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Find the *Velmex A4009D-S4-BK* at our website: *Click HERE*



UniSlide® Positioning System



Rugged, simple, effective, world-wide reknown, low cost



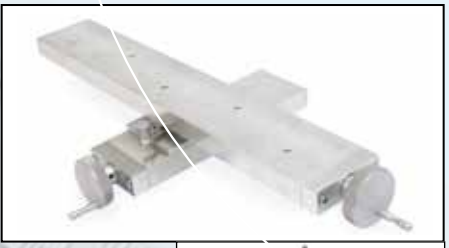




Manual

UNISLIDE®

Wide Array Of Linear Motion Devices







The broadest line of manual positioning assemblies

VELMEX, INC.™

Positioning Systems for Science and Industry

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Velmex Versatility

Velmex positioning products provide a variety of precise, yet simple, modular configurations to satisfy a broad range of applications where high precision and value are essential. Velmex applications are limited only by your imagination. For example:

- Measurement
- Antenna Alignment
- Automation
- Camera Positioning
- Film and Animation Work
- Inspection and QA/QC
- Medical And Biological Analysis
- Moving Probes, Sensors, Components
- Optical Focusing
- Photonics
- Pick and Place
- Prototyping
- Research and Testing
- Workhold Fixturing and Light Industrial
- And thousands of other uses.

You are not limited to off-the-shelf items. Every Velmex product is built to order. We can customize your device to meet your exact requirements with:

- Rapid, standard or fine motion
- Locks
- Counters and Scales
- Position Encoders
- Special Finishes
- Prep for Special Environments
- Framing
- Plates and Brackets

Velmex's very broad range of positioning equipment for science and industry delivers quality, precision, selection and value.

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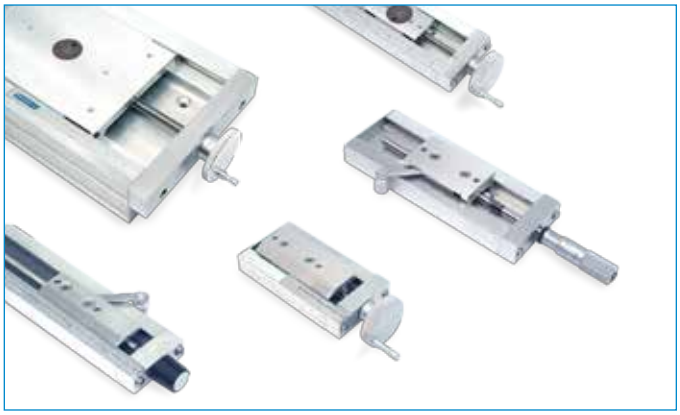
Positioning Systems for Science and Industry

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UNISLIDE® Manual Linear Slide Assembly



Linear manual and motorized UniSlides of varying length.

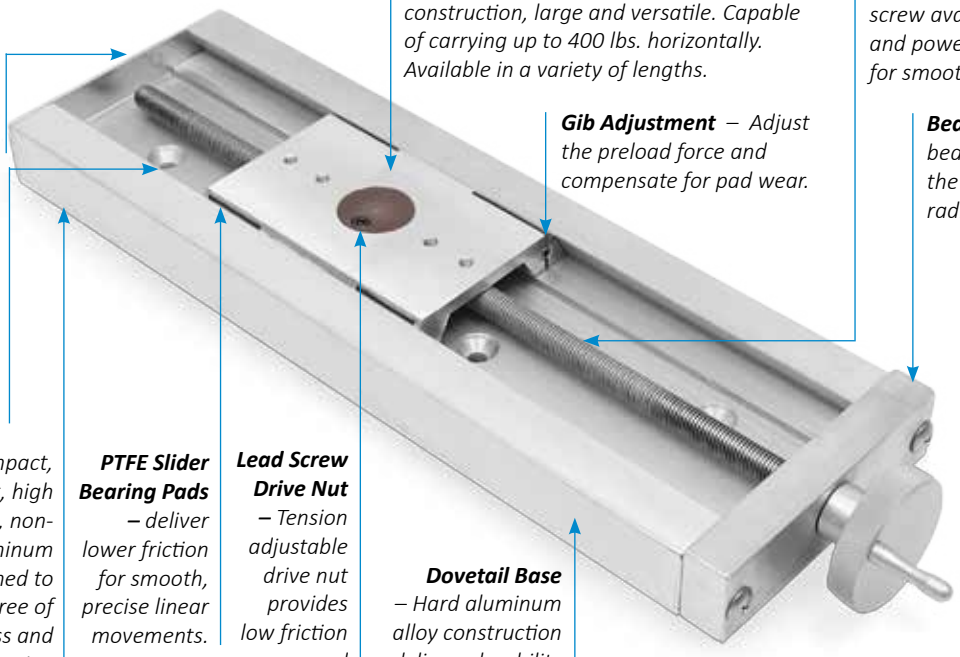


Multi-axis UniSlides including XY tables and elevating tables.

Velmex UniSlide Assemblies deliver precise, versatile movement in one, two or three dimensions with linear or rotational motion. An impressive array of standard configurations are available to meet a multitude of applications. UniSlide positioning systems also can be easily customized to fulfill exacting requirements. Its highly flexible, yet simple, reliable design makes it ideal for instrumentation and measurement; alignment, inspection and QA/QC; optical focusing; antenna alignment; film and animation work; medical and biological analysis; moving probes, sensors, components; light machining; semiconductor and electronic component manufacturing; or any application where micron resolution is required.

UniSlides are compact, delivering maximum travel in the shortest amount of work space. Their modular design allows for easy construction of multi-axis systems. UniSlides are available in a vast array of standard manual or motor-driven models and sizes including Linear Assemblies, Elevating Tables and XY Tables. There is a Velmex UniSlide to insure compatibility for most requirements. They can be further customized with rapid/fine motion, thumb screw locks, special finishes, way covers, revolution counters, position encoders or other options.

Features - Manual UniSlides



Carriage (Slider) *– Hard aluminum alloy construction, large and versatile. Capable of carrying up to 400 lbs. horizontally. Available in a variety of lengths.*

Lead Screw – *Precision roll formed lead screw available in fine pitch "V" thread and power-transmitting acme thread for smooth, trouble-free operation.*

Gib Adjustment *– Adjust the preload force and compensate for pad wear.*

Bearing Block – *a pair of thrust bearings preloaded, constrain the Lead Screw axially and radially.*

Self-cleaning *– any potential contamination falls away.*

Recessed Mounting Holes *– convenient, easy attachment for mounting on surfaces or for configuring multi-axis slides with adapter plates.*

Modular design *- Can be assembled into a limitless variety of axis, shapes, sizes and functionalities when combined with adapter plates.*

Ways *– Compact, lightweight, high strength, non-magnetic aluminum ways machined to a high degree of straightness and parallelism. Corrosion resistant and impact tolerant for longer life.*

PTFE Slider Bearing Pads *– deliver lower friction for smooth, precise linear movements.*

Lead Screw Drive Nut *– Tension adjustable drive nut provides low friction and minimal backlash.*

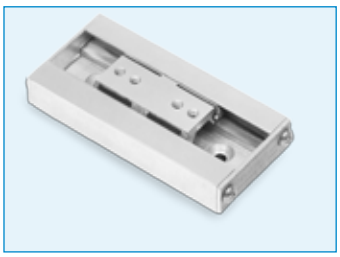
Dovetail Base *– Hard aluminum alloy construction delivers durability and strength, at low cost.*

