

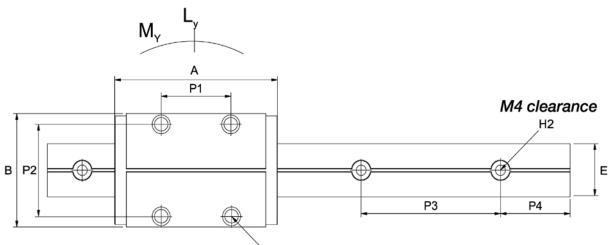
Model FG115

APPLICATIONS:

Enable motion and guidance along a linear rail. Ideal for harsh environments, corrosion and vibration resistant. Used in automation and motion control.

Model FG115

Linear Friction Guide Aluminum Rail **Aluminum Carriages** 900 lbf [4,000N] Max. Load



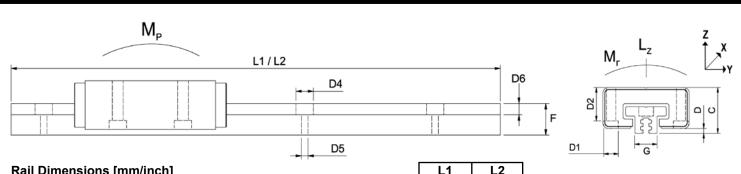
H1

*M5 Tapp / M4 clearance

Carriage Dimensions [mm/inch]

	Α	В	С	D	P1	P2	H1*	D1	D2
Metric (mm)	70	47	24	2.5	30	38	M5	8	17.5
Imperial (inch)	2.76"	1.85"	0.94"	0.10"	1.18"	1.50"	-	0.31"	0.69"

*Carriage holes are tapped for M5 hardware. Hole clearance allows for M4 or #8 hardware.



Rail Dimensions [mm/inch]

	E	F	G	L1	L2	P3	Р	4	H2	D4	D5	D6
Metric (mm)	22	14	12	1000	2000	60	20	40	M4**	8	4.3	5
Imperial (inch)	0.87"	0.55"	0.47"	39.37"	78.74"	2.36"	0.79"	1.57"	#8	0.31"	0.17"	0.197"

**Rail fixing hole clearance allows for M4 or #8 hardware with head width of 0.31" and height of 0.197".

Technical Data

	Static Load			Static Moments			Temp Range	
	Ly	Lz	-Lz	Му	Mr	Мр	Min	Max
Metric (mm)	2 kN	4 kN	4 kN	10 Nm	10 Nm	10 Nm	-10C	+90C
Imperial (inch)	450 lbf	900 lbf	900 lbf	88.5 in-lbs	88.5 in-lbs	88.5 in-lbs	14F	194F

Product Specifications

Rail Carriage Chassis	Aluminum 6063 –T6 Hard Anodized				
Friction Elements	Advanced Technical Polymer				
Polymer Elements	Acetyl				
Metal Components	Stainless Steel/Leaded Brass				
" & 78.74" [1m and 2m] illed holes-according to ISO 12090	Max. Load Rating: 900 lbf [4000N] Deviation: .039" [1mm]				

Rail length:	39.37" & 78.74" [1m and 2m]
	Predrilled holes-according to ISO 12090
Mount:	Side, flat, vertical
Hardware:	M5 Tapped/M4 Clearance (not provided)

Max. Load Rating:	900 lbf [4000N]
Deviation:	.039" [1mm]
Lubrication:	100% self-lubricated

Carriage Types



Non-Adjust The non-adjustable carriage does not offer adjustment of the movement or clearances.

Manual Adjust

The manual adjust carriage can be fine tuned with an allen key to set the perfect clearance or preload for your application.



The auto adjust carriage offers constant preload force that will continue to operate throughout the life of the product.

Description	Non-Adjust Carriage	Manual Adjust Carriage	Auto Adjust Carriage			
Model Number	FG115-CASSNA	FG115-CASSMA	FG115-CASSAA			
Size	ISO Standard 12090					
Friction Element	Advanced Technical Polymer					
Clearance	± .005" [0.125mm] (Y & Z)	Adjustable ± .012" [0.30mm] (Y) ± .010" [0.25mm] (Z)	N/A			
Preload	N/A	Adjustable up to 6.74 lbf [30N]	1.01 lbf (± .2 lbf) [4.5N (± 1N)]			
Accuracy	± .018" [0.45mm] (Y) ± .019" [0.475mm] (Z)	± .027" [0.675mm] (Y) ± .030" [0.75mm] (Z)	± .027" [0.675mm] (Y) ± .030" [0.75mm] (Z)			
Weight	3.25oz [92g]	3.49oz [99g]	3.39oz [96g]			

Lifespan

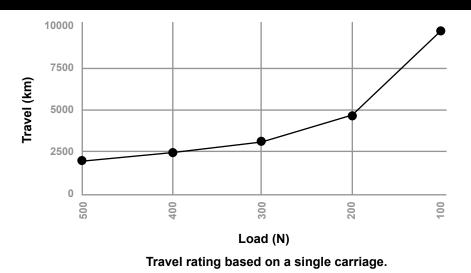
Ultra Low Wear

Wear is measured by total travel distance.

Data taken under constant speed of 1m/s and at ambient temp of 20°C.

Off center loads will apply additional wear.

Environment, temperature, and speed can affect performance. Please test products to your specific requirements.



Installation

Rail:

- 1. Cut rail to the determined length, or butt multiple rails together for a longer span (misalignment will result in excessive wear).
- 2. Using the predrilled holes secure rail using M5 Tapped / M4 Clearance (not provided).

Note: For optimal performance use all fixing holes.

Carriages: Use one or multiple carriages.

Non-Adjust (FG115-CASSNA):	Tension between the rail and the carriage can't be adjusted.
Manual Adjust (FG115-CASSMA):	Tension between the rail and the carriage can be manually adjusted by via a standard allen wrench (not provided).
Auto Adjust (FG115-CASSAA):	Tension between the rail and the carriage is preset via plastic pins (included). Internal springs provide constant and consistent tension.

Misalignment with Multiple Tracks

It is recommended to use Non-Adjust Carriages on one side of a parallel track system to compensate for any potential misalignments. The free floating Non-Adjust Carriage will act as a guide.

Packaging

Rail and carriages are packaged and sold singly. Fasteners and technical sheets are not included.

Auto Adjust Carriage includes spring load tool pins required for installation.

Components

FG115-0100T:	39.37" [1m] Aluminum Rail
FG115-0200T:	78.74" [2m] Aluminum Rail
FG115-CASSNA:	Carriage – Non-Adjust
FG115-CASSMA:	Carriage – Manual Adjust
FG115-CASSAA:	Carriage – Auto Adjust

Order Example

Complete yo following:	our Frictio	n Guide order by speci	fying the
-	QTY	P/N	Length
Total Rails	10 ea	FG115-0100T	39.37"
Total	QTY	P/N	Туре
Carriages	20 ea	FG115-CASSAA	Auto-Adjust

NOTE: Specifications, materials, prices, terms, and delivery are subject to change without notice.



ACCURIDE INTERNATIONAL INC. 12311 Shoemaker Avenue Santa Fe Springs, CA 90670 TEL (562) 903-0200 FAX (562) 903-0208 www.accuride.com

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