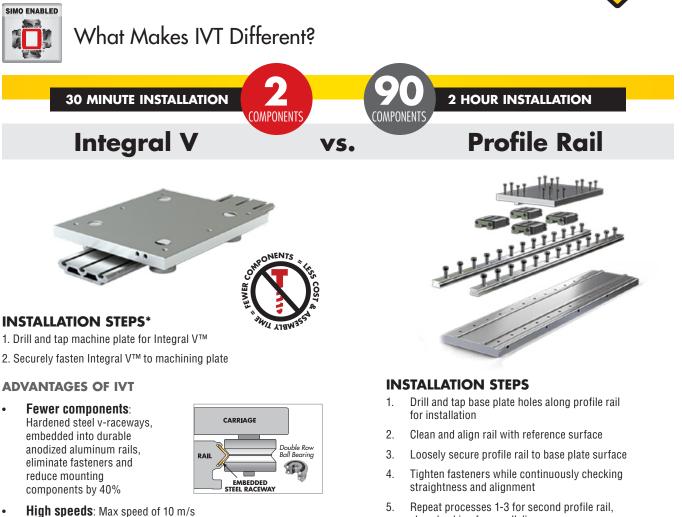
# Integral V Technology

Linear Guide System





- High accuracy: The SIMO<sup>®</sup> process provides qualified rail surfaces-resulting in extremely high accuracy, without mis-alignments and added installation time.
- Standard lengths up to 3,650 mm (Consult factory for longer continuous length or joinable rails)
- "Roll-in" style t-nut mounts rail to structural t-slot framing

### **BILL OF MATERIAL**

Qty	Description	Cost
1	2 m IVT Rail	291.00
1	Carriage Assembly	230.00
30 min	utes of labor to assemble @ \$36.00/hr	18.00

# **TOTAL COST**

\* Based on 2 meter general linear guide application

- Repeat processes 1-3 for second profile rail, 5. also checking for parallelism
- Install (4) runner-block sliders (2 per rail) 6.
- Align runner blocks to corresponding mate 7. (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
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 hours	of labor to assemble @ \$36.00/hr	72.00

**TOTAL COST** 

### \$1162.00

INTEGRAL

### FLEXIBILITY TO MEET APPLICATION REQUIREMENTS

SIMO<sup>®</sup> machined for precision qualified rail surfaces, to within .050 mm (.002")

\$539.00

- Handles loads up to 10,020 N (2,252 lbs)
- Multiple configurations provide pre-aligned, high performance v-wheel guidance for a wide range of applications (see application examples on pages 3-7)



Click here or visit www.pbclinear.com to read the IVT vs. Profile Rail whitepaper, "A Technical Comparison Between Integral V Technology and Linear Re-circulating Ball Bearing and Guideway Assemblies (Profile Rail)"



# What Makes IVT Different?

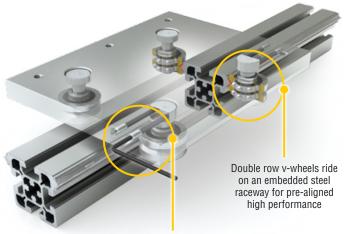


### **EASY INSTALLATION**

Integral V<sup>TM</sup> runs along a patent pending, pre-aligned, precision-machined anodized aluminum rail with high performance v-wheel cam rollers–eliminating mounting components and dramatically cutting assembly time.

#### INSTALLATION AND MOUNTING FEATURES

- · Feature 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



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



### SIMULTANEOUS INTEGRAL MILLING OPERATION

PBC Linear has revolutionized traditional machining with the patent pending SIMO<sup>®</sup> (Simultaneous Integral Milling Operation). 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!

### PATENT PENDING MACHINING PROCESS

#### **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



No Bow



## COMPARE SIMO VS. STANDARD ALUMINUM EXTRUSION



Straightness (Camber) Twist Flatness

#### <u>Standard Aluminum Extrusion</u> .0125 in/ft (1 mm/m) 1/2° per ft (1.5° per m)

.004 in (.10 mm)

 $\Rightarrow 6 \text{ TIMES BETTER} \Rightarrow$  $\Rightarrow 2 \text{ TIMES BETTER} \Rightarrow$  $\Rightarrow 2 \text{ TIMES BETTER} \Rightarrow$ 

<u>simo</u>

± .002 in/ft (.166 mm/m) < 1/4° per ft (.82° per m) .002 in (.0508 mm)

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1 4 8

1.48

2 56

+

1.38

1.97

5

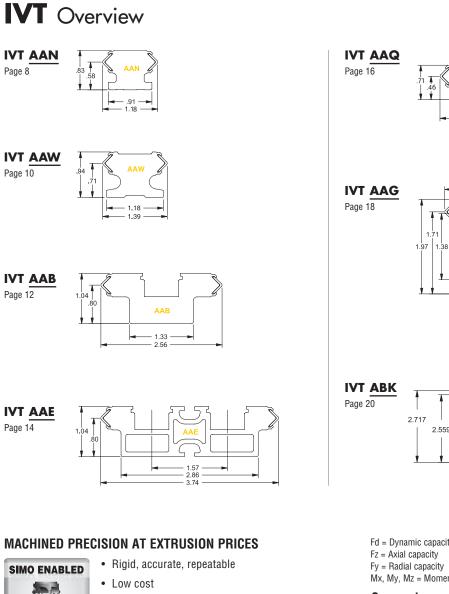
ψ

7.286

ABK

7.283

2.94 4.13

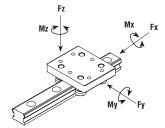


- Machined rail edges can be used as
  - a reference when mounting

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

#### Conversions newton (N) x 0.2248 = Ibs.

(lbf) meter  $\times 0.0397 = inch$ newton - meter (N-m) x 8.851 = in.-lbs.



