



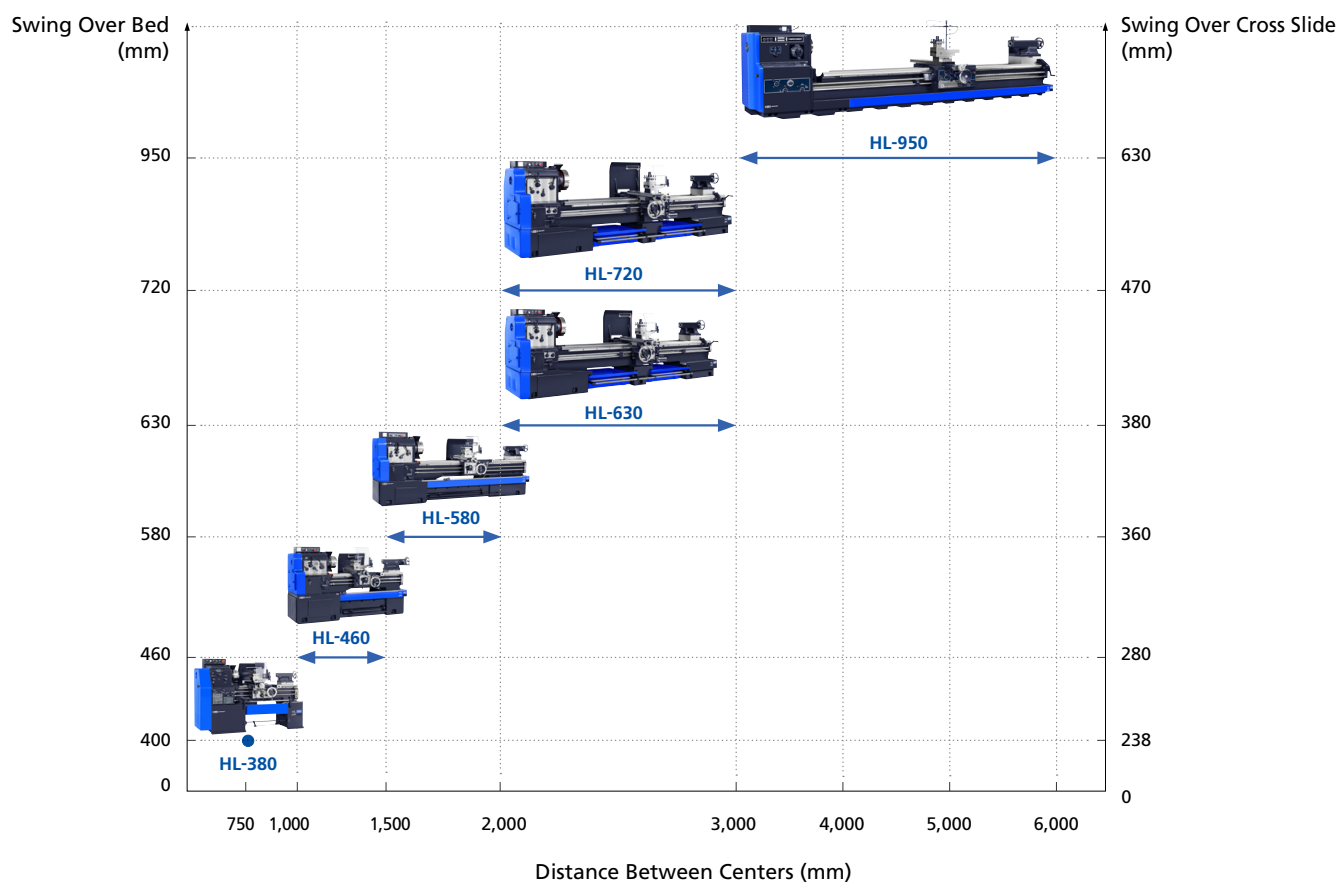
HL-Series

High Precision Conventional Lathe

HIGH PRECISION CONVENTIONAL LATHE

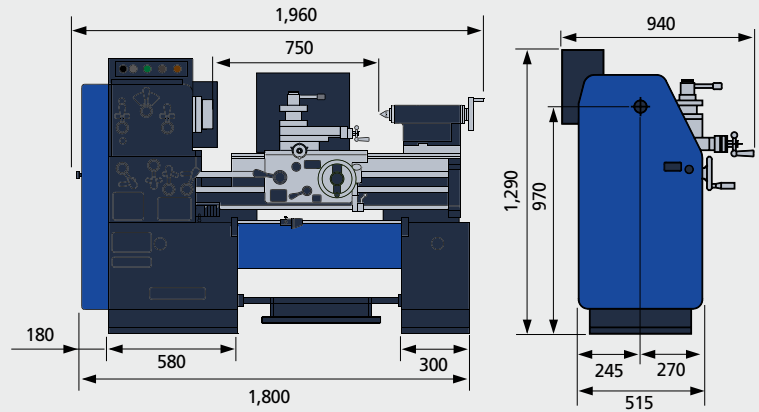
Hwacheon HL Series

Every Hwacheon lathe is equipped with a jog switch on the head stock, heavy duty spindle bearing, and the wide guiding surface-perfect for any application where it the key.



HL-380

* Unit : mm / Dimension : Gap Type



Description		HL-380
Capacity		
Swing Over Bed	mm(inch)	Ø400 (15.75")
Swing Over Cross Slide	mm(inch)	Ø238 (9.37")
Swing Over Gap	mm(inch)	Non Gap
Distance Between Centers	mm(inch)	750 (29.53")
Spindle		
Spindle Nose	KS	A2-5
Spindle Bore	mm(inch)	Ø52 (2.05")
Taper of Spindle Bore	M.T	No.6
Taper of Center	M.T	No.4
No. of Spindle Speeds	step	12
Range of Spindle Speeds	rpm	45 ~1,800
Spindle Motor (4P / 8P)	kW(HP)	3 / 2 (4 / 2.7)
Carriage		
No. of Feed Changes	step	32
Longitudinal Feed (Z-Axis)	mm/rev	0.06 ~ 0.84
Cross Feed (X-Axis)	mm/rev	0.014 ~ 0.192
Cross Slide Travel	mm(inch)	250 (9.84")
