



"Positioning Systems for Science and Industry"

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Please call 1-800-642-6446 or +1-585-657-6151 for parts or component pricing.
Please also call for custom configurations and sizes.

Velmex accepts:
Mastercard, VISA



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"Positioning Systems for Science and Industry"

MANUAL VELMEX PRODUCTS

Velmex manual products include:

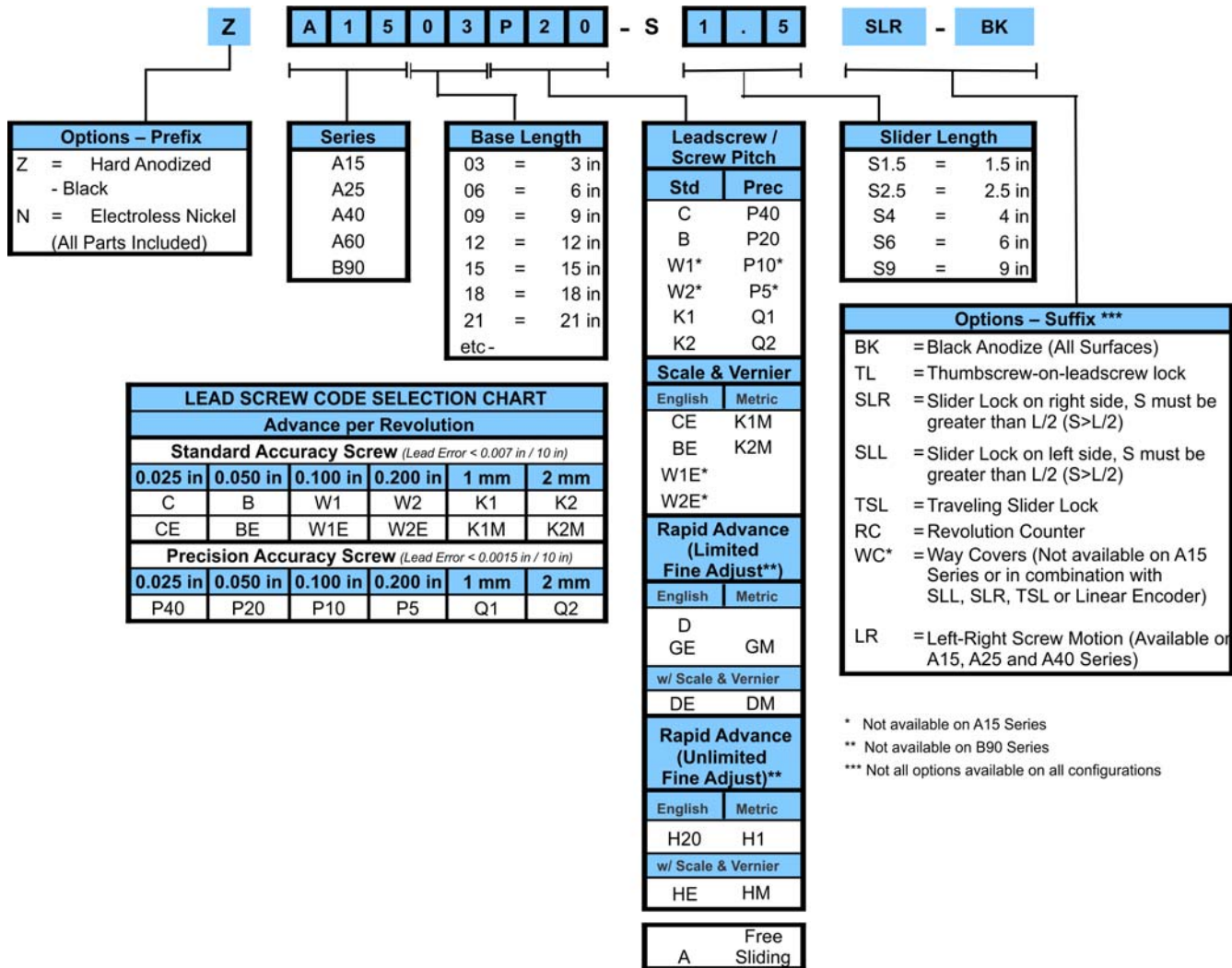
- UniSlide® linear assemblies – A15, A25, A40, A60 and B90 Series
- UniSlide® XY Tables – AXY25, AXY40 and AXY60 Series
- UniSlide® Elevating Tables – B29, B49, B69 and A39 Series
- UniSlide® TA Measuring Systems
- Velmex Rotary Tables
- Velmex Turntables
- BiSlide® Assemblies – MN10 Series
- Side Knob BiSlides® - MN10 Series
- Parallel Coupled BiSlides®
- XSlide® Assemblies – XF10 Series, XN10 Series

Accessories and options include XY and XZ adapters and VRO™ Encoder Readout.

Manual UniSlide® Assemblies

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.

UniSlide® Assembly Part No. Definition





"Positioning Systems for Science and Industry"

UniSlide® Manual Series A15

UniSlide® Manual Series A15 with standard 1.5" length slider

Read down for travel, across for desired lead screw and price. Call Velmex for longer units.

A15 Free Sliding Models

| Travel Inches | Item Number | Base Length | Weight | |
|------------------|-------------|----------------|--------|------|
| | | | lbs. | kg |
| 1.5" | A1503A-S1.5 | 3" | 0.31 | 0.14 |
| 4.5" | A1506A-S1.5 | 6" | 0.44 | 0.2 |
| 7.5" | A1509A-S1.5 | 9" | 0.63 | 0.28 |
| 10.5" | A1512A-S1.5 | 12" | 0.81 | 0.37 |
| 13.5" | A1515A-S1.5 | 15" | 1 | 0.45 |
| 16.5" | A1518A-S1.5 | 18" | 1.2 | 0.54 |
| 19.5" | A1521A-S1.5 | 21" | 1.44 | 0.65 |
| 22.5" | A1524A-S1.5 | 24" | 1.63 | 0.74 |
| 25.5" | A1527A-S1.5 | 27" | 1.82 | 0.83 |

A15 Screw Drive Models

| Travel Inches | Lead Screw Pitch | | | | Base Length | Weight | |
|------------------|------------------|------------------|-----------------|----------------|----------------|--------|------|
| | 40 turns inch | 20 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 1.5" | A1503C-S1.5 | A1503B-S1.5 | A1503K1-S1.5 | A1503K2-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506C-S1.5 | A1506B-S1.5 | A1506K1-S1.5 | A1506K2-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509C-S1.5 | A1509B-S1.5 | A1509K1-S1.5 | A1509K2-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512C-S1.5 | A1512B-S1.5 | A1512K1-S1.5 | A1512K2-S1.5 | 12" | 1 | 0.45 |
| 13.5" | A1515C-S1.5 | A1515B-S1.5 | A1515K1-S1.5 | A1515K2-S1.5 | 15" | 1.25 | 0.57 |

A15 Graduated Knob Models

| Travel Inches | | | | | Base Length | Weight | |
|------------------|------------------|------------------|-----------------|----------------|----------------|--------|------|
| | 40 turns inch | 20 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 1.5" | A1503P40-S1.5 | A1503P20-S1.5 | A1503Q1-S1.5 | A1503Q2-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506P40-S1.5 | A1506P20-S1.5 | A1506Q1-S1.5 | A1506Q2-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509P40-S1.5 | A1509P20-S1.5 | A1509Q1-S1.5 | A1509Q2-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512P40-S1.5 | A1512P20-S1.5 | A1512Q1-S1.5 | A1512Q2-S1.5 | 12" | 1 | 0.45 |

A15 Scale and Vernier Screw Drive Models

| Travel Inches | | | | | Base Length | Weight | |
|------------------|------------------|------------------|-----------------|----------------|----------------|--------|------|
| | 40 turns inch | 20 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 1.5" | A1503CE-S1.5 | A1503BE-S1.5 | A1503K1M-S1.5 | A1503K2M-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506CE-S1.5 | A1506BE-S1.5 | A1506K1M-S1.5 | A1506K2M-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509CE-S1.5 | A1509BE-S1.5 | A1509K1M-S1.5 | A1509K2M-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512CE-S1.5 | A1512BE-S1.5 | A1512K1M-S1.5 | A1512K2M-S1.5 | 12" | 1 | 0.45 |

A15 Rapid Advance Model D, DE/DM with Scale and Vernier and GE/GM with Micrometer, all with limited fine adjust

| Travel Inches | Model D | Base Length | Weight | |
|------------------|-------------|----------------|--------|------|
| | | | lbs. | kg |
| 1.5" | A1503D-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506D-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509D-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512D-S1.5 | 12" | 1 | 0.45 |

with Scale and Vernier

| Travel Inches | Model DE | Model DM | Base Length | Weight | |
|------------------|--------------|--------------|----------------|--------|------|
| | | | | lbs. | kg |
| 1.5" | A1503DE-S1.5 | A1503DM-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506DE-S1.5 | A1506DM-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509DE-S1.5 | A1509DM-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512DE-S1.5 | A1512DM-S1.5 | 12" | 1 | 0.45 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A15