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1.949

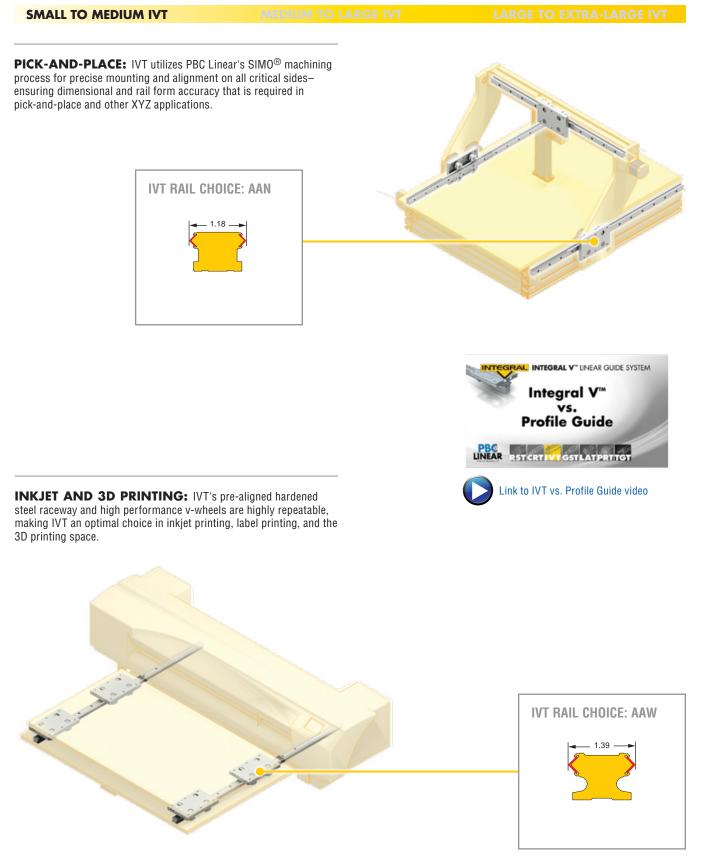
		Statio	c Load Ratii	igs**			Dynam	nic Load Rat	ings**		Rail Mome	nts of Inertia	Rail	Max Rail
SERIES	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Weight (kg/m)	Length (mm)
IVTAAN	1,960	1,200	16	36	59	2,480	1,490	20	45	74	1.7	2.1	1.30	3,657
IVTAAW	8,900	5,560	194	278	445	10,020	6,150	214	308	501	2.8	3.8	1.65	3,657
IVTAAB	8,900	5,560	171	348	556	10,020	6,150	190	384	626	5.5	25.4	2.77	3,048
IVTAAE	8,900	5,560	255	487	778	10,020	6,150	282	538	877	6.0	74.8	2.74	3,657
IVTAAQ	8,900	5,560	283	278	445	10,020	6,150	313	308	501	3.4	91.9	3.06	3,657
IVTAAG	8,900	5,560	171	348	556	10,020	6,150	190	384	626	29.7	34.9	3.36	3,657
IVTABK	8,900	5,560	599	390	1,154	10,020	6,150	662	431	1,300	175	1,300	10.1	3,657

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

### 2 LINEAR MOTION SOLUTIONS I www.pbclinear.com



# **Applications**



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# **Applications**

# SMALL TO MEDIUM IVT **MEDIUM TO LARGE IVT INDUSTRIAL STOP GAUGE & PUSH FEED SYSTEM:** The Integral V linear guide system provides accurate positioning for band saws, punches, bending machines, and brakes. IVT reduces mounting components, while improving alignment and ease of installation. Link to material positioning video **IVT RAIL CHOICE: AAB** KIOSK & AUTOMATED RETAIL: IVT's low profile design and high repeatability make it an ideal solution for the tight spaces found in automated dispensing applications. Link to kiosk & mechanical delivery systems video **IVT RAIL CHOICE: AAE**