Compound Rest Travel	mm(inch)	110 (4.33")
Bite Holder Size (W x H)	mm(inch)	20x20 (0.79"x0.79")
Threads		
Lead Crew (Dia. x pitch)	mm(inch)	Ø32x6 (1.26"x0.24")
Inch Threads	TPI	4~56
Metric Threads	mm(inch)	0.5~7 (0.02"~0.28")
D.P. Threads	DP	8~56
Module Threads	Module	0.5~3.5
Tail Stock		
Spindle Travel	mm(inch)	150 (5.91")
Taper of Center	M.T	No.4
Bed		
Width of Bed	mm(inch)	300 (11.81")
Length of Bed	mm(inch)	1,600 (62.99")
Motor · Coolant Tank		
Coolant Tank Capacity	ℓ(gal)	20 (5.28)
Coolant Pump Motor	W(HP)	100 (0.13)
Power Capacity	kVA	6
Power Specification	-	220V, 60Hz / 380V, 60Hz
Machine Size		
Height	mm(inch)	1,290 (50.79")
Floor Space (L x W)	mm(inch)	1,960 x 940 (77.17"x37.01")
Net Weight	kg(lb)	1,240 (2,734)

Standard Accessories

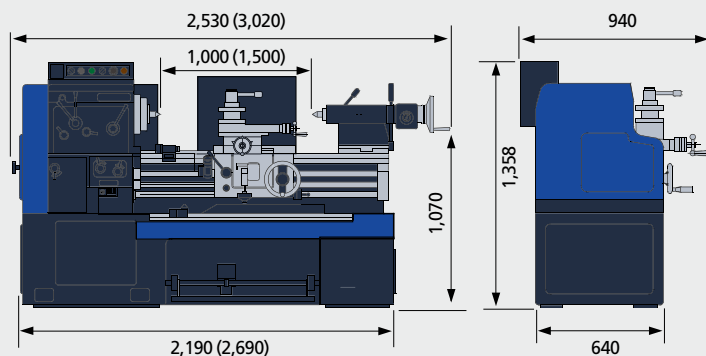
- Apron Auto-moving Stopper (Dog type)
- Center Sleeve (M.T. No.6 x No.4)
- Change Gear (45T)
- Coolant Equipment
- Dead Center (M.T. No.4)
- Leveling Block
- Live Center (M.T. No.4)
- Tool Box & Kits
- Work Light
- 7" 3 Jaw Scroll Chuck

