

Uni-guide

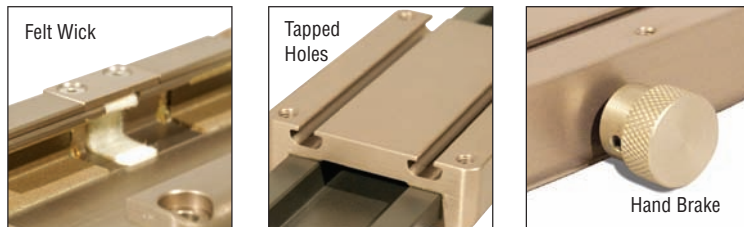
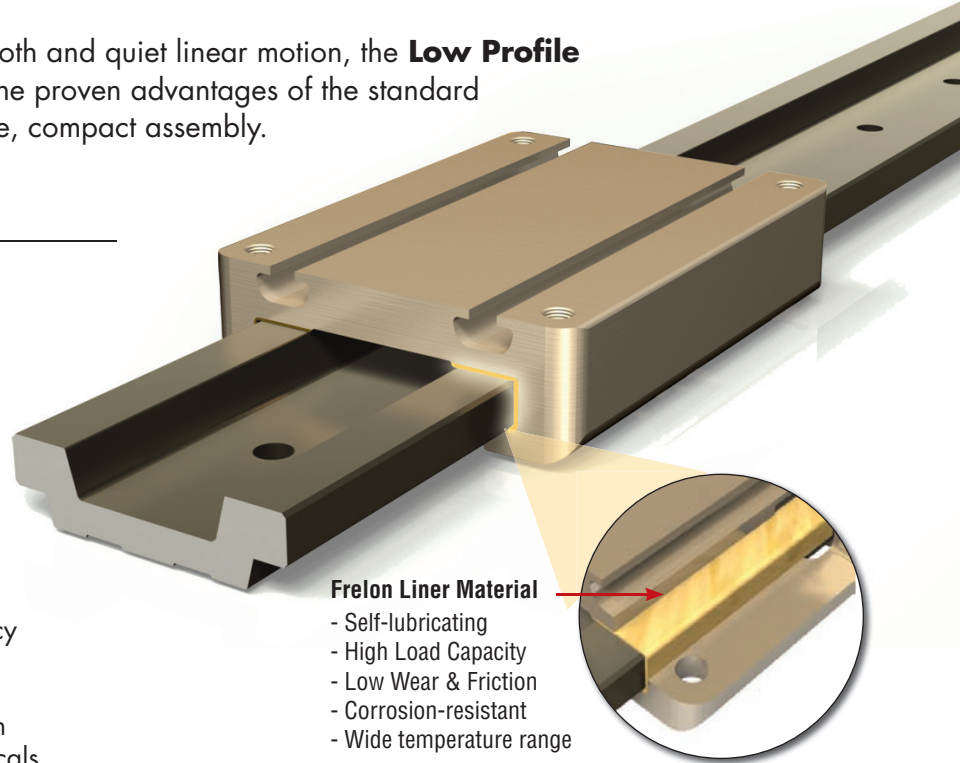
LOW PROFILE

NEW

A new solution for oil-free, smooth and quiet linear motion, the **Low Profile Uni-Guide (UGA)** maintains the proven advantages of the standard two-piece Uni-Guide in a simple, compact assembly.

FEATURES & BENEFITS

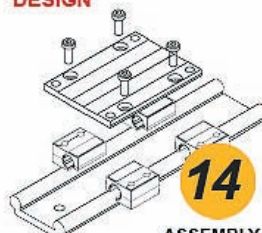
- Compact Design**
 24mm height profile fits into tight spaces.
- Performance Advantage**
 Frelon® self-lubricating liner provides low wear, high load capacities and maintenance-free operation. Available in three liner options.
- SIMO® Process**
 PBC Linear's patent pending milling operation creates a precision machined rail and carriage surface - tight tolerances and alignment accuracy
- Wash Down Optimized**
 Angled rail design ensures optimum wash down and prevents buildup of particulates and chemicals
- Product Interchangeable** - Easy drop-in replacement
- Mounting Flexibility** - pre-drilled tapped holes and t-slots provide mounting flexibility and ease of assembly
- Splatter Proof** – hard anodized aluminum prevents contaminants from sticking



DESIGN OPTIONS

- Standard or Extended Length Carriage
- Additional Tapped Holes for Easy Mounting
- Internal Lubrication via Felt Wick
- Hand Brake for Holding Position

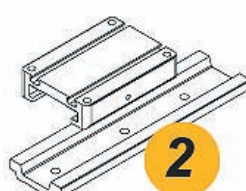
SIMILAR COMPETITOR DESIGN



14

ASSEMBLY COMPONENTS

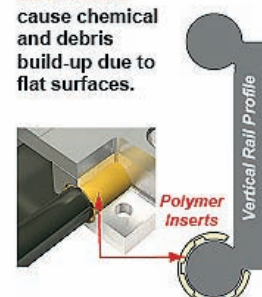
Uni-guide
LOW PROFILE



2

ASSEMBLY COMPONENTS

NO ANGLED RAIL SURFACES
cause chemical and debris build-up due to flat surfaces.