4 LINEAR MOTION SOLUTIONS I www.pbclinear.com

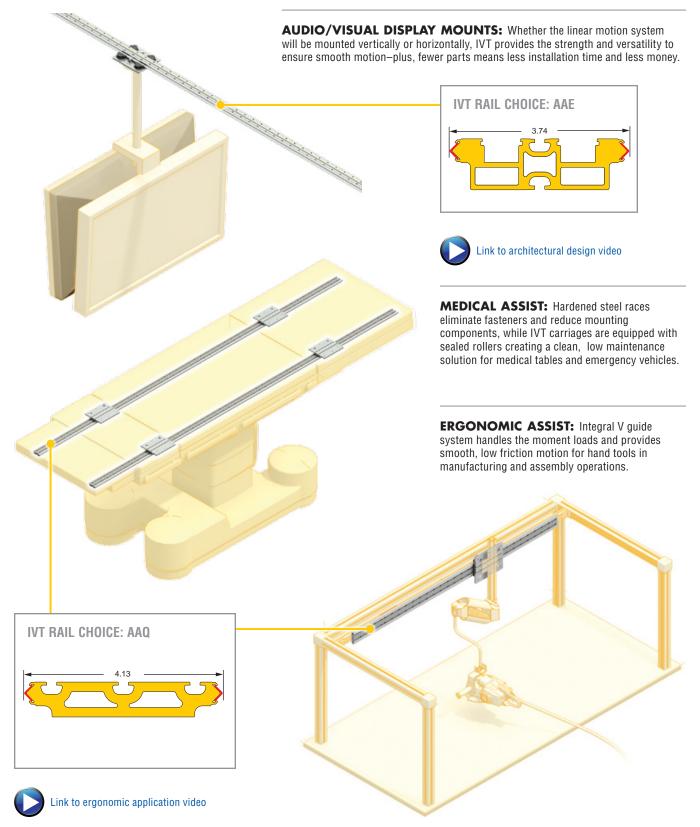




SMALL TO MEDIUM IVT

#### MEDIUM TO LARGE IVT

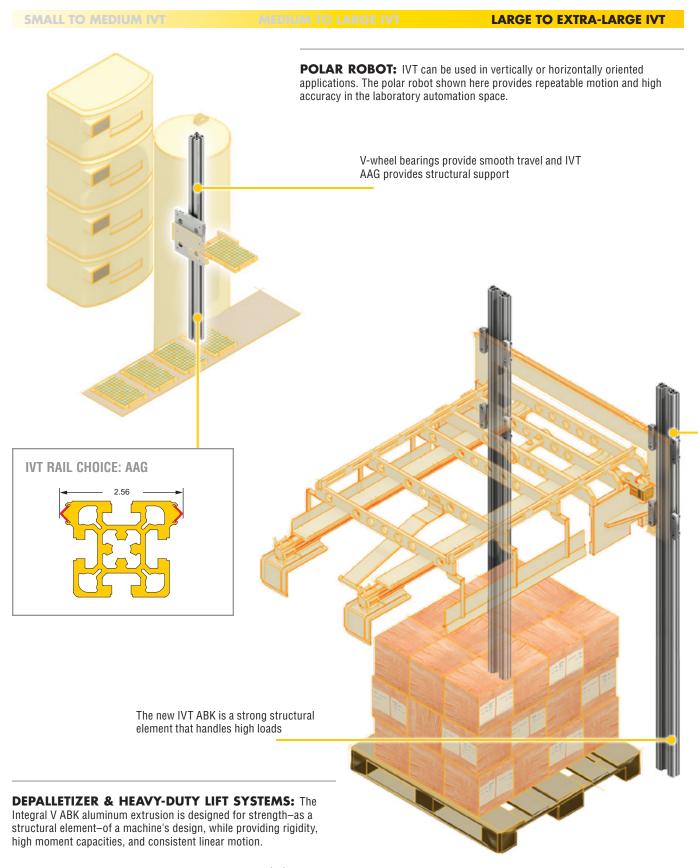
LARGE TO EXTRA-LARGE IVT



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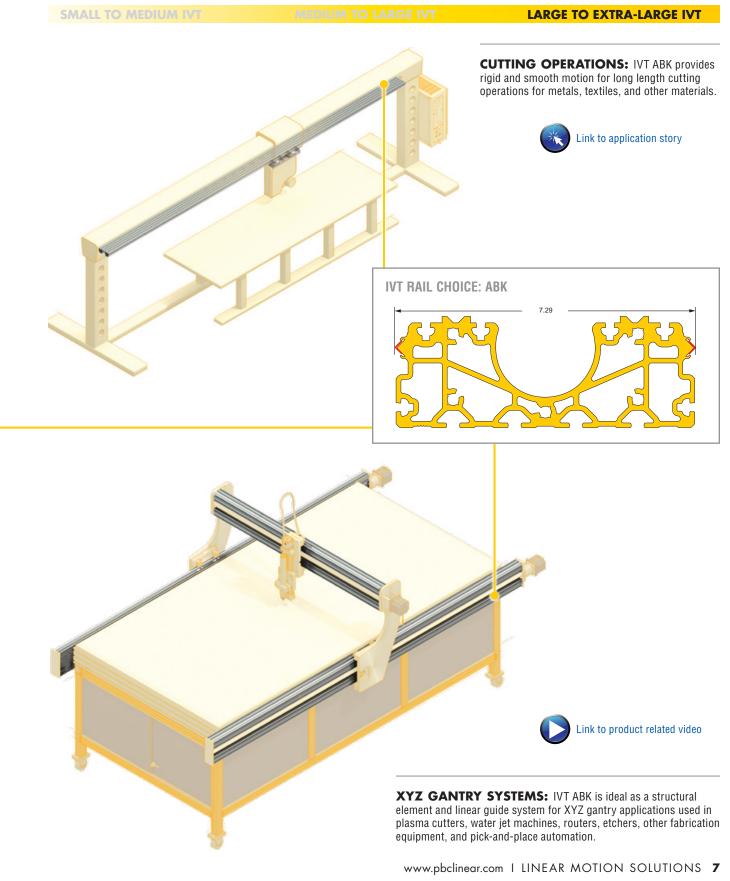
# **Applications**



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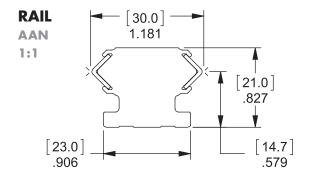


# **Applications**





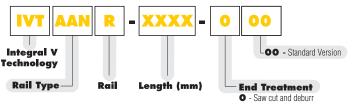
# IVT AAN





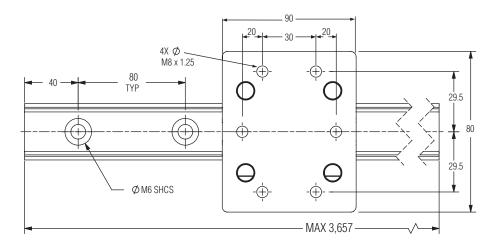


### **RAIL ORDERING INFORMATION**



Ordering Example: IVT AAN R - 1500 - 000; 1500 mm rail IVT AAN R - 0500 - 000; 500 mm rail \*Other options such as joinable rails, consult factory

RAIL LENGTHS TO 3,657 mm (12 ft)



