

Item / Model		e-500	e-500L	e-600	e-750
<b>Work Table</b>		<b>Unit</b>			
Table Size	mm	650 × 400	850 × 400	750 × 420	850 × 420
T-slot (Width × Number × Distance)	mm	14 × 3 × 125	14 × 3 × 125	14 × 5 × 65	14 × 5 × 65
Table Load Capacity	kg	200	300	400	450
<b>Movement and Range</b>					
X axis	mm	500	700	600	750
Y axis	mm	400	400	420	420
Z axis	mm	450	450	450	450
X/Y/Z axes Ballscrew	mm	X/Y/Z axes: Φ25 / C2	X/Y/Z axes: Φ25 / C2	X/Y axes: Φ32 / C2 Z axis: Φ40 / C2	X/Y axes: Φ32 / C2 Z axis: Φ40 / C2
X/Y/Z axes Precision Linear Guideway					
X axis		25mm × 4 pcs self-lube type Block	25mm × 4 pcs self-lube type Block	30mm × 4 pcs self-lube type Block	30mm × 4 pcs self-lube type Block
Y axis		30mm × 4 pcs self-lube type Block	30mm × 4 pcs self-lube type Block	35mm × 4 pcs self-lube type Block	35mm × 4 pcs self-lube type Block
Z axis		30mm × 6 pcs self-lube type Block	30mm × 6 pcs self-lube type Block	35mm × 6 pcs self-lube type Block	35mm × 6 pcs self-lube type Block
X/Y/Z axes Transmission	-	Direct drive	Direct drive	Direct drive	Direct drive
<b>Positioning Accuracy</b>					
Positioning Accuracy	mm/mm	0.003/ 300	0.003/ 300	0.003/ 300	0.003/ 300
Repetition X/Y/Z axes	mm	±0.003	±0.003	±0.003	±0.003
<b>Spindle Details</b>					
Spindle Taper (Tool Interface)	-	BT#30	BT#30	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40
Spindle Speed	rpm	12000	12000	10000	10000
Spindle Coolant Unit	-	Standard	Standard	Standard	Standard
Spindle Transmission	-	Direct drive	Direct drive	Direct drive	Direct drive
Spindle Diameter	mm	Φ40	Φ40	Φ60	Φ60
Spindle Nose to Work Table	mm	180 - 630	180 - 630	120 - 570	120 - 570
Spindle Center to Column	mm	410	410	450	450
<b>Feed</b>					
Cutting Feed Rate	mm/min	1-12000	1-12000	1-12000	1-12000
Rapid Traverse Rate	m/min	48	48	32	32
X/Y/Z axes Optical Linear Scale	μm	Non Available	Non Available	(Opt.) HEIDENHAIN Absolute Type 0.1 μm R	
<b>A.T.C. (Tool Magazine)</b>					
Tool Changer Type	-	Arm-type	Arm-type	Arm-type	Arm-type
Tool Magazine Pockets	pc	20	20	20	20
Max. Tool Diameter w/ adjacent tool	mm	Φ 75	Φ 75	Φ 80	Φ80
Max. Tool Diameter w/o adjacent tool	mm	-	-	-	-
Tool Selection		Bi-direction random shortest path			Bi-direction random shortest path
Maximum Tool Length	mm	200	200	250	250
Maximum Tool Weight	kg/pc	4	4	7	7
<b>General Information</b>					
Coolant Motor	50 Hz	0.27 kW, 0.4 kg/cm <sup>2</sup>	0.27 kW, 0.4 kg/cm <sup>2</sup>	0.65 kW, 1.3 kg/cm <sup>2</sup>	0.65 kW, 1.3 kg/cm <sup>2</sup>
	60 Hz	0.35 kW, 0.7 kg/cm <sup>2</sup>	0.35 kW, 0.7 kg/cm <sup>2</sup>	0.96 kW, 2.0 kg/cm <sup>2</sup>	0.96 kW, 2.0 kg/cm <sup>2</sup>
Coolant Tank Capacity	L	160	160	300	300
Chip Conveyor Motor	50 Hz	0.2 kW (Opt.)	0.2 kW (Opt.)	0.2 kW	0.2 kW
	60 Hz				
Air Pressure Required	kg/cm <sup>2</sup>	6	6	6	6
Power Consumption	kVA	15	15	15	15
Machine Net Weight	kg	3000	3150	4500	4700

Item / Model	e-750A	e-850	e-1000	e-1100
<b>Work Table</b>				
Table Size	850 × 492	1000 × 520	1100 × 520	1250 × 610
T-slot (Width × Number × Distance)	18 × 5 × 100	18 × 5 × 100	18 × 5 × 100	18 × 5 × 100
Table Load Capacity	450	700	700	900