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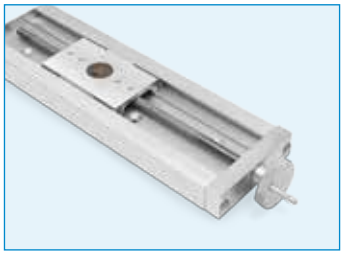
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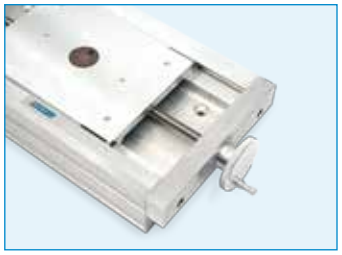
UniSlide® Linear Styles - Manual Slides



Free Sliding UniSlide (A15 Series)



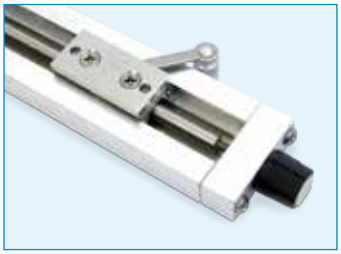
Screw Drive UniSlide (A40 Series)



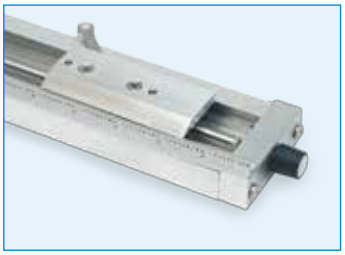
Screw Drive with Graduated Knob UniSlide (B90 Series)



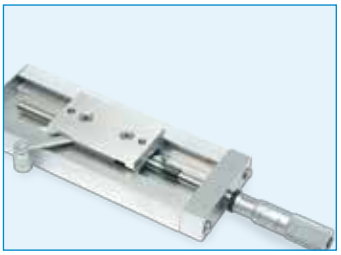
Screw Drive with Scale and Vernier UniSlide (A60 Series)



Rapid Advance Limited Fine Adjust UniSlide (A15 Series)



Rapid Advance with Scale and Vernier - Limited Fine Adjust UniSlide (A25 Series)



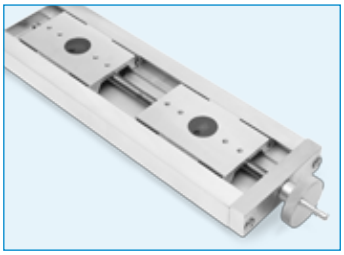
Rapid Advance with Micrometer - Limited Fine Adjust UniSlide (A25 Series)



Rapid Advance - Unlimited Fine Adjust UniSlide (A40 Series)



Rapid Advance with Scale and Vernier - Unlimited Fine Adjust UniSlide (A25 Series)



Left-Hand Right-Hand Screw Drive UniSlide (A40 Series)

UniSlide® Series - Model Configurations		A15	A25	A40	A60	B90
Free Sliding		X	X	X	X	X
Screw Drive		X	X	X	X	X
Graduated Knob *(Division on knob from 25 - 200 depending on lead screw configuration.)*		X	X	X	X	X
Scale and Vernier Screw Drive		X	X	X	X	
Rapid Advance (Full Travel) / Limited Fine Adjust	**Rapid Advance**	X	X	X		
	Scale and Vernier	X	X	X		
	Micrometer Head	X	X	X		
Rapid Advance (Full Travel) / Unlimited Fine Adjust	**Rapid Advance**		X	X	X	
	Scale and Vernier		X	X	X	
Left-Right Screw Motion		X	X	X		

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UniSlide® Specification Comparisons - Manual Linear Slides

UniSlide Series		A15	A25	A40	A60	B90
Travel Distance	Inches	1.5" - 25.5"	1.5" - 24.5"	2" - 38"	3" - 42"	3" - 39"
	cm	3.81 – 64.77	3.81 – 62.23	5.08 – 96.52	7.62 – 106.68	7.62 – 99
Base Length	Inches	3" - 27"	3" - 27"	6" - 42"	9" - 48"	12" - 48"
	cm	7.62 – 68.58	7.62 – 68.58	15.24 – 106.68	22.86 – 121.92	30.48 – 121.92
Slider Length	Inches	1.5"	2.5"	4"	6"	9"
	cm	3.81	6.35	10.16	15.24	22.86
Movement		1 axis - horizontal*	1 axis - horizontal*	1 axis - horizontal*	1 axis - horizontal*	1 axis - horizontal*
Maximum Horizontal Load	lbs.	15	30	100	240	400
	kg.	6.8	13.6	45.5	109	182
Weight	lbs.	0.31 – 1.82	1 – 3.68	2.4 – 11	8 – 40.5	21 – 59.75
	kg.	0.14 – 0.83	0.45 – 1.67	1.1 – 5	3.63 – 18.37	9.5 – 27.10
Height	Inches	0.56"	0.81"	1.06"	1.75"	3.13"
	cm	1.42	2.06	2.69	4.45	7.95
Width	Inches	1.5"	2.5"	3.5"	4.5"	7.75"
	cm	3.81	6.35	8.9	11.43	19.7

**or 1-axis vertical with a base adapter plate*

UniSlide® Linear Specifications - Manual Slides



Additional Manual UniSlide Specifications:

Repeatability:
0.000XX"

Straight-line accuracy with standard lead screws:
0.007" per 10" (0.0xx mm/20 cm)

Straight-line accuracy with precision lead screws:
0.0015" per 10" (0.033mm/20 cm)

Operating Temperature:
0 to 180° F (-18 to 82° C)

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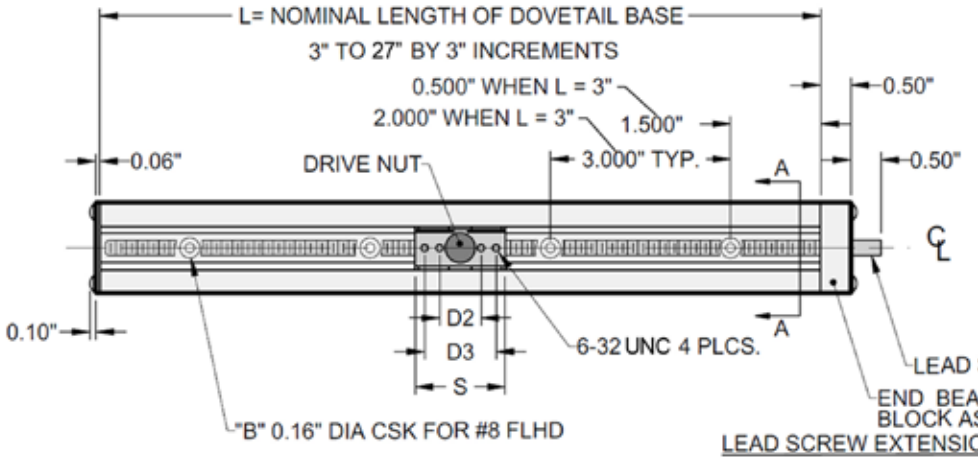
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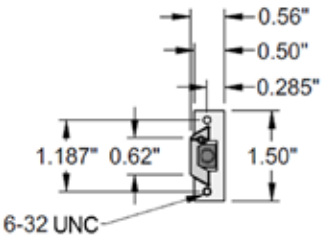
UniSlide® Linear Assembly Dimensional Drawings