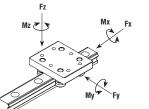
8 LINEAR MOTION SOLUTIONS I www.pbclinear.com



# IVT AAN

### **SPECIFICATIONS**

		6.	arriage		Static	Load Ra	itings			Dynam	ic Load I	Ratings		Rail	Moments	of Inertia	Max Rail
SERI	S Rolle	W	Veight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)
IVTAA	N 4		0.35	1,960	1,200	16	36	59	2,480	1,490	20	45	74	1.30	1.7	2.1	3,657
												*Weiq	ht may v	ary slightl	v dependin	g on carria	ige optio



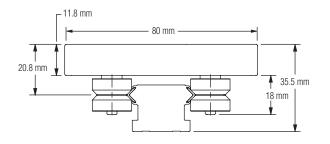
Fd = Dynamic capacity (LC) Fz = Axial capacity Fy = Radial capacity

Mx, My, Mz = Moment capacities

#### Conversions

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

### CARRIAGE

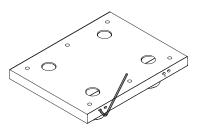


### **PRELOAD ADJUSTMENTS**

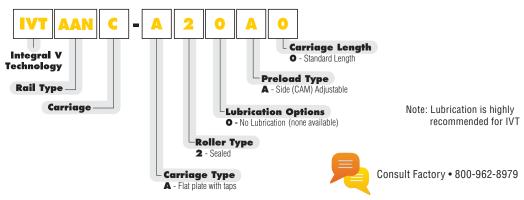
### Standard

Side (CAM) Adjustable





### **CARRIAGE ORDERING INFORMATION**

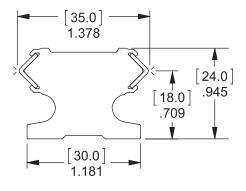


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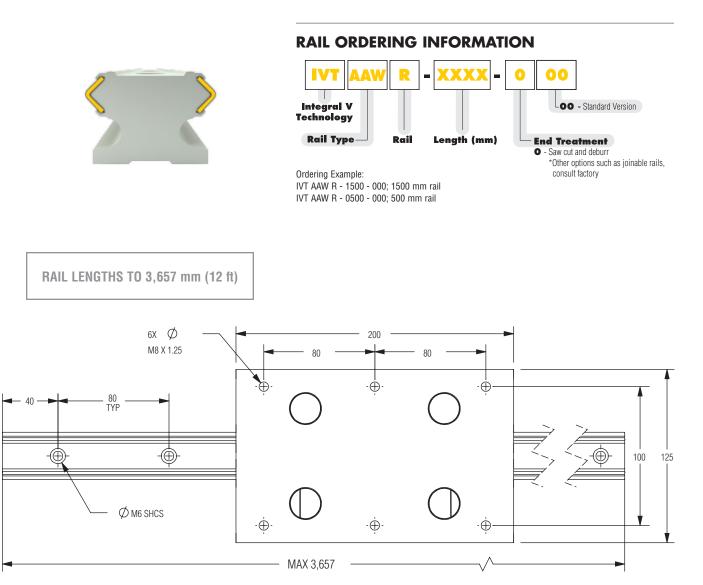


# **IVT AAW**









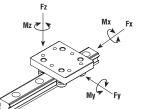
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### **SPECIFICATIONS**

# of		Corrigno		Static	Load Ra	atings			Dynam	ic Load I	Ratings		Dail	Moments	of Inertia	Max Rai
SERIES	# of Rollers	Carriage Weight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	Rail Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)
IVTAAW	4	1.54	8,900	5,560	194	278	445	10,020	6,150	214	308	501	1.65	2.8	3.8	3,657



Fd = Dynamic capacity (LC) Fz = Axial capacity Fy = Radial capacity

0

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 $\bigcirc$ 

Fy = Radial capacity Mx, My, Mz = Moment capacities \*Weight may vary slightly depending on carriage options.

**Conversions** newton (N) x 0.2248 = lbs. (lbf) meter x 0.0397 = inch

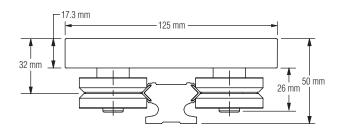
newton - meter (N-m) x 8.851 = in.-lbs.

CARRIAGE

Standard

Side (CAM) Adjustable

PATENTED

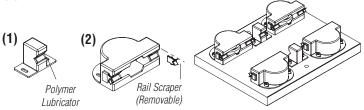


### **PRELOAD ADJUSTMENTS**

# LUBRICATION ACCESSORIES

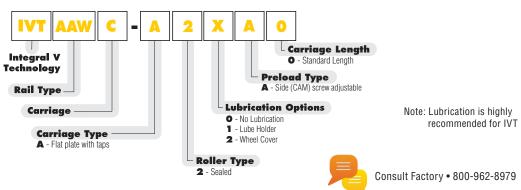
(1) Lube Holder





### **CARRIAGE ORDERING INFORMATION**

~ O

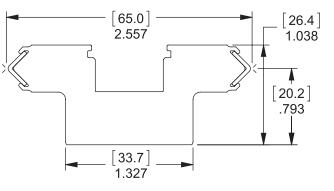


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# IVT AAB

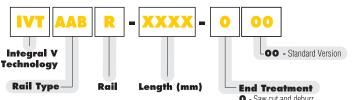
RAIL AAB 1:1





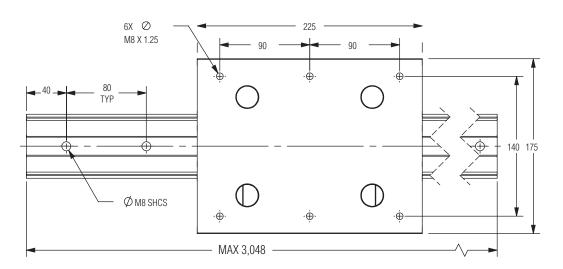


### RAIL ORDERING INFORMATION



Ordering Example: IVT AAB R - 1500 - 000; 1500 mm rail IVT AAB R - 0500 - 000; 500 mm rail  Saw cut and deburr
 \*Other options such as joinable rails, consult factory