Optional Accessories

- Change Gear (40T, 50T, 157T)
- Chasing Dial (Worm Gear: 14T, 20T)
- Digital Scale (2-axis / 3-axis)
- Drawing Hanger
- Face Plate (Ø300)
- Follow Rest (Ø2.3"~Ø4.2": Metal)
- Semi-enclosed Splash Guard
- Steady rest (Ø0.6" ~ Ø4.3" : Metal)
- Taper Attachment
- Rear Toolpost
- 9" 3 Jaw Scroll Chuck (Flange Not Included)
- 8" 4 Jaw Independent Chuck (Flange Not Included)
- 10" 4 Jaw Independent Chuck (Flange Not Included)
- 12" 4 Jaw Independent Chuck (Flange Not Include)

HL-460

* Unit : mm / Dimension : Gap Type



Description		HL-460	
		1000	1500
Capacity			
Swing Over Bed	mm(inch)	Ø460 (18.11")	
Swing Over Cross Slide	mm(inch)	Ø280 (11.02")	
Swing Over Gap	mm(inch)	Ø680 (26.77")	
Distance Between Centers	mm(inch)	1,000 (39.37")	1,500 (59.06")
Spindle			
Spindle Nose	KS	A1-6" or D1-6"	
Spindle Bore	mm(inch)	Ø52 (2.05")	
Taper of Spindle Bore	M.T	No.6	
Taper of Center	M.T	No.4	
No. of Spindle Speeds	step	12	
Range of Spindle Speeds	rpm	32~1,800	
Spindle Motor	kW(HP)	5.5 (7.5)	
Carriage			
No. of Feed Changes	step	40	
Longitudinal Feed (Z-Axis)	mm/rev	0.047~0.732	
Cross Feed (X-Axis)	mm/rev	0.047~0.732	
Cross Slide Travel	mm(inch)	255 (10.06")	
Compound Rest Travel	mm(inch)	150 (5.9")	
Bite Holder Size (W x H)	mm(inch)	25x25 (0.98"x0.98")	
Threads			
Lead Screw (Dia. x pitch)	mm(inch)	Ø38x6 (1.5"x0.24")	
Inch Threads	TPI	2~112	
Metric Threads	mm(inch)	0.25~14 (0.01"~0.55")	
D.P. Threads	DP	8~112	
Module Threads	Module	0.25~3.5	
Tail Stock			
Spindle Travel	mm(inch)	150 (5.91")	
Taper of Center	M.T	No.4	
Bed			
Width of Bed	mm(inch)	350 (13.78")	
Length of Bed	mm(inch)	2,040 (80.31")	2,530 (99.61")
Motor · Coolant Tank			
Coolant Tank Capacity	ℓ(gal)	20 (5.28)	
Coolant Pump Motor	W(HP)	100 (0.13)	
Power Capacity	kVA	10	
Power Specification	-	220V, 60Hz / 380V, 60Hz	
Machine Size			
Height	mm(inch)	1,358 (53.46")	
Floor Space (L x W)	mm(inch)	2,530x940 (99.61"x37.01")	3,020x940 (118.9"x37.01")
Net Weight	kg(lb)	2,000 (4,409)	2,270 (5,004)

Standard Accessories

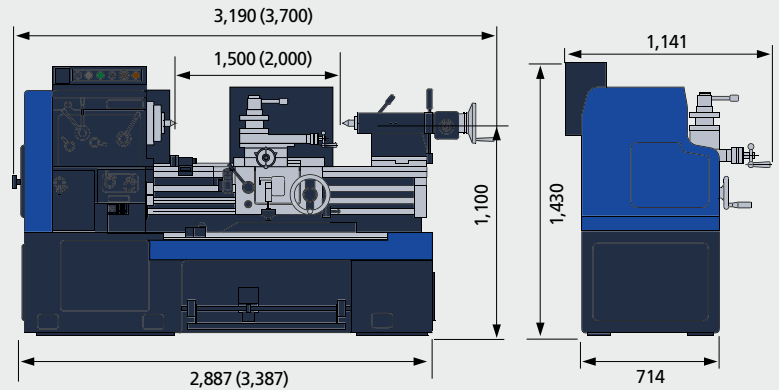
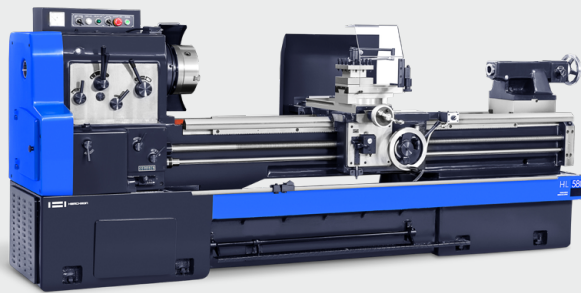
- Apron Auto-moving Stopper (Dog type)
- Center Sleeve (M.T. No.6 x No.4)
- Change Gear (50T, 84T)
- Coolant Equipment
- Dead Center (M.T. No.4)
- Drawing Hanger
- Inching Switch
- Leveling Block
- Live Center (M.T. No.4)
- Steady Rest (Ø1.5"~Ø5": Metal)
- Tailstock Quill Reduction Equipment
- Tool Box & Kits
- Work Light
- 9" 3 Jaw Scroll Chuck

