

PBC Linear, a Pacific Bearing Company • 6402 East Rockton Road, Roscoe, IL 61073 USA • 1-800-962-8979 • www.pbclinear.com



FLEXIBILITY TO MEET APPLICATION REQUIREMENTS

- SIMO[®] machined for precision gualified rail surfaces, to within .050 mm (.002")
- 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 VTM 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



No Bow

No Twist

No Warp

SIMULTANEOUS INTEGRAL MILLING OPERATION

PBC Linear has revolutionized traditional machining with the patent pending SIMO[®] (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



Synchronized Cutters Eliminate Built-In Extrusion Variances

COMPARE SIMO VS. STANDARD ALUMINUM EXTRUSION

Straightness (Camber) Twist Flatness Standard Aluminum Extrusion .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)





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

5.5

6.0

3.4

29.7

25.4

74.8

91.9

34.9

1,300

2.77

2.74

3.06

3.36

10.1

3,048

3,657

3,657

3,657

3,657

171

255

283

171

599

348

487

278

348

390

556

778

445

556

1,154

10,020

10,020

10,020

10,020

10,020

6,150

6,150

6,150

6,150

6,150

190

282

313

190

662

384

538

308

384

431

626

877

501

626

1,300

IVTAAB

IVTAAE

IVTAAQ

IVTAAG

IVTABK

8,900

8,900

8,900

8,900

8,900

5,560

5,560

5,560

5,560

5,560



Examples **Application**





Application Examples

SMALL TO MEDIUM IVT LARGE TO EXTRA-LARGE 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 30 **IVT RAIL CHOICE: AAB** 2 56 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**





 SMALL TO MEDIUM MY
 MEDIUM TO LARGE IVT
 LARGE TO EXTRA-LARGE IVT

 AUDIO/VISUAL DISPLAY MOUNTS: Whether the linear motion system will be mounted vertically or horizontally, IVT provides the strength and versatility to ensure smooth motion-plus, fewer parts means less installation time and less more.

 Image: Note that the mounted vertically or horizontally, IVT provides the strength and versatility or ensure smooth motion-plus, fewer parts means less installation time and less more.

 Image: Note that the mounted vertically or horizontally, IVT provides the strength and versatility or ensure smooth motion-plus, fewer parts means less installation time and less more.

 Image: Note that the mounted vertically or horizontally, IVT provides the strength and versatility or ensure smooth motion-plus, fewer parts means less installation time and less more.

 Image: Note that the mounted vertically or horizontally, IVT provides the strength and versatility or the mounted vertically or horizontally.

 Image: Note that the mounted vertical design video

 Image: Note that the fasteners and reduce mounting components, while IVT carriages are equipped with eader rollers creating a clean, low maintenance

ERGONOMIC ASSIST: Integral V guide system handles the moment loads and provides smooth, low friction motion for hand tools in manufacturing and assembly operations.

solution for medical tables and emergency vehicles.

IVT RAIL CHOICE: AAQ





Link to ergonomic application video



Application Examples





Examples **Application**





IVT AAN







IVT AAN

SPECIFICATIONS

| | | | | | Statio | : Load Ra | atings | | | Dynam | ic Load | Ratings | | | Moments | of Inertia | |
|-----------------------------------|----------|-----------------|-----------------------------------|---|---------------------------------------|--|-----------------------------------|---|--|----------------------------------|---------------------|----------------------|--------------------|------------------|--------------------------------------|--------------------------------------|----------------|
| | SERIES | # of Rollers | Weight (kg)* | Radial F ^{oy} (N) | Axial F ^{oz} (N) | Roll M ^{ox} (N-m) | Pitch M ^{oy} (N-m) | Yaw M ^{oz} (N-m) | Radial Fy (N) | Axial Fz (N) | Roll Mx (N-m) | Pitch My (N-m) | Yaw Mz (N-m) | Weight (kg/m) | L _Y (cm ⁴) | L _Z (cm ⁴) | Length (mm) |
| | IVTAAN | 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 |
| Fz Mz | Ma | Fx Fx | Fd = Fz = I Fy = J Mx, N | Dynamic Radial ca Axial cap Лу, Mz = | capacity pacity acity Moment | (LC) capacitie | (n (! es n | Conver ewton (N lbf) mete ewton - I | r sions I) x 0.224 r x 0.039 meter (N- | 8 = lbs. 7 = inch m) x 8.8 | 51 = inI | *Weig bs. | ht may v | ary slight | ly dependin | ig on carria | age options. |
| CARRIAG | E | | | 20.8 mm | | | | - 80 mm | | | | 35.5 mm | 2 | | | | |
| PRELOAD | ADJU | JSTM | ENTS | | | | | | | | | | | | | | |
| Standard Side (CAM) Adj | justable | | | | | | | | | | | | | | | | |
| PATENTE | D | | | | ſ | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | | 0 V | ľ | | \geq | | | | | | |