<b>Movement and Range</b>				
X axis	750	850	1000	1100
Y axis	420	520	520	610 (opt. 710)
Z axis	450	610 (opt. 830)	610 (opt. 830)	610 (opt. 830)
X/Y/Z axes Ballscrew	X/Y axes: Φ36 / C2 Z axis: Φ40 / C2	X/Y/Z axes: Φ40 / C2	X/Y/Z axes: Φ40 / C2	X/Y/Z axes: Φ40 / C2
X/Y/Z axes Precision Linear Guideway				
X axis	30mm × 4 pcs self-lube type Block	35mm × 6 pcs self-lube type Block	35mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
Y axis	35mm × 4 pcs self-lube type Block	45mm × 4 pcs self-lube type Block	45mm × 4 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
Z axis	35mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
X/Y/Z axes Transmission	Direct drive	Direct drive	Direct drive	Direct drive
<b>Positioning Accuracy</b>				
Positioning Accuracy	0.003/ 300	0.003/ 300	0.003/ 300	0.003/ 300
Repetition X/Y/Z axes	±0.003	±0.003	±0.003	±0.003
<b>Spindle Details</b>				
Spindle Taper (Tool Interface)	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40
Spindle Speed	10000	10000	10000	10000
Spindle Coolant Unit	Standard	Standard	Standard	Standard
Spindle Transmission	Direct drive	Direct drive	Direct drive	Direct drive
Spindle Diameter	Φ70	Φ70	Φ70	Φ70
Spindle Nose to Work Table	120 - 570	130 - 740	130 - 740	120 - 730
Spindle Center to Column	450	585	585	630
<b>Feed</b>				
Cutting Feed Rate	1-12000	1-12000	1-12000	1-12000
Rapid Traverse Rate	32	32	32	32
X/Y/Z axes Optical Linear Scale Resolution	(Opt.) HEIDENHAIN Absolute Type 0.1μm Resolution			(Opt.) H
<b>A.T.C. (Tool Magazine)</b>				
Tool Changer Type	Arm-type	Arm-type	Arm-type	Arm-type
Tool Magazine Pockets	20	20	20	20
Max. Tool Diameter w/ adjacent tool	Φ80	Φ 90	Φ 90	Φ 90
Max. Tool Diameter w/o adjacent tool	-	-	-	-
Tool Selection	Bi-direction random shortest path			
Maximum Tool Length	250	300	300	300
Maximum Tool Weight	7	7	7	7
<b>General Information</b>				
Coolant Motor	0.65 kW, 1.3 kg/cm <sup>2</sup>	0.85 kW, 2.0 kg/cm <sup>2</sup>	0.85 kW, 2.0 kg/cm <sup>2</sup>	0.85 kW, 2.0 kg/cm <sup>2</sup>
Coolant Tank Capacity	0.96 kW, 2.0 kg/cm <sup>2</sup> 300	1.27 kW, 3.0 kg/cm <sup>2</sup> 420	1.27 kW, 3.0 kg/cm <sup>2</sup> 420	1.27 kW, 3.0 kg/cm <sup>2</sup> 420
Chip Conveyor Motor	0.2 kW × 3	0.2 (kW) × 2 / 0.4 (kW) × 1	0.2 (kW) × 2 / 0.4 (kW) × 1	0.2 (kW) × 3
Air Pressure Required	6	6	6	6
Power Consumption	15	20	20	25
Machine Net Weight	5000	7300	7500	8000

Item / Model	e-1100y+	e-1300	e-1300y+
<b>Work Table</b>			
Table Size	1250 × 610	1400 × 610	1400 × 610
T-slot (Width × Number × Distance)	18 × 5 × 100	18 × 5 × 100	18 × 5 × 100
Table Load Capacity	900	900	900
<b>Movement and Range</b>			
X axis	1100	1300	1300
Y axis	710	610 (opt. 710)	710
Z axis	610 (opt. 830)	610 (opt. 830)	610 (opt. 830)
X/Y/Z axes Ballscrew	X/Y/Z axes: Φ40 / C2	X/Y/Z axes: Φ40 / C2	X/Y/Z axes: Φ40 / C2
X/Y/Z axes Precision Linear Guideway			
X axis	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
Y axis	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
Z axis	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block	45mm × 6 pcs self-lube type Block