Optional Accessories

- Carriage Micro Stopper
- Change Dial (Worm Gear: 14T, 19T, 20T, 24T)
- Change Gear (71T)
- Digital Scale (2-axis / 3-axis)
- Driving Plate (Ø240, Ø298)
- Face Plate (Ø400, Ø450)
- Follow Rest (Ø1.5"~Ø3": Metal)
- Gap (Swing Ø680)
- Oversized Steady Rest (Ø5"~Ø11": Metal)
- Semi-enclosed Splash Guard
- Taper Attachment
- Rear Toolpost
- 10"3 Jaw Scroll Chuck (Flange Not Included)
- 14"4 Jaw Independent Chuck (Flange Not Included)

HL-580

* Unit : mm / Dimension : Gap Type



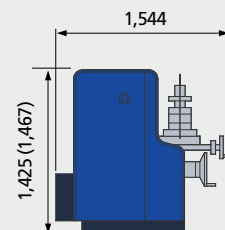
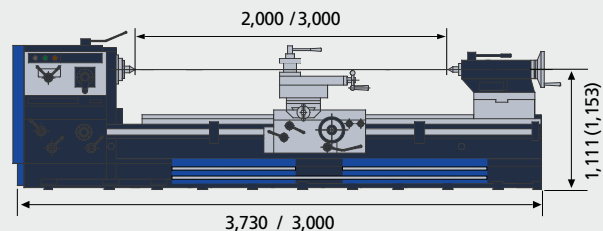
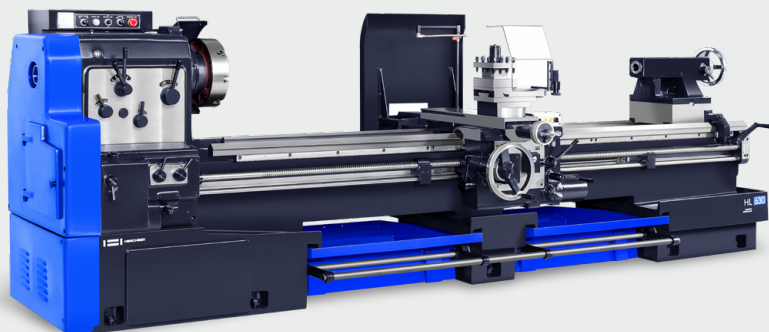
Description		HL-580	
		1500	2000
Capacity			
Swing Over Bed	mm(inch)	Ø580 (22.83")	
Swing Over Cross Slide	mm(inch)	Ø360 (14.17")	
Swing Over Gap	mm(inch)	Ø810 (31.89")	
Distance Between Centers	mm(inch)	1,500 (59.06")	2,000 (78.74")
Spindle			
Spindle Nose	KS	A1-8" or D1-8"	
Spindle Bore	mm(inch)	Ø77 (3.03")	
Taper of Spindle Bore	M.T	No.7	
Taper of Center	M.T	No.5	
No. of Spindle Speeds	step	12	
Range of Spindle Speeds	rpm	28~1,350	
Spindle Motor	kW(HP)	7.5 (10)	
Carriage			
No. of Feed Changes	step	40	
Longitudinal Feed (Z-axis)	mm/rev	0.038~0.580	
Cross Feed (X-axis)	mm/rev	0.038~0.580	
Cross Slide Travel	mm(inch)	300 (11.81")	
Compound Rest Travel	mm(inch)	170 (6.69")	
Bite Holder Size (W x H)	mm(inch)	32x32 (1.26"x1.26")	
Threads			
Lead Screw (Dia. x pitch)	mm(inch)	Ø38x6 (1.5"x0.24")	
Inch Threads	TPI	2~112	
Metric Threads	mm(inch)	0.25~14 (0.01"~0.55")	
D.P. Threads	DP	8~112	
Module Threads	Module	0.25~3.5	
Tail Stock			
Spindle Travel	mm(inch)	150 (5.91")	
Taper of Center	M.T	No.5	
Bed			
Width of Bed	mm(inch)	420 (16.54")	
Length of Bed	mm(inch)	2,705 (106.5")	3,250 (127.95")
Motor • Coolant Tank			
Coolant Tank Capacity	ℓ(gal)	20 (5.28)	
Coolant Pump Motor	W(HP)	100(0.13)	
Power Capacity	kVA	13	
Power Specification	-	220V, 60Hz / 380V, 60Hz	
Machine Size			
Height	mm(inch)	1,430 (56.3")	
Floor Space (L x W)	mm(inch)	3,190x1,141 (125.59"x44.92")	3,700x1,141 (145.67"x44.92")
Net Weight	kg(lb)	2,930 (6,460)	3,260 (7,187)

