PBC Linear Integral-V Technology Linear Guide Components & Systems CELEBRATING AAG **AAB** AAQ **AAW** Configure Online at

pbclinear.com 1-800-962-8979

What Makes Integral-V Technology Different?

1/2 Hour Installation

2 COMPONENTS 90 COMPONENTS

2 Hour Installation

Integral-V

VS.

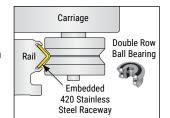
Profile Rail



- 1. Drill and tap machine plate for Integral-V
- 2. Securely fasten Integral-V to machining plate

Advantages of IVT

Fewer components:
 Hardened stainless steel
 v-raceways embedded into
 durable anodized aluminum
 rails eliminate fasteners
 and reduce mounting
 components by 40%



- High speeds: Max speed of 10 m/s
- High accuracy: The SIMO[®] process provides qualified rail surfaces—resulting in extremely high accuracy without misalignments and added installation time.
- Standard lengths up to 3650 mm (consult factory for longer continuous length or joinable rails)
- "Roll-in" style t-nut, mounts rail to structural t-slot framing

Installation steps

- Drill and tap base plate holes along profile rail for installation
- 2. Clean and align rail with reference surface
- 3. Loosely secure profile rail to base plate surface
- 4. Tighten fasteners while continuously checking straightness and alignment
- Repeat processes 1–3 for second profile rail, also checking for parallelism
- 6. Install four runner-block sliders (two per rail)
- 7. Align runner blocks to corresponding mate (check for parallelism)
- 8. Install carriage plate onto carriages, check alignment
- 9. Attach carriage plate to carriage with fasteners

Bill of Material

Qty	Description	Cost
1	2 m IVT Rail	\$291.00
1	Carriage Assembly	\$230.00
0.5 hou	rs of labor to assemble @ \$36.00/hr	\$18.00

Total Cost

*Based on 2 meter general linear guide application



Bill of Material

Qty	Description	Cost
82	Fasteners	\$28.00
2	15 mm Rails (2 m long)	\$528.00
4	15 mm Carriages	\$184.00
1	Base Plate	\$300.00
1	Carriage Plate	\$50.00
2 hour	rs of labor to assemble @ \$36.00/hr	\$72.00

Total Cost \$1162.00

Flexibility to Meet Application Requirements

- SIMO machined for precision qualified rail surfaces within 0.050 mm (0.002")
- · Handles radial bearing loads up to 10020 N (2252 lb)
- Multiple configurations provide pre-aligned, high performance v-wheel guidance for a wide range of applications



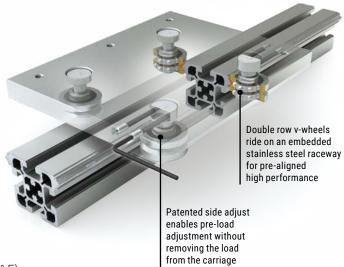
What Makes Integral-V Technology Different?

Easy Installation

Integral-V runs along a pre-aligned, precision-machined anodized aluminum rail with high performance, hardened steel v-wheel cam rollers eliminating mounting components and dramatically cutting assembly time.

Installation and Mounting Features

- · Features t-slots for:
 - Rack and pinion mounting without drilled and tapped holes
 - Mounting of gussets in the corners
 - Accessory mounting such as sensors, wire ties, etc.
- End mounting features (AAG and ABK): use of lag bolts from the ends
- · Lubrication, rail scraper, and wheel cover options available
- Applications requiring stainless rollers should consult factory
- Operating temperature range from -20° C to 80° C (-4° F to 176° F)





Link to the Integral-V Technology overview video.



Simultaneous Integral Milling Operation

PBC Linear has revolutionized traditional machining with the SIMO[®], or Simultaneous Integral Milling Operation, process. The SIMO process uses synchronized cutters, eliminating built-in extrusion variances by machining all critical edges concurrently in one pass. This ensures tight tolerances, limited variance and a remarkably straight and repeatable surface at negligible additional cost!



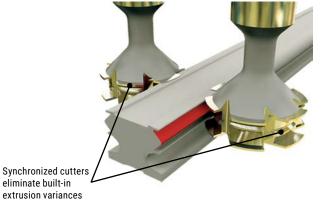
Machined Precision at Extrusion Prices

- · Rigid, accurate, repeatable
- Low cost
- · Machined rail edges can be used as a reference when mounting





Link to the SIMO process video.





Compare SIMO vs. Standard Aluminum Extrusion

Standard Aluminum Extrusion

Straightness (Camber) 0.0125 in/ft (1 mm/m) Twist 1/2° per ft (1.5° per m) Fatness 0.004 in (0.10 mm)

⇒ 6 TIMES BETTER ⇒ ⇒ 2 TIMES BETTER ⇒

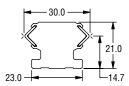
⇒ 2 TIMES BETTER ⇒

SIMO

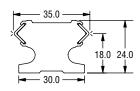
± 0.002 in/ft (0.166 mm/m) < 1/4° per ft (0.82° per m) 0.002 in (0.0508 mm)

Integral-V Technology

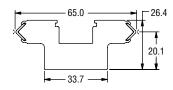
IVT AAN Page 8

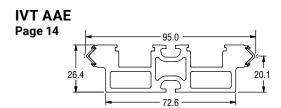


IVT AAW Page 10



IVT AAB Page 12

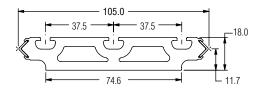




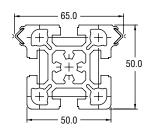
SIMO Enabled systems

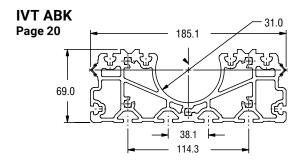
- Machined precision at extrusion prices
- Rigid, accurate, repeatable
- · Low cost
- · Machined rail edges can be used as a reference when mounting