RAIL LENGTHS TO 3,048 mm (10 ft)



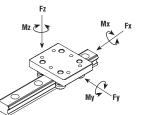
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# IVT AAB

### **SPECIFICATIONS**

		Corriggo		Static	Load Ra	atings			Dynam	ic Load I	Ratings		Rail	Moments	of Inertia	Max Rai
SERIES	# of Rollers	Carriage Weight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Fy Fz Mx My Mz	Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)			
IVTAAB	4	2.42	8,900	5,560	171	348	556	10,020	6,150	190	384	626	2.77	5.5	25.4	3,048

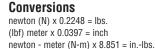


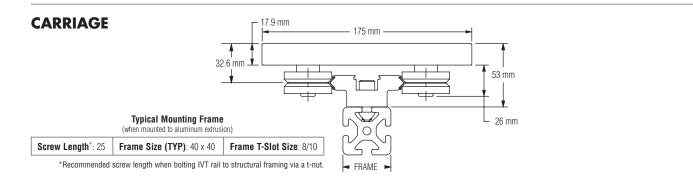
#### Fd = Dynamic capacity (LC) Fz = Axial capacity Fy = Radial capacity

Fy = Radial capacity Mx, My, Mz = Moment capacities

#### \*Weight may vary slightly depending on carriage options.

(3)



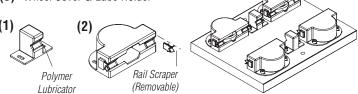


### **PRELOAD ADJUSTMENTS**

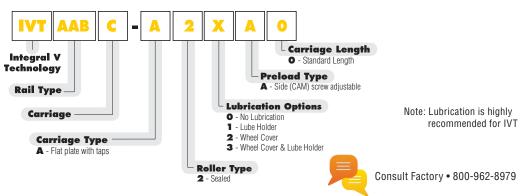
# Standard Side (CAM) Adjustable PATENTED

### **LUBRICATION ACCESSORIES**

- (1) Lube Holder
- (2) Wheel Cover
- (3) Wheel Cover & Lube Holder



### **CARRIAGE ORDERING INFORMATION**



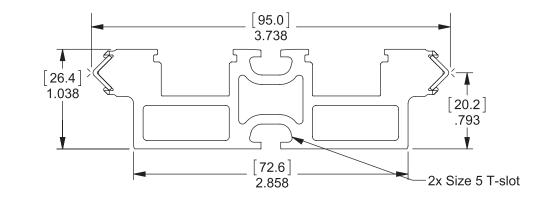
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# IVT AAE

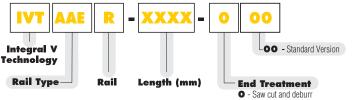
RAIL

AAE 1:1



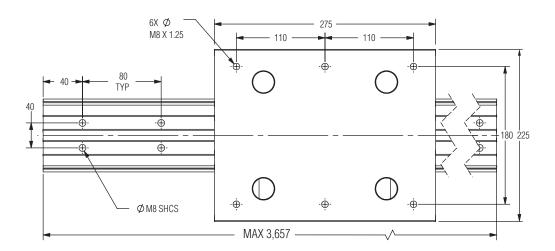


### RAIL ORDERING INFORMATION



Ordering Example: IVT AAE R - 1500 - 000; 1500 mm rail IVT AAE R - 0500 - 000; 500 mm rail Saw cut and deburr \*Other options such as joinable rails, consult factory

RAIL LENGTHS TO 3,657 mm (12 ft)



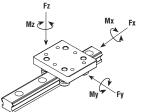
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# IVT AAE

### **SPECIFICATIONS**

# 0		Corrigeo		Static	Load Ra	ntings			Dynam	ic Load I	Ratings		Rail	Moments	of Inertia	Max Rai
CEBIEC	# of Iollers	Carriage Weight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)
IVTAAE	4	3.47	8,900	5,560	255	487	778	10,020	6,150	282	538	877	2.74	6.0	74.8	3,657



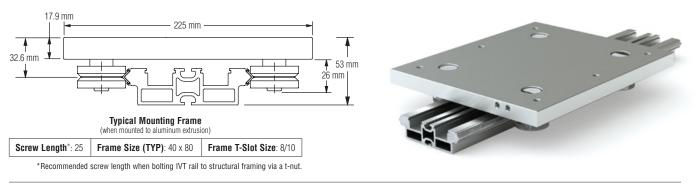
Fd = Dynamic capacity (LC) Fz = Axial capacity

Fy = Radial capacity Mx, My, Mz = Moment capacities \*Weight may vary slightly depending on carriage options.

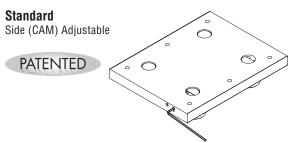
## Conversions

newton (N)  $\times$  0.2248 = lbs. (lbf) meter  $\times$  0.0397 = inch newton - meter (N-m)  $\times$  8.851 = in.-lbs.