Standard Accessories
• Apron Auto-moving Stopper (Dog type)
• Center Sleeve (M.T. No.7 x No.5)
• Change Gear (50T, 84T)
• Coolant Equipment
• Dead Center (M.T. No.5)
• Drawing Hanger
• Face Plate (Ø450 / 2000 Type)
• Follow Rest (Ø1.5"~Ø4": Metal / 2000 Type)
• Inching Switch
• Leveling Block
• Live Center (M.T. No.5)
• Steady Rest (Ø1.5"~Ø8.5": Metal)
• Tailstock Quill Reduction Equipment
• Tool Box & Kits
• Work Light
• 10" 3 Jaw Scroll Chuck

Optional Accessories
• Carriage Micro Stopper
• Chasing Dial (Worm Gear: 14T, 19T, 20T, 24T)
• Change Gear (71T)
• Digital Scale (2-axis / 3-axis)
• Driving Plate (Ø240)
• Face Plate (Ø450 / 1500 Type)
• Follow Rest (Ø1.5"~Ø4": Metal / 1500 Type)
• Gap (Swing Ø810)
• Oversized Steady Rest (Ø6"~Ø12": Metal)
• Semi-enclosed Splash Guard
• Taper Attachment
• Rear Toolpost
• Worm Gear (13T, 22T)
• 14" 4 Jaw Independent Chuck (Flange Not Included)
• 16" 4 Jaw Independent Chuck (Flange Not Included)
• 18" 4 Jaw Independent Chuck (Flange Not Included)