IVT AAQ Page 16



IVT AAG Page 18

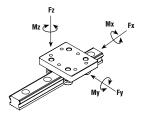




Fd = Dynamic capacity (LC) Fz = Axial capacity Fy = Radial capacity Mx, My, Mz = Moment capacities

Conversions

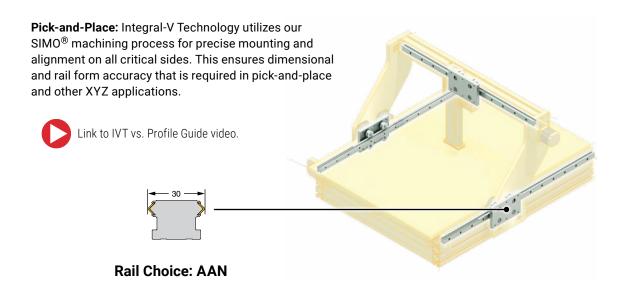
newton (N) x 0.2248 = lb. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lb.

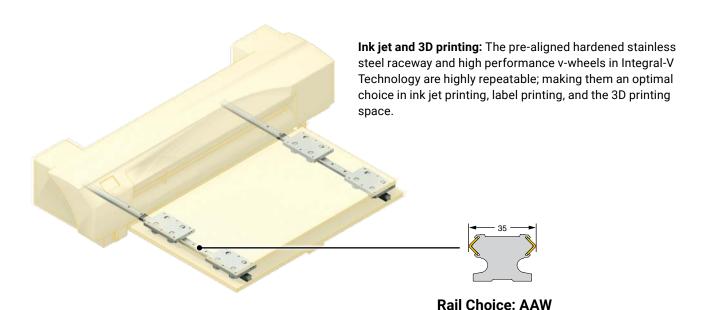


		STATIC	LOAD RAT	INGS**			DYNAMIO	C LOAD RA	TINGS**		RAIL MO	OMENTS ERTIA	RAIL	MAX RAIL
SERIES	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	WEIGHT	LENGTH
	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	KG/M	MM
IVTAAN	1960	1200	16	36	59	2480	1490	20	45	74	1.7	2.1	1.30	3657
IVTAAW	8900	5560	39	278	445	10020	6150	93	308	501	2.8	3.8	1.65	3657
IVTAAB	8900	5560	171	348	556	10020	6150	190	384	626	5.5	25.4	2.77	3048
IVTAAE	8900	5560	255	487	778	10020	6150	282	538	877	6.0	74.8	2.74	3657
IVTAAQ	8900	5560	283	487	778	10020	6150	313	538	877	3.4	91.9	3.06	3657
IVTAAG	8900	5560	171	348	556	10020	6150	190	384	626	29.7	34.9	3.36	3657
IVTABK	8900	5560	506	390	623	10020	6150	559	431	701	175	1300	10.1	3657

*Weight may vary slightly depending on carriage options. **Load ratings are based on standard carriage.

Small to Medium IVT

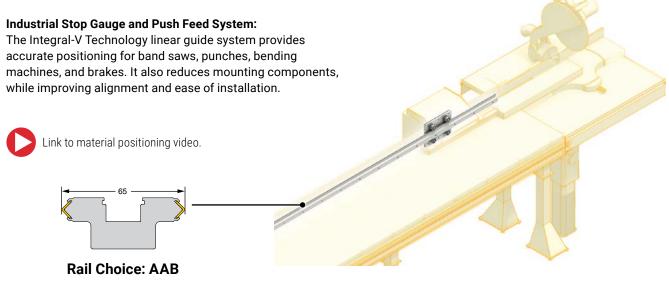


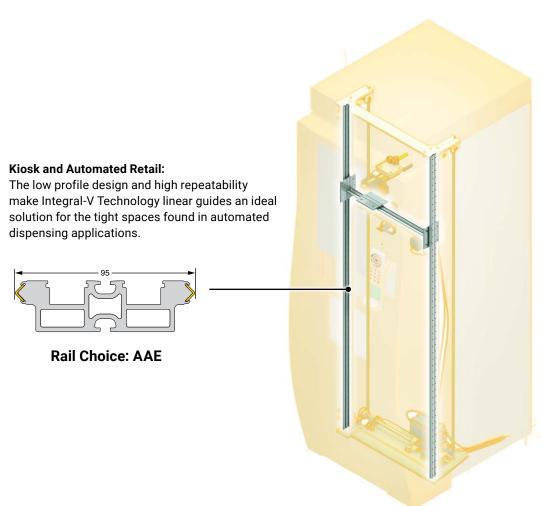


Small to Medium IVT

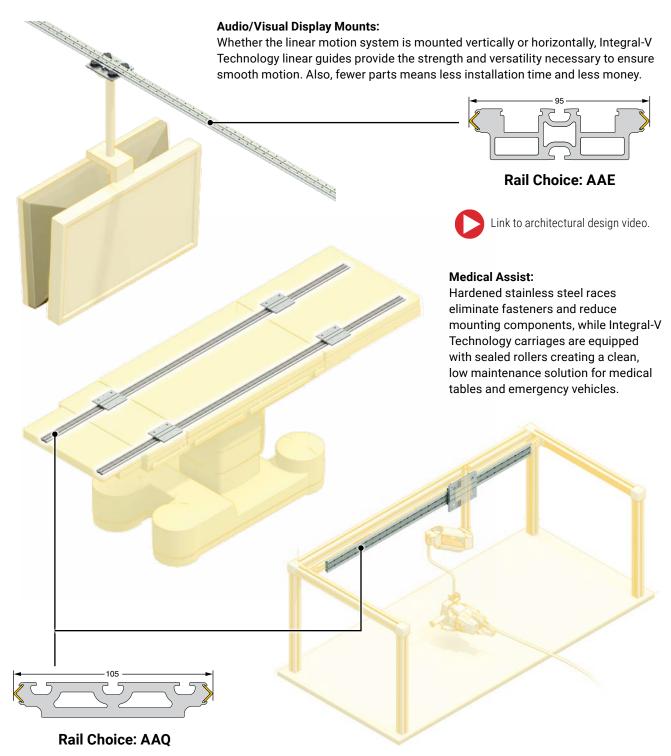
Medium to Large IVT

Large to Extra-Large IVT





Large to Extra-Large IVT



Link to ergonomic application video.