Manual A15 Series UniSlide

Top View



End View A-A
(Rotate CW 90°)



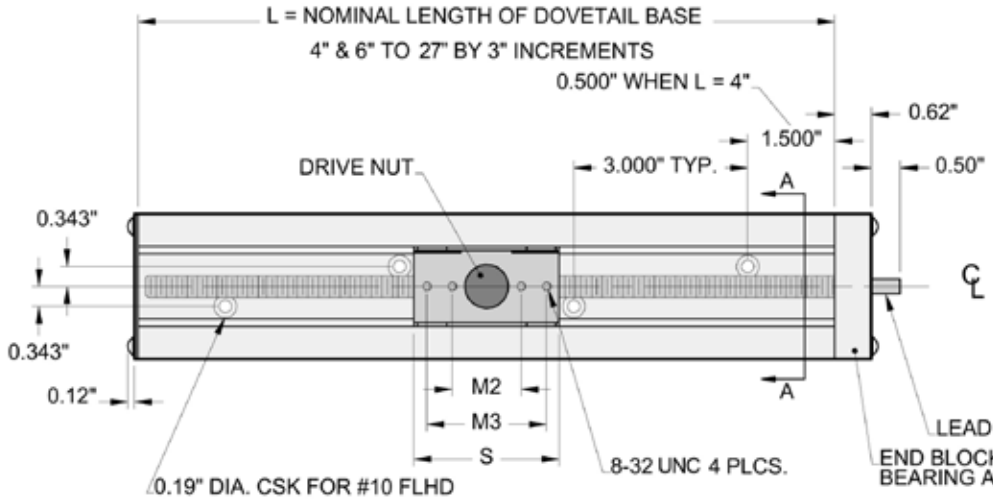
SLIDER LENGTH S		D2	D3
STANDARD	1.50"	0.688"	1.188"
OPTIONAL	2.00"	1.188"	1.688"
OPTIONAL	3.00"	1.188"	2.688"

LEAD SCREW EXTENSION DIA.

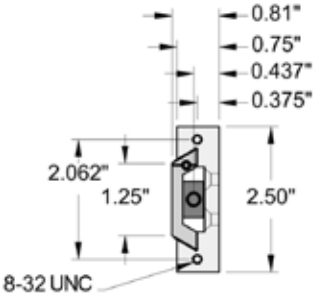
0.218" FOR B & P20
0.231" FOR C & P40
0.250" FOR K1 & Q1
0.250" FOR K2 & Q2

Manual A25 Series UniSlide

Top View



End View A-A
(Rotate CW 90°)



SLIDER LENGTH S		M2	M3
STANDARD	2.50"	1.188"	2.062"
OPTIONAL	3.00"	2.062"	2.562"
OPTIONAL	4.00"	2.062"	3.562"

LEAD SCREW EXTENSION DIA.

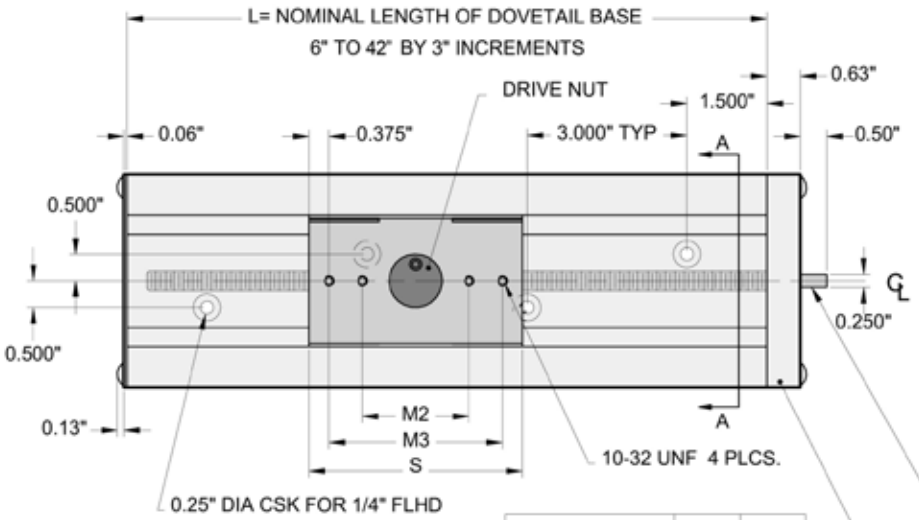
0.218" FOR B & P20
0.231" FOR C & P40
0.250" FOR W1 & P10
0.250" FOR K1 & Q1
0.250" FOR K2 & Q2

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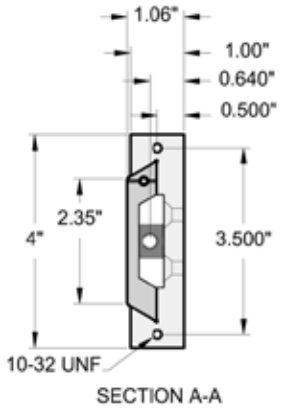
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Manual A40 Series UniSlide

Top View



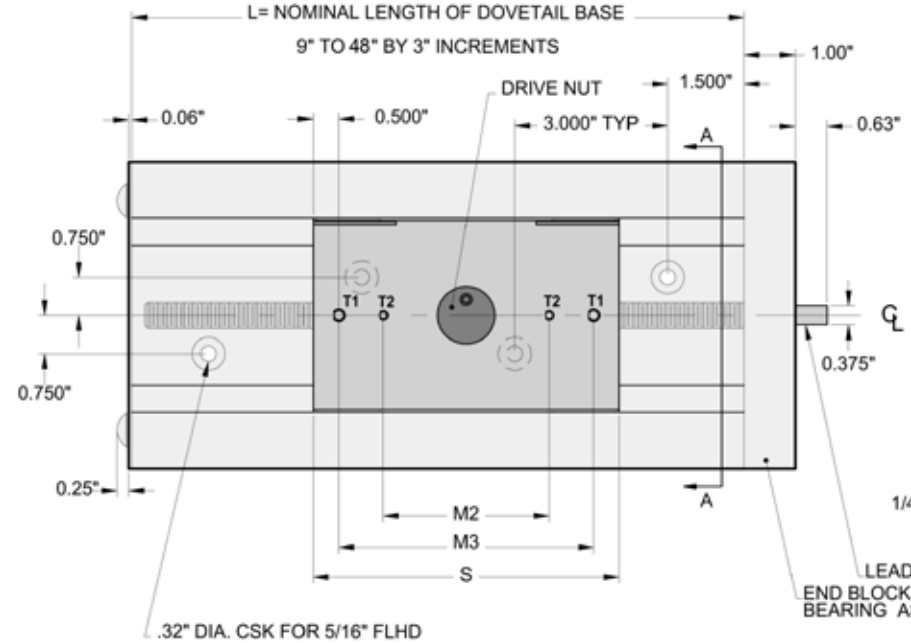
End View A-A
(Rotate CW 90°)