Polymer Inserts

Vertical Rail Profile

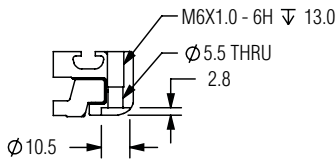
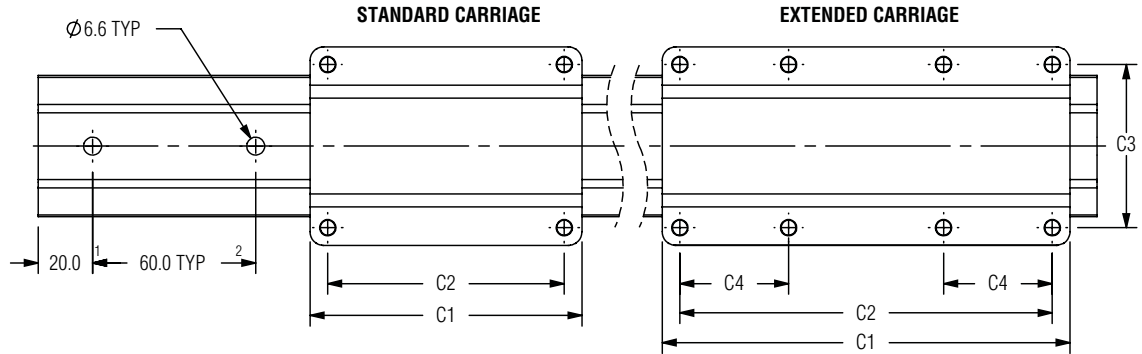
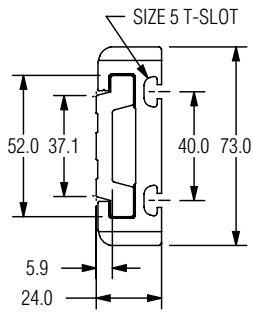
Grooves in polymer inserts collect particles which can lead to bacteria growth and contamination.

SIMO

PRECISION ANGLED RAIL SURFACE
Sloped surface provides optimum washdown performance.



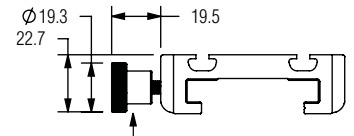
DIMENSIONAL INFORMATION



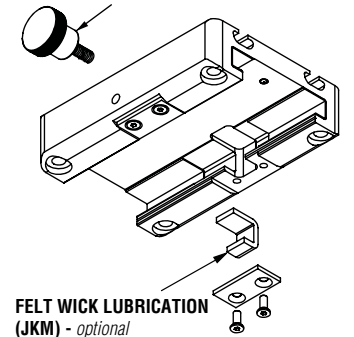
MATERIALS

Anodized aluminum rails and carriage plate
 Working Temperatures: -400°F/+400°F
 -240°C/+204°C
 Coefficient of Friction: 0.1 - 0.2
 Frelon® GOLD, J or W liner available

CARRIAGE ACCESSORIES



CARRIAGE HAND BRAKE (CHB) - optional



FELT WICK LUBRICATION (JKM) - optional

CARRIAGE PART#	RADIAL	AXIAL	AXIAL	ROLL	PITCH	YAW	STANDARD CARRIAGE (MM)				
	F _y (N)	F _z (N)	F _z (N) Inverted	M _x (N-m)	M _y (N-m)	M _z (N-m)	C1	C2	C3	C4	lbs. (kg)
UGA040C-0x1xxx	4900	8200	2700	120	170	170	100	87	60	N/A	.504 (0.23)
UGA040C-1x1xxx	5700	6600	2700	120	290	290	EXTENDED CARRIAGE				
							150	137	60	40	.750 (0.34)
UGA040C-2x1xxx	6100	4900	2700	120	290	290	200	187	60	60	1.014 (0.46)

1 N=0.2248 lbf 1 N-m = 0.7376 ft.-lbs.

ORDER INFORMATION

UG	A	040	R	-	XXXX	-	X	X	X
-----------	----------	------------	----------	---	-------------	---	----------	----------	----------

Ex: UGA040R-0300-000
UGA040C-0P1G00

UNI-GUIDE	SERIES	INT/EXT SIZE	IDENTIFIER	RAIL LENGTH	ANODIZING ³	HOLE PATTERN	VERSION
	A = Standard	040 = 40mm	R = Rail	0000-3650mm	0 = Standard 1 = Clear	0 = Standard (60mm)	0 = Standard

UG	A	040	C	-	X	X	X	X	X	X
-----------	----------	------------	----------	---	----------	----------	----------	----------	----------	----------

UNI-GUIDE	SERIES	INT/EXT SIZE	IDENTIFIER	CARRIAGE LENGTH	RUNNING CLEARANCE	CARRIAGE HEIGHT	FRELON® TYPE ³	CARRIAGE OPTIONS	VERSION
	A = Standard	040 = 40mm	C = Carriage	0 = 100mm 1 = 150mm 2 = 200mm	P = Precision C = Compensated	1 = Tall w/t-slots	G = Frelon Gold E = Frelon J W = Frelon W	0 = None ⁴ 1 = CHB (hand brake) 2 = JKM (tube option) 3 = Both	0 = Standard

Notes: ¹Default end to first hole is 20mm

²60mm hole spacing provided for higher moment capacity. For low moment applications, every other hole may be used.

³Frelon® GOLD must be paired with standard anodized rail. Frelon J and Frelon W must be paired with clear anodized rail.

⁴"None" carriage option is ready to accept both CHB and JKM options for after market addition.

Product information and 2D/3D CAD drawings available for download at uniguide.pbclinear.com
 For technical information or question please call 1-800-962-8979.