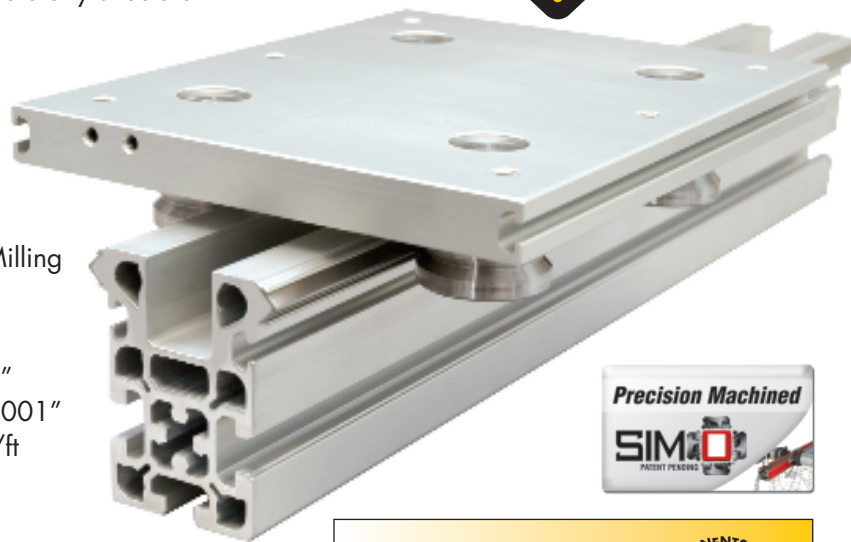


# Integral V™ Linear Guide

INTEGRATED SERIES

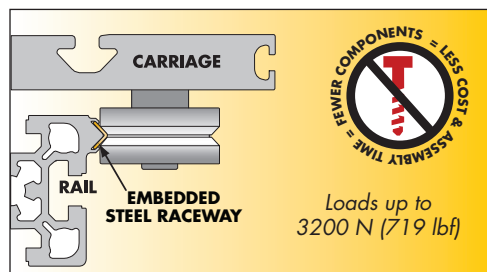
**NEW**

The **Integral V** linear guide system was developed to reduce costs, increase application flexibility and ease of installation. The **Integrated** guide allows for a complete system build without having to incorporate any structural support framework.



## FEATURES & BENEFITS

- **Integral V Technology** - a hardened steel v-raceway embedded into a durable anodized aluminum rail, eliminating the need for fasteners
- **High Accuracy** - SIMO™ (Simultaneous Integral Milling Operation) process provides qualified rail surfaces
- **Dimensional & Form Accuracy**
  - Raceway to raceway  $\pm .001''$
  - Raceway to surface  $\pm .002''$
  - Straightness -  $\pm .002''/ft$
  - Flatness -  $.002''$
  - Parallelism -  $\pm .001''$
  - Twist -  $< 1/4^\circ/ft$
- **Three (3) rail configurations**
- **Max speed of 12m/s**
- **Carriage options:** (See reverse)
  - Standard flat plate (with or without t-slots)
  - Preload adjustments - fixed, side (CAM) and hex head adjustable
  - Lubrication accessories (lube holder, wheel cover or both)