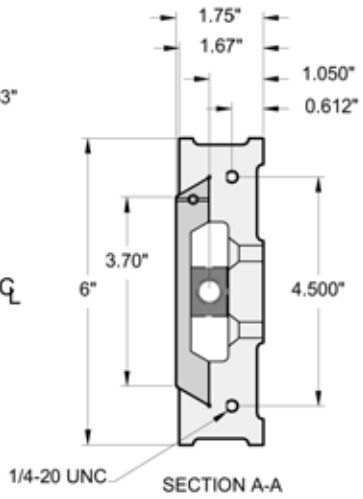
SLIDER LENGTH S		M2	M3
STANDARD	4.00"	2.000"	3.250"
OPTIONAL	6.00"	3.250"	5.250"

Manual A60 Series UniSlide

Top View



End View A-A
(Rotate CW 90°)



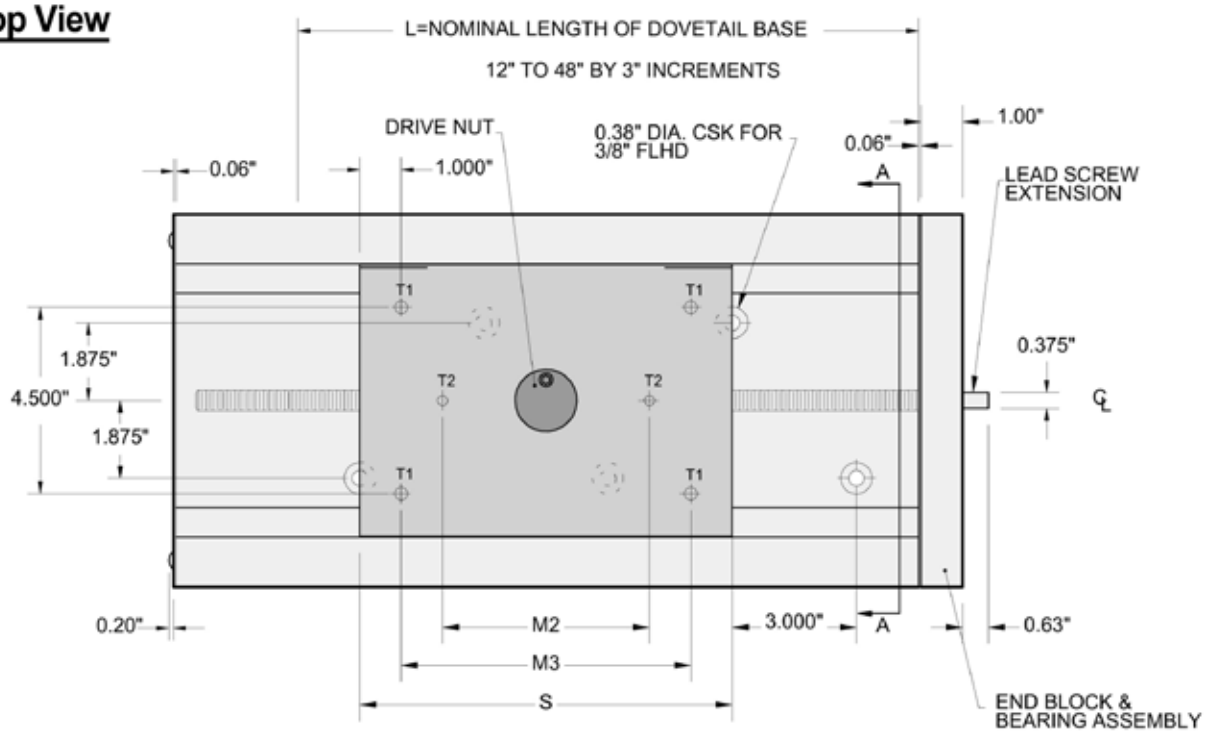
SLIDER LENGTH S		M2	M3	T1	T2
STANDARD	6.00"	3.250"	5.000"	1/4-20	10-32
OPTIONAL	8.00"	5.000"	7.000"	1/4-20	1/4-20

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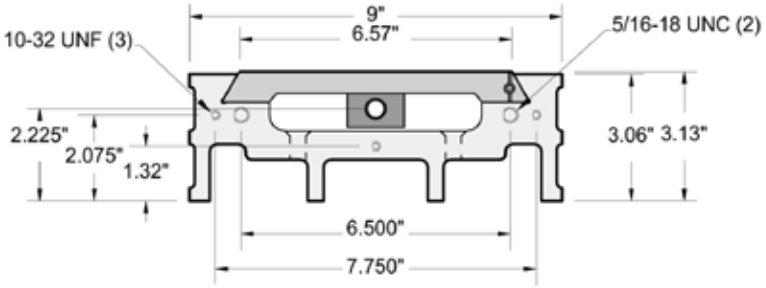
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Top View

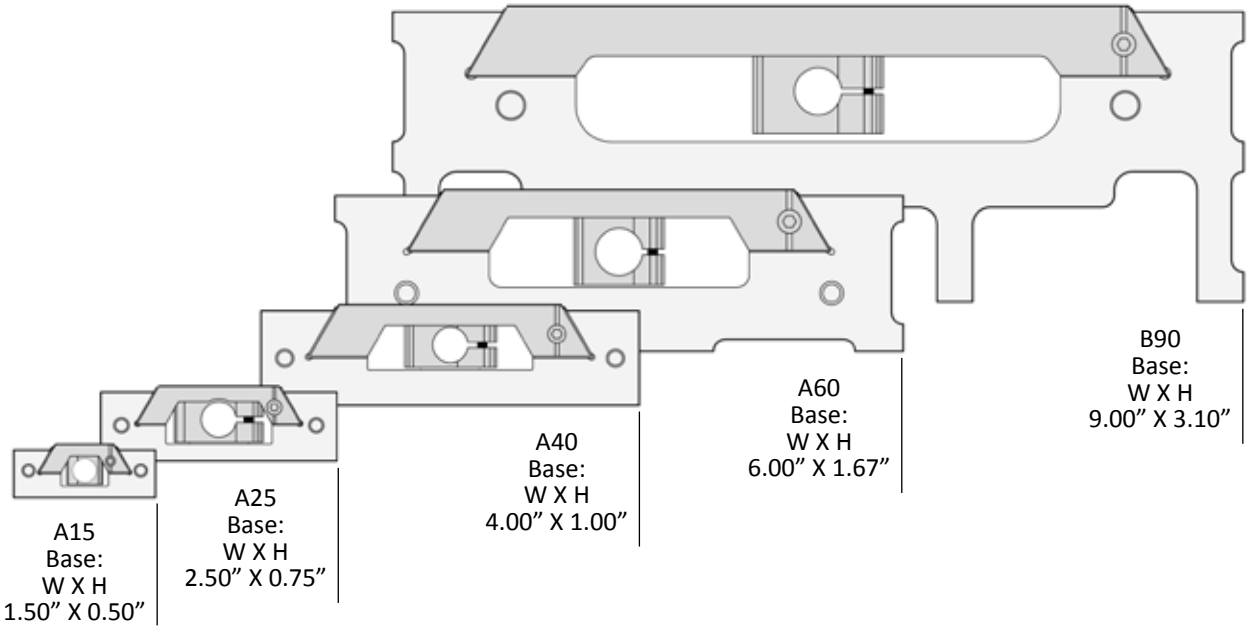


End View A-A

SLIDER LENGTH S	M2	M3	T1	T2
STANDARD 9.00"	5.000"	7.000"	5/16-18	1/4-20
OPTIONAL 12.00"	5.000"	10.000"	5/16-18	1/4-20



UniSlide® Base Cross Sections



UniSlide® Linear Configurations - Manual Slides

Z	A	1	5	0	3	P	2	0	-	S	1	.	5	SLR	-	BK

Options – Prefix

Z	=	Hard Anodized - Black
N	=	Electroless Nickel (All Parts Included)