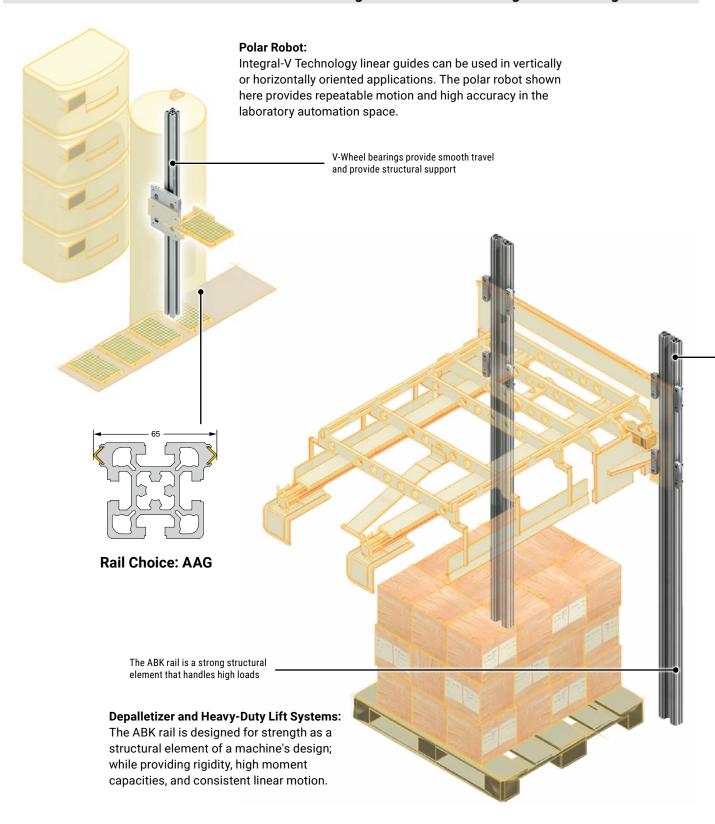
Ergonomic Assist:

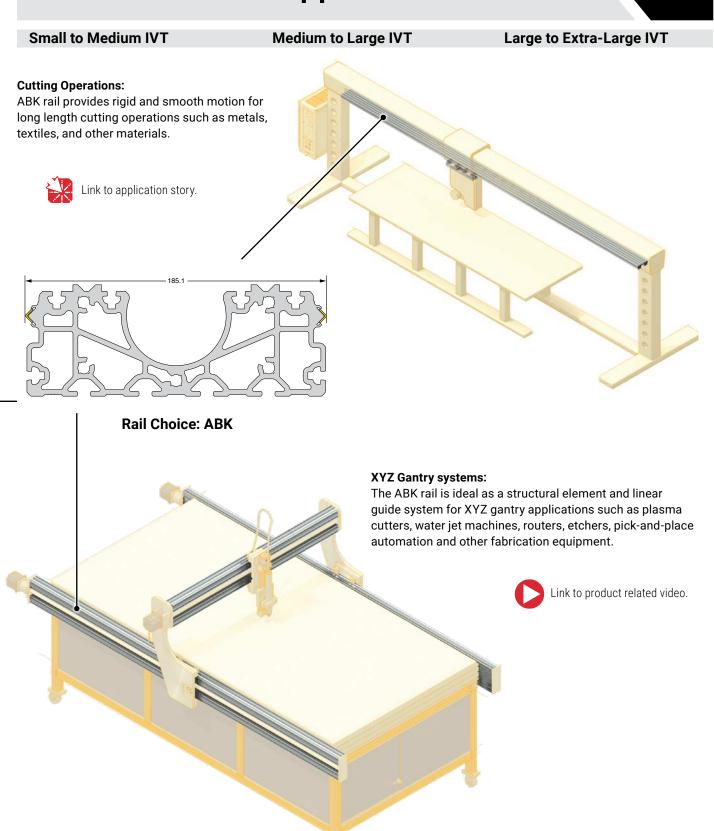
The Integral-V Technology linear guide system handles moment loads and provides smooth, low friction motion for hand tools in manufacturing and assembly operations.

Small to Medium IVT

Medium to Large IVT

Large to Extra-Large IVT

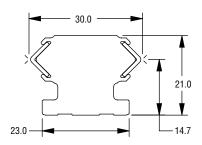




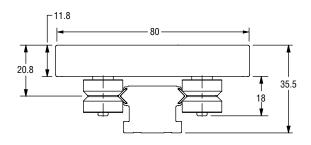
AAN Linear Guide

RAIL

1:1 Scale



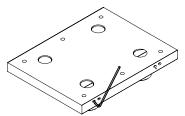
CARRIAGE



ACCESSORIES

Patented Preload Adjustment

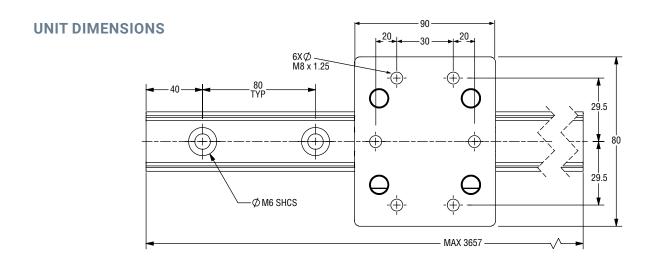
Standard Side (CAM) Adjustable



Frame Size (TYP) Frame T-Slot Size Screw Length*		ecommended Mounting Fi n mounted to aluminum ex												
MC v. 10 mm CU00	Frame Size (TYP)	Frame Size (TYP) Frame T-Slot Size Screw Length*												
25 x 25 6 M6 x 10 mm SHCS T-Nut Part No. 6100435														



^{*}Recommended screw length when bolting IVT rail to structural framing via a t-nut.