X/Y/Z axes Transmission	Direct drive	Direct drive	Direct drive
<b>Positioning Accuracy</b>			
Positioning Accuracy	0.003/ 300	0.003/ 300	0.003/ 300
Repetition X/Y/Z axes	±0.003	±0.003	±0.003
<b>Spindle Details</b>			
Spindle Taper (Tool Interface)	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40	BBT#40 / DIN#40 / CAT#40
Spindle Speed	10000	10000	10000
Spindle Coolant Unit	Standard	Standard	Standard
Spindle Transmission	Direct drive	Direct drive	Direct drive
Spindle Diameter	Φ70	Φ70	Φ70
Spindle Nose to Work Table	160 - 770	120 - 730	160 - 770
Spindle Center to Column	740	630	740
<b>Feed</b>			
Cutting Feed Rate	1-12000	1-12000	1-12000
Rapid Traverse Rate	32	32	32
X/Y/Z axes Optical Linear Scale	<b>EIDENHAIN</b> Absolute Type 0.1μm Resolution		
<b>A.T.C. (Tool Magazine)</b>			
Tool Changer Type	Arm-type	Arm-type	Arm-type
Tool Magazine Pockets	20	20	20
Max. Tool Diameter w/ adjacent tool	Φ 90	Φ 90	Φ 90
Max. Tool Diameter w/o adjacent tool	-	-	-
Tool Selection	Bi-direction random shortest path		
Maximum Tool Length	300	300	300
Maximum Tool Weight	7	7	7
<b>General Information</b>			
Coolant Motor	0.85 kW, 2.0 kg/cm <sup>2</sup>	0.85 kW, 2.0 kg/cm <sup>2</sup>	0.85 kW, 2.0 kg/cm <sup>2</sup>
Coolant Tank Capacity	1.27 kW, 3.0 kg/cm <sup>2</sup> 420	1.27 kW, 3.0 kg/cm <sup>2</sup> 420	1.27 kW, 3.0 kg/cm <sup>2</sup> 420
Chip Conveyor Motor	0.2 (kW) × 2 / 0.4 (kW) × 1	0.2 (kW) × 3	0.2 (kW) × 2 / 0.4 (kW) × 1
Air Pressure Required	6	6	6
Power Consumption	25	25	25
Machine Net Weight	8200	8350	8500

Item / Model	e-1800
<b>Work Table</b>	
Table Size	2000 × 820
T-slot (Width × Number × Distance)	22 × 5 × 160
Table Load Capacity	2200
<b>Movement and Range</b>	
X axis	1800
Y axis	800
Z axis	700 (opt. 1000)
X/Y/Z axes Ballscrew	X/Y/Z axes: Φ50 / P10 / C3
X/Y/Z axes Precision Linear Guideway	
X axis	55mm × 6 pcs self-lube type Block
Y axis	55mm × 6 pcs self-lube type Block (Main Slide × 4) 45mm × 4 pcs self-lube type Block (Supporting Slide × 2)
Z axis	Embraced Box-way
X/Y/Z axes Transmission	Direct drive
<b>Positioning Accuracy</b>	
Positioning Accuracy	0.003/ 300
Repetition X/Y/Z axes	±0.003
<b>Spindle Details</b>	
Spindle Taper (Tool Interface)	BT/DIN/CAT#40 / BT/DIN/CAT#50
Spindle Speed	10000
Spindle Coolant Unit	Standard
Spindle Transmission	Direct drive
Spindle Diameter	Φ70 / Φ90
Spindle Nose to Work Table	200 - 900 (opt. 200 - 1200)
Spindle Center to Column	860
<b>Feed</b>	
Cutting Feed Rate	1-12000
Rapid Traverse Rate	24 / Z: 16
X/Y/Z axes Optical Linear Scale	(Opt.) <b>HEIDENHAIN</b> Absolute Type 0.1μm Resolution
<b>A.T.C. (Tool Magazine)</b>	
Tool Changer Type	Arm-type
Tool Magazine Pockets	24
Max. Tool Diameter w/ adjacent tool	Φ 90 / Φ 105
Max. Tool Diameter w/o adjacent tool	-
Tool Selection	
Maximum Tool Length	350
Maximum Tool Weight	7 / 15
<b>General Information</b>	
Coolant Motor	0.85 kW, 2.0 kg/cm <sup>2</sup> 1.27 kW, 3.0 kg/cm <sup>2</sup>
Coolant Tank Capacity	350
Chip Conveyor Motor	0.2 (kW) × 2 / 0.4 (kW) × 1
Air Pressure Required	6
Power Consumption	35 / 45
Machine Net Weight	16800