Series

A15
A25
A40
A60
B90

Base Length

03	=	3 in
06	=	6 in
09	=	9 in
12	=	12 in
15	=	15 in
18	=	18 in
21	=	21 in
etc-		

Leadscrew / Screw Pitch

Std	Prec
C	P40
B	P20
W1*	P10*
W2*	P5*
K1	Q1
K2	Q2

Scale & Vernier

English	Metric
CE	K1M
BE	K2M
W1E*	
W2E*	

Rapid Advance (Limited Fine Adjust)**

English	Metric
D	
GE	GM
w/ Scale & Vernier	
DE	DM

Rapid Advance (Unlimited Fine Adjust)**

English	Metric
H20	H1
w/ Scale & Vernier	
HE	HM

A	Free Sliding

Slider Length

S1.5	=	1.5 in
S2.5	=	2.5 in
S4	=	4 in
S6	=	6 in
S9	=	9 in

Options – Suffix ***

BK	= Black Anodize (All Surfaces)
TL	= Thumbscrew-on-leadscrew lock
SLR	= Slider Lock on right side, S must be greater than L/2 (S>L/2)
SLL	= Slider Lock on left side, S must be greater than L/2 (S>L/2)
TSL	= Traveling Slider Lock
RC	= Revolution Counter
WC*	= Way Covers (Not available on A15 Series or in combination with SLL, SLR, TSL or Linear Encoder)
LR	= Left-Right Screw Motion (Available o A15, A25 and A40 Series)

LEAD SCREW CODE SELECTION CHART

Advance per Revolution

Standard Accuracy Screw *(Lead Error < 0.007 in / 10 in)*

0.025 in	0.050 in	0.100 in	0.200 in	1 mm	2 mm
C	B	W1	W2	K1	K2
CE	BE	W1E	W2E	K1M	K2M

Precision Accuracy Screw *(Lead Error < 0.0015 in / 10 in)*

0.025 in	0.050 in	0.100 in	0.200 in	1 mm	2 mm
P40	P20	P10	P5	Q1	Q2

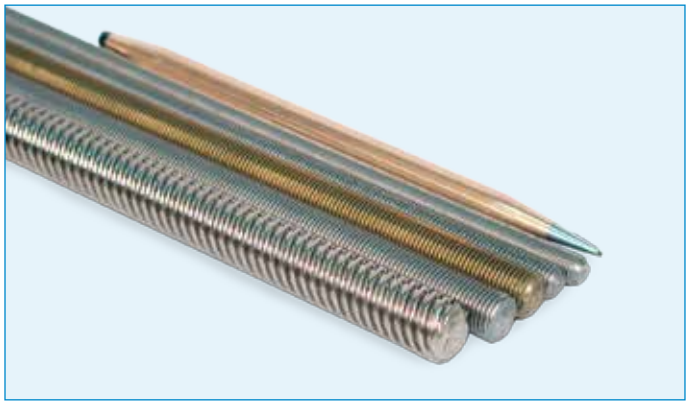
UniSlide Part Number Schematic

* Not available on A15 Series
** Not available on B90 Series
*** Not all options available on all configurations

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UniSlide® Lead Screw Specifications by Series

Series	Turns per Inch	Advance per Revolution	Lead Screw Diameter
English Thread			
A15, A25	40	0.025”	1/4”
A40	40	0.025”	3/8”
A60, B90	40	0.025”	1/2”
A15, A25	20	0.05”	1/4”
A40	20	0.05”	3/8”
A60, B90	20	0.05”	1/2”
A25, A40	10	0.100”	3/8”
A60, B90	10	0.100”	1/2”
A25, A40	5	0.200”	3/8”
A60, B90	5	0.200”	1/2”
A25, A40	2.5	0.400”	3/8”
A60, B90	2.5	0.400”	1/2”
Metric Thread			
A15, A25	10	1 mm	7 mm
A40	10	1 mm	10 mm
A60, B90	10	1 mm	14 mm
A15, A25	5	2 mm	7 mm
A40	5	2 mm	10 mm
A60, B90	5	2 mm	14 mm



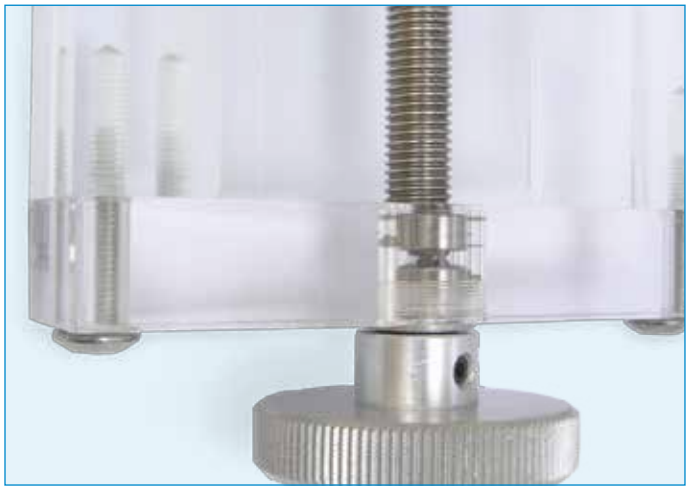
Velmex UniSlides can be configured with a selection of different lead screws in different sizes and diameters. They are 303 stainless steel or electroless nickel-plated cold rolled steel. Unique left and right hand threads combined on a single shaft are used for together / apart motion incorporated in the Left-Right Screw Motion Unislide models.

Lead Screws – Velmex lead screws are formed by rolling through precision dies rather than cutting on a screw machine. This results in higher quality and accuracy.

Velmex offers standard accuracy or precision accuracy lead screws on all UniSlide translation stages. Standard lead screws deviate in pitch no more than 0.007” / 10” (0.18 mm / 25.4 / cm). Precision screws on Graduated Knob models deviate no more than 0.0015” / 10” (0.04 mm / 25.4 CM). They are available in English or Metric.

Thrust Bearing – Heavy-duty thrust bearings are specifically designed to support the axial load on the lead screw. The maximum thrust load is limited by the lead screw thrust bearing (See the UniSlide Specifications that follow.) Most models in the A15 and A25 Series of UniSlides use pre-loaded Delrin® bearings. The other models, along with the A40, A60 and A90 Series models have pre-loaded ball bearings.

The thurst-bearings connected to the lead screw are visible in this see-through UniSlide display.