HL-630/720

* Unit : mm / Dimension : Gap Type
3000/4000/5000/6000 type, () : HL-720



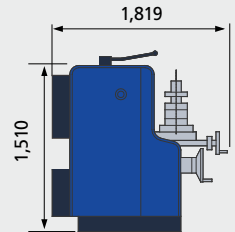
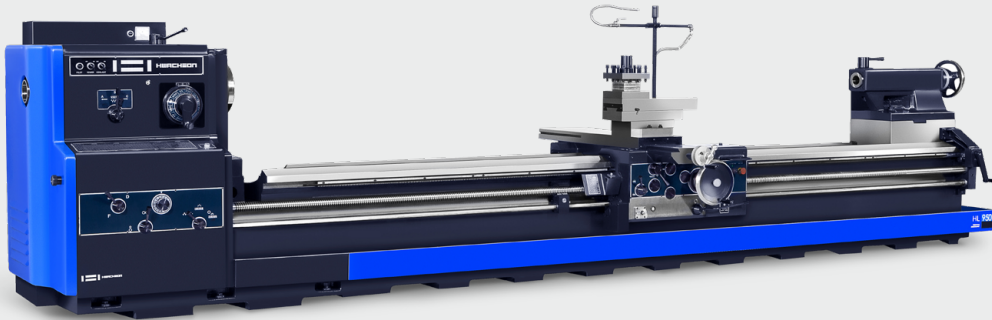
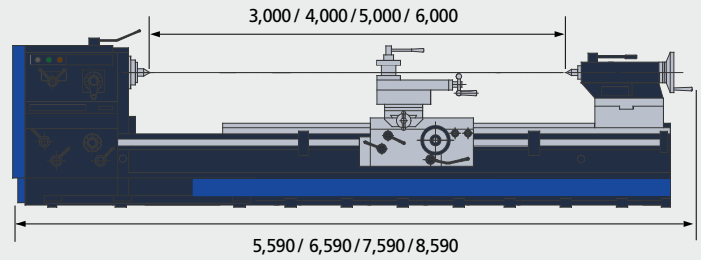
ITEM		HL-630		HL-720	
		2000	3000	2000	3000
Capacity					
Swing Over Bed	mm(inch)	Ø630 (24.8")		Ø720 (28.35")	
Swing Over Cross Slide	mm(inch)	Ø380 (14.96")		Ø470 (18.5")	
Swing Over Gap	mm(inch)	Ø870 (34.25")	Non gap	Ø980 (38.58")	Non gap
Distance Between Centers	mm(inch)	2,000 (78.74")	3,000 (118.11")	2,000 (78.74")	3,000 (118.11")
Spindle					
Spindle Nose	KS	A1-8" or D1-8"			
Spindle Bore	mm(inch)	Ø77 (3.03")			
Taper of Spindle Bore	M.T	No.7			
Taper of Center	M.T	No.5			
No. of Spindle Speeds	step	12			
Range of Spindle Speeds	rpm	27~1,205			
Spindle Motor	kW(HP)	11 (15)			
Carriage					
No. of Feed Changes	step	40			
Longitudinal Feed (Z-Axis)	mm/rev	0.039~0.549			
Cross Feed (X-Axis)	mm/rev	0.041~0.580			
Cross Slide Travel	mm(inch)	390 (15.35")			
Compound Rest Travel	mm(inch)	170 (6.69")			
Bite Holder Size (W x H)	mm(inch)	32x32 (1.26"x1.26")			
Threads					
Lead Screw (Dia. x pitch)	mm(inch)	Ø40x12 (Ø1.57"x0.47")			
Inch Threads	TPI	2 ~ 56			
Metric Threads	mm(inch)	0.5~14 (0.02"~0.55")			
D.P. Threads	DP	4~56			
Module Threads	Module	1~7			
Tail stock					
Spindle Travel	mm(inch)	150 (5.91")			
Taper of Center	M.T	No.5			
Bed					
Width of Bed	mm(inch)	510 (20.08")			
Length of Bed	mm(inch)	3,452 (135.91")	4,452 (175.28")	3,452 (135.91")	4,452 (175.28")
Motor · Coolant Tank					
Coolant Tank Capacity	ℓ(gal)	145 (38.3)	200 (52.83)	145 (38.3)	200 (52.83)
Coolant Pump Motor	W(HP)	100 (0.13)			
Power Capacity	kVA	20			
Power Specification	-	220V, 60Hz / 380V, 60Hz			
Machine Size					
Height	mm(inch)	1,467 (57.75")			
Floor Space (L x W)	mm(inch)	3,730 x 1,544 (146.85"x60.78")	4,730 x 1,544 (186.22"x60.78")	3,730 x 1,544 (146.85"x60.78")	4,730 x 1,544 (186.22"x60.78")
Net Weight	kg(lb)	3,570 (7,871)	3,700 (8,157)	3,670 (8,091)	3,800 (8,378)

Standard Accessories
• Change Gear (78T)
• Coolant Equipment
• Dead Center (M.T. No.5)
• Drawing Hanger
• Follow Rest (Ø1.5"~Ø5": Metal)
• Inching Switch
• Leveling Block
• Live Center (M.T. No.5)
• Steady Rest (Ø6"~Ø11": Metal)
• Tailstock Quill Reduction Equipment
• Tool Box & Kits
• Work Light
• 14" 4 Jaw Independent Chuck

Optional Accessories
• Apron Auto-Moving Stopper (Dog type)
• Carriage Micro Stopper
• Center Sleeve (M.T. No.7 x No.5)
• Chasing Dial (Worm Gear: 14T, 19T, 20T, 24T)
• Change Gear (65T, 157T)
• Digital scale (2-axis / 3-axis)
• Driving Plate (Ø300)
• Face Plate (Ø550, Ø635)
• Gap (HL-630x2000, Swing Ø850 / HL-720x2000, Swing Ø940)
• Oversized Steady Rest (Ø11"~Ø17": Roller)
• Semi-enclosed Splash Guard
• Steady Rest (Ø6"~Ø11": Roller)
• Taper Attachment
• Rear Toolpost
• Worm gear (13T, 22T)
• 14" 3 Jaw Scroll Chuck (Flange Not Included)
• 12" 4 Jaw Independent Chuck (Flange Not Included)
• 16" 4 Jaw Independent Chuck (Flange Not Included)
• 18" 4 Jaw Independent Chuck (Flange Not Included)
• 20" 4 Jaw Independent Chuck (Flange Not Included)
• 24" 4 Jaw Independent Chuck (Flange Not Included)