CARRIAGE ORDERING INFORMATION





IVT AAW











IVT AAW

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SPECIFICATIONS

| | | Corrigno | | Static | Load Ra | atings | | | Dynam | ic Load I | Ratings | | Doil | Moment | s of Inertia | Max Dail |
|--------|-----------------|-----------------|----------------------------------|---------------------------------|----------------------------------|-----------------------------------|---------------------------------|---------------------|--------------------|---------------------|----------------------|--------------------|------------------|--------------------------------------|--------------------------------------|----------------|
| SERIES | # of Rollers | Weight (kg)* | Radial F ^{oy} (N) | Axial F ^{oz} (N) | Roll M ^{ox} (N-m) | Pitch M ^{oy} (N-m) | Yaw M ^{oz} (N-m) | Radial Fy (N) | Axial Fz (N) | Roll Mx (N-m) | Pitch My (N-m) | Yaw Mz (N-m) | Weight (kg/m) | L _Y (cm ⁴) | L _Z (cm ⁴) | Length (mm) |
| VTAAW | 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 |

*Weight may vary slightly depending on carriage options.



newton (N) \times 0.2248 = lbs. (lbf) meter x 0.0397 = inchnewton - meter (N-m) x 8.851 = in.-Ibs

CARRIAGE

Fz

Mz ∂

Mx

Fd = Dynamic capacity (LC) Fz = Radial capacity

Mx, My, Mz = Moment capacities

Fy = Axial capacity



PRELOAD ADJUSTMENTS

LUBRICATION ACCESSORIES



Lubricator

CARRIAGE ORDERING INFORMATION





IVT AAB





IVT AAB

SPECIFICATIONS

| Strikes ethod Curving in trans Part of the provided in the provide | 1 | | | | | Statio | a load B | atings | | | Dynam | he l oad | Batings | | | Momente | of Inertia | |
|--|---|----------------------------|---|--|---|---------------------------------|----------------------------------|-----------------------------------|---------------------------------------|---|----------------------------------|--|--|--------------------------------------|--------------------------|--------------------------------------|--------------------------------------|----------------------------|
| VTAAL 4 2.42 0.00 5.56 171 348 556 0.102 0.10 0.14 0.28 2.7 5.5 2.4 Vielpitt may vary slightly depending on carriage Image: Constraint of the standard st | | SERIES | # of Rollers | Carriage Weight (kg)* | Radial F ^{oy} (N) | Axial F ^{oz} (N) | Roll M ^{ox} (N-m) | Pitch M ^{oy} (N-m) | Yaw M ^{oz} (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 _Y (cm ⁴) | L _Z (cm ⁴) | Max Rail Length (mm) |
| Weight may vary slightly depending on carringe weight may vary slightly depen | | 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 |
| PRELOAD ADJUSTMENTS LUBRICATION ACCESSORIES Standard Side (CAM) Adjustable I Lube Holder PATENTED I Lube Holder I Lube Holder I Lube Holder I Lube Holder I Lube Holder I I Lube Holder I I Lube Holder I I I Lube Holder I I I Lube Holder I I I I I I I I I I I I I I I I I I I | CARRIAGE Screw Length*: 25 *Recommende | Type (when r b Frame | Fx Fy incal Mou nounted to a Size (TY gth when b | 2.42 Fd = Fz = Fy = Mx, N Mx, N My Idminum extru P): 40 x 40 otting IVT rai | B,900 Dynamic Radial cap Axial cap My, Mz = 32.6 mm J 32.6 mm J 4 32.6 mm J 5 5 5 5 5 5 1 to structu | 17.9 m | m Size: 8/10 | | - 175 mm | sions) x 0.224 x 0.0397 neter (N- | 8 = lbs. 7 = inch m) x 8.8 | 51 = inI | *Weig bs. | ht may va | 2.// ary slightl | y dependin | 23.4 Ing on carria | 3,048 ge option: |
| CARRIAGE ORDERING INFORMATION IVT AAB C = A 2 X A 0 Integral V Technology | PRELOAD Standard Side (CAM) Adju PATENTE | ADJU ustable D | JSTM | ENTS | | 0 | | | LUBR 1) Lu 2) Wh 3) Wh 1) | Polyme Lubricatu | er ver ver & L (2) | ACC ube Ho | Ider Rail scra (Removal | | S | (3) | | |
| Rail Type | CARRIAGE | | DERIP | NG IN | FOR TAL | MAT AB | | - 🔺 | 2 | X | A | Ca Ca O Preloa A - Side (C | arriage - Standard d Type AM) screw | Lengt Length adjustable | h | | | |