### CARRIAGE

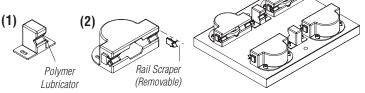


### **PRELOAD ADJUSTMENTS**



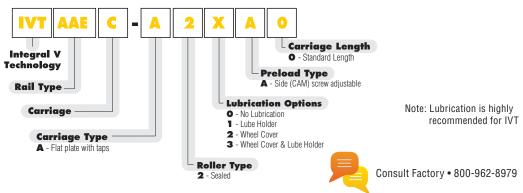
### LUBRICATION ACCESSORIES

- (1) Lube Holder
- (2) Wheel Cover
- (3) Wheel Cover & Lube Holder



(3)

### **CARRIAGE ORDERING INFORMATION**



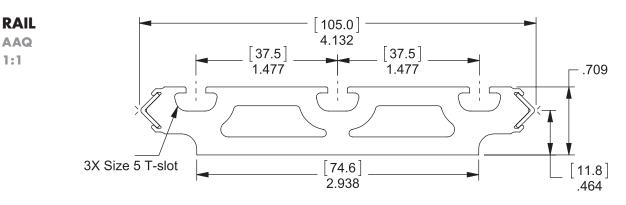
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\*Other options such as joinable rails,

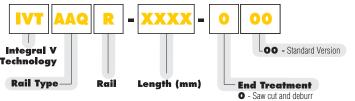
consult factory

# IVT AAQ



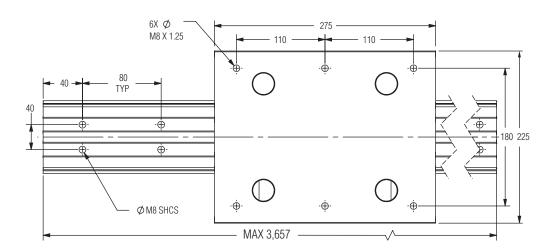


### RAIL ORDERING INFORMATION



Ordering Example: IVT AAQ R - 1500 - 000; 1500 mm rail IVT AAQ R - 0500 - 000; 500 mm rail

RAIL LENGTHS TO 3,657 mm (12 ft)



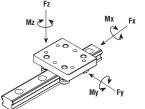
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# IVT AAQ

### **SPECIFICATIONS**

			Carriage		Static	Load Ra	atings			Dynam	nic Load	Ratings		Rail	Moments	of Inertia	Max Rail
SERIES # of Rollers	# OI Weight	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)		
	IVTAAQ	4	3.47	8,900	5,560	283	278	445	10,020	6,150	313	308	501	3.06	3.4	91.9	3,657
												*Weic	ht may v	ary slightly	y dependin	q on carria	ge options

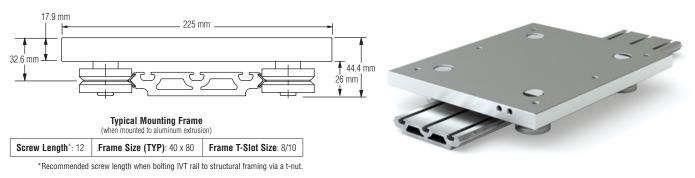


Fd = Dynamic capacity (LC) Fz = Axial capacity Fy = Radial capacity Mx, My, Mz = Moment capacities

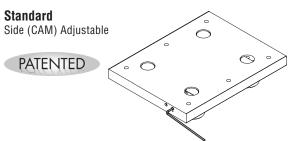
#### Conversions

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

### CARRIAGE

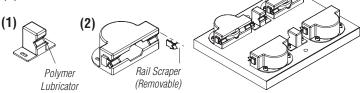


### **PRELOAD ADJUSTMENTS**



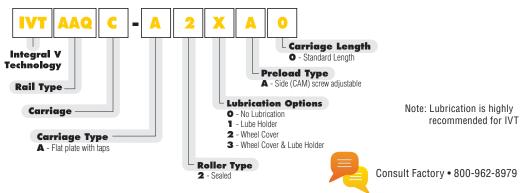
### LUBRICATION ACCESSORIES

- (1) Lube Holder
- (2) Wheel Cover
- (3) Wheel Cover & Lube Holder



(3)

### **CARRIAGE ORDERING INFORMATION**



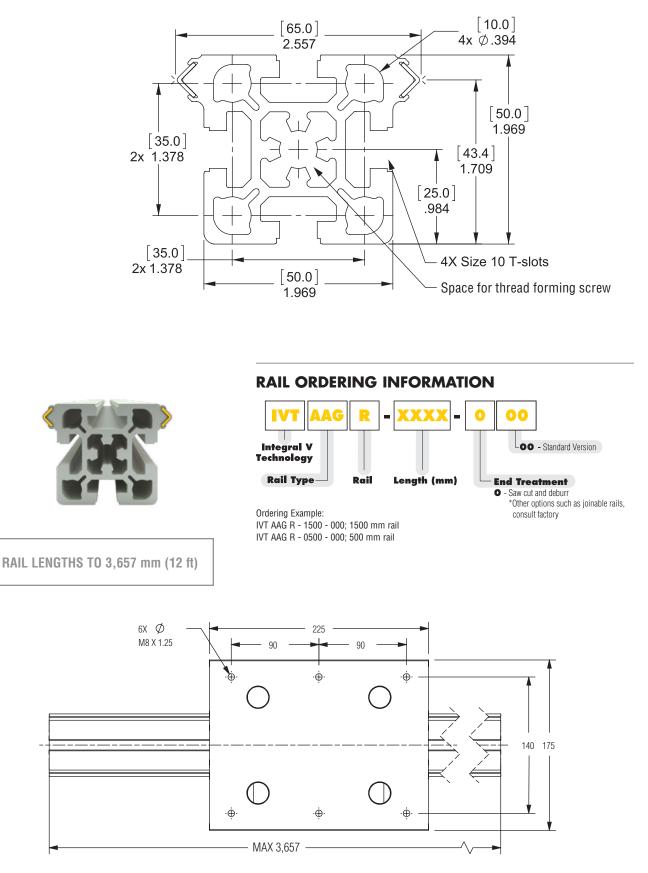
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# IVT AAG