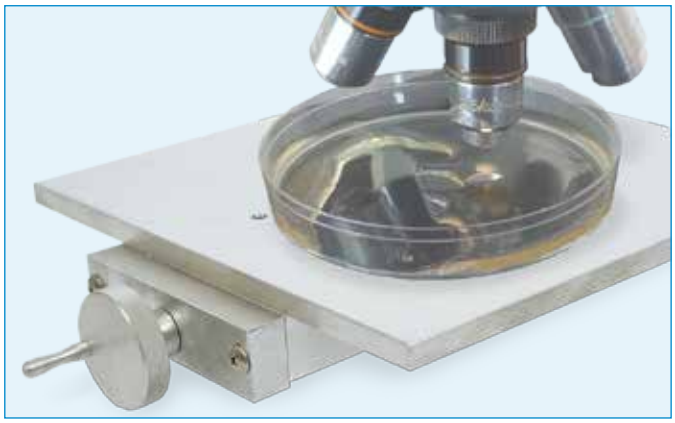


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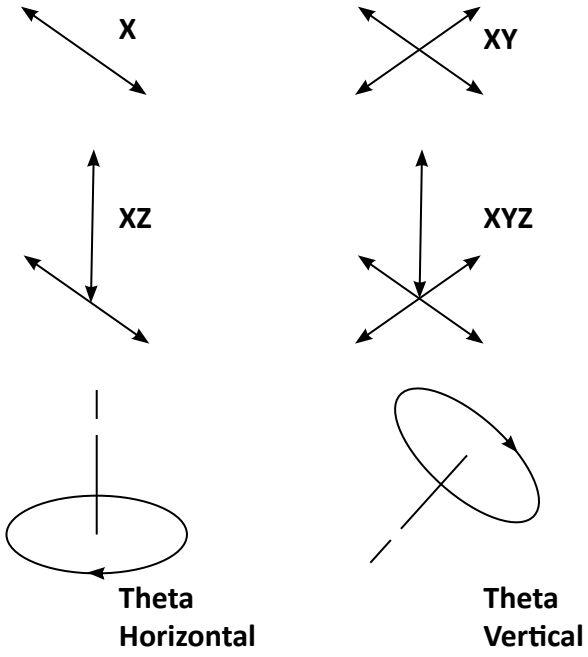
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UniSlide® Load Specifications - Manual Slide



Aside from travel distance, speed and resolution; load and position of the load is an important factor when choosing a UniSlide

Axis Configurations



Normal load capacity for single (X) and Y or Z axis

Series	Load Normal (L_N)*		Load Thrust (L_T)*	
	lbs.	kg.	lbs.	kg.
A15	5	2.27	1	0.45
A25	10	4.54	3	1.36
A40	40	18.14	20‡	9.07
A60	80	36.29	40‡	18.14
B90	140	63.5	70	31.75

**Less than maximum. Operational limits below. ‡5 lbs. (2.28 kg) max for Rapid Advance models.*

Load capacity for low deflection on the unsupported Y axis of XY and XYZ or other unsupported, cantilever loads.

Series	Cantilever Side (L_{CS})*		Cantilever Inline (L_{CI})*	
	lbs. / in	kg. / cm	lbs. / in	kg. / cm
A15	5 lb-in	5.8 kg-cm	10 lb-in	11.5 kg-cm
A25	10 lb-in	11.5 kg-cm	20 lb-in	23 kg-cm
A40	32 lb-in	37 kg-cm	64 lb-in	73.7 kg-cm
A60	80 lb-in	92.2 kg-cm	160 lb-in	184 kg-cm
B90	120 lb-in	138 kg-cm	204 lb-in	235 kg-cm

Maximum Dynamic Load Capacities - Manual UniSlides

Series	Horizontal Central		Cantilevered Load		Vertical Central	
	lbs.	kg.	lbs. / in	kg. / cm	lbs.	kg.
A15	15	6.8	20 lb-in	23 kg-cm	10	4.5
A25	30	13.6	40 lb-in	46 kg-cm	10*	4.5*
A40	100	45.5	130 lb-in	150 kg-cm	50	22.7
A60	240	109	320 lb-in	369 kg-cm	100	45
B90	400	182	480 lb-in	550 kg-cm	100	45

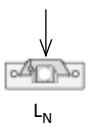
**For A25 models with 1/4" or 7 mm diameter lead screws: 10 lb or 4.5 kg*

For A25 models with 3/8" or 10 mm diameter lead screws: 30 lb or 15.5 kg

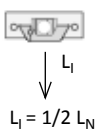
Loads

Combining UniSlides in XY or XYZ configurations can create a cantilever load. In these configurations the X axis carries the weight of the Y axis and/or Z axis and the attached payload

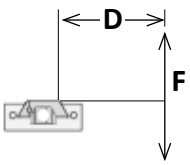
Normal (L_N)



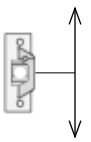
Inverted (L_I)



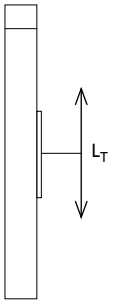
Cantilever Inline (L_{CI})



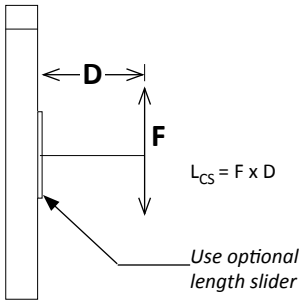
Edge (L_E)



Thrust

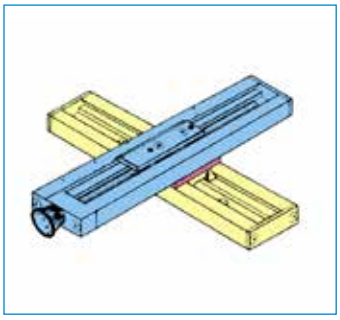


Cantilever Side (L_{CS})

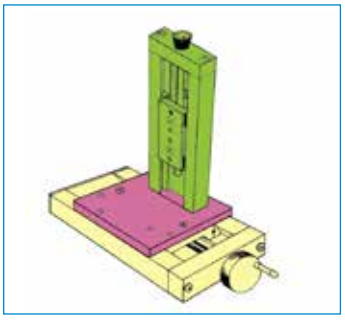


UniSlide® Combinations

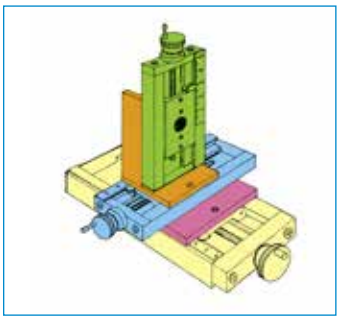
Velmex UniSlides can be combined with other UniSlides and/or other Velmex linear or rotary stages to make configurations designed for specific functionalities and applications. Utilizing versatile Velmex adapter plates and brackets any number of axis, shapes and sizes can be created. Representative examples follow.



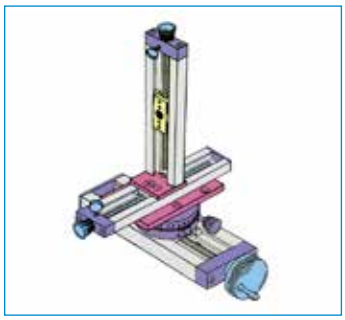
XY configuration - Two A15 Series UniSlides combined using an easily attached adapter.



XZ configuration - Two different series UniSlides combined using an adapter.



XYZ configuration - Three different series UniSlides combined using an adapter plate and a bracket.

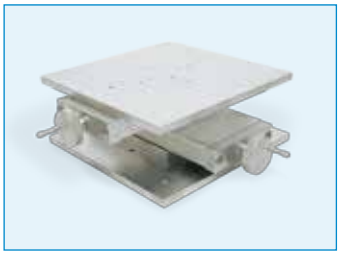


XYZ and Theta configuration - Three different series UniSlides combined with a Velmex Turntable using various adapters.

