

Integral V Linear Guide

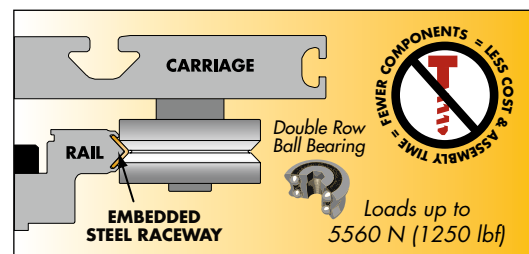
BOLT-ON - DOUBLE RACEWAY

NEW

The **Integral V** linear guide system was developed to reduce costs, increase application flexibility and ease of installation. **Bolt-On** rails are offered in a single or double hardened steel raceway configuration providing high load capacity, rigidity and torque resistance.

FEATURES & BENEFITS

- **Integral V Technology** - a hardened steel v-raceway embedded into a durable anodized aluminum rail, eliminating the need for fasteners
- **Four (4) rail configurations**
- **Max speed of 12m/s**
- **High Accuracy** - SIMO™ (Simultaneous Integral Milling Operation) process provides qualified rail surfaces
- **Standard length** to 3650 mm (Consult factory for longer continuous length or joinable rails)
- **"Roll-in" style t-nut** - mounts rail to structural t-slot framing
- **Dimensional & Form Accuracy**
 - Raceway to raceway $\pm .001''$
 - Raceway to surface $\pm .002''$
 - Straightness - $\pm .002''/\text{ft}$
 - Flatness - $.002''$
 - Parallelism - $\pm .001''$
 - Twist - $< 1/4^\circ/\text{ft}$
- **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



**LOW COST, FLEXIBLE
AND EASY TO INSTALL!**



IVTAAD



IVTAAE



IVTAAF

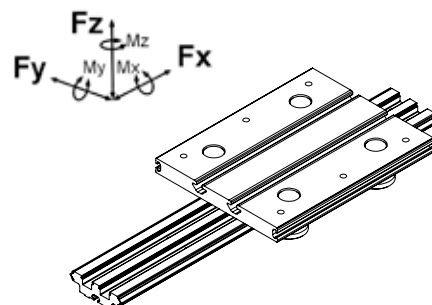


IVTAAQ

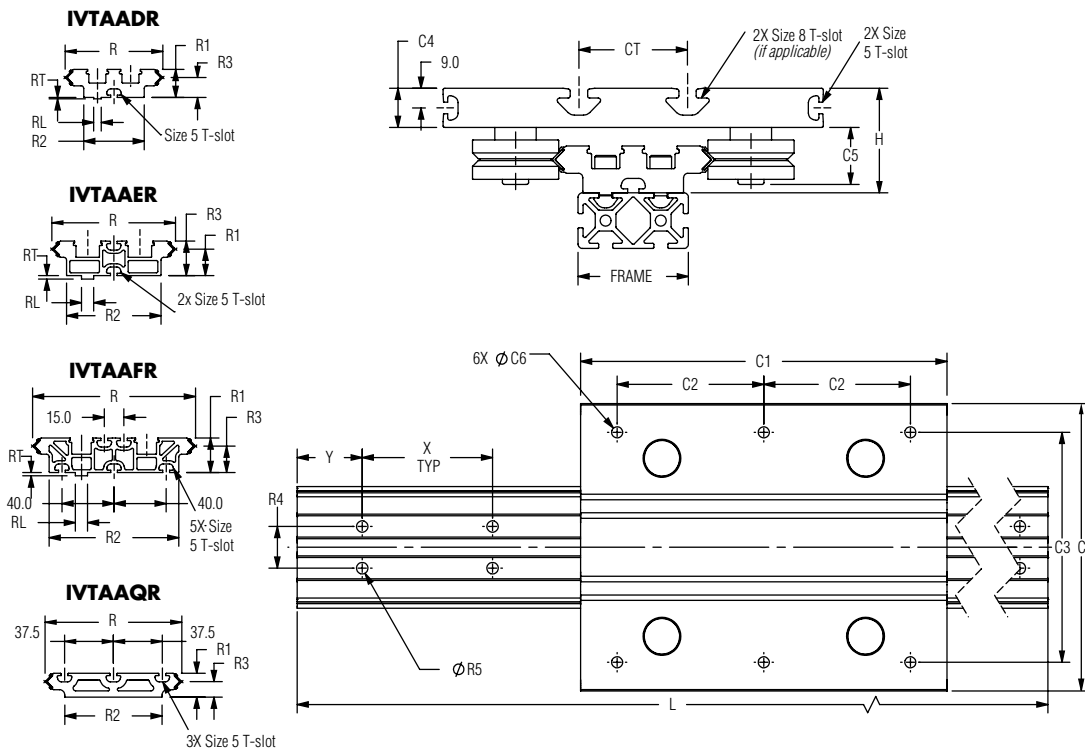
LOAD DATA

Series	Static Load Ratings					Dynamic Load Ratings				
	Radial	Axial	Roll	Pitch	Yaw	Radial	Axial	Roll	Pitch	Yaw
	F_y^{0y}	F_z^{0z}	M_x^{0x}	M_y^{0y}	M_z^{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)
IVTAAD	8,900	5,560	199	348	556	10,020	6,150	220	384	626
IVTAAE	8,900	5,560	255	487	778	10,020	6,150	282	538	877
IVTAAF	8,900	5,560	338	556	890	10,020	6,150	374	615	1,002
IVTAAQ	8,900	5,560	283	278	445	10,020	6,150	313	308	501

Dynamic load ratings based on 100 kilometer travel in optimum operating environments. 1 N = 0.2248 lbf 1 N-m = 0.7376 ft.-lbs.