IVT AAE





IVT AAE

SPECIFICATIONS

| | | | Corriggo | | Statio | : Load Ra | atings | | | Dynam | ic Load | Ratings | | Doil | Moments | of Inertia | Max Dail |
|----------------------------|-------------------------|--|---------------------------------|--|---------------------------------------|----------------------------------|-----------------------------------|--|--|-----------------------------------|---------------------|-------------------------------|--------------------|------------------|--------------------------------------|--------------------------------------|----------------|
| | SERIES | # of Rollers | Weight (kg)* | Radial F ^{oy} (N) | Axial F ^{oz} (N) | Roll M ^{ox} (N-m) | Pitch M ^{oy} (N-m) | Yaw M ^{oz} (N-m) | Radial Fy (N) | Axial Fz (N) | Roll Mx (N-m) | Pitch My (N-m) | Yaw Mz (N-m) | Weight (kg/m) | L _Y (cm ⁴) | L _Z (cm ⁴) | 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 |
| Fz Mz 0 0 0 0 | M | Fx Fy | Fd = Fz = Fy = . Mx, 1 | Dynamic Radial cap Axial cap My, Mz = | capacity pacity acity Moment | (LC) capacitie | C ne (I s ne | ONVER ewton (N bf) meter ewton - n | sions) x 0.224 r x 0.0397 neter (N-I | 8 = lbs. 7 = inch m) x 8.85 | 51 = inII | *Weigh | nt may va | ary slightl | y dependin | g on carria | ge options. |
| CARRIAG | E | | | | | | | | | | | | | | | 5 | |
| 32.6 mm | Tyr (when 5 Frame | bical Mou mounted to a Size (TY igth when t | 225 m | m le sision) Framu Il to structu | e T-Slot S ural framin | Size: 8/10 | 22 22 | 53 mm | | | | | | | | Nº 1 | |
| PRELOAD | ADJU | JSTN | IENTS | | | | | .UBR | ICAT | ION | ACC | ESSO | DRIE | S | | | |
| Standard Side (CAM) Adj | iustable D | | | | 0 | • | | 1) Lu 2) Wr 3) Wr 1) | be Hold neel Cov neel Cov Polyme Lubricate | er ver ver & L (2) | ube Ho | lder Rail scraf Removab | ar Der Ile) | | (3) | | |
| | | | | | | | | | | | | | | | | | |

CARRIAGE ORDERING INFORMATION





IVT AAQ





IVT AAQ

SPECIFICATIONS

| | | | Corriggo | | Static | Load Ra | atings | | | Dynan | nic Load | Ratings | | Pail | Moments | of Inertia | Max Pail |
|--|-----------------------|----------------------------------|-------------------------------------|---|---------------------------------------|----------------------------------|-----------------------------------|---|--|----------------------------------|---------------------|----------------------|--------------------|------------------|--------------------------------------|--------------------------------------|----------------|
| | SERIES | # of Rollers | Weight (kg)* | Radial F ^{oy} (N) | Axial F ^{oz} (N) | Roll M ^{ox} (N-m) | Pitch M ^{oy} (N-m) | Yaw M ^{oz} (N-m) | Radial Fy (N) | Axial Fz (N) | Roll Mx (N-m) | Pitch My (N-m) | Yaw Mz (N-m) | Weight (kg/m) | L _Y (cm ⁴) | L _Z (cm ⁴) | 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 |
| Fz | | | | | | | | | | | | *Weig | ht may va | ary slightly | y dependin | g on carria | ge options. |
| Mz z o o o o o o o o o o o o o o o o o o | Mx My | Fx Fy | Fd = 1 Fz = F Fy = A Mx, N | Dynamic Radial cap Axial capa Ay, Mz = | capacity pacity acity Moment | (LC) capacitie | n (I es n | Conver ewton (N bf) mete ewton - r | r sions I) x 0.224 r x 0.039 meter (N- | 8 = lbs. 7 = inch m) x 8.8 | 51 = inI | lbs. | | | | | 2 |
| CARRIAG | E | | | | | | | | | | | | | | | 5 | |
| 17.9 mm | | | 225 | mm | | | | = | | | | | | - | | | |
| 32.6 mm | | | | | | | | | | | | | | | | 10 | 12 |
| [| | | | 2 | | | | ↑ 44.4 26 mm | | T | | | Z. | - | | - | |
| | Typ (when r | nical Mou mounted to a | nting Fram | e sion) | | | | | | - | | 2 | - | 5 | | | |
| Screw Length*: 12 | 2 Frame | Size (TY | P): 40 x 80 | Frame | T-Slot S | Size : 8/10 | | | | | ~ | | | | | | |
| | eu screw ieri | gui when i | | | | y via a t-fi | ul. | | | | | | | | | | |
| PRELOAD | ADJL | JSTM | ENTS | | | | | LUBR | RICAT | ION | ACO | CESS | ORIE | S | | | |
| Standard | | | | <u>~</u> | | | | 1) Lu | be Hold | ler | | | | | | | |
| Side (CAM) Adj | ustable | | /。 | 0 | \rightarrow | | | (2) W (3) W | heel Co heel Co | ver & I | uhe Ho | older | | | (3) | \sim | |
| PATENTE | DK | $\sim c$ | > | | 0 | \rightarrow | | d) 11 | | (0) | | 1001 | | \sim | | J. | \sim |
| | | \searrow | 6 | > / | °// | | 0 | " | | (2) | | | . K | (DE) | - AL | | |
| | | | | | | | | Ś | E C | | | | nor | \searrow | N. | | |
| ay | | | | | | | | | Lubricat | or | ¥ | (Removal | ble) | | V | | |
| CARRIAG | E ORE | DERIN | IG IN | FOR | MAT | ION | | | | | | | | | | | |