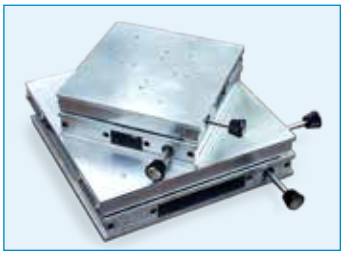
All Velmex products, standard and custom, are built to order.

UniSlide® Pre-Configured XY And Elevating Tables

XY TABLES - Velmex UniSlides also include pre-assembled XY tables that meet common applications. These tables are comprised of two linear UniSlides and a large work surface. They have all the same quality features of the standard one axis linear UniSlides.



AXY4000 and AXY6000 Series pre-configured XY tables can handle loads to 100 lbs.



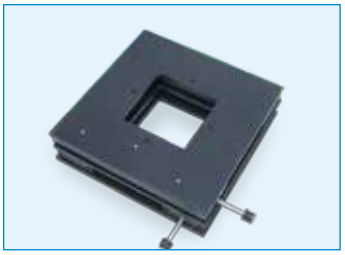
AXY2500 Series pre-configured XY tables feature a low profile. They are standard with an extra-large work surface.

UniSlide®	Series	AXY2500			AXY4000		AXY6000		
	Model	AXY2506	AXY2509	AXY2512	AXY4006	AXY4009	AXY6009	AXY6012	AXY6015
Travel Distance	Inches	2" x 2"	3" x 3"	4" x 4"	2" x 2"	5" x 5"	3" x 3"	6" x 6"	9" x 9"
	cm	5 x 5	7.6 x 7.6	10.2 x 10.2	5 x 5	12.7 x 12.7	7.6 x 7.6	15.2 x 15.2	22.9 x 22.9
Base Measurement	Inches	6.75" x 6.75"	9.75" x 9.75"	12.75" x 12.75"	6" x 6"	9" x 9"	9" x 9"	12" x 12"	12" x 12"
	cm	17.15 x 17.5	24.8 x 24.8	32.4 x 32.4	15.2 x 15.2	22.9 x 22.9	22.9 x 22.9	30.5 x 30.5	30.5 x 30.5
Maximum Envelope	Inches	13" x 13"	18" x 18"	23.4" x 23.4"	12.5" x 12.5"	18.5" x 18.5"	17" X 17"	23" x 23"	29" x 29"
	cm	33 x 33	45.7 x 45.7	59.4 x 59.4	31.8 x 31.8	47 x 47	43 X 43	77.4 x 77.4	73.7 x 73.7
Movement		Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis	Horizontal – XY Axis
Maximum Horizontal Load	lbs.	25	25	25	60	25	100	60	30
	kg.	11.34	11.34	11.34	27.22	11.34	45.36	27.22	13.61
Weight	lbs.	7.5	12.5	17.7	8.7	13	24.5	32.7	36
	kg.	3.4	537	8.03	3.95	5.9	11.11	14.83	16.33
Height	Inches	2.4"	2.4"	2.4"	3.78"	3.78"	5.5"	5.5"	5.5"
	cm	6.09	6.09	6.09	9.6	9.6	13.97	13.97	13.97
Minimum Aperture	Inches	0.5"	0.5"	0.5"	n/a	n/a	n/a	n/a	n/a
	cm	1.27	1.27	1.27	n/a	n/a	n/a	n/a	n/a
Maximum Aperture	Inches	1.5" Sq.	4.5" Sq.	7.5" Sq.	n/a	n/a	n/a	n/a	n/a
	cm	3.81	11.43	19.05	n/a	n/a	n/a	n/a	n/a

UniSlide® Pre-Configured XY And Elevating Tables (continued)

Lead Screw Specifications of UniSlide XY Tables

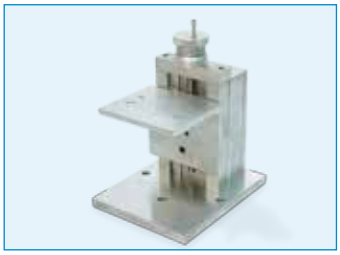
Series	Turns per Inch	Advance per Revolution	Screw Motion Type Code Letter – Standard Accuracy	Lead Screw Diameter
AXY25	10	0.100”	W1	3/8”
AXY40	10	0.100”	W1	3/8”
AXY60	10	0.100”	W1	1/2”



An aperture in the work surface of the AXY2500 is available as an option.

Additional options for XY Tables include:
- *Black anodize coating*
- *Graduated knob*
- *Revolution counter*

Elevating Tables - Velmex UniSlide Elevating Tables are ideal for vertical position applications. Series B29, B49 and B69 are designed with more strength and rigidity using the deeper Type “B” UniSlide base. The right angle platform allows for longer travel distances. They feature a top-mounted knob for convenient table height adjustments. The A39 Series is a free-standing adjustable table. It is easy to move small loads with the large thumb wheel.



AXY4000 and AXY6000 Series pre-configured XY tables can handle loads to 100 lbs.



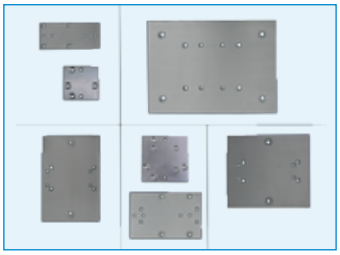
AXY2500 Series pre-configured XY tables feature a low profile. They are standard with an extra-large work surface.

UniSlide®	Series	B29	B49	B69
Vertical Travel Distance	**Inches**	1.5” - 6.5”	2” - 8”	3“ - 9”
	cm	3.81 – 16.51	5.08 – 20.32	7.62 – 22.86
Height	**Inches**	6.875” - 11.875”	8.875” - 14.875”	12.75” - 18.75”
	cm	17.46 – 30.16	22.54 – 37.78	32.39 – 47.63
Platform Size	**Inches**	2.5” X 4”	4” X 4.5”	6” X 6.5”
	cm	6.35 – 10.16	10.16 – 11.43	15.24 – 16.51
Movement		vertical	vertical	vertical
Maximum Vertical Load	**lbs.**	30	50	100
	kg.	13.6	22.68	45.5
Weight	**lbs.**	2.75 – 4.7	6.7 – 9.18	14.7 – 19.5
	kg.	1.25 – 2.13	3.04 – 4.18	36.7 – 8.85
Minimum Platform Height	**Inches**	3.375”	4.5”	6.5”
	cm	8.57	11.43	16.51
Assembly W X L	**Inches**	4” X 4”	6” X 7.31”	8” X 9.75”
	cm	10.16 X 10.16	15.24 X 18.57	20.32 X 24.77

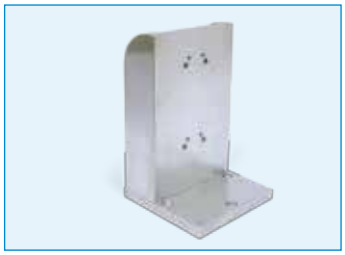
	Series	A39
Vertical Travel Distance	**Inches**	1” - 3.25”
	cm	2.54 – 8.26
Retracted Height	**Inches**	2.25” - 4.5”
	cm	5.72 - 11.43
Platform Size	**Inches**	2.50” X 4.1”
	cm	6.35 – 10.41
Movement		vertical
Maximum Vertical Load	**lbs.**	25
	kg.	11.34
Weight	**lbs.**	1.3 – 2
	kg.	0.59 – 0.91
Maximum Platform Height	**Inches**	3.25” - 7.75”
	cm	8.26 – 19.69
Assembly W X L	**Inches**	2.50” X 4.1”
	cm	6.35 – 10.41

Adapter Plates and Brackets

UniSlides of the same series, same lengths, different series and varying lengths can be combined using adapter plates and brackets for a virtually limitless selection of configurations.