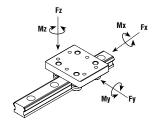


AAN Linear Guide

Specifications

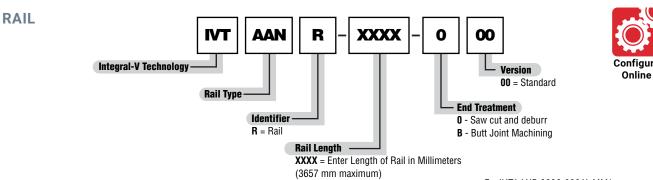
	Number	•		Static	Load Rat	tings			Dynami	ic Load R	atings		Mome Ine	ents of rtia	Rail	MAX Rail
Series	of Rollers	Weight	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
		kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
IVTAAN	4	0.35	1960	1200	16	36	59	2480	1490	20	45	74	1.7	2.1	1.30	3657

*Weight may vary slightly depending on carriage options.

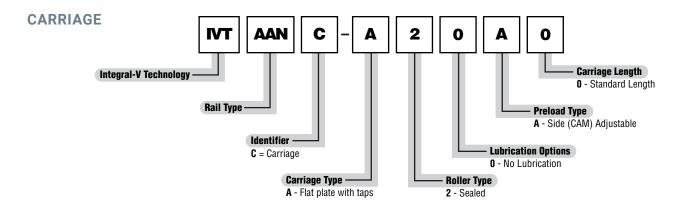


Fz = Axial capacity Fy = Radial capacity Mx, My, Mz = Moment capacities Conversions newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lbs.

Ordering Information



Ex: IVTAANR-3000-000 Y=MM* Specify Y-dimension (hole to end) at time of order. Specify length at time of order.

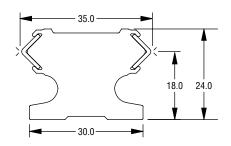




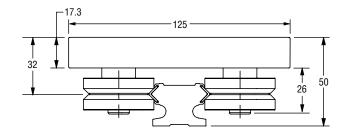
AAW Linear Guide

RAIL

1:1 Scale



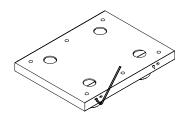
CARRIAGE



ACCESSORIES

Patented Preload Adjustment

Standard Side (CAM) Adjustable



	Recommended Mounting Frame (when mounted to aluminum extrusion)											
Frame Size (TYP)	Frame Size (TYP) Frame T-Slot Size Sci											
30 x 30	6	M6 x 25 mm SHCS T-Nut Part No. 6100435										



Lubrication Accessories

- 1. Lube Holder
- 2. Wheel Cover



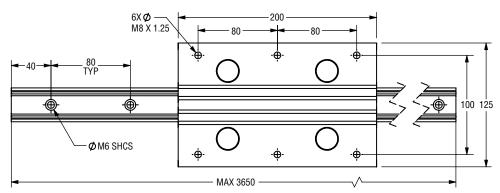
1. Polymer Lubricator IVT3LHA-KIT



2. Rail Scraper (Removable **ÎVT3WCA-KIT**

*Recommended screw length when bolting IVT rail to structural framing via a t-nut.

UNIT DIMENSIONS

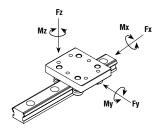


AAW Linear Guide

Specifications

	Number	Carriage		Static		Dynamic Load Ratings						Rail	MAX Rail			
Series	of Rollers	Weight	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
		kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
IVTAAW	4	1.54	8900	5560	39	278	445	10020	6150	93	308	501	2.8	3.8	1.65	3657

*Weight may vary slightly depending on carriage options.

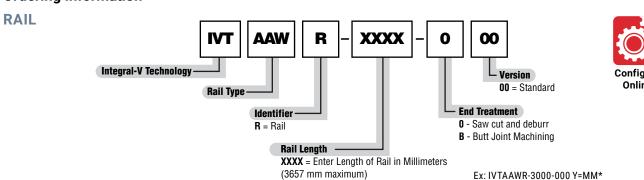


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Mx, My, Mz = Moment capacities

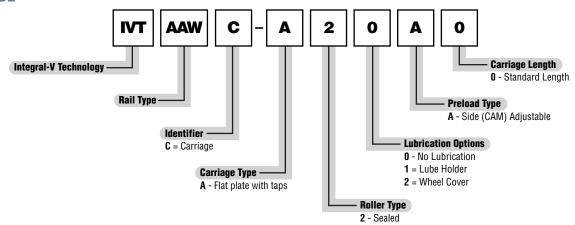
Conversions newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lbs.

Ordering Information



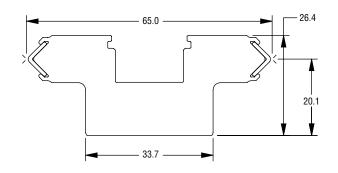
Specify Y-dimension (hole to end) at time of order. Specify length at time of order.

CARRIAGE



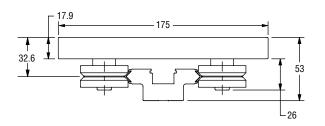


RAIL 1:1 SCALE





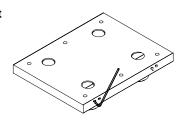
CARRIAGE



ACCESSORIES

Patented Preload Adjustment

Standard
Side (CAM) Adjustable



	Recommended Mounting Frame (when mounted to aluminum extrusion)												
Frame Size (TYP)	rame Size (TYP) Frame T-Slot Size Fram												
40 x 40	8	M8 x 22 mm SHCS T-Nut Part No. 6100436											
	I-Nu												



^{*}Recommended screw length when bolting IVT rail to structural framing via a t-nut.