A15 Rapid Advance Model D, DE/DM with Scale and Vernier and GE/GM with Micrometer, all with limited fine adjust

with Micrometer Head

| Travel Inches | Model | | Base Length | Weight | |
|------------------|--------------|--------------|----------------|--------|------|
| | GE | GM | | lbs. | kg |
| 1.5" | A1503GE-S1.5 | A1503GM-S1.5 | 3" | 0.5 | 0.23 |
| 4.5" | A1506GE-S1.5 | A1506GM-S1.5 | 6" | 0.5 | 0.23 |
| 7.5" | A1509GE-S1.5 | A1509GM-S1.5 | 9" | 0.75 | 0.34 |
| 10.5" | A1512GE-S1.5 | A1512GM-S1.5 | 12" | 1 | 0.45 |

A15 Left-Right Screw Motion UniSlides

| Slider Separation | 40 turns | 20 turns | Base length L | Weight | |
|----------------------|----------------|----------------|------------------|--------|------|
| | inch | inch | | lbs. | kg |
| 3 | A1506C-S1.5-LR | A1506B-S1.5-LR | 6" | 0.5 | 0.23 |
| 6 | A1509C-S1.5-LR | A1509B-S1.5-LR | 9" | 0.75 | 0.34 |
| 9 | A1512C-S1.5-LR | A1512B-S1.5-LR | 12" | 1 | 0.45 |
| 12 | A1515C-S1.5-LR | A1515B-S1.5-LR | 15" | 1.25 | 0.57 |
| 15 | A1518C-S1.5-LR | A1518B-S1.5-LR | 18" | 1.5 | 0.68 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A25

UniSlide® Manual Series A25 with standard 2.5" long slider

Read down for travel, across for desired lead screw and price. Call Velmex for longer units.

A25 Free Sliding Models

| Travel Inches | Item Number | Base Length | Weight | |
|------------------|-------------|----------------|--------|------|
| | | | lbs. | kg |
| 1.5" | A2504A-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506A-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509A-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512A-S2.5 | 12" | 2.1 | 0.94 |
| 12.5" | A2515A-S2.5 | 15" | 2.44 | 1.11 |
| 15.5" | A2518A-S2.5 | 18" | 2.78 | 1.26 |
| 18.5" | A2521A-S2.5 | 21" | 3 | 1.36 |
| 21.5" | A2524A-S2.5 | 24" | 3.34 | 1.51 |
| 24.5" | A2527A-S2.5 | 27" | 3.68 | 1.67 |

A25 Screw Drive Models

| Travel Inches | Lead Screw Pitch | | | | | Base Length | Weight | |
|------------------|------------------|------------------|------------------|-----------------|----------------|----------------|--------|------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 1.5" | A2504C-S2.5 | A2504B-S2.5 | | A2504K1-S2.5 | A2504K2-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506C-S2.5 | A2506B-S2.5 | | A2506K1-S2.5 | A2506K2-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509C-S2.5 | A2509B-S2.5 | | A2509K1-S2.5 | A2509K2-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512C-S2.5 | A2512B-S2.5 | | A2512K1-S2.5 | A2512K2-S2.5 | 12" | 2.1 | 0.94 |

12.5" to 24.5" see the next block of Model Numbers.

| Travel Inches | Lead Screw Pitch | | | | | Base Length | Weight | |
|------------------|------------------|------------------|------------------|-----------------|----------------|----------------|--------|------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 1.5" | | | A2504W1-S2.5 | | | 4" | 1 | 0.45 |
| 3.5" | | | A2506W1-S2.5 | | | 6" | 1 | 0.45 |
| 6.5" | | | A2509W1-S2.5 | | | 9" | 1.7 | 0.77 |
| 9.5" | | | A2512W1-S2.5 | | | 12" | 2.1 | 0.94 |
| 12.5" | A2515C-S2.5 | A2515B-S2.5 | A2515W1-S2.5 | A2515K1-S2.5 | A2515K2-S2.5 | 15" | 2.44 | 1.11 |
| 15.5" | A2518C-S2.5 | A2518B-S2.5 | A2518W1-S2.5 | A2518K1-S2.5 | A2518K2-S2.5 | 18" | 2.78 | 1.26 |
| 18.5" | A2521C-S2.5 | A2521B-S2.5 | A2521W1-S2.5 | A2521K1-S2.5 | A2521K2-S2.5 | 21" | 3 | 1.36 |
| 21.5" | A2524C-S2.5 | A2524B-S2.5 | A2524W1-S2.5 | A2524K1-S2.5 | A2524K2-S2.5 | 24" | 3.34 | 1.51 |
| 24.5" | A2527C-S2.5 | A2527B-S2.5 | A2527W1-S2.5 | A2527K1-S2.5 | A2527K2-S2.5 | 27" | 3.68 | 1.67 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A25

A25 Graduated Knob Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. kg | |
|---------------|---------------|---------------|---------------|--------------|--------------|-------------|----------------|------|
| 1.5" | A2504P40-S2.5 | A2504P20-S2.5 | | A2504Q1-S2.5 | A2504Q2-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506P40-S2.5 | A2506P20-S2.5 | | A2506Q1-S2.5 | A2506Q2-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509P40-S2.5 | A2509P20-S2.5 | | A2509Q1-S2.5 | A2509Q2-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512P40-S2.5 | A2512P20-S2.5 | | A2512Q1-S2.5 | A2512Q2-S2.5 | 12" | 2.1 | 0.94 |

| | | | | | | | | |
|------|--|--|---------------|--|--|-----|-----|------|
| 1.5" | | | A2504P10-S2.5 | | | 4" | 1 | 0.45 |
| 3.5" | | | A2506P10-S2.5 | | | 6" | 1 | 0.45 |
| 6.5" | | | A2509P10-S2.5 | | | 9" | 1.7 | 0.77 |
| 9.5" | | | A2512P10-S2.5 | | | 12" | 2.1 | 0.94 |

A25 Scale and Vernier Screw Drive Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. kg | |
|---------------|---------------|---------------|---------------|---------------|---------------|-------------|----------------|------|
| 1.5" | A2504CE-S2.5 | A2504BE-S2.5 | | A2504K1M-S2.5 | A2504K2M-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506CE-S2.5 | A2506BE-S2.5 | | A2506K1M-S2.5 | A2506K2M-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509CE-S2.5 | A2509BE-S2.5 | | A2509K1M-S2.5 | A2509K2M-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512CE-S2.5 | A2512BE-S2.5 | | A2512K1M-S2.5 | A2512K2M-S2.5 | 12" | 2.1 | 0.94 |
| 12.5" | A2515CE-S2.5 | A2515BE-S2.5 | | A2515K1M-S2.5 | A2515K2M-S2.5 | 15" | 2.44 | 1.11 |

| | | | | | | | | |
|-------|--|--|---------------|--|--|-----|------|------|
| 1.5" | | | A2504W1E-S2.5 | | | 4" | 1 | 0.45 |
| 3.5" | | | A2506W1E-S2.5 | | | 6" | 1 | 0.45 |
| 6.5" | | | A2509W1E-S2.5 | | | 9" | 1.7 | 0.77 |
| 9.5" | | | A2512W1E-S2.5 | | | 12" | 2.1 | 0.94 |
| 12.5" | | | A2515W1E-S2.5 | | | 15" | 2.44 | 1.11 |

A25 Rapid Advance Model D, DE/DM with Scale and Vernier and GE/GM with Micrometer, all with limited fine adjust

| Travel Inches | Model D | Base Length | | | | Weight lbs. kg | |
|---------------|-------------|-------------|-----|------|--|----------------|--|
| 1.5" | A2504D-S2.5 | 4" | 1 | 0.45 | | | |
| 3.5" | A2506D-S2.5 | 6" | 1 | 0.45 | | | |
| 6.5" | A2509D-S2.5 | 9" | 1.7 | 0.77 | | | |
| 9.5" | A2512D-S2.5 | 12" | 2.1 | 0.94 | | | |

with Scale and Vernier – limited fine adjust

| Travel Inches | Model DE | Model DM | Base Length | | | | Weight lbs. kg | |
|---------------|--------------|--------------|-------------|-----|------|--|----------------|--|
| 1.5" | A2504DE-S2.5 | A2504DM-S2.5 | 4" | 1 | 0.45 | | | |
| 3.5" | A2506DE-S2.5 | A2506DM-S2.5 | 6" | 1 | 0.45 | | | |
| 6.5" | A2509DE-S2.5 | A2509DM-S2.5 | 9" | 1.7 | 0.77 | | | |
| 9.5" | A2512DE-S2.5 | A2512DM-S2.5 | 12" | 2.1 | 0.94 | | | |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A25

with Micrometer Head – limited fine adjust

| Travel Inches | Model | Model | Base Length | Weight | |
|---------------|--------------|--------------|-------------|--------|------|
| | GE | GM | | lbs. | kg |
| 1.5" | A2504GE-S2.5 | A2504GM-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506GE-S2.5 | A2506GM-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509GE-S2.5 | A2509GM-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512GE-S2.5 | A2512GM-S2.5 | 12" | 2.1 | 0.94 |

