

## English Measurements

### LV350D Basic

### LV350DPlus

### WL400

| <b>General Specifications</b>    |   |   |   |
|----------------------------------|---|---|---|
| Size                             | 20" L x 28" W x 30" H   | 20" L x 28" W x 30" H   | 40" L x 32" W x 36" H   |
| Footprint                        | 20" x 28"   | 20" x 28"   | 20" x 28"   |
| Machine Weight                   | 220 lbs   | 250 lbs   | 320 lbs   |
| Shipping Dimensions              | 32" x 34" x 26"   | 32" x 34" x 26"   | 36" x 36" x 26"   |
| Work Capacities                  | Plastics, Woods, Soft metals                                      | Plastics, Woods, metals including steel                           | Plastics, Woods, metals including steel                           |
| Maximum Weight on Table          | 100 lbs   | 180 lbs   | 180 lbs   |
| <b>Table</b>                     |   |   |   |
| Table Size                       | 10" x 15"   | 10" x 15"   | 16" x 10"   |
| Slots on Table, Qty.             | 5/16" 10 Slots  | 5/16" 10 Slots  | 5/16" 10 Slots  |
| Table Travel X Axis              | 14"   | 14"   | 14"   |
| Strusion                         | 7075 Anodized Aluminum  | 7075 Anodized Aluminum  | 7075 Anodized Aluminum  |
| <b>Spindle</b>                   |   |   |   |
| Motor HP Rating                  | 3HP   | 2 HP Auto -tool changer   | 2 HP Auto - tool changer  |
| Drive System                     | Direct driven AC  | Direct Driven, Brushless Motor                                    | Direct Driven, Brushless Motor                                    |
| Minimum Speed                    | 1000 RPM  | 100 RPM   | 100 RPM   |
| Maximum Speed                    | 24,000 RPM  | 17,000 RPM  | 17,000 RPM  |
| Quill Diameter                   |   | 0.787"  | 0.787"  |
| Spindle Bearings                 | Angular Contact Ceramic Bearings                                  | Angular Contact Ceramic Bearings                                  | Angular Contact Ceramic Bearings                                  |
| Spindle to Column                | Not applicable  | Not applicable  | 3.5"  |
| Spindle Taper                    | ER-25   | ER-16   | ER-16   |
| <b>Axis</b>                      |   |   |   |
| Guideways (X, Y , Z Axis)        | 3/4" Chromed Round Guides   | 0.6" Hiwin Linear guides  | 0.6" Hiwin Linear guides  |
| Travel X Axis                    | 14"   | 14"   | 16.5"   |
| Travel Y Axis                    | 10"   | 10"   | 8.5"  |
| Travel Z Axis                    | 8"  | 8"  | 8"  |
| Ball Screws                      | Rolled Ball Screws w/ Backlash Adjustable Nuts                    | Rolled Ball Screws w/ Backlash Adjustable Nuts                    | Rolled Ball Screws w/ Backlash Adjustable Nuts                    |
| Ball Screw Size (X, Y, Z Axis)   | 5/8"  | 5/8"  | 5/8"  |
| Ball Screw Pitch                 | 0.197"  | 0.197"  | 0.197"  |
| Rapid Traverse Speed             | 400 in/min  | 400 in/min  | 400 in/min  |
| Max Feed Rate                    | 200 in/min  | 236 in/min  | 236 in/min  |
| Resolution (X,Y,Z Axis)          | 0.00003"  | 0.00003"  | 0.00003"  |
| Precision (X,Y,Z Axis)           | 0.001"  | 0.0004"   | 0.0004"   |
| Repeatability (X,Y,Z Axis)       | 0.0002"   | 0.0002"   | 0.0002"   |
| <b>Power</b>                     |   |   |   |
| Power Requirement                | 110 Volts AC  | 110 Volts AC  | 110 Volts AC  |
| Phase                            | single  | Single  | Single  |
| Current                          | 10 Amps   | 15 Amps   | 15 Amps   |
| <b>Servo Motors (X,Y,Z Axis)</b> |   |   |   |
| Power                            | 100 Watts, 36 V   | 100 Watts, 36 V   | 100 Watts, 36 V   |
| Servo Type                       | DC Brush-type servo   | DC Brush-type servo   | DC Brush-type servo   |
| Feedback                         | Close Loop  | Close Loop  | Close Loop  |
| Encoder                          | 4000 counts/rev Encoder with differential output and index pulse. | 4000 counts/rev Encoder with differential output and index pulse. | 4000 counts/rev Encoder with differential output and index pulse. |
| Torque                           | 55 oz/inch  | 55 oz/inch  | 55 oz/inch  |
| Gear reduction                   | 1.5   | 1.5   | 1.5   |