HL-950

* Unit : mm / Dimension : Gap Type
3000/4000/5000/6000 type



ITEM		HL-950			
		3000	4000	5000	6000
Capacity					
Swing Over Bed	mm(inch)	Ø950 (37.4")			
Swing Over Cross Slide	mm(inch)	Ø630 (24.8")			
Swing Over Gap	mm(inch)	Ø1,200 (47.24")			
Distance Between Centers	mm(inch)	3,000 (118.11")	4,000 (157.48")	5,000 (196.85")	6,000 (236.22")
Spindle					
Spindle Nose	KS	A2-11"			
Spindle Bore	mm(inch)	Ø105 (4.13")			
Taper of Spindle Bore	M.T	No.120			
Taper of Center	M.T	No.6			
No. of Spindle Speeds	step	12			
Range of Spindle Speeds	rpm	17~850			
Spindle Motor	kW(HP)	15 (20)			
Carriage					
No. of Feed Changes	step	72			
Longitudinal Feed (Z-Axis)	mm/rev	0.044~19.930			
Cross Feed (X-Axis)	mm/rev	0.022~9.965			
Cross Slide Travel	mm(inch)	555 (21.85")			
Compound Rest Travel	mm(inch)	290 (11.42")			
Bite Holder Size (W x H)	mm(inch)	40x40 (1.57"x1.57")			
Threads					
Lead Screw (Dia. x Pitch)	mm(inch)	Ø50x12 (Ø1.97"x0.47")			
Inch Threads	TPI	0.25~56			
Metric Threads	mm(inch)	0.5~112 (0.02"~4.41")			
D.P. Threads	DP	1~56			
Module Threads	Module	0.5~28			
Tail Stock					
Spindle Travel	mm(inch)	260 (10.24")			
Taper of Center	M.T	No.6			
Bed					
Width of Bed	mm(inch)	600 (23.62")			
Length of Bed	mm(inch)	5,300 (208.66")	6,300 (248.03")	7,300 (287.4")	8,300 (326.77")
Motor · Coolant Tank					
Coolant Tank Capacity	ℓ(gal)	80 (21.13)	100 (26.41)	120 (31.70)	140 (36.98)
Coolant Pump Motor	W(HP)	180 (0.24)			
Power Capacity	kVA	29			
Power Specification	-	220V, 60Hz / 380V, 60Hz			
Machine Size					
Height	mm(inch)	1,510 (59.44")			
Floor Space (L x W)	mm(inch)	5,590x1,819 (220.08"x71.61")	6,590x1,819 (259.45"x71.61")	7,590x1,819 (298.82"x71.61")	8,590x1,819 (338.19"x71.61")
Net Weight	kg(lb)	8,600 (18,960)	9,200 (20,283)	9,800 (21,605)	10,400 (22,928)