A25 Full Travel, Unlimited Fine Adjust UniSlide Assemblies Model H

Rapid Advance

| Travel Inches | Model | Model | Base Length | Weight | |
|---------------|---------------|--------------|-------------|--------|------|
| | H20 | H1 | | lbs. | kg |
| 1.5" | A2504H20-S2.5 | A2504H1-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506H20-S2.5 | A2506H1-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509H20-S2.5 | A2509H1-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512H20-S2.5 | A2512H1-S2.5 | 12" | 2.1 | 0.94 |
| 12.5" | A2515H20-S2.5 | A2515H1-S2.5 | 15" | 2.44 | 1.11 |

Rapid Advance with Scale and Vernier – unlimited fine adjust

| Travel Inches | Model | Model | Base Length | Weight | |
|---------------|--------------|--------------|-------------|--------|------|
| | HE | HM | | lbs. | kg |
| 1.5" | A2504HE-S2.5 | A2504HM-S2.5 | 4" | 1 | 0.45 |
| 3.5" | A2506HE-S2.5 | A2506HM-S2.5 | 6" | 1 | 0.45 |
| 6.5" | A2509HE-S2.5 | A2509HM-S2.5 | 9" | 1.7 | 0.77 |
| 9.5" | A2512HE-S2.5 | A2512HM-S2.5 | 12" | 2.1 | 0.94 |

A25 Left-Right Screw Motion UniSlides

| Slider Separation | 40 turns | | 20 turns | | Base Length | Weight | |
|-------------------|----------|----------------|----------------|--|-------------|--------|------|
| | inch | | Price | | | lbs. | kg |
| 1" | | A2506C-S2.5-LR | A2506B-S2.5-LR | | 6" | 1 | 0.45 |
| 4" | | A2509C-S2.5-LR | A2509B-S2.5-LR | | 9" | 1.7 | 0.77 |
| 7" | | A2512C-S2.5-LR | A2512B-S2.5-LR | | 12" | 2.1 | 0.94 |
| 10" | | A2515C-S2.5-LR | A2515B-S2.5-LR | | 15" | 2.44 | 1.11 |
| 13" | | A2518C-S2.5-LR | A2518B-S2.5-LR | | 18" | 2.44 | 1.11 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A40

UniSlide® Manual Series A40 with standard 4" long slider

Read down for travel, across for desired lead screw and price. Call Velmex for longer units.

A40 Free Sliding Models

| Travel Inches | Item Number | Base Length | Weight lbs. | kg |
|------------------|-------------|----------------|----------------|------|
| 2" | A4006A-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009A-S4 | 9" | 3 | 1.36 |
| 8" | A4012A-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015A-S4 | 15" | 4.5 | 2.04 |
| 14" | A4018A-S4 | 18" | 5.25 | 2.81 |
| 17" | A4021A-S4 | 21" | 6 | 2.72 |
| 20" | A4024A-S4 | 24" | 6.75 | 3.06 |
| 23" | A4027A-S4 | 27" | 7.5 | 3.54 |
| 26" | A4030A-S4 | 30" | 8.25 | 3.74 |
| 29" | A4033A-S4 | 33" | 9 | 4.08 |
| 32" | A4036A-S4 | 36" | 9.75 | 4.42 |
| 35" | A4039A-S4 | 39" | 10.25 | 4.65 |
| 38" | A4042A-S4 | 42" | 11 | 5 |

A40 Screw Drive Models

| Travel Inches | Lead Screw Pitch | | | | | | Base Length | Weight lbs. | kg |
|------------------|------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|----------------|------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | | | |
| 2" | A4006C-S4 | A4006B-S4 | A4006W1-S4 | A4006W2-S4 | A4006K1-S4 | A4006K2-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009C-S4 | A4009B-S4 | A4009W1-S4 | A4009W2-S4 | A4009K1-S4 | A4009K2-S4 | 9" | 3 | 1.36 |
| 8" | A4012C-S4 | A4012B-S4 | A4012W1-S4 | A4012W2-S4 | A4012K1-S4 | A4012K2-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015C-S4 | A4015B-S4 | A4015W1-S4 | A4015W2-S4 | A4015K1-S4 | A4015K2-S4 | 15" | 4.5 | 2.04 |
| 14" | A4018C-S4 | A4018B-S4 | A4018W1-S4 | A4018W2-S4 | A4018K1-S4 | A4018K2-S4 | 18" | 5.25 | 2.81 |
| 17" | A4021C-S4 | A4021B-S4 | A4021W1-S4 | A4021W2-S4 | A4021K1-S4 | A4021K2-S4 | 21" | 6 | 2.72 |
| 20" | A4024C-S4 | A4024B-S4 | A4024W1-S4 | A4024W2-S4 | A4024K1-S4 | A4024K2-S4 | 24" | 6.75 | 3.06 |
| 23" | A4027C-S4 | A4027B-S4 | A4027W1-S4 | A4027W2-S4 | A4027K1-S4 | A4027K2-S4 | 27" | 7.5 | 3.54 |
| 26" | A4030C-S4 | A4030B-S4 | A4030W1-S4 | A4030W2-S4 | A4030K1-S4 | A4030K2-S4 | 30" | 8.25 | 3.74 |
| 29" | A4033C-S4 | A4033B-S4 | A4033W1-S4 | A4033W2-S4 | A4033K1-S4 | A4033K2-S4 | 33" | 9 | 4.08 |
| 32" | A4036C-S4 | A4036B-S4 | A4036W1-S4 | A4036W2-S4 | A4036K1-S4 | A4036K2-S4 | 36" | 9.75 | 4.42 |
| 35" | A4039C-S4 | A4039B-S4 | A4039W1-S4 | A4039W2-S4 | A4039K1-S4 | A4039K2-S4 | 39" | 10.25 | 4.65 |
| 38" | A4042C-S4 | A4042B-S4 | A4042W1-S4 | A4042W2-S4 | A4042K1-S4 | A4042K2-S4 | 42" | 11 | 5 |

A40 Graduated Knob Models

| Travel Inches | Lead Screw Pitch | | | | | | Base Length | Weight lbs. | kg |
|------------------|------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|----------------|------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | | | |
| 2" | A4006P40-S4 | A4006P20-S4 | A4006P10-S4 | A4006P5-S4 | A4006Q1-S4 | A4006Q2-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009P40-S4 | A4009P20-S4 | A4009P10-S4 | A4009P5-S4 | A4009Q1-S4 | A4009Q2-S4 | 9" | 3 | 1.36 |
| 8" | A4012P40-S4 | A4012P20-S4 | A4012P10-S4 | A4012P5-S4 | A4012Q1-S4 | A4012Q2-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015P40-S4 | A4015P20-S4 | A4015P10-S4 | A4015P5-S4 | A4015Q1-S4 | A4015Q2-S4 | 15" | 4.5 | 2.04 |
| 14" | A4018P40-S4 | A4018P20-S4 | A4018P10-S4 | A4018P5-S4 | A4018Q1-S4 | A4018Q2-S4 | 18" | 5.25 | 2.81 |
| 17" | A4021P40-S4 | A4021P20-S4 | A4021P10-S4 | A4021P5-S4 | A4021Q1-S4 | A4021Q2-S4 | 21" | 6 | 2.72 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A40

A40 Scale and Vernier Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. | kg |
|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|-------------|------|
| 2" | A4006CE-S4 | A4006BE-S4 | A4006W1E-S4 | A4006W2E-S4 | A4006K1M-S4 | A4006K2M-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009CE-S4 | A4009BE-S4 | A4009W1E-S4 | A4009W2E-S4 | A4009K1M-S4 | A4009K2M-S4 | 9" | 3 | 1.36 |
| 8" | A4012CE-S4 | A4012BE-S4 | A4012W1E-S4 | A4012W2E-S4 | A4012K1M-S4 | A4012K2M-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015CE-S4 | A4015BE-S4 | A4015W1E-S4 | A4015W2E-S4 | A4015K1M-S4 | A4015K2M-S4 | 15" | 4.5 | 2.04 |
| 14" | A4018CE-S4 | A4018BE-S4 | A4018W1E-S4 | A4018W2E-S4 | A4018K1M-S4 | A4018K2M-S4 | 18" | 5.25 | 2.81 |