AAG 1:1



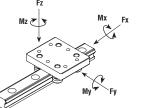
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# IVT AAG

### **SPECIFICATIONS**

		Corriggo		Static	Load Ra	ntings			Dynam	ic Load I	Ratings		Dail	Moments	of Inertia	Max Dai
SERIES Rollo	# of Rollers	Carriage Weight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Mz (N-m)	Rail Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Max Rail Length (mm)
IVTAAG	4	2.42	8,900	5,560	171	348	556	10,020	6,150	190	384	626	3.36	29.7	34.9	3,657



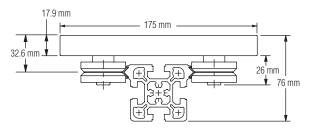
#### Fd = Dynamic capacity (LC) Fz = Axial capacity

Fy = Radial capacity Mx, My, Mz = Moment capacities

#### \*Weight may vary slightly depending on carriage options.

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

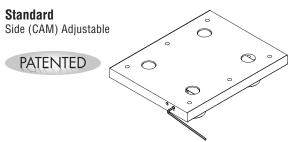
### CARRIAGE





(3)

### **PRELOAD ADJUSTMENTS**

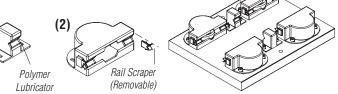


### LUBRICATION ACCESSORIES

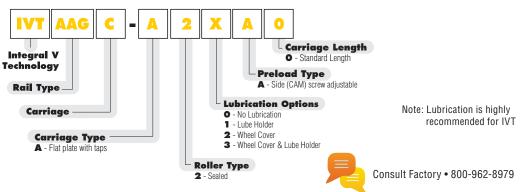
(1) Lube Holder

(1)

- (2) Wheel Cover
- (3) Wheel Cover & Lube Holder



### **CARRIAGE ORDERING INFORMATION**



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# IVT ABK Features & Benefits

### FOR LARGE FORMAT APPLICATIONS & HEAVY LOADS

### **COMPONENT OPTIONS**

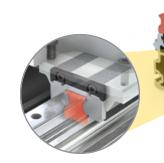
#### **V-Guide Bearing System**

- Embedded hardened steel raceways reduce mounting components
- SIMO<sup>®</sup> 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

### Profile Rail Guide System

- Pre-aligned profile rail eliminates mounting and alignment problems and cuts assembly time in half
- SIMO  $^{\ensuremath{\mathbb{R}}}$  machined for precision qualified rail surfaces
- · Recirculating ball bearing blocks provide rigid performance
- Designed for 20 mm profile rail
- · Smooth and quiet operation



**Ball Screw** 



**Belt Drive** 





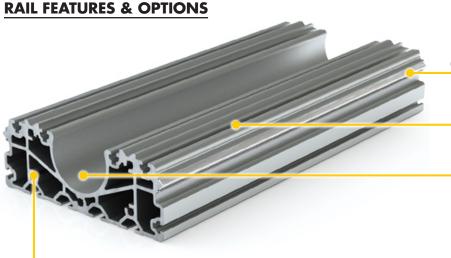
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**Rack Drive** 





# Features & Benefits IVT ABK



Precision machined anodized rail with hardened embedded steel races

 $\text{SIMO}^{\textcircled{R}}$  qualified surface and t-slot for mounting profile rail

Space for drive mechanism: belt, ball screw, or rack drive

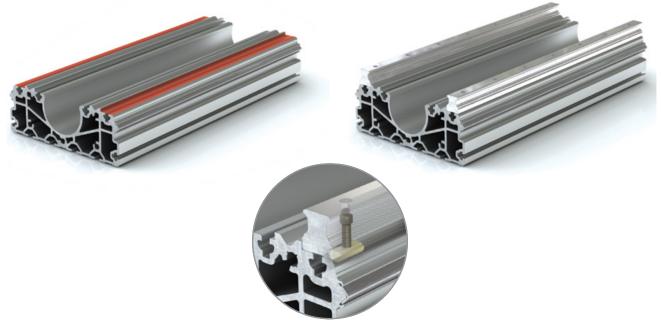
Space for thread forming screw (x 4)



### **MACHINED PRECISION AT EXTRUSION PRICES**

### **Pre-aligned Profile Rail Guides**

- SIMO<sup>®</sup> machined for precision qualified rail surfaces
   —Synchronized cutters eliminate built-in extrusion variances
   —Machined rail edges can be used as a reference when mounting
- High load capacity
- Optimized extrusion design provides a large scale structural member
- Rigid, accurate, repeatable
- Low cost