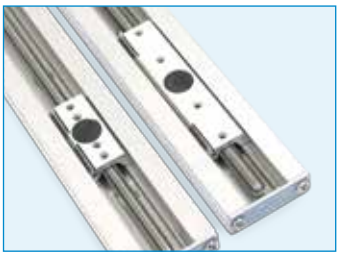
XY Plates *– allow two UniSlides to be converted into an XY motion system. They can also be used as auxiliary payload mounting plates.*



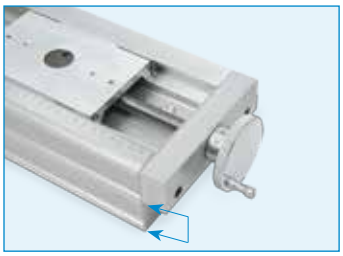
XZ Plates and Brackets *– allow UniSlide assemblies to be positioned vertically.*

UniSlide® Options and Accessories - For Manual Series

There is a range of options available for Velmex UniSlides that can be used to further customize the UniSlide to an exact application.



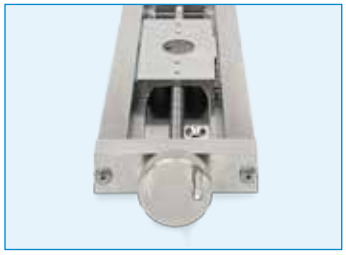
Longer Slider (Carriage) Lengths *– Longer Sliders can be added to specific UniSlide models to increase the footprint available for a payload, to support and further stabilize the payload in a vertical configuration, to add stability and support to the Y axis of an XY configuration. UniSlides can also be configured with additional sliders for specific applications.*



Deeper "B" Base *– Series A25, A40 and A60 UniSlides are also available in deeper base configurations for greater base stiffness and strength. The higher base also provides greater clearance for the hand wheel. Height is increased. All other dimensions and load capacities remain the same.*



Black Anodized Coating



Nickel Plated Finish

Finishes *– Optional finishes are available for Velmex UniSlides. Standard stages have a brushed aluminum finish. They can be cosmetically anodized in black*, hard-coat anodized to increase abrasion-resistance, or plated with electroless nickel for a slick, corrosion resistant surface. Specialized coatings such as a ceramic-hard protective coating for food processing and medical applications are also available at an additional up-charge. *Alternative anodized colors available for an additional up-charge.*

	Specified by letter		Series					Option is available on these UniSlide styles					
	P/N Prefix ("X-") or P/N Suffix ("-X")	Slider Length	A15	A25	A40	A60	A90	Free Travel	Screw Drive	Graduated Knob	Scale and Vernier	Rapid Advance	Left Right Screw
Longer slider lengths		S2	●					●	●	●	●	●	●
		S3	●	●				●	●	●	●	●	●
		S4		●				●	●	●	●	●	●
		S6			●			●	●	●	●	●	●
		S8				●		●	●	●	●	●	●
		S12					●	●	●	●	●	●	●
Deeper "B" base	**B-**		NA	●	●	●	NA	●	●	●	●	●	●
Optional Finish													
Hard Anodized Base, dyed black	**Z-**		●	●	●	●	●	●	●	●			
Electroless Nickel	**N-**		●	●	●	●	●	●	●	●			
Black Anodize	**-BK**		●	●	●	●	●	●	●	●	●	●	●
Revolution Counter	**-RC**		●	●	●	●	●	NA	●	●	●		●

Revolution Counter *– A mechanical revolution counter provides a convenient digital readout in either English or Metric. It increments every 1/10 revolution.*



More Options and Accessories continued on next page.

Options and Accessories for UniSlide® (continued)

	Specified by letter		Series					Option is available on these UniSlide styles					
	P/N Prefix ("X-") or P/N Suffix ("-X")	Slider Length	A15	A25	A40	A60	A90	Free Travel	Screw Drive	Graduated Knob	Scale and Vernier	Rapid Advance	Left Right Screw
Locks													
Thumbscrew-on-lead screw lock	**-TL**		●	●	●	●	●		●	●	●		●
Slider lock, Right side	**-SLR**		●	●	●	●	●	●	●	●	●	●	●
Slider lock, Left side	**-SLL**		●	●	●	●	●	●	●	●	●	●	●
Traveling Slider Lock (available only in standard slider length)	**-TSL**		●	●	●	●	●	●	●	●		●	●
Way Covers	**-WC**		NA	●	●	●	●		●	●			●
Right Angle Gear Box			NA	●	●	●	●		●	●	●	●	●



Thumbscrew-on-Lead-Screw Lock *– An easy method to fix the slider utilizing a simple thumbscrew. The thumbscrew lock increases the overall length of the UniSlide.*



Slider Lock *– Mounted at the mid-point on the base and is tightened to prevent slider movement. It can be mounted on the right or left of the base.*



Traveling Slider Lock *– This lock attaches to the slider to lock the carriage in place.*



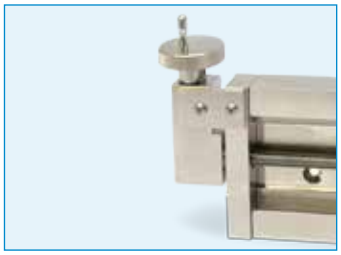
Way Covers *– protect the slider and dovetail base from dust, dirt and grit that could hamper the efficient operation of the slide. Way covers increase slider height and reduce the travel length of linear UniSlides.*



Encoders and VRO™ Readout

For a high resolution position readout an encoder and Velmex's VRO encoder readout can be mounted to most linear UniSlide assemblies. An encoder, mounted directly to the slider gives a true and accurate reading eliminating lead screw and backlash errors.

The VRO is compatible with all 5V incremental encoders. It can monitor one or two axis. Fully functional, it features automatic memory back-up of settings, sleep mode and self diagnostics. It's highly visible, wide-screen LED display makes it easy to view the positioning results. (Not available for all UniSlide models.)



Right Angle Gearbox - *Allows the control knob or wheel to be offset perpendicular to the UniSlide. Ideal for tight spaces or applications where access to the end of the stage is limited.*

TA Measuring System



UniSlides, along with the VRO Readout, are a key component of Velmex's Tree Ring Measuring System, which has long been the standard for North America's Dendrological research community and used by many research universities around the world.

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Velmex BiSlide® Assemblies offer durable, easy-to-configure, low cost and modular design for a highly effective and very versatile positioning device.



Velmex XSlide™ Assemblies are compact positioning stages, highly suitable for high performance scanning of smaller loads. They are very effective in limited space applicaitons.



Velmex Rotary Tables deliver 360° of continuous motion for precise, continuous and incremental rotating for scanning, assembly, testing and production.

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