A40 Full Travel, Limited Travel Fine Adjust Model D, DE/DM and Model GE/GM

| Travel Inches | Model D | Base Length | Weight lbs. | kg |
|---------------|-----------|-------------|-------------|------|
| 2" | A4006D-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009D-S4 | 9" | 3 | 1.36 |
| 8" | A4012D-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015D-S4 | 15" | 4.5 | 2.04 |

with Scale and Vernier – limited fine adjust

| Travel Inches | Model DE | Model DM | Base Length | Weight lbs. | kg |
|---------------|------------|------------|-------------|-------------|------|
| 2" | A4006DE-S4 | A4006DM-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009DE-S4 | A4009DM-S4 | 9" | 3 | 1.36 |
| 8" | A4012DE-S4 | A4012DM-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015DE-S4 | A4015DM-S4 | 15" | 4.5 | 2.04 |

with Micrometer Head – limited fine adjust

| Travel Inches | Model GE | Model GM | Base Length | Weight lbs. | kg |
|---------------|------------|------------|-------------|-------------|------|
| 2" | A4006GE-S4 | A4006GM-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009GE-S4 | A4009GM-S4 | 9" | 3 | 1.36 |
| 8" | A4012GE-S4 | A4012GM-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015GE-S4 | A4015GM-S4 | 15" | 4.5 | 2.04 |

A40 Full Travel, Unlimited Fine Adjust Model H and HE/HM

Rapid Advance

| Travel Inches | Model H20 | Model H1 | Base Length | Weight lbs. | kg |
|---------------|-------------|------------|-------------|-------------|------|
| 2" | A4006H20-S4 | A4006H1-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009H20-S4 | A4009H1-S4 | 9" | 3 | 1.36 |
| 8" | A4012H20-S4 | A4012H1-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015H20-S4 | A4015H1-S4 | 15" | 4.5 | 2.04 |
| 14" | A4018H20-S4 | A4018H1-S4 | 18" | 5.25 | 2.81 |
| 17" | A4021H20-S4 | A4021H1-S4 | 21" | 6 | 2.72 |

Rapid Advance with Scale and Vernier – unlimited fine adjust

| Travel Inches | Model HE | Model HM | Base Length | Weight lbs. | kg |
|---------------|------------|------------|-------------|-------------|------|
| 2" | A4006HE-S4 | A4006HM-S4 | 6" | 2.4 | 1.1 |
| 5" | A4009HE-S4 | A4009HM-S4 | 9" | 3 | 1.36 |
| 8" | A4012HE-S4 | A4012HM-S4 | 12" | 3.75 | 1.7 |
| 11" | A4015HE-S4 | A4015HM-S4 | 15" | 4.5 | 2.04 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A40

A40 Left-Right Screw Motion UniSlides

| Separation | 40 turns | 20 turns | Base Length | Weight | |
|------------|--------------|--------------|-------------|--------|------|
| | inch | inch | | lbs. | kg |
| 1 | A4009C-S4-LR | A4009B-S4-LR | 9" | 3.5 | 1.59 |
| 4 | A4012C-S4-LR | A4012B-S4-LR | 12" | 4.17 | 1.89 |
| 7 | A4015C-S4-LR | A4015B-S4-LR | 15" | 4.84 | 2.2 |
| 10 | A4018C-S4-LR | A4018B-S4-LR | 18" | 5.5 | 2.5 |
| 13 | A4021C-S4-LR | A4021B-S4-LR | 21" | 6.2 | 2.81 |
| 16 | A4024C-S4-LR | A4024B-S4-LR | 24" | 6.85 | 3.11 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A60

UniSlide® Manual Series A60 with standard 6" long slider

A60 Free Sliding Models

| Travel Inches | Item Number | Base Length | Weight | |
|------------------|-------------|----------------|--------|-------|
| | | | lbs. | kg |
| 3" | A6009A-S6 | 9" | 6.5 | 2.95 |
| 6" | A6012A-S6 | 12" | 8.5 | 3.86 |
| 9" | A6015A-S6 | 15" | 10.5 | 4.76 |
| 12" | A6018A-S6 | 18" | 12.5 | 5.67 |
| 15" | A6021A-S6 | 21" | 14.5 | 6.58 |
| 18" | A6024A-S6 | 24" | 16.5 | 7.48 |
| 21" | A6027A-S6 | 27" | 18.5 | 8.39 |
| 24" | A6030A-S6 | 30" | 20.5 | 9.3 |
| 27" | A6033A-S6 | 33" | 22.5 | 10.21 |
| 30" | A6036A-S6 | 36" | 24.5 | 11.11 |
| 33" | A6039A-S6 | 39" | 26.5 | 12.02 |
| 36" | A6042A-S6 | 42" | 28.5 | 12.93 |
| 39" | A6045A-S6 | 45" | 30.5 | 13.83 |
| 42" | A6048A-S6 | 48" | 32.5 | 14.74 |

A60 Screw Drive Models

| Travel Inches | Lead Screw Pitch | | | | | | Base Length | Weight | |
|------------------|------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|--------|-------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 3" | A6009C-S6 | A6009B-S6 | A6009W1-S6 | A6009W2-S6 | A6009K1-S6 | A6009K2-S6 | 9" | 8 | 3.63 |
| 6" | A6012C-S6 | A6012B-S6 | A6012W1-S6 | A6012W2-S6 | A6012K1-S6 | A6012K2-S6 | 12" | 10.5 | 4.76 |
| 9" | A6015C-S6 | A6015B-S6 | A6015W1-S6 | A6015W2-S6 | A6015K1-S6 | A6015K2-S6 | 15" | 13 | 5.9 |
| 12" | A6018C-S6 | A6018B-S6 | A6018W1-S6 | A6018W2-S6 | A6018K1-S6 | A6018K2-S6 | 18" | 15.5 | 7.03 |
| 15" | A6021C-S6 | A6021B-S6 | A6021W1-S6 | A6021W2-S6 | A6021K1-S6 | A6021K2-S6 | 21" | 18 | 8.16 |
| 18" | A6024C-S6 | A6024B-S6 | A6024W1-S6 | A6024W2-S6 | A6024K1-S6 | A6024K2-S6 | 24" | 20.5 | 9.3 |
| 21" | A6027C-S6 | A6027B-S6 | A6027W1-S6 | A6027W2-S6 | A6027K1-S6 | A6027K2-S6 | 27" | 23 | 10.43 |
| 24" | A6030C-S6 | A6030B-S6 | A6030W1-S6 | A6030W2-S6 | A6030K1-S6 | A6030K2-S6 | 30" | 25.5 | 11.57 |
| 27" | A6033C-S6 | A6033B-S6 | A6033W1-S6 | A6033W2-S6 | A6033K1-S6 | A6033K2-S6 | 33" | 28 | 12.7 |
| 30" | A6036C-S6 | A6036B-S6 | A6036W1-S6 | A6036W2-S6 | A6036K1-S6 | A6036K2-S6 | 36" | 30.5 | 13.86 |
| 33" | A6039C-S6 | A6039B-S6 | A6039W1-S6 | A6039W2-S6 | A6039K1-S6 | A6039K2-S6 | 39" | 33 | 15 |
| 36" | A6042C-S6 | A6042B-S6 | A6042W1-S6 | A6042W2-S6 | A6042K1-S6 | A6042K2-S6 | 42" | 35.5 | 16.1 |
| 39" | A6045C-S6 | A6045B-S6 | A6045W1-S6 | A6045W2-S6 | A6045K1-S6 | A6045K2-S6 | 45" | 38 | 17.24 |
| 42" | A6048C-S6 | A6048B-S6 | A6048W1-S6 | A6048W2-S6 | A6048K1-S6 | A6048K2-S6 | 48" | 40.5 | 18.37 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series A60

A60 Graduated Knob Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. kg | |
|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|----------------|------|
| 3" | A6009P40-S6 | A6009P20-S6 | A6009P10-S6 | A6009P5-S6 | A6009Q1-S6 | A6009Q2-S6 | 9" | 8 | 3.63 |
| 6" | A6012P40-S6 | A6012P20-S6 | A6012P10-S6 | A6012P5-S6 | A6012Q1-S6 | A6012Q2-S6 | 12" | 10.5 | 4.76 |
| 9" | A6015P40-S6 | A6015P20-S6 | A6015P10-S6 | A6015P5-S6 | A6015Q1-S6 | A6015Q2-S6 | 15" | 13 | 5.9 |
| 12" | A6018P40-S6 | A6018P20-S6 | A6018P10-S6 | A6018P5-S6 | A6018Q1-S6 | A6018Q2-S6 | 18" | 15.5 | 7.03 |
| 15" | A6021P40-S6 | A6021P20-S6 | A6021P10-S6 | A6021P5-S6 | A6021Q1-S6 | A6021Q2-S6 | 21" | 18 | 8.16 |
| 18" | A6024P40-S6 | A6024P20-S6 | A6024P10-S6 | A6024P5-S6 | A6024Q1-S6 | A6024Q2-S6 | 24" | 20.5 | 9.3 |