DIMENSIONAL DATA



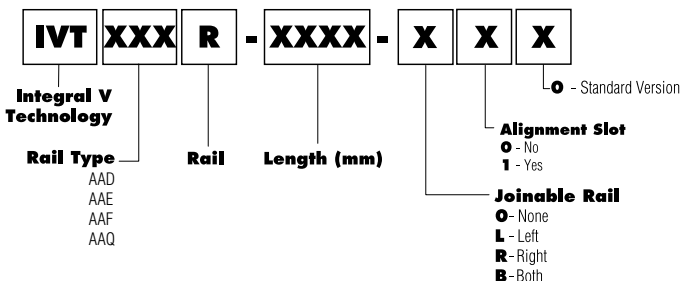
Rail Series	R (P.O.I.)	R1	R2	R3	R4	X	Y	L MAX	Screw Size (R5)	Screw Length*	Frame Size (Typ)	Frame T Slot Size	T-Slot Locator (RL)	T-Slot Locator (RT)	Weight (kg/m)
IVTAADR	74.95	21.4	46.4	15.2	25.4	80	40	3650	M6 SHCS	18	25X50	6	5.8	1	2.62
IVTAAER	94.95	20.2	72.6	26.4	40	80	40	3650	M8 SHCS	25	40X80	8/10	7.3/9.3	2.0/2.5	2.74
IVTAAFR	124.95	26.4	99.5	20.2	50	80	40	3650	M8 SHCS	25	50X50	10	9.3	2.5	3.62
IVTAAQR	104.95	18	74.6	11.8	40	80	40	3650	M8 SHCS	12	40X80	8/10	N/A	N/A	3.06

Carriage Series	H	C	C1	C2	C3	CT	C4	C5	C6 Tap	Weight (kg)**
IVTAADC	48	175	225	90	140	50	17.9	26	M8-1.25	2.42
IVTAAEC	53	225	275	110	180	50	17.9	26	M8-1.25	3.47
IVTAAFC	53	250	300	125	200	50	17.9	26	M8-1.25	4.06
IVTAAQC	44.4	225	275	90	140	50	17.9	26	M8-1.25	3.47

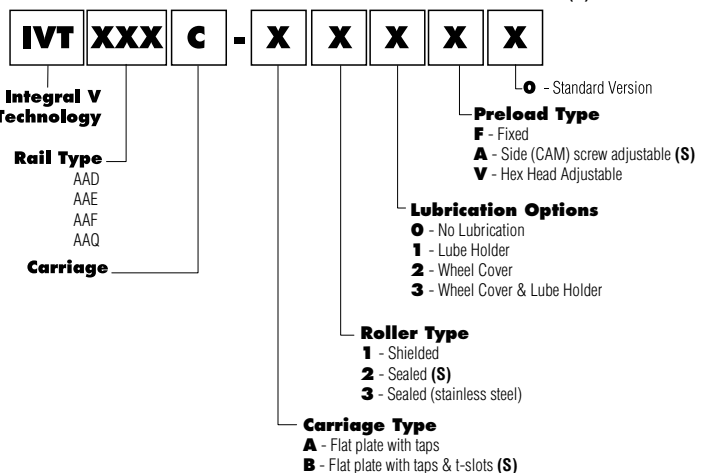
All dimensions in millimeters. Holes will be centered unless otherwise specified. Only "roll-in" style t-nuts will work with alignment tab. *Recommended screw length when bolting IVT rail to structural framing via a t-nut. ** Weight may vary slightly depending on carriage options.

ORDERING INFORMATION

RAIL



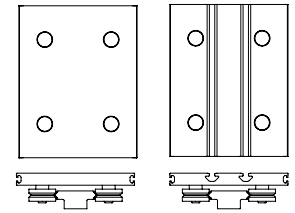
CARRIAGE



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

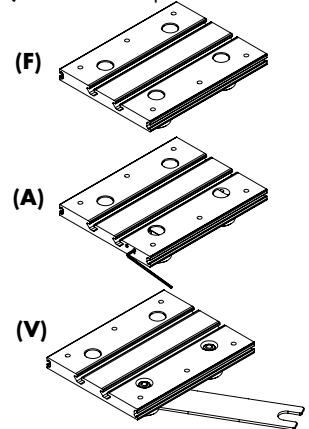
CARRIAGE STYLES

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

