

English Measurements

	LV350D Basic	LV350DPlus	WL400
General Specifications			
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	200 lbs	200 lbs	250 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
Table			
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
Spindle			
Motor HP Rating	0.5 HP	2 HP	2 HP
Drive System	Belt Driven	Direct Driven, Brushless Motor	Direct Driven, Brushless Motor
Minimum Speed	100 RPM	100 RPM	100 RPM
Maximum Speed	10,000 RPM	18,000 RPM	18,000 RPM
Quill Diameter	5/8"	0.787"	0.787"
Spindle Bearings	Ball Bearings	Angular Contact Ceramic Bearings	Angular Contact Ceramic Bearings
Spindle to Column	Not applicable	Not applicable	3.5"
Spindle Taper	ER-16	ER-16	ER-16
Axis			
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"
Power			
Power Requirement	110 Volts AC	110 Volts AC	110 Volts AC
Phase	single	Single	Single
Current	10 Amps	15 Amps	15 Amps
Servo Motors (X,Y Z Axis)			
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
General Specifications			
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	91 Kg	91 Kg	113 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
Table			
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
Spindle			
Motor HP Rating	0.5 HP	2 HP	2 HP
Drive System	Belt Driven	Direct Driven, Brushless Motor	Direct Driven, Brushless Motor
Minimum Speed	100 RPM	100 RPM	100 RPM
Maximum Speed	10,000 RPM	18,000 RPM	18,000 RPM
Quill Diameter	16 mm	20 mm	20 mm
Spindle Bearings	Ball Bearings	Angular Contact Ceramic Bearings	Angular Contact Ceramic Bearings
Spindle to Column	Not applicable	Not applicable	90 mm
Spindle Taper	ER-16	ER-16	ER-16
Axis			
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
Power			
Power Requirement	110 Volts AC	110 Volts AC	110 Volts AC
Phase	single	Single	Single
Current	10 Amps	15 Amps	15 Amps
Servo Motors (X,Y,Z Axis)			
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