A60 Screw Drive with Scale and Vernier Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. kg | |
|---------------|---------------|---------------|---------------|--------------|--------------|-------------|-------------|----------------|------|
| 3" | A6009CE-S6 | A6009BE-S6 | A6009W1E-S6 | A6009W2E-S6 | A6009K1M-S6 | A6009K2M-S6 | 9" | 8 | 3.63 |
| 6" | A6012CE-S6 | A6012BE-S6 | A6012W1E-S6 | A6012W2E-S6 | A6012K1M-S6 | A6012K2M-S6 | 12" | 10.5 | 4.76 |
| 9" | A6015CE-S6 | A6015BE-S6 | A6015W1E-S6 | A6015W2E-S6 | A6015K1M-S6 | A6015K2M-S6 | 15" | 13 | 5.9 |
| 12" | A6018CE-S6 | A6018BE-S6 | A6018W1E-S6 | A6018W2E-S6 | A6018K1M-S6 | A6018K2M-S6 | 18" | 15.5 | 7.03 |
| 15" | A6021CE-S6 | A6021BE-S6 | A6021W1E-S6 | A6021W2E-S6 | A6021K1M-S6 | A6021K2M-S6 | 21" | 18 | 8.16 |

A60 Full Travel, Unlimited Fine Adjust Model H and HE/HM

Rapid Advance – Unlimited Fine Adjust

| Travel Inches | Model H20 | Model H1 | Base Length | Weight lbs. kg | |
|---------------|-------------|------------|-------------|----------------|-------|
| 3" | A6009H20-S6 | A6009H1-S6 | 9" | 8 | 3.63 |
| 6" | A6012H20-S6 | A6012H1-S6 | 12" | 10.5 | 4.76 |
| 9" | A6015H20-S6 | A6015H1-S6 | 15" | 13 | 5.9 |
| 12" | A6018H20-S6 | A6018H1-S6 | 18" | 15.5 | 7.03 |
| 15" | A6021H20-S6 | A6021H1-S6 | 21" | 18 | 8.16 |
| 18" | A6024H20-S6 | A6024H1-S6 | 24" | 20.5 | 9.3 |
| 21" | A6027H20-S6 | A6027H1-S6 | 27" | 23 | 10.43 |
| 24" | A6030H20-S6 | A6030H1-S6 | 30" | 25.5 | 11.57 |
| 27" | A6033H20-S6 | A6033H1-S6 | 33" | 28 | 12.7 |
| 30" | A6036H20-S6 | A6036H1-S6 | 36" | 30.5 | 13.86 |

Rapid Advance with Scale and Vernier – Unlimited Fine Adjust

| Travel Inches | Model HE | Model HM | Base Length | Weight lbs. kg | |
|---------------|------------|------------|-------------|----------------|------|
| 3" | A6009HE-S6 | A6009HM-S6 | 9" | 8 | 3.63 |
| 6" | A6012HE-S6 | A6012HM-S6 | 12" | 10.5 | 4.76 |
| 9" | A6015HE-S6 | A6015HM-S6 | 15" | 13 | 5.9 |
| 12" | A6018HE-S6 | A6018HM-S6 | 18" | 15.5 | 7.03 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series B90

UniSlide® Manual Series B90 with standard 9" long slider

Read down for travel, across for desired lead screw and price. Call Velmex for longer units.

B90 Free Sliding Models

| Travel Inches | Item Number | Base Length | Weight lbs. | Weight kg |
|---------------|-------------|-------------|-------------|-----------|
| 3" | B9012A-S9 | 12" | 18.5 | 8.39 |
| 6" | B9015A-S9 | 15" | 22 | 9.98 |
| 9" | B9018A-S9 | 18" | 25.19 | 11.43 |
| 12" | B9021A-S9 | 21" | 28.75 | 13.04 |
| 15" | B9024A-S9 | 24" | 32.25 | 14.63 |
| 18" | B9027A-S9 | 27" | 35.75 | 16.22 |
| 21" | B9030A-S9 | 30" | 39 | 17.69 |
| 24" | B9033A-S9 | 33" | 42.5 | 19.28 |
| 27" | B9036A-S9 | 36" | 45.5 | 20.64 |
| 30" | B9039A-S9 | 39" | 49.5 | 22.45 |
| 33" | B9042A-S9 | 42" | 53 | 24.04 |
| 36" | B9045A-S9 | 45" | 56.5 | 25.63 |
| 39" | B9048A-S9 | 48" | 59.75 | 27.1 |

B90 Screw Drive Models

| Travel Inches | Lead Screw Pitch | | | | | | Base Length | Weight | |
|---------------|------------------|---------------|---------------|--------------|--------------|-------------|-------------|--------|-------|
| | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | | lbs. | kg |
| 3" | B9012C-S9 | B9012B-S9 | B9012W1-S9 | B9012W2-S9 | B9012K1-S9 | B9012K2-S9 | 12" | 21 | 9.5 |
| 6" | B9015C-S9 | B9015B-S9 | B9015W1-S9 | B9015W2-S9 | B9015K1-S9 | B9015K2-S9 | 15" | 25.2 | 11.43 |
| 9" | B9018C-S9 | B9018B-S9 | B9018W1-S9 | B9018W2-S9 | B9018K1-S9 | B9018K2-S9 | 18" | 29.3 | 13.3 |
| 12" | B9021C-S9 | B9021B-S9 | B9021W1-S9 | B9021W2-S9 | B9021K1-S9 | B9021K2-S9 | 21" | 33.4 | 15.15 |
| 15" | B9024C-S9 | B9024B-S9 | B9024W1-S9 | B9024W2-S9 | B9024K1-S9 | B9024K2-S9 | 24" | 37.5 | 17.01 |
| 18" | B9027C-S9 | B9027B-S9 | B9027W1-S9 | B9027W2-S9 | B9027K1-S9 | B9027K2-S9 | 27" | 41.6 | 18.87 |
| 21" | B9030C-S9 | B9030B-S9 | B9030W1-S9 | B9030W2-S9 | B9030K1-S9 | B9030K2-S9 | 30" | 45.75 | 20.75 |
| 24" | B9033C-S9 | B9033B-S9 | B9033W1-S9 | B9033W2-S9 | B9033K1-S9 | B9033K2-S9 | 33" | 49.9 | 22.63 |
| 27" | B9036C-S9 | B9036B-S9 | B9036W1-S9 | B9036W2-S9 | B9036K1-S9 | B9036K2-S9 | 36" | 54 | 24.5 |
| 30" | B9039C-S9 | B9039B-S9 | B9039W1-S9 | B9039W2-S9 | B9039K1-S9 | B9039K2-S9 | 39" | 58.2 | 26.4 |
| 33" | B9042C-S9 | B9042B-S9 | B9042W1-S9 | B9042W2-S9 | B9042K1-S9 | B9042K2-S9 | 42" | 62.3 | 28.26 |
| 36" | B9045C-S9 | B9045B-S9 | B9045W1-S9 | B9045W2-S9 | B9045K1-S9 | B9045K2-S9 | 45" | 66.4 | 30.12 |
| 39" | B9048C-S9 | B9048B-S9 | B9048W1-S9 | B9048W2-S9 | B9048K1-S9 | B9048K2-S9 | 48" | 70.5 | 32 |



"Positioning Systems for Science and Industry"

UniSlide® Manual Series B90

B90 Graduated Knob Models

| Travel Inches | 40 turns inch | 20 turns inch | 10 turns inch | 5 turns inch | 10 turns cm. | 5 turns cm. | Base Length | Weight lbs. kg | |
|------------------|------------------|------------------|------------------|-----------------|-----------------|----------------|----------------|-------------------|-------|
| 3" | B9012P40-S9 | B9012P20-S9 | B9012P10-S9 | B9012P5-S9 | B9012Q1-S9 | B9012Q2-S9 | 12" | 21 | 9.5 |
| 6" | B9015P40-S9 | B9015P20-S9 | B9015P10-S9 | B9015P5-S9 | B9015Q1-S9 | B9015Q2-S9 | 15" | 25.2 | 11.43 |
| 9" | B9018P40-S9 | B9018P20-S9 | B9018P10-S9 | B9018P5-S9 | B9018Q1-S9 | B9018Q2-S9 | 18" | 29.3 | 13.3 |
| 12" | B9021P40-S9 | B9021P20-S9 | B9021P10-S9 | B9021P5-S9 | B9021Q1-S9 | B9021Q2-S9 | 21" | 33.4 | 15.15 |
| 15" | B9024P40-S9 | B9024P20-S9 | B9024P10-S9 | B9024P5-S9 | B9024Q1-S9 | B9024Q2-S9 | 24" | 37.5 | 17.01 |
| 18" | B9027P40-S9 | B9027P20-S9 | B9027P10-S9 | B9027P5-S9 | B9027Q1-S9 | B9027Q2-S9 | 27" | 41.6 | 18.87 |



"Positioning Systems for Science and Industry"

Assembled Manual UniSlide® XY tables

AXY25 Series

| Travel Inches | Item Number | Maximum Aperture | Height Inches | Weight lbs. kg | |
|---------------|-----------------------------------|------------------|---------------|----------------|------|
| 2"x2" | AXY2506W1 | 1.5" sq | 2.4" | 7.5 | 3.4 |
| 3"x3" | AXY2509W1 | 4.5" sq | 2.4" | 12.5 | 5.7 |
| 4"x4" | AXY2512W1 | 7.5" sq | 2.4" | 17.7 | 8.03 |
| | - BK -- Black Anodize | | | | |
| | Z- Hard Anodized Base, dyed black | | | | |
| | WA – with square aperture | | | | |

