

# FM 194-401 Tandem

## SmartMotion DC chain actuators



**Made in Germany**

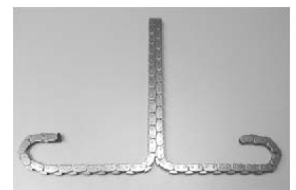
Functional Fenestration Inc (FFI) is an expert and leader in the American motorized actuator market, with a broad range of motors for windows, vents, and skylights. FFI has been providing motorized operators for natural ventilation since 1987, for institutional, commercial and residential applications.

### Benefits of motorized actuators

- Automated operation of multiple awning windows, hopper windows, casement windows, curtain wall vents, and skylights.
- Ideal for smart buildings; integrate with building and home automation systems.
- FM actuators are certified for Smoke and Heat Extraction (SHE).
- Natural ventilation enables lower energy consumption, lets in fresh air and daylight, enables LEED credit.
- Low voltage DC motors are energy efficient.

### Features

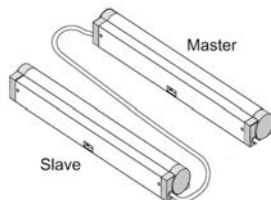
- Tandem is 2 actuators (master and slave) connected by a cable, designed for wide vents.
- The actuators can be mounted at any distance apart from each other on the vent.
- FM series is the strongest chain drive actuator offered in North America.
- Push/Pull Force up to 450 N (101 lb) for each actuator.
- Opening distance ranges from 194 mm to 401 mm approx., according to version.
- Multiple windows may be linked for simultaneous operation.
- Has stainless steel double zipper chain for rigidity and durability.
- Low-noise operation.
- Tight vent closure using electronic power cut-off.
- Chain must be manually adjusted at installation.
- This product is not UL Recognized or labeled. FM 501-800 Tandem is UL Recognized.
- Sash connectors/hinge brackets for FM are included with the actuator. Mounting brackets are optional; FM actuators can be mounted direct to frame or sill without mounting bracket kit, depending on the application. See FM Brackets & Accessories DataSheet for optional bracket kits.
- Actuators are available in standard grey, white, or black color.
- UL cable 1 meter included, black color.
- Tested to 10,000 cycles.
- 3-year manufacturer's warranty; requires use according to Installation Guide recommendations.



double zipper SST chain



sash connector/hinge bracket



X = length (tolerance +/- 1mm)	
at stroke	length
at 194–309 mm stroke	449 mm (17-11/16 in)
at 401 mm stroke	541 mm (21-5/16 in)