IVTAAG



IVTAAH



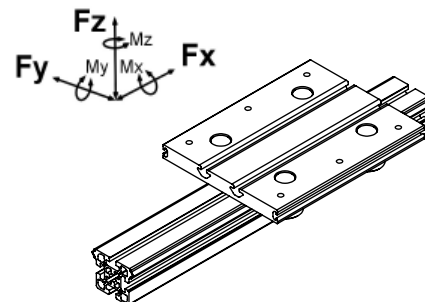
IVTABA

**NO TOLERANCE STACK-UP  
PRECISE ALIGNMENT!**

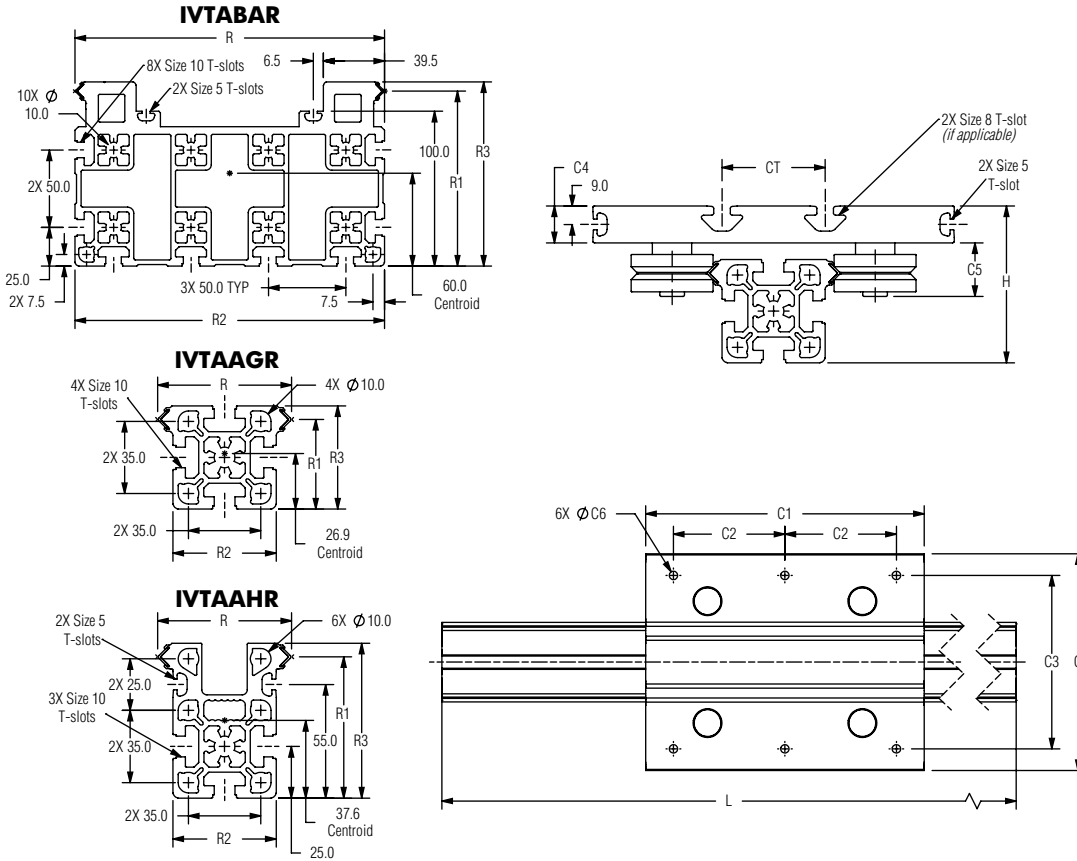
## LOAD DATA

Series	Carriage Style	Static Load Ratings					Dynamic Load Ratings				
		Radial	Axial	Roll	Pitch	Yaw	Radial	Axial	Roll	Pitch	Yaw
		$F^{0y}$	$F^{0z}$	$M^{0x}$	$M^{0y}$	$M^{0z}$	$F_y$	$F_z$	$M_x$	$M_y$	$M_z$
	(N)	(N)	(N-m)	(N-m)	(N-m)	(N)	(N)	(N-m)	(N-m)	(N-m)	
IVTAAG	NA	8,900	5,560	171	348	556	10,020	6,150	190	384	626
IVTAAH	NA	8,900	5,560	171	348	556	10,020	6,150	190	384	626
IVTABA	4-rollers	8,900	5,560	644	696	1112	10,020	6,150	712	769	1253
IVTABA	6-rollers	11,570	7,230	838	696	1112	13,034	8,000	926	769	1253

Dynamic load ratings based on 100 kilometer travel in optimum operating environments.  
Dynamic and static loads are based on continuously supported rails. 1 N = 0.2248 lbf 1 N-m = 0.7376 ft.-lbs.



**DIMENSIONAL DATA**



Rail Series	R (P.O.I.)	R1	R2	R3	L MAX	Weight (kg/m)
IVTAAGR	64.95	43.4	50	50	4000	3.36
IVTAAHR	64.95	68.4	50	75	4000	4.44
IVTABAR	200	113	200	119	3050	18.54

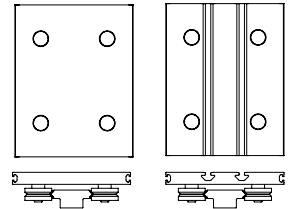
Moments of Inertia	
L <sub>y</sub> (cm <sup>4</sup> )	L <sub>z</sub> (cm <sup>4</sup> )
29.7	34.9
81.5	47.5
927.9	2960.8

Carriage Series	H	C	C1	C2	C3	CT	C4	C5	C6 Tap	Weight (kg)*
IVTAAGC	76	175	225	90	140	50	17.9	26	M8-1.25	2.42
IVTAAHC	101	175	225	90	140	50	17.9	26	M8-1.25	2.42

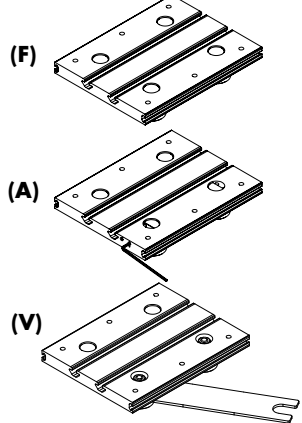
All dimensions in millimeters.

**ORDERING INFORMATION**

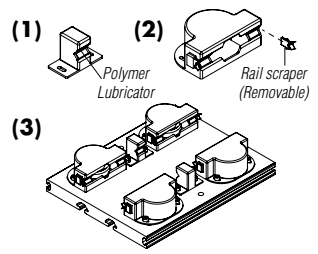
**CARRIAGE STYLES**  
Standard Flat Plate (4-Wheels)



**PRELOAD ADJUSTMENTS**  
 (F) Fixed  
 (A) Side (CAM) Adjustable (S)  
 (V) Hex Head Adjustable



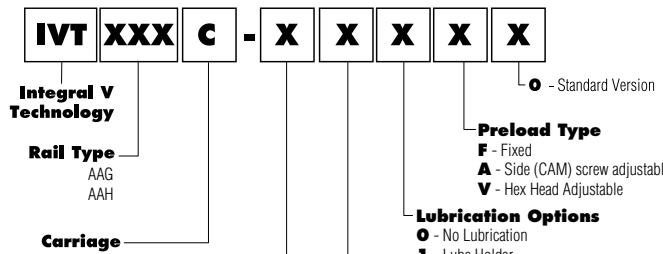
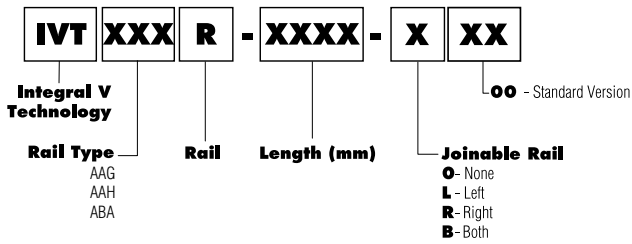
**LUBRICATION ACCESSORIES**  
 (1) Lube Holder  
 (2) Wheel Cover  
 (3) Wheel Cover & Lube Holder



**RAIL**

**CARRIAGE**

(S) - Standard



**ORDERING & TECHNICAL SUPPORT**  
**CALL 1-888-777-1466**