AXY40 Series

| | | | | | |
|-------|-----------------------------------|-----|-------|-----|------|
| 2"x2" | AXY4006W1 | N/A | 3.78" | 8.7 | 3.95 |
| 5"x5" | AXY4009W1 | N/A | 3.78" | 13 | 5.9 |
| | - BK -- Black Anodize | | | | |
| | Z- Hard Anodized Base, dyed black | | | | |
| | Graduated Model | | | | |

AXY60 Series

| | | | | | |
|-------|-----------------------------------|-----|------|------|-------|
| 3"x3" | AXY6009W1 | N/A | 5.5" | 24.5 | 11.11 |
| 6"x6" | AXY6012W1 | N/A | 5.5" | 32.7 | 14.83 |
| 9"x9" | AXY6015W1 | N/A | 5.5" | 36 | 16.33 |
| | - BK -- Black Anodize | | | | |
| | Z- Hard Anodized Base, dyed black | | | | |
| | Graduated Model | | | | |



"Positioning Systems for Science and Industry"

UniSlide® Elevating Tables

| | Travel Inches | Item Number | Maximum Aperture | Height Inches | Weight | |
|-------------------|------------------|--------------------------------------|---------------------|------------------|--------|------|
| | | | | | lbs. | kg |
| B29 Series | | | | | | |
| | 1.5" | B2904W1 | N/A | 6.88" | 2.75 | 1.25 |
| | 3.5" | B2906W1 | N/A | 8.75" | 3.75 | 1.7 |
| | 6.5" | B2909W1 | N/A | 11.88" | 4.7 | 2.13 |
| | | - TL -- Thumbscrew on leadscrew lock | | | | |
| | | - BK -- Black Anodize | | | | |
| | | Graduated Model | | | | |

| | | | | | | |
|-------------------|----|--------------------------------------|-----|--------|------|------|
| B49 Series | | | | | | |
| | 2" | B4906W1 | N/A | 8.88" | 6.7 | 3.04 |
| | 5" | B4909W1 | N/A | 11.88" | 7.91 | 3.6 |
| | 8" | B4912W1 | N/A | 14.88" | 9.18 | 4.16 |
| | | - TL -- Thumbscrew on leadscrew lock | | | | |
| | | - BK -- Black Anodize | | | | |
| | | Graduated Model | | | | |

| | | | | | | |
|-------------------|----|--------------------------------------|-----|--------|------|------|
| B69 Series | | | | | | |
| | 3" | B6909W1 | N/A | 12.75" | 14.7 | 6.7 |
| | 6" | B6912W1 | N/A | 15.75" | 17.1 | 7.75 |
| | 9" | B6915W1 | N/A | 18.75" | 19.5 | 8.85 |
| | | - TL -- Thumbscrew on leadscrew lock | | | | |
| | | - BK -- Black Anodize | | | | |
| | | Graduated Model | | | | |

| | Travel Inches | Item Number | Maximum Aperture | Retract Height | Weight | |
|-------------------|------------------|-----------------------|---------------------|-------------------|--------|------|
| | | | | | lbs. | kg |
| A39 Series | | | | | | |
| | 1" | A3901W1 | N/A | 2.25" | 1.3 | 0.59 |
| | 3.25" | A3903W1 | N/A | 4.5" | 2 | 0.91 |
| | | - BK -- Black Anodize | | | | |
| | | - DL -- Dual Lock | | | | |



"Positioning Systems for Science and Industry"

UniSlide® "TA" Measuring System

TA Rapid Advance UniSlide®

| Travel Inches | Item Number | Base Length | Weight | |
|------------------|-------------|----------------|--------|------|
| | | | lbs. | kg |
| 3" | TA4009H1-S6 | 9 | 6 | 2.7 |
| 6" | TA4012H1-S6 | 12 | 7 | 3.18 |
| 9" | TA4015H1-S6 | 15 | 8 | 3.63 |
| 12" | TA4018H1-S6 | 18 | 9 | 4.08 |
| 15" | TA4021H1-S6 | 21 | 10 | 4.54 |
| 18" | TA4024H1-S6 | 24 | 11 | 5 |
| 21" | TA4027H1-S6 | 27 | 12 | 5.44 |
| 24" | TA4030H1-S6 | 30 | 13 | 5.9 |

Inductive Linear Encoders

| Travel Inches | Item Number | Description | Weight | |
|------------------|-------------|-------------------------|--------|-------|
| | | | lbs. | kg |
| 3" | ENCINDL1-03 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 6" | ENCINDL1-06 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 9" | ENCINDL1-09 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 12' | ENCINDL1-12 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 15" | ENCINDL1-15 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 18" | ENCINDL1-18 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 21" | ENCINDL1-21 | AMO Linear Encoder, 1um | 0.08 | 0.04 |
| 24" | ENCINDL1-24 | AMO Linear Encoder, 1um | 0.1 | 0.045 |

VRO™ Digital Readout for Encoders

The Velmex model VRO is a high performance digital encoder readout. It offers an easy to read OLED display and a full featured serial interface for computer integration.

| Item Number | Description |
|-------------|---|
| VRO-1B | One Axis Encoder Readout with Tilt Base |

TA system options

| | |
|---------------|---|
| VXM-USB-RS232 | USB to RS232 DB9 Serial Communication Cable 3 m |
| VRO-TAB2 | Tab 2 Two Button Remote With Cable for QC10V |
| VRO-PLG-EU | Power Adapter Plug European |
| VRO-PLG-UK | Power Adapter Plug United Kingdom |
| VRO-PLG-AU | Power Adapter Plug Australia |



"Positioning Systems for Science and Industry"

UniSlide® Options for Manual Series

| | Specified by letter | | Series | | | | | Option is available in these models | | | | | | |
|--|---------------------|------------|--------|-----|-----|-----|-----|-------------------------------------|-------------|----------------|-------------------|---------------|------------------|----|
| | | | A15 | A25 | A40 | A60 | B90 | Free Travel | Screw Drive | Graduated Knob | Scale and Vernier | Rapid Advance | Left Right Screw | |
| | P/N Prefix | P/N Suffix | | | | | | | | | | | | |
| Longer slider lengths | | | S2 | S3 | S6 | S8 | S12 | • | • | • | • | • | • | • |
| | | | S3 | S4 | NA | NA | NA | • | • | • | • | • | • | • |
| Deeper "B" base | B- | | NA | • | • | • | NA | • | • | • | • | • | • | • |
| Optional Finish (Price maybe subject to a minimum lot charge) | | | | | | | | | | | | | | |
| Hard Anodized Base, dyed black | Z- | | • | • | • | • | • | • | • | • | • | NA | NA | NA |
| Electroless Nickel | N- | | • | • | • | • | • | • | • | • | • | NA | NA | NA |
| Black Anodize | | -BK | • | • | • | • | • | • | • | • | • | • | • | • |
| Locks | | | | | | | | | | | | | | |
| Thumb screw-on-lead screw lock | | -TL | • | • | • | • | • | • | NA | • | • | • | NA | • |
| Slider lock, Right side | | -SLR | • | • | • | • | • | • | • | • | • | • | • | • |
| Slider lock, Left side | | -SLL | • | • | • | • | • | • | • | • | • | • | • | • |
| Traveling Slider Lock (available only in standard slider length) | | -TSL | • | • | • | • | • | • | • | • | • | NA | • | • |
| Revolution Counter | | -RC | • | • | • | • | • | • | NA | • | • | • | NA | • |
| Way Covers | | -WC | NA | • | • | • | • | • | NA | • | • | NA | NA | • |

Right angle gear box

For UniSlide® Series A25 and A40

| | |
|--------------------------|--|
| 5005B-A3-U or -D, -R, -L | |
|--------------------------|--|

For UniSlide® Series A60 and A90

| | |
|-----------------------|--|
| R3000-U or -D, -R, -L | |
|-----------------------|--|



"Positioning Systems for Science and Industry"

XY Adapter Plates for UniSlide®

XY Adapters

| Item Number | Weight | |
|-------------|--------|------|
| | lbs. | kg |
| A1500XY | 0.3 | 0.14 |
| A2500XY | 0.3 | 0.14 |
| A4000XY | 0.6 | 0.27 |
| A6000XY | 1.2 | 0.54 |
| B9000XY | 3.8 | 1.72 |

XZ Adapters

Use for A15 Series UniSlides®

| | | |
|---------|-----|------|
| A1500XZ | 0.3 | 0.14 |
|---------|-----|------|

Use for A25 and B25 Series UniSlides®

| | | |
|---------|-----|------|
| A2500XZ | 1.0 | 0.45 |
| A2501XZ | 1.0 | 0.45 |
| B2503XZ | 1.4 | 0.64 |

Use for A40 and B40 Series UniSlides®

| | | |
|---------|-----|------|
| A4000XZ | | |
| A4001XZ | 2.0 | 0.91 |
| B4003XZ | 3.0 | 1.36 |
| B4004XZ | 4.3 | 1.95 |

Use for A60 and B60 Series UniSlides®

| | | |
|---------|-----|------|
| A6000XZ | | |
| A6001XZ | 5.0 | 2.27 |
| B6003XZ | 5.3 | 2.40 |
| B6004XZ | 7.1 | 3.22 |

Use for B90 Series UniSlides®

| | | |
|---------|------|------|
| B9000XZ | | |
| B9001XZ | 15.0 | 6.80 |
| B9002XZ | 17.0 | 7.71 |
| B9003XZ | 18.0 | 8.16 |

Manual BiSlide® Assemblies

applications. Exceedingly accurate, multi-axis positioning systems can be quickly and easily assembled using Velmex BiSlides®.

