

Best Partner HANKOOK
MACHINE TOOLS





*The most Precise, Rigid, Powerful, and Cost-Effective
Machine Tools of State-of-the-Art Technology.*



Hankook Machine Tools Co., Ltd. is a specialist for design, manufacturing and service of medium and heavy duty CNC machine tools, supplying the Korea and overseas markets since its foundation in 1969.

With a particular focus on the design and manufacture of large and heavy duty CNC lathes, we have always played a leading role in this field in the Korean machine tool industry.

Our product range includes CNC horizontal lathes, CNC vertical lathes, CNC roll lathes, Manual lathes, Machining centers and Lapping Machines.

All machines in our portfolio are produced according to customers' request with specific options and equipment catered for. We are an expert machine tool manufacturer equipped with the latest production and manufacturing techniques.

We have the capability to produce more than 1,000 machine tools a year.

And we, Hankook Machine Tools Co., Ltd. as a medium sized enterprise in Korea, have the self-confidence and ability to support manufacturing companies on a world-wide basis.

Hankook
Machine
Tools



Hankook Machine Tools

■ HANKOOK PRODUCT LINE-UP

■ CNC Vertical Lathe

- VTB(C)-100/125/140/160/160FD
- VTB(C)-125E/140E/160E/200E/250E
- VTB(C)-3040E/4050E/5060E
- VTB(C)-3040Y/4050Y/5060Y
- VLB(C)-3070E/4080E

■ CNC Horizontal Lathe

- PROTEC-6N/7N/9N/11N/13N
- HANTURN-75/85/95
- HANTURN-105/110/130/BB550
- PROTURN-60/60B
- PROTURN-90/100
- DYNATURN-11/13/15/17
- DYNATURN-20/22/24/26
- DYNATURN-11R/13R/15R

■ Portal Type Machining Center

- PMC-21/26
- PMF-21/26
- PME-21/26/32/40/50
- PMH-21/26

■ CNC Roll Lathe

- R-10M
- R-16M
- R-25W
- R-50W
- R-70W
- R-100TM/150TM

■ Manual Lathe

- HANTURN-M75/M85/M95
- HANTURN-M105/M110/M130
- PROTEC-7/7B
- HPL
- PROTEC-9E
- PROTEC-10/11/13
- KM/KMIII
- KH/KHIII

■ Horizontal Boring & Milling Machine

■ Lapping & Polishing Machine

- LAPOS-13B/16B/24B/32B/48B

CNC Vertical Lathe

- **VTC-30Y/40Y/50Y**: Double Column with Linear Table Axis (Y-axis)
- **VTB(C)-30E/40E/50E**: Double Column with Cross-Rail Elevating Type
- **VLB(C)-30E/40E**: Single Column with Cross-Rail Elevating Type
- **VTB(C)-85R/100R**: Practical Type
- **VTB(C) Series**: General Type (With C-axis Control)
- **VTB(C)-E Series**: Cross-Rail Elevating Type
- **VTB(C)-APC**: Automatic Pallet Changer (2-pallet, 3-station)
- **VTB-V Series**: For Machining Valve



VLB(C)-30E/40E



VTC-30Y/40Y/50Y



VTB(C)-30E/40E/50E

항목	Items	Unit	VTC-30Y/40Y/50Y	VTB(C)-30E/40E/50E	VLB(C)-30E/40E
최대 가공경	Max. turning diameter	mm(inch)	4