Lubrication Accessories

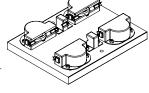
- 1. Lube Holder
- 2. Wheel Cover
- 3. Wheel Cover and Lube Holder



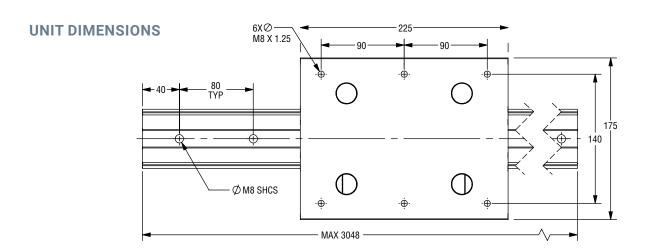
1. Polymer Lubricator IVT3LHA-KIT



2. Rail Scraper (Removable) IVT3WCA-KIT



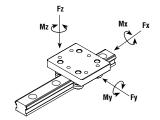
3. Wheel Cover and Lube Holder



Specifications

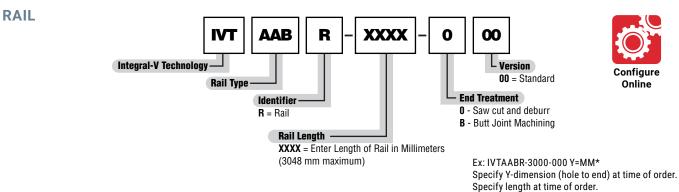
	Number	Carriage		Static	Load Rat	ings			Dynam	ic Load R	atings		Mome Ine		Rail	MAX Rail
Series	of Rollers	Weight	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
		kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
IVTAAB	4	2.42	8900	5560	171	348	556	10020	6150	190	384	626	5.5	25.4	2.77	3048

*Weight may vary slightly depending on carriage options.

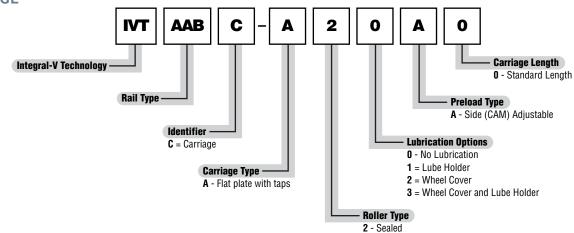


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Ordering Information



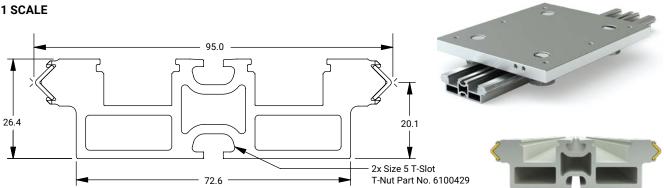
CARRIAGE



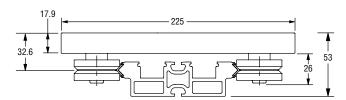


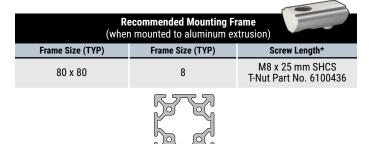
AAE Linear Guide

RAIL 1:1 SCALE



CARRIAGE





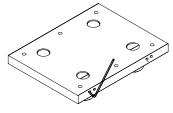
 $^{{\}bf *Recommended\ screw\ length\ when\ bolting\ IVT\ rail\ to\ structural\ framing\ via\ a\ t-nut.}$

ACCESSORIES

Patented Preload Adjustment

Standard

Side (CAM) Adjustable



Lubrication Accessories

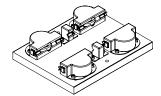
- 1. Lube Holder
- 2. Wheel Cover
- 3. Wheel Cover and Lube Holder



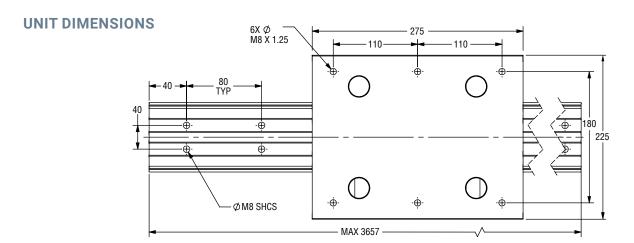




2. Rail Scraper (Removable) IVT3WCA-KIT



3. Wheel Cover and Lube Holder

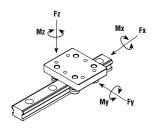


AAE Linear Guide

Specifications

	Number	Carriage		Static	ings		Dynami	ic Load R	atings		Mome Ine		Rail	MAX Rail		
Series	of Rollers	Weight	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
		kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
IVTAAE	4	3.47	8900	5560	255	487	778	10020	6150	282	538	877	6.0	74.8	2.74	3657

^{*}Weight may vary slightly depending on carriage options.



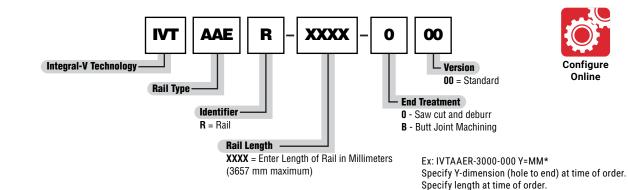
Fz = Axial capacity Fy = Radial capacity

Mx, My, Mz = Moment capacities

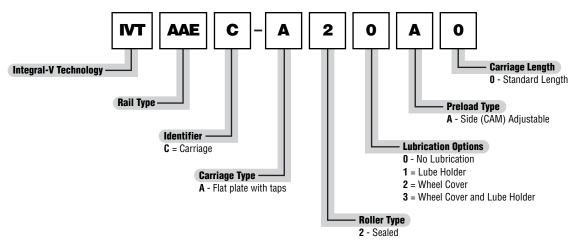
Conversions newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lbs.