BiSlide® Assembly Part No. Definition

| Lead Screw | Advance/Turn |
|------------|--------------|
| Blank | None |
| M02 | 2.00 mm |
| M01 | 1.00 mm |
| E04 | 0.40 Inches |
| E01 | 0.10 Inches |

Options

Mounting
 Blank = None
 11 = Basic Knob
 12 = Knob/Counter, Horizontal, Increment + From Knob
 13 = Knob/Counter, Vertical, Increment + From Knob**
 14 = Knob/Counter, Horizontal, Increment - From Knob
 15 = Knob/Counter, Vertical, Increment - From Knob**
 40 = Side Knob Lock Left / Knob Right
 41 = Side Knob Knob Left / Lock Right
 42 = Side Knob Knob Left / Knob Right

** For BiSlides oriented vertically with the knob up.
 Use the Horizontal reading (-12 or -14) for applications with the knob down.

Manual BiSlide® with knob and thumb lock

| Travel in | cm | Item Number Leadscrew pitch | | | | Overall Base Length (in.) | Weight | |
|--------------|-------|--------------------------------|------------------|------------------|------------------|------------------------------|--------|------|
| | | 0.100"/turn | 0.400"/turn | 1 mm/turn | 2 mm/turn | | lbs. | kg. |
| 5 | 12.7 | MN10-0050-E01-11 | MN10-0050-E04-11 | MN10-0050-M01-11 | MN10-0050-M02-11 | 12.95 | 6.9 | 3.2 |
| 10 | 25.4 | MN10-0100-E01-11 | MN10-0100-E04-11 | MN10-0100-M01-11 | MN10-0100-M02-11 | 17.95 | 8.7 | 4 |
| 15 | 38.1 | MN10-0150-E01-11 | MN10-0150-E04-11 | MN10-0150-M01-11 | MN10-0150-M02-11 | 22.95 | 10.5 | 4 |
| 20 | 50.8 | MN10-0200-E01-11 | MN10-0200-E04-11 | MN10-0200-M01-11 | MN10-0200-M02-11 | 27.95 | 12.2 | 5.5 |
| 30 | 76.2 | MN10-0300-E01-11 | MN10-0300-E04-11 | MN10-0300-M01-11 | MN10-0300-M02-11 | 37.95 | 15.7 | 7.1 |
| 40 | 101.6 | MN10-0400-E01-11 | MN10-0400-E04-11 | MN10-0400-M01-11 | MN10-0400-M02-11 | 50.35 | 20.3 | 9.2 |
| 50 | 127 | MN10-0500-E01-11 | MN10-0500-E04-11 | MN10-0500-M01-11 | MN10-0500-M02-11 | 60.35 | 23.8 | 10.8 |
| 60 | 152.4 | MN10-0600-E01-11 | MN10-0600-E04-11 | MN10-0600-M01-11 | MN10-0600-M02-11 | 70.35 | 27.3 | 12.4 |
| 80 | 203.2 | MN10-0800-E01-11 | MN10-0800-E04-11 | MN10-0800-M01-11 | MN10-0800-M02-11 | 90.35 | 34.3 | 15.6 |



Manual BiSlide® Assemblies

Manual BiSlide® with knob, counter and thumb lock

Insert your choice in place of yy in the Model Number:

BiSlide® orientation horizontal: 12 counter increments + from knob, 14 counter increments - from knob

BiSlide® orientation vertical: 13 counter increments + from knob, 15 counter increments - from knob

| Travel | | Leadscrew pitch | | | | Overall Base Length (in.) | Weight | |
|--------|-------|------------------|------------------|------------------|------------------|---------------------------|--------|------|
| in | cm | 0.100"/turn | 0.400"/turn | 1 mm/turn | 2 mm/turn | | lbs. | kg. |
| 5 | 12.7 | MN10-0050-E01-yy | MN10-0050-E04-yy | MN10-0050-M01-yy | MN10-0050-M02-yy | 12.95 | 7.4 | 3.4 |
| 10 | 25.4 | MN10-0100-E01-yy | MN10-0100-E04-yy | MN10-0100-M01-yy | MN10-0100-M02-yy | 17.95 | 9.2 | 4.2 |
| 15 | 38.1 | MN10-0150-E01-yy | MN10-0150-E04-yy | MN10-0150-M01-yy | MN10-0150-M02-yy | 22.95 | 11 | 5 |
| 20 | 50.8 | MN10-0200-E01-yy | MN10-0200-E04-yy | MN10-0200-M01-yy | MN10-0200-M02-yy | 27.95 | 12.7 | 5.8 |
| 30 | 76.2 | MN10-0300-E01-yy | MN10-0300-E04-yy | MN10-0300-M01-yy | MN10-0300-M02-yy | 37.95 | 16.2 | 7.4 |
| 40 | 101.6 | MN10-0400-E01-yy | MN10-0400-E04-yy | MN10-0400-M01-yy | MN10-0400-M02-yy | 50.35 | 20.8 | 9.4 |
| 50 | 127 | MN10-0500-E01-yy | MN10-0500-E04-yy | MN10-0500-M01-yy | MN10-0500-M02-yy | 60.35 | 24.3 | 11 |
| 60 | 152.4 | MN10-0600-E01-yy | MN10-0600-E04-yy | MN10-0600-M01-yy | MN10-0600-M02-yy | 70.35 | 27.8 | 12.6 |
| 80 | 203.2 | MN10-0800-E01-yy | MN10-0800-E04-yy | MN10-0800-M01-yy | MN10-0800-M02-yy | 90.35 | 34.8 | 15.8 |

BiSlide® Side Knob Assembly – for precision vertical test stands

Mounting – Lock Left / Knob Right

| Travel | | Leadscrew pitch | | | Overall Height (in.) | Weight | | |
|--------|------|------------------|-----------|------------------|----------------------|--------|-----|-----|
| in | cm | 0.100"/turn | 1 mm/turn | 2 mm/turn | | lbs. | kg. | |
| 5 | 12.7 | MN10-0050-E01-40 | | MN10-0050-M01-40 | MN10-0050-M02-40 | 15.15 | 7.4 | 3.4 |
| 10 | 25.4 | MN10-0100-E01-40 | | MN10-0100-M01-40 | MN10-0100-M02-40 | 20.15 | 9.2 | 4.2 |
| 15 | 38.1 | MN10-0150-E01-40 | | MN10-0150-M01-40 | MN10-0150-M02-40 | 25.15 | 11 | 5 |

Mounting – Knob Left / Lock Right

| | | | | | | | | |
|----|------|------------------|--|------------------|------------------|-------|-----|-----|
| 5 | 12.7 | MN10-0050-E01-41 | | MN10-0050-M01-41 | MN10-0050-M02-41 | 15.15 | 7.4 | 3.4 |
| 10 | 25.4 | MN10-0100-E01-41 | | MN10-0100-M01-41 | MN10-0100-M02-41 | 20.15 | 9.2 | 4.2 |
| 15 | 38.1 | MN10-0150-E01-41 | | MN10-0150-M01-41 | MN10-0150-M02-41 | 25.15 | 11 | 5 |

Mounting – Knob Left / Knob Right

| | | | | | | | | |
|----|------|------------------|--|------------------|------------------|-------|-----|-----|
| 5 | 12.7 | MN10-0050-E01-42 | | MN10-0050-M01-42 | MN10-0050-M02-42 | 15.15 | 7.4 | 3.4 |
| 10 | 25.4 | MN10-0100-E01-42 | | MN10-0100-M01-42 | MN10-0100-M02-42 | 20.15 | 9.2 | 4.2 |
| 15 | 38.1 | MN10-0150-E01-42 | | MN10-0150-M01-42 | MN10-0150-M02-42 | 25.15 | 11 | 5 |

Free Sliding BiSlide® Models

| Travel | | | Overall Base Length (in.) | Weight | |
|--------|-------|-----------|---------------------------|--------|------|
| in | cm | Model # | | lbs. | kg |
| 7.4 | 18.8 | MF10-0050 | 12.95 | 5.9 | 2.7 |
| 12.4 | 31.5 | MF10-0100 | 17.95 | 7.4 | 3.3 |
| 17.4 | 44.2 | MF10-0150 | 22.95 | 8.9 | 4 |
| 22.4 | 56.9 | MF10-0200 | 27.95 | 10.3 | 4.7 |
| 32.4 | 82.3 | MF10-0300 | 37.95 | 13.3 | 6.1 |
| 44.8 | 113.8 | MF10-0400 | 50.35 | 17 | 7.7 |
| 54.8 | 139.2 | MF10-0500 | 60.35 | 20 | 9.1 |
| 64.8 | 164.6 | MF10-0600 | 70.35 | 23 | 10.4 |
| 84.8 | 215.4 | MF10-0800 | 90.35 | 28.9 | 13.1 |

For custom lengths use price of nearest longer length model + \$80.00

Note: Crating charges may apply



Manual BiSlide® Assemblies

Parallel Coupled BiSlide®

Description

| | |
|------------------------------|--|
| PC1-xxx (xxx is inch C to C) | Manual Coupled (Belt, Pulleys, Cover, Bearings, Knob)* |
|------------------------------|--|

*Price does not include installation of belt and crating charge. Assembly instructions and Belt Tensioner are included.