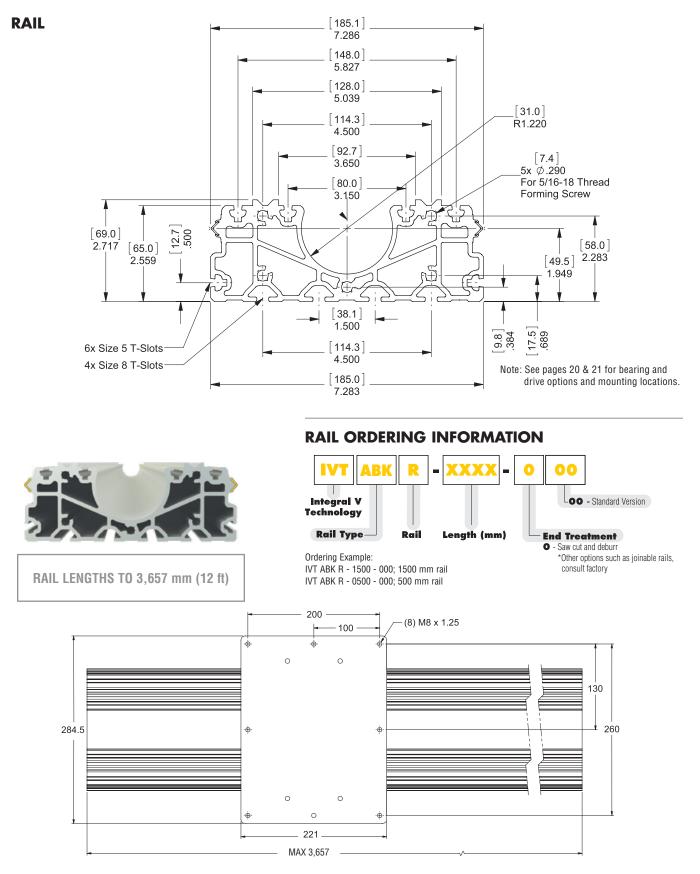


NEW

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# IVT ABK Rail & Carriage



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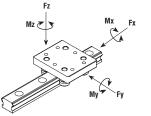


# Rail & Carriage IVT ABK

### **SPECIFICATIONS**

		Corriggo		Static	Load Ra	atings			Dynam	ic Load I	Ratings		Rail	Moments	of Inertia	Max Rail
SERIES	Kollers	Carriage Weight (kg)*	Radial F <sup>oy</sup> (N)	Axial F <sup>oz</sup> (N)	Roll M <sup>ox</sup> (N-m)	Pitch M <sup>oy</sup> (N-m)	Yaw M <sup>oz</sup> (N-m)	Radial Fy (N)	Axial Fz (N)	Roll Mx (N-m)	Pitch My (N-m)	Yaw Weigh Mz (kg/m (N-m)	Weight (kg/m)	L <sub>Y</sub> (cm <sup>4</sup> )	L <sub>Z</sub> (cm <sup>4</sup> )	Length (mm)
IVTABK	4	4.3	8,900	5,560	599	390	1,154	10,020	6,150	662	431	1,300	10.1	175	1,300	3,657
												*Weight	may vary	slightly deper	nding on carr	iage options.

NEW



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

0

3

 $\bigcirc$ 

#### Conversions

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

### CARRIAGE

Standard

Side (CAM) Adjustable

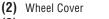
PATENTED

#### CRT [17.7] Cam Roller Technology 70 V-Guide Bearing [61.5] 0 ò **Option Shown** 2.42 [12.7] 50 [102.3] Consult factory for 4.03 Profile Rail option. Email an Application Engineer

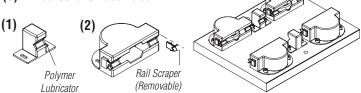
### **PRELOAD ADJUSTMENTS**

### LUBRICATION ACCESSORIES

(1) Lube Holder



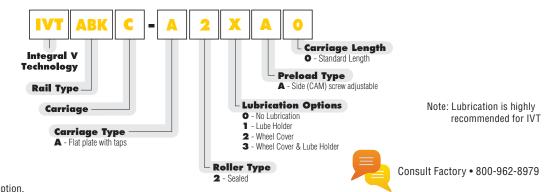
(3) Wheel Cover & Lube Holder



(3)

### **CARRIAGE ORDERING INFORMATION**

- O



Consult factory for profile rail option.

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# IVT ABK Driven Systems

### **Bearing Options for All Drive Types**

- Cam Roller Technology: V-Guide Bearings
- Profile Rail Technology: Profile Rail Guideways

**CRT: V-Guide Bearings** 

PRT: Profile Rail Guides



#### **Belt Drive**

- Ideal for use with V-Guide wheel bearings in high speed applications
- · Performs well in contaminated environments
- PBC designed motor and idler ends

   Can support a variety of design configurations
- Motor mount for Nema 23 and 34 (Nema 34 motor shown)
- Belt type: ATL 5 12 mm

V-Guide Roller Bearings

Belt Drive

Profile Rail Guides

Ball Screw

#### Polymer Covers Protect Ball Screw

#### **Ball Screw**

- Rigid ball nut performance in high-precision applications
   Ball screw diameters 16 25 mm
- Good for Z-axis and high thrust applications
- PBC designed motor and idler ends

   Can support a variety of design configurations
- Motor mount for Nema 23 and 34 (Nema 34 motor shown)
- · Optional polymer cover
- · Lead screw with polymer nut option available

#### **Rack Drive**

- Ideal for extended long length travel
- Typical rack: RA12



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# Driven Systems **IVT ABK**

#### **Drives & Accessories**

Mounting Brackets

Wheel Covers

Belt Drive

NEW

•

Rack Drive

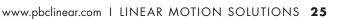
• Ball Screw

Lubrication Kits

Motors

- Sensor Brackets
- Cable Carriers

Rack Drive



Consult Factory • 800-962-8979

#### Worldwide Headquarters PBC Linear A Pacific Bearing Co.

6402 E. Rockton Road Roscoe, IL 61073 USA Toll-Free: 1.800.962.8979 Fax: 1.815.389.5790

sales@pbclinear.com www.pbclinear.com



### www.pbclinear.com

European Branch PBC Lineartechnik GmbH A Pacific Bearing Co.

Röntgenstr. 8 40699 Erkrath, Germany Telefon: 0049 2104 957440 0 Fax: 0049 2104 957440 9

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info@pbclinear.de www.pbclinear.de

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