Ordering Information

RAIL



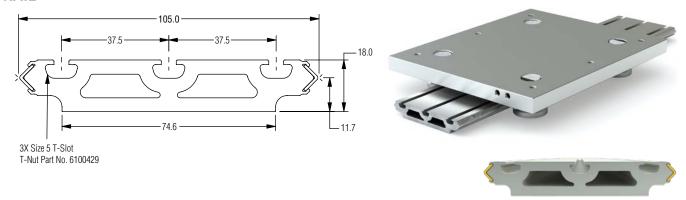
CARRIAGE



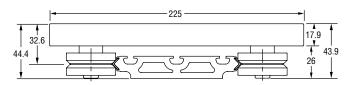


AAQ Linear Guide

RAIL



CARRIAGE



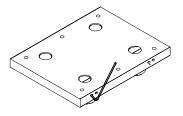
Recommended Mounting Frame (when mounted to aluminum extrusion) Frame Size (TYP) Frame T-Slot Size Screw Length* 80 x 80 8 M8 x 15 mm SHCS T-Nut Part No. 6100429

ACCESSORIES

Patented Preload Adjustment

Standard

Side (CAM) Adjustable



Lubrication Accessories

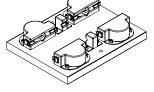
- 1. Lube Holder**
- 2. Wheel Cover**
- 3. Wheel Cover** and Lube Holder**



1. Polymer Lubricator IVT3LHA-KIT



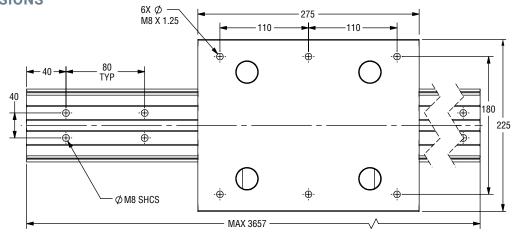
2. Rail Scraper (Removable) IVT3WCA-KIT



- 3. Wheel Cover and Lube Holder
- ** Wheel accessories extend below base of rail.

 Check for clearance or install spacer to base of rail to achieve needed clearance.

UNIT DIMENSIONS



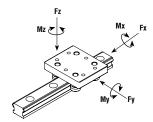
^{*} Recommended screw length when bolting IVT rail to structural framing via a t-nut.

AAQ Linear Guide

Specifications

	Number	Carriage		Static	Load Rat	tings			Dynam	ic Load R	atings			ents of ertia	Rail	MAX Rail
Series	of Rollers	Weight	Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
		kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
IVTAAQ	4	3.47	8900	5560	283	487	778	10020	6150	313	538	877	3.4	91.9	3.06	3657

*Weight may vary slightly depending on carriage options.



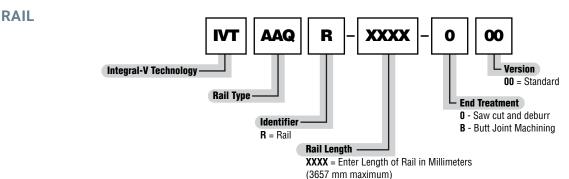
Fz = Axial capacity Fy = Radial capacity

Mx, My, Mz = Moment capacities

Conversions

newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lbs.

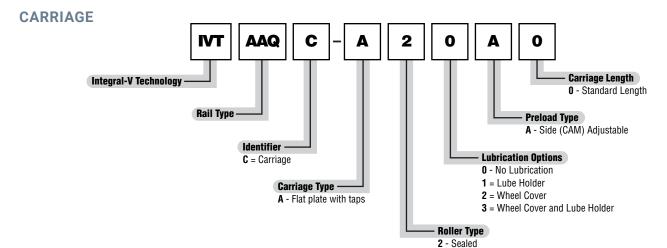
Ordering Information



Ex: IVTAAQR-3000-000 Y=MM* Specify Y-dimension (hole to end) at time of order. Specify length at time of order.

Configure

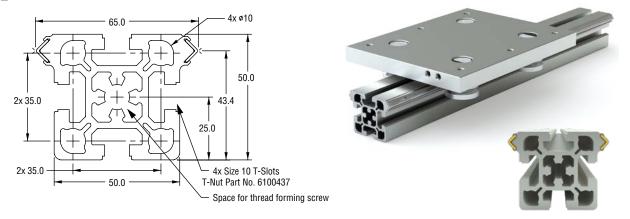
Online



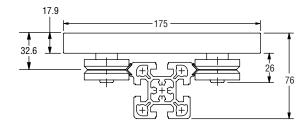


AAG Linear Guide

RAIL



CARRIAGE



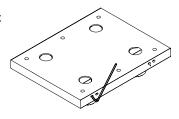
Recommended Mounting Frame (when mounted to aluminum extrusion)										
Frame Size (TYP) Frame T-Slot Size Screw Length*										
N/A N/A N/A										
No mounting frame necessary for AAG Rail										

ACCESSORIES

Patented Preload Adjustment

Standard

Side (CAM) Adjustable



Lubrication Accessories

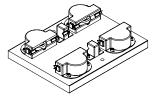
- 1. Lube Holder
- 2. Wheel Cover
- 3. Wheel Cover and Lube Holder