Note: Crating charges may apply.

BiSlide® Common Accessories¹

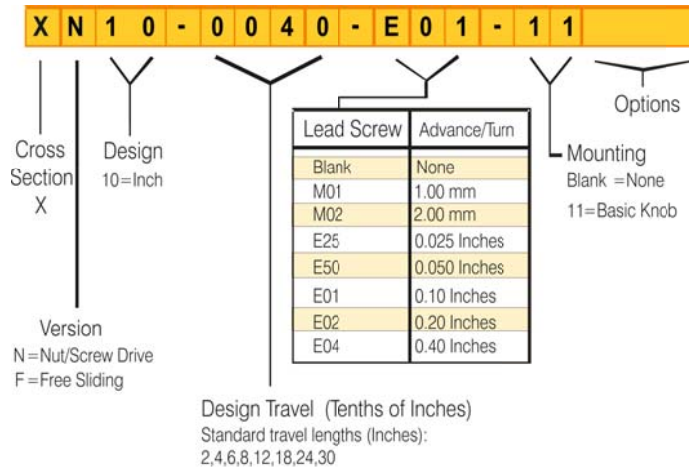
| Item Number | Description | Weight | |
|----------------|---|--------|------|
| | | oz | g |
| MC-1 | Mounting Cleat Special 1 Hole | 0.5 | 14.2 |
| MC-2 | Mounting Cleat Std 2 Hole (1.42" between holes) | 0.9 | 25.5 |
| MC-3 | Mounting Cleat Optical 2 Hole (2" between holes) | 0.9 | 25.5 |
| MB-1 | 1/4-20x3/4 SktHd Cap Bolts, 10 pack | 2.2 | 62.4 |
| MC-4 | Sandwich Cleats (1 Pair MC-1 with bolts and nuts) | 1.2 | 34 |

¹See Motor-Driven Products Price List for additional BiSlide mounting hardware etc.

Velmex Manual XSlide™ Assemblies

The Velmex XSlide™ is a compact positioning stage highly suitable for either incrementing or scanning functions. Their compact design makes them ideal for limited space applications.

XSlide™ Assembly Part No. Definition



Lead Screw Drive Models

| Travel | | Item Number | Overall Length | Weight | |
|--------|------|------------------|----------------|--------|------|
| in | cm | | | lbs | kg |
| 2 | 5.1 | XN10-0020-xxx-11 | 6.05 in | 0.99 | 0.45 |
| 4 | 10.2 | XN10-0040-xxx-11 | 8.05 in | 1.15 | 0.52 |
| 6 | 15.2 | XN10-0060-xxx-11 | 10.05 in | 1.31 | 0.60 |
| 8 | 20.3 | XN10-0080-xxx-11 | 12.05 in | 1.47 | 0.67 |
| 12 | 30.5 | XN10-0120-xxx-11 | 16.05 in | 1.79 | 0.81 |
| 18 | 45.7 | XN10-0180-xxx-11 | 22.05 in | 2.26 | 1.03 |
| 24 | 61.0 | XN10-0240-xxx-11 | 28.05 in | 2.74 | 1.25 |
| 30 | 76.2 | XN10-0300-xxx-11 | 34.05 in | 3.22 | 1.46 |

xxx=Lead Screw (M01,M02,E25,E50,E01,E02,E04)

Free Sliding Models

| Travel | | Item Number | Overall Length | Weight | |
|--------|------|-------------|----------------|--------|------|
| in | cm | | | lbs | kg |
| 2.5 | 6.4 | XF10-0020 | 4.86 in | 0.26 | 0.12 |
| 4.5 | 11.4 | XF10-0040 | 6.86 in | 0.36 | 0.16 |
| 6.5 | 16.5 | XF10-0060 | 8.86 in | 0.47 | 0.21 |
| 8.5 | 21.6 | XF10-0080 | 10.86 in | 0.57 | 0.26 |
| 12.5 | 31.8 | XF10-0120 | 14.86 in | 0.78 | 0.35 |
| 18.5 | 47.0 | XF10-0180 | 20.86 in | 1.09 | 0.50 |
| 24.5 | 62.2 | XF10-0240 | 26.86 in | 1.41 | 0.64 |
| 30.5 | 77.5 | XF10-0300 | 32.86 in | 1.72 | 0.78 |



"Positioning Systems for Science and Industry"

Velmex Manual XSlide™ Assemblies

Common XSlide Accessories

| Part # | Description | Weight | |
|--------|--|--------|-----|
| | | oz | g |
| XMC-2 | Mounting Cleat Standard 2 Hole (recommended both sides every 3") | 0.10 | 2.8 |
| XMC-4 | Crossing Cleats, includes hardware | 0.20 | 5.7 |
| XMC-5 | Mounting Cleat 1 Hole Optical | 0.10 | 2.8 |
| XMB-1 | 6-32 x 7/16" SktHd Cap Bolts (each) | 0.04 | 1.0 |

Options

| | | | |
|----------|------------------------------|------|------|
| XBCF | Extra Carriage (Without Nut) | 2.64 | 74.8 |
| XBCN-xxx | Extra Carriage (With Nut) | 2.60 | 73.7 |

End Mounting

| | | | |
|--------|--|------|-------|
| XMB-2 | 6-32x5/8 Socket HeadCap Bolts (each) | 0.04 | 1.1 |
| XGST-1 | Gusset 2.5" (includes cleats and fastners) | 4.20 | 119.1 |



"Positioning Systems for Science and Industry"

Velmex Rotary Manual Tables

A4800TS Series

Rotary Tables

| Table Dia. | Bore Dia. | Model Number | | Gear Ratio | Weight lbs. | Weight kg |
|------------|-----------|--------------|--|------------|-------------|-----------|
| 5" | 1.6" | A4872TS | | 72:1 | 5.5 | 2.5 |
| 5" | 1.6" | A4836TS | | 36:1 | 5.5 | 2.5 |
| 5" | 1.6" | A4818TS | | 18:1 | 5.5 | 2.5 |

| | | |
|-------------------------|--------------------------------------|--|
| Options added to above: | - BK -- Black Anodize | |
| | - TL -- Thumbscrew on leadscrew lock | |
| | A6000TX -Adapter Plate | |

A5900TS Series

Rotary Tables

| Table Dia. | Bore Dia. | Model Number | | Gear Ratio | Weight lbs. | Weight kg |
|------------|-----------|--------------|--------------------------|------------|-------------|-----------|
| 1.65" | 0.5" | A5990TS-BK | Black Anodize (standard) | 90:1 | 2.7 | 1.23 |

| | | |
|-------------------------|--------------------------------------|--|
| Options added to above: | - TL -- Thumbscrew on leadscrew lock | |
| | B5990TXZ-BK - Adapter Plate | |

| Table Dia. | | <u>Turntables</u> | Height | Weight lbs. | Weight kg |
|------------|---------|---|--------|-------------|-----------|
| 3.15" | A2505TS | Will mount on A15,m A25 or B25 Series Sliders | 1.3" | 1.07 | .49 |
| 4.13" | A4007TS | Will mount on A40, B40, A60 or B60 Series Sliders | 1.3" | 1.75 | .8 |

Rotary Encoder

| | |
|-------------------------|--|
| 3-919-E-A06 | Optical Rotary Encoder Assembly w/HEDS5500#A06 1/4" Shaft, 500 CPR |
| 3-919-E-C06 | Optical Rotary Encoder Assembly w/HEDS5500#C06 1/4" Shaft, 100 CPR |
| 3-919-E-H06 | Optical Rotary Encoder Assembly w/HEDS5500#H06 1/4" Shaft, 400 CPR |
| 3-919-QC | Cable – Rotary Encoder to QC |
| 3-918E replacement only | |
| 4-0744 | Cable Assembly, Encoder, HEDS to VRO, 10 ft |