Standard Accessories

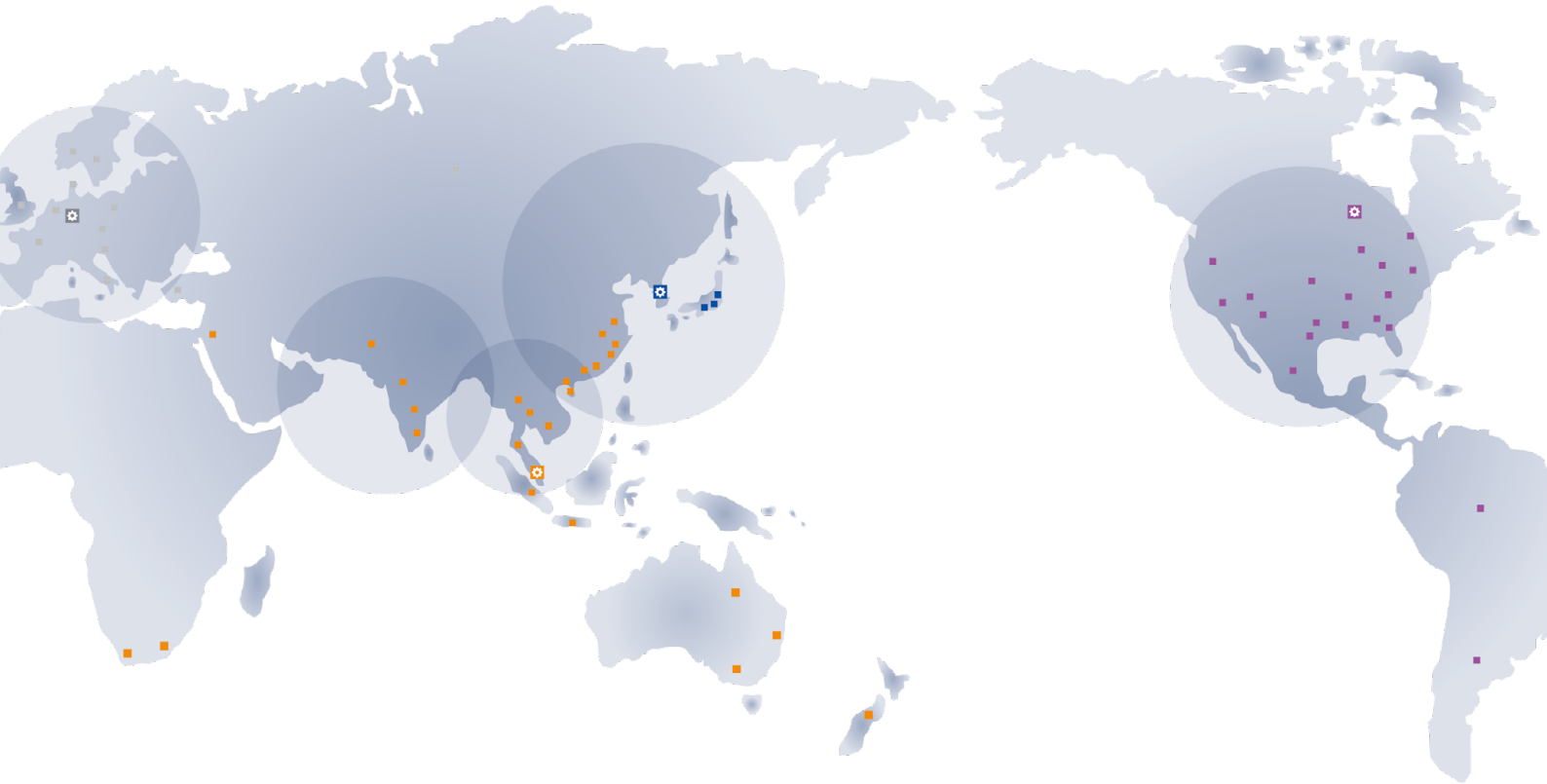
- Change Gear (30T, 40T, 120T)
- Coolant Equipment
- Dead Center (M.T. No.6)
- Inching Switch
- Leveling Block
- Live Center (M.T. No.6)
- Tailstock Quill Reduction Equipment
- Tool Box & Kits
- Work Light
- 18" 4 Jaw Independent Chuck

Optional Accessories

- Carriage Micro Stopper
- Center Sleeve (M.T. No.6)
- Chasing Dial (Worm Gear: 11T, 12T, 14T, 15T, 16T)
- Change Gear (52T, 86T, 117T, 146T)
- Digital Scale (2-axis / 3-axis)
- Face Plate (Ø810)
- Follow Rest (Ø2.4"~Ø9.4": Metal, Roller)
- Semi-enclosed Splash Guard
- Steady rest (Ø1.97"~Ø9.84": Roller)
- Taper Attachment
- Rear Toolpost
- 14" 3 Jaw Scroll Chuck (Flange Not Included)
- 20" 4 Jaw Independent Chuck (Flange Not Included)
- 24" 4 Jaw Independent Chuck (Flange Not Included)
- 30" 4 Jaw Independent Chuck (Flange Not Included)

Hwacheon Global Network

🏠 Hwacheon Headquarters 🇺🇸 Hwacheon America 🇩🇪 Hwacheon Europe 🇸🇬 Hwacheon Asia



HWACHEON

Please contact us for product inquiries.

www.hwacheon.com

The product structure, machine design and specifications and design can be changed without notice for improvements.
Written specifications are standard type.

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