1. Polymer Lubricator IVT3LHA-KIT

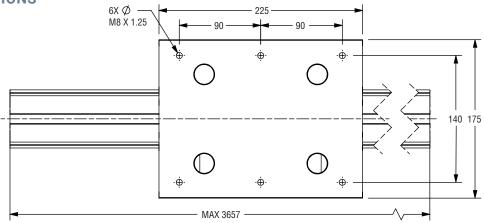


2. Rail Scraper (Removable) **IVT3WCA-KÍT**



3. Wheel Cover and Lube Holder

UNIT DIMENSIONS

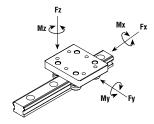


AAG Linear Guide

Specifications

		Number	Carriage Weight	Static Load Ratings					Dynamic Load Ratings						Moments of Inertia		MAX Rail
Sei		of ollers		Radial F _{oy}	Axial F _{oz}	Roll M _{ox}	Pitch M _{oy}	Yaw M _{oz}	RADIAL Fy	AXIAL Fz	ROLL Mx	PITCH My	YAW Mz	ly	lz	Weight	Length
			kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM ⁴	CM ⁴	kg/m	mm
IVT	AAG	4	2.42	8900	5560	171	348	556	10020	6150	190	384	626	29.7	34.9	3.36	3657

*Weight may vary slightly depending on carriage options.

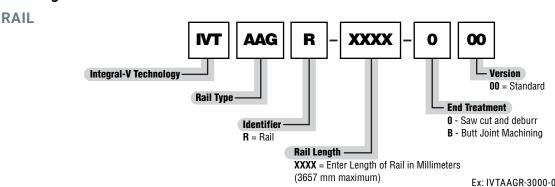


Fz = Axial capacity Fy = Radial capacity

Mx, My, Mz = Moment capacities

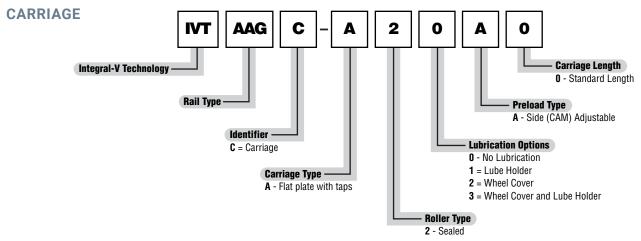
Conversions newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter $(N-m) \times 8.851 = in.-lbs$.

Ordering Information



Configure Online

Ex: IVTAAGR-3000-000 Specify length at time of order.





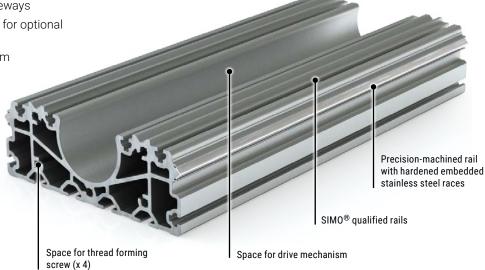
For Large Format Applications and Heavy Loads

Rail Features and Options

• Precision-machined anodized aluminum rail with hardened embedded 420 stainless steel raceways

• SIMO® qualified surface and t-slot for optional mounting of profile rail

- Space for optional drive mechanism
- Belt drive
- Ball screw drive
- Rack drive
- · Space for thread forming screw (x4)



Drive Options (See page 24 for details)







Bearing Options

V-Guide Bearing System (Standard)

- Embedded hardened stainless steel raceways reduce mounting components
- SIMO® machined for precision qualified rail surfaces
- · High load capacity
- · Optimized extrusion design provides a large scale structural member

Patented side adjust enables pre-load adjustment without removing the load from the carriage

Pre-aligned Profile Rail Guides

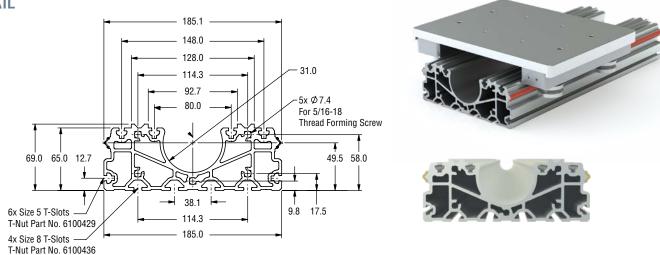
- · SIMO machined for precision qualified rail surfaces at extrusion prices
- Synchronized cutters eliminate built-in extrusion variances
- Pre-aligned profile rail option eliminates mounting and alignment problems cutting assembly time in half
- Machined rail edges can be used as a reference when mounting
- Optimized extrusion design provides a large scale structural member designed for high load capacities
- · Recirculating ball bearing blocks provide rigid performance
- · Accurate and repeatable with smooth and quiet operation
- · Low cost
- Designed for 20 mm wide profile rail
- · Consult factory for profile rail bearing options





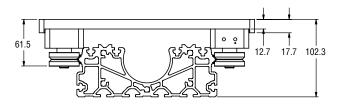


RAIL



CARRIAGE

- · Cam Roller Technology (CRT) v-guide bearing option shown
- · Consult factory for Profile Rail option.



Recommended Mounting Frame (when mounted to aluminum extrusion)										
Frame Size (TYP)	Frame T-Slot Size	Screw Length*								
N/A	N/A	N/A								

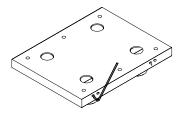
No mounting frame necessary for ABK Rail

ACCESSORIES

Patented Preload Adjustment

Standard

Side (CAM) Adjustable



Lubrication Accessories

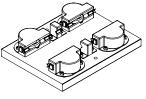
- 1. Lube Holder
- 2. Wheel Cover
- 3. Wheel Cover and Lube Holder



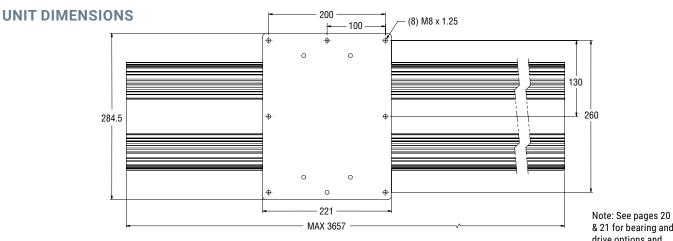
1. Polymer Lubricator IVT3LHA-KIT



2. Rail Scraper (Removable) **ÎVT3WCA-KÎT**



3. Wheel Cover and Lube Holder

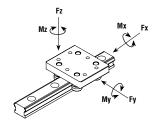


& 21 for bearing and drive options and mounting locations.