IVT AAG





*Weight may vary slightly depending on carriage options.

IVT AAG

SPECIFICATIONS

| _ | | | | | | | | | | | | | | | | | |
|---|--------|---------|----------|--------|-----------------|-----------|--------|-------|--------|-------|---------|---------|-------|----------|--------|--------------------|------------|
| | | | Corriggo | | Statio | : Load Ra | atings | | | Dynam | ic Load | Ratings | | Doil | Moment | s of Inertia | Max Dail |
| | SERIES | # of | Weight | Radial | Axial | Roll | Pitch | Yaw | Radial | Axial | Roll | Pitch | Yaw | Weight | | | Iviax nali |
| | OLINEO | Rollers | (kn)* | Foy | F ^{oz} | Mox | Moy | Moz | Fy | Fz | Mx | My | Mz | (kn/m) | (cm4) | (cm ⁴) | (mm) |
| | | | ("9) | (N) | (N) | (N-m) | (N-m) | (N-m) | (N) | (N) | (N-m) | (N-m) | (N-m) | (kg/iii) | | | () |
| | 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 = Radial capacity

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

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3

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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

PATENTED

LUBRICATION ACCESSORIES





CARRIAGE ORDERING INFORMATION

0



Polymer

Lubricator



IVT ABK Features & Benefits

FOR LARGE FORMAT APPLICATIONS & HEAVY LOADS

COMPONENT OPTIONS

V-Guide Bearing System

- Embedded hardened 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

Profile Rail Guide System

- Pre-aligned profile rail eliminates mounting and alignment problems and cuts assembly time in half
- SIMO[®] machined for precision qualified rail surfaces
- Recirculating ball bearing blocks provide rigid performance
- · Designed for 20 mm profile rail
- · Smooth and quiet operation

DRIVE OPTIONS (See page 24 for details)

Belt Drive





Ball Screw

Rack Drive



Features & Benefits **IVT ABK**

RAIL FEATURES & OPTIONS



SIMO[®] 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[®] machined for precision qualified rail surfaces
 —Syncronized cutters eliminate built-in extrusion variances
 —Machined rail edges can be used as a reference when mounting

NEW

- High load capacity
- Optimized extrusion design provides a large scale structural member
- Rigid, accurate, repeatable
- Low cost





