

HL380



HL720



Machine specifications

DESCRIPTION	Unit	HL380	HL410	HL460		HL580		HL630 / HL720	
		750	1000	1000	1500	1500	2000	2000	3000
CAPACITY	Swing over bed	mm(inch)	ø 400(15.7)	ø 410(16.1)	ø 460(18.1)		ø 580(22.8)		ø 630(24.8) / ø 720(28.3)
	Swing over cross slide	mm(inch)	ø 238(9.3)		ø 280(11.0)		ø 360(14.1)		ø 410(16.1) / ø 470(18.5)
	Swing over gap	mm(inch)	-		ø 680(26.7)		ø 810(31.8)		ø 870(34.2) / ø 960(37.7)
	Distance between center	mm(inch)	750(29.5)	1,060(41.7)	1,000(39.3)	1,490(58.6)	1,500(59.0)	2,000(78.7)	2,095(82.4)
SPINDLE	Spindle nose	KS	A2-5	A2-6	A1-6 or D1-6		A1-8 or D1-8		
	Number of spindle speeds	step			12				
	Range of spindle speeds	rpm	45 - 1,800		32 - 1,800		28 - 1,350		27 - 1,205
	Taper of spindle bore	M.T.			No. 6		No. 7		
	Spindle bore	mm(inch)	ø 52(2.0)	ø 58(2.2)	ø 52(2.0)		ø 77(3.0)		
	Taper of center	M.T.			No. 4		No. 5		
	CARRIAGE	Number of feed changes	step	32		40			32
Range of cross feeds		mm/rev(inch/rev)	0.014 - 0.192	0.012 - 0.174	0.04 - 0.62 & 0.16 - 2.50			0.041 - 1.16	
			(0.0006 - 0.0075)	(0.0005 - 0.0068)	(0.0016 - 0.0244 & 0.0063 - 0.0984)			(0.0017 - 0.0456)	
Range of longitudinal feeds		mm/rev(inch/rev)	0.06 - 0.84	0.055 - 0.766	0.038 - 0.58 & 0.15 - 2.32			0.039 - 1.10	
			(0.0024 - 0.0330)	(0.0022 - 0.0301)	(0.0015 - 0.0228 & 0.0059 - 0.0913)			(0.0016 - 0.0433)	
Cross slide travel		mm(inch)	250(9.8)		255(10.0)		300(11.8)		360(14.1) / 390(15.3)
Compound rest travel	mm(inch)	110(4.3)		150(5.9)		170(6.6)			
Max. size cutting tool(b x h)	mm	20 x 20		25 x 25		32 x 32			
THREADS	Lead screw (dia. x pitch)	mm	ø 32 x 6		ø 32 x 6	ø 38 x 6	ø 38 x 6		ø 40 x 12
	Inch threads	TPI	56 - 4		112 - 2		56 - 2		
	Metric threads	mm	0.5 - 7		0.25 - 14		0.5 - 14		
	D.P. threads	DP	-		8 - 112		4 - 56		
	Module threads	Module	-		0.25 - 3.5		1 - 7.5		
TAIL STOCK	Spindle travel	mm(inch)	150(5.9)						
	Taper of center	M.T.	No. 4			No. 5			
BED	Width of bed	mm(inch)	300(11.8)	330(12.9)	350(13.7)		420(16.5)		510(20.0)
	Length of bed	mm(inch)	1,600(62.9)	1,950(76.7)	2,040(80.3)	2,530(99.6)	2,705(106.4)	3,205(126.1)	3,452(135.9)
MOTOR	Main spindle motor	KW	3/2	4/3	5.5		7.5		11
	Coolant pump motor	W	100						
POWER	kVA	6	7	10		13		20	
FLOOR SPACE REQUIRED	mm	785 x 1,856	968 x 2,298	940x2,410	940x2,915	1,150x3,155	1,150x3,655	1,510x3,730 / 1,544x3,730	1,510x4,730 / 1,544x4,730
NET WEIGHT	kgf	1,240	1,350	2,004	2,270	2,900	3,270	3,570/3,670	3,700/3,800

Standard accessories

	HL380	HL410	HL460	HL580	HL630 (HL720)	
	750	1000	1000	1500	2000	2000
Chuck	7" 3jaw	9" 3jaw	10" 3jaw	14" 4jaw		
Center sleeve	MT No.6 x No.4	MT No.6 x No.4	MT No.7 x No.5	MT No.6 x No.4		
Change gear	45T	50T, 84T	50T, 84T	78T		
Worm gear	14T, 20T	14T, 19T, 20T, 24T	14T, 19T, 20T, 24T	13T, 19T, 20T, 22T, 24T		
Dead center	MT No.4	MT No.4	MT No.5	MT No.5		
Live center	MT No.4	MT No.4	MT No.5	MT No.5		
Steady rest	X	1.5" - 5"	1.5" - 8.5"	6" - 11"		
Follow rest	X	X	X	1.5" x 4"	1.5" - 5"	
Face plate	X	X	X	ø 450	ø 550	
Leveling block	o	o	o	o		
Coolant equipment	o	o	o	o		
Tool kits & Box	o	o	o	o		
Tailstock quill reduction equipment	X	o	o	o		
Inching switch	X	o	o	o		
Work light	o	o	o	o		
Drawing hanger	X	o	o	o		

Optional accessories

	HL380	HL410	HL460	HL580	HL630 (HL720)	
	750	1000	1000	1500	2000	2000
Chuck	8"4, 9"3, 10"4jaw	14"4, 10"3jaw	14"4, 10"3jaw	14"4, 16"4, 18"4jaw	14"3, 12"4, 16" - 24"4jaw	
Change gear	40T, 50T, 157T	71T(D.P., Module)	71T(D.P., Module)	65T, 157T		
Worm gear	13T, 16T, 19T, 22T, 24T	13T, 22T	13T, 22T	13T, 22T		
Driving plate	X	ø 240, ø 298	ø 240	ø 300		
Face plate	o	ø 400, ø 450	o	X	ø 635	
Steady rest	0.6" ~ 4.3"	X	X	X	X	
Steady rest(Oversized)	X	5" - 11"	6" - 12"	11" - 17"		
Steady rest(Roller type)	X	X	X	1" - 11"		
Follow rest	0.6"~2.4"	0.6"~4.3"	1.5" - 3"	o	X	X
Taper attachment	o	o	o	o		
Chip cover	o	o	o	o		
Rear tool post	o	X	o	o	X	
Carriage micro stopper	X	o	o	o	o	
Drawing hanger	o	X	X	X	X	