straße 1 · 85386 Eching · Germany
+49 89 319 012 90 · gripfactory.com

The GF-Slider Motor drives the carriage along a toothed belt that runs between two clamps at the ends of the slider. This guide covers fitting the motor to the GF-Slider, connecting the power box and hand control unit, and calibrating the end stops. The system needs at least 24 V DC.

YOU WILL NEED

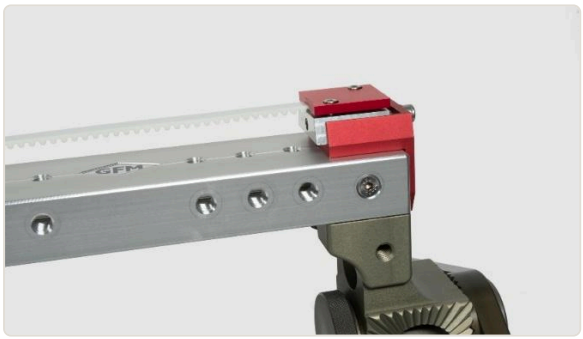
Imperial hex key
for the 3/8"-16 belt clamp bolts

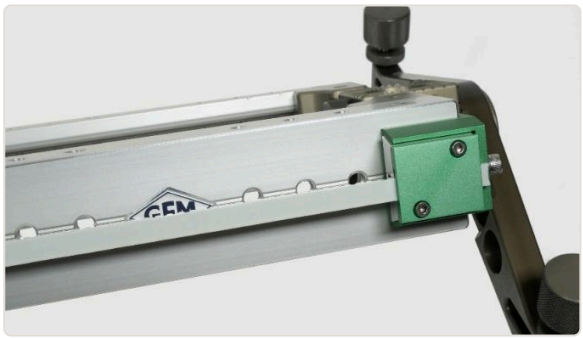
01 Check the kit

Each kit contains the slider motor, a carriage mount bracket, a motor mount bracket, the hand control unit, the power box, a 25 ft and a 10 ft command cable, two belt clamps (one red, one green) and the drive belt.

02 Fit the belt clamps

Looking at the slider, the red clamp goes on the left end and the green clamp on the right end. Each clamp attaches to the end of the slider with a 3/8"-16 bolt.

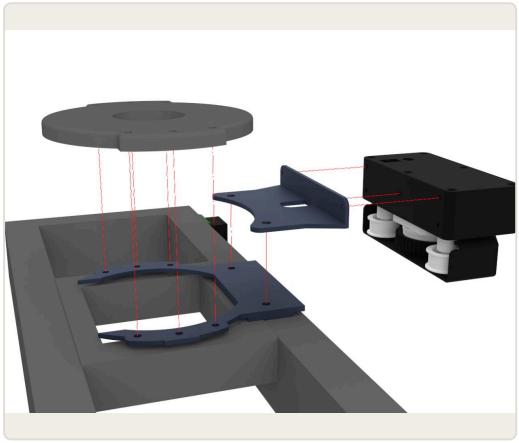




03 Fit the mount brackets

Attach the carriage mount bracket underneath the Mitchell plate or bowl fitting, as shown in the diagram. It is meant to stay on the carriage, so you can switch between motorised and manual by taking the motor off together with its motor bracket. The motor bracket fixes to the carriage bracket with the three supplied screws and can stay on the motor.

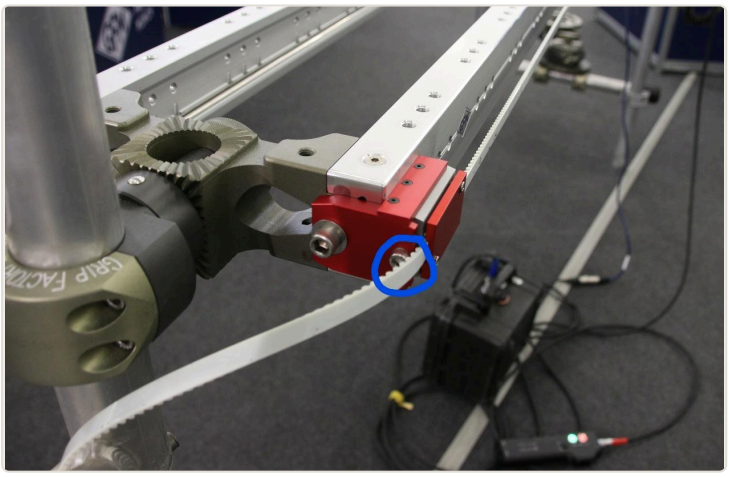
⚠ CAUTION Use the flanged screw in the centre hole. It keeps the clearance to the GFM base mounts.





04 Tension the belt

Fit the belt into the clamps at both ends of the slider, leaving enough room on the clamps to tighten them up. Tension the belt until there is no slack. Do not overtighten it, as this makes the drive noisier.



05 Connect motor and power box

Plug the command cable into the slider motor. Either socket works. Plug the other end into the power box. The power box carries an internal 10 A fuse (type 235, GGM or GMA equivalent). Pin 2 of the power input is positive, but a polarity changer inside means either polarity works.







06 Connect the hand control unit

Run a command cable from the power box to the hand control unit. The LED on the handset shows red while the system boots and turns green once it is ready.



07 Calibrate the motor

Press and hold the Calibrate button until the motor starts to move. It drives to one end of the slider until it cannot go any further, then to the other end until it hits the end stop, and backs off a short distance. The motor now knows where the ends are, so you cannot drive the carriage into the end stops by accident.

> ⚠ CAUTION Set Feather and Smooth to 1 before you calibrate.

08 Set your own end stops

You can set end stops anywhere along the travel with the Set End Stops buttons. The button LED lights up once a stop is set. Press the button again to clear the stop and the LED goes off. The Feather knob on the bottom of the handset controls the ramp into and out of the end stops.

09 Use the handset

The thumb joystick moves the carriage, and the Speed knob on the side sets how fast. Smooth, the second knob on the bottom, adds a soft start and stop when you let go of the joystick. Turned right down, the motor starts and stops quickly. With the lock switch on the back set to lock, the motor holds its position and ignores the joystick. The USB port connects the handset to the motion control software and is used for firmware updates.

✓ Ready for use

The motor is mounted, connected and calibrated.

Grip Factory Munich GmbH · Technical changes reserved.