IVT ABK Rail & Carriage





Rail & Carriage IVT ABK

SPECIFICATIONS

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|---|----------------------------------|---------|--|----------------------------|---------------------------|-------------------|---------------------------|--------------------------------------|--|--|----------------|---|-----------|----------|--------------------|-----------------|-------------------------|
| | | # of | Carriage | Badial | Avial | | Pitch | Yaw | Radial | Dynan Avial | Roll | Pitch | Yaw | Rail | woments | or inertia | Max Rail |
| | SERIES | Rollers | Weight | Foy | F ^{0Z} | Mox | Moy | Moz | Fy | Fz | Mx | My | Mz | Weight | L _Y | L _Z | Length (mm) |
| | | | (ky) | (N) | (N) | (N-m) | (N-m) | (N-m) | (N) | (N) | (N-m) | (N-m) | (N-m) | (ky/iii) | (cm ⁴) | (cm+) | (11111) |
| | 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 |
| Fz | | | | | | | | | | | | | *Weight | may vary | slightly depe | ending on car | riage options |
| Mz 🥑 🍸 | Mx | Fx | Ed. 1 | Dunamia a | anaoity (| | C | nvor | eione | | | | | | | | |
| \downarrow | S | \sim | Fa = 1 Fz = F | Radial capa | apacity (acitv | LG) | ne | wton (N |) x 0.224 | 8 = Ibs. | | | | | | | |
| | × (| | Fy = A | Axial capac | city | | (lb | f) meter | x 0.0397 | = inch | | | | | | | |
| \sim | | | Mx, N | /ly, Mz = N | /loment c | apacities | s ne | wton - r | neter (N-ı | n) x 8.8 | 51 = inlt | os. | | | | | |
| ///> | Mur | `Ev | | | | | | | | | | | | | | | |
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| ARRIAG | E | | | | | | | | | | | | | | | | |
| RT | | | | | | | | | | | | | | | | | |
| am Roller Tec | hnology | T | | | | | | | | | | _ | | | [17.7] | • | |
| Guide Bearin | g | | | | | | | | | | | | | - | .70 | | |
| ption Shown | | [61. | 5] | | | | | | | _ | | 0 | | | 1 I | | |
| onsult factory | for | 2.4: | 2 [] | | 1 755 | $\tilde{\lambda}$ | 5 | | 7 | 5 | 25 | | | [12.7 |] | | |
| ofile Rail opt | ion. | | Þ | | ≰ ~ | י קנ | 5 | |)r | ษัร | | \rightarrow | \exists | .50 | l | 102.3 J 4.03 | |
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| RELOAD | ADJL | JSTM | ENTS | | | | L | UBR | ICAT | ION | ACC | ESS | ORIE | S | | | |
| RELOAD tandard | ADJU | JSTM | ENTS | | | | L (1 | UBR I) Lu | ICAT | ION er | ACC | ESS | ORIE | S | | | |
| RELOAD tandard de (CAM) Ad | ADJL | JSTM | ENTS | | | | L (1 | UBR 1) Lu 2) Wi | ICAT be Hold neel Cov | ION er ver | ACC | ESS | ORIE | S | (3) | | |
| RELOAD andard de (CAM) Ad | ADJL | JSTM | ENTS | <u>^</u> | | | L (1 (2 | UBR 1) Lu 2) Wi 3) Wi | ICAT be Hold neel Cov | ION er ver ver & L | ACC | ESS | ORIE | S | (3) | | |
| RELOAD tandard de (CAM) Ad | ADJU justable | JSTM | ENTS | <u>^</u> 0 | 0 | • | L (1 (2 (3 | UBR 1) Lu 2) Wr 3) Wr | be Hold neel Cov | ION er ver ver & L | ACC | CESS(| ORIE | S | (3) | | >> |
| RELOAD tandard de (CAM) Ad PATENTE | ADJU | | ENTS | | 0 | ° | L (1 (2 (1 | UBR 1) Lu 2) Wr 3) Wr | be Hold neel Cov | er ver ver & L (2) | ACC | der | ORIE | S | (3) | | |
| PRELOAD tandard ide (CAM) Ad | ADJU justable | | Contraction of the second seco | | 0 | • | L (1 (2 (3 (1 | UBR 1) Lu 2) Wr 3) Wr | ICAT be Hold heel Cov heel Cov | er ver ver & L (2) | ACC ube Hol | ESS Ider | | S | (3) | | |
| PRELOAD tandard ide (CAM) Adj | ADJU | | ENTS | | 0 | • | L (1 (2 (1 | UBR 1) Lu 2) Wr 3) Wr 1) | ICAT be Hold heel Cov | er ver ver & L (2) | ACC | der | | S | (3) | | |
| RELOAD tandard de (CAM) Ad | ADJU | JSTM | ENTS | | 0 | • | L (1 (2 (3 | UBR 1) Lu 2) Wr 3) Wr 1) | ICAT be Hold neel Cov neel Cov | er ver & L (2) | | der Rail scrap | | S | (3) | | |
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Roller Type

2 - Sealed

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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









- 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

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: RA16

Email an Application Engineer

24 LINEAR MOTION SOLUTI

Profile Rail Guides

Ball Screw



Driven Systems **IVT ABK**

Drives & Accessories

- Belt DriveMounting BracketsWheel Covers
- Ball Screw
- MotorsLubrication Kits
- Rack Drive
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Rack Drive

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