## Metric Measurements

### LV350D Basic

### LV350DPlus

### WL400

|                                  | LV350D Basic  | LV350DPlus  | WL400   |
|----------------------------------|---|---|---|
| <b>General Specifications</b>    |   |   |   |
| Size                             | 510 x 710 x 750 mm  | 510 x 710 x 750 mm  | 1m x 0.8m x 0.895m  |
| Footprint                        | 510 x 710 mm  | 510 x 710 mm  | 510 x 710 mm  |
| Machine Weight                   | 100 Kg  | 114 Kg  | 145 Kg  |
| Shipping Dimensions              | 813 x 864 x 660 mm  | 813 x 864 x 660 mm  | 914 x 914 x 914 mm  |
| Work Capacities                  | Plastics, Woods, Soft metals                                      | Plastics, Woods, metals including steel                           | Plastics, Woods, metals including steel                           |
| Maximum Weight on Table          | 43 kg   | 81 kg   | 81 kg   |
| <b>Table</b>                     |   |   |   |
| Table Size                       | 250 x 380 mm  | 250 x 380 mm  | 400 x 250 mm  |
| Slots on Table, Qty.             | 8 mm  | 8 mm  | 8 mm  |
| Table Travel X Axis              | 350 mm  | 350 mm  | 350 mm  |
| Strusion                         | 7075 Anodized Aluminum  | 7075 Anodized Aluminum  | 7075 Anodized Aluminum  |
| <b>Spindle</b>                   |   |   |   |
| Motor HP Rating                  | 3 HP  | 2 HP Auto tool changer  | 2 HP Auto tool changer  |
| Drive System                     | Direct driven AC  | Direct Driven, Brushless Motor                                    | Direct Driven, Brushless Motor                                    |
| Minimum Speed                    | 1000 RPM  | 100 RPM   | 100 RPM   |
| Maximum Speed                    | 24,000 RPM  | 17,000 RPM  | 17,000 RPM  |
| Quill Diameter                   |   | 20 mm   | 20 mm   |
| Spindle Bearings                 | Angular Contact Ceramic Bearings                                  | Angular Contact Ceramic Bearings                                  | Angular Contact Ceramic Bearings                                  |
| Spindle to Column                | Not applicable  | Not applicable  | 90 mm   |
| Spindle Taper                    | ER-25   | ER-16   | ER-16   |
| <b>Axis</b>                      |   |   |   |
| Guideways (X, Y, Z Axis)         | 19 mm Chromed Round Guides  | 15 mm Hiwin Linear guides   | 15 mm Hiwin Linear guides   |
| Travel X Axis                    | 350 mm  | 350 mm  | 421 mm  |
| Travel Y Axis                    | 250 mm  | 250 mm  | 217 mm  |
| Travel Z Axis                    | 200 mm  | 200 mm  | 200 mm  |
| Ball Screws                      | Rolled Ball Screws w/ Backlash Adjustable Nuts                    | Rolled Ball Screws w/ Backlash Adjustable Nuts                    | Rolled Ball Screws w/ Backlash Adjustable Nuts                    |
| Ball Screw Size (X, Y, Z Axis)   | 16 mm   | 20 mm   | 20 mm   |
| Ball Screw Pitch                 | 5 mm  | 5 mm  | 5 mm  |
| Rapid Traverse Speed             | 10 m/min  | 10 m/min  | 10 m/min  |
| Max Feed Rate                    | 5 m/min   | 6 m/min   | 6 m/min   |
| Resolution (X,Y,Z Axis)          | 0.0007 mm   | 0.0007 mm   | 0.0007 mm   |
| Precision (X,Y,Z Axis)           | 0.0254 mm   | 0.01 mm   | 0.01 mm   |
| Repeatability (X,Y,Z Axis)       | 0.005 mm  | 0.005 mm  | 0.005 mm  |
| <b>Power</b>                     |   |   |   |
| Power Requirement                | 110 Volts AC  | 110 Volts AC  | 110 Volts AC  |
| Phase                            | single  | Single  | Single  |
| Current                          | 10 Amps   | 15 Amps   | 15 Amps   |
| <b>Servo Motors (X,Y,Z Axis)</b> |   |   |   |
| Power                            | 100 Watts, 36 V   | 100 Watts, 36 V   | 100 Watts, 36 V   |
| Servo Type                       | DC Brush-type servo   | DC Brush-type servo   | DC Brush-type servo   |
| Feedback                         | Close Loop  | Close Loop  | Close Loop  |
| Encoder                          | 4000 counts/rev Encoder with differential output and index pulse. | 4000 counts/rev Encoder with differential output and index pulse. | 4000 counts/rev Encoder with differential output and index pulse. |
| Torque                           | 0.37 Nm   | 0.37 Nm   | 0.37 Nm   |
| Gear reduction                   | 1.5   | 1.5   | 1.5   |