Specifications

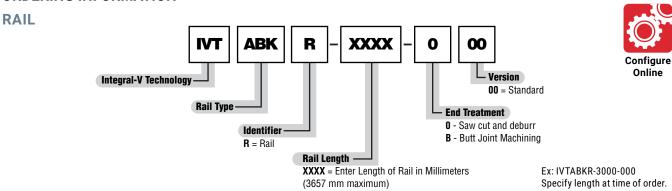
		Number of Rollers	Carriage Weight	Static Load Ratings					Dynamic Load Ratings					Moments of Inertia		Rail	MAX Rail
	Series			Radial Foy	Axial Foz	Roll Mox	Pitch Moy	Yaw Moz	Radial Fy	Axial Fz	Roll Mx	Pitch My	Yaw Mz	ly	lz	Weight	Length
			kg	N	N	N-M	N-M	N-M	N	N	N-M	N-M	N-M	CM4	CM4	kg/m	mm
Ī	IVTABK	4	4.3	8900	5560	506	390	623	10020	6150	559	431	701	175	1300	10.1	3657

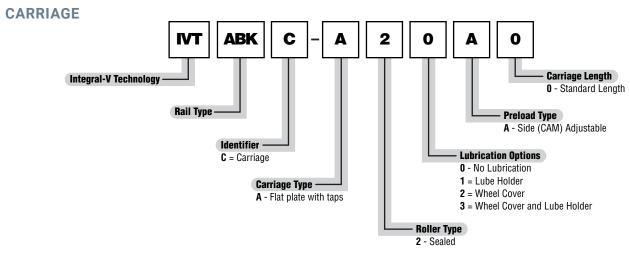
*Weight may vary slightly depending on carriage options.



Fz = Axial capacity Fy = Radial capacity Mx, My, Mz = Moment capacities Conversions newton (N) x 0.2248 = lbs. (mm) millimeter x 0.0397 = inch newton - meter (N-m) x 8.851 = in.-lbs.

ORDERING INFORMATION





Note: Lubrication is highly recommended for IVT Consult factory for profile rail version.



Conceptual ABK Driven System Platforms

Belt Drive

- · Ideal for use with V-Guide wheel bearings in high-speed applications
- Performs well in contaminated environments
- · Extrusion can support a variety of motor and idler end design configurations
- · Supports a variety of motor mounts
- Belt type: ATL 5-12 mm wide compatibility

Ball Screw

- · Rigid ball nut performance in high-precision applications
- Ball screw diameters 16-25 mm
- Does well in Z-axis and high thrust applications
- Extrusion can support a variety of motor and idler end design configurations
- · Supports a variety of motor mounts
- · Lead screw with polymer nut option

Rack Drive

- · Ideal for extended long length travel
- · Extrusion is compatible with Martin sprocket and gear RA12 or equivalent

Belt Driven System V-quide roller bearings Ideal for high speed applications

Bearing Options for All Drive Types

- Cam Roller Technology: V-Guide Bearings (standard)
- Profile Rail Technology: Profile Rail Guideways (customer installation)



Cam Roller Technology V-Guide Bearings

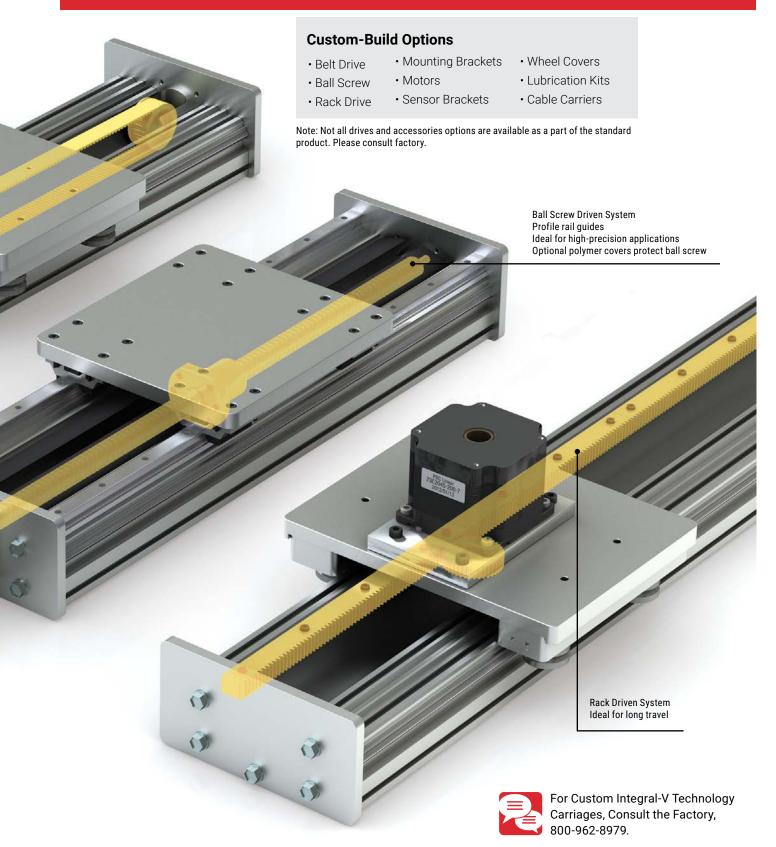


Profile Rail Technology **Profile Rail Guides**



Email an Application Engineer.

Contact Factory about Custom Carriage Orders





A Pacific Bearing Company

Engineering Your Linear Motion Solutions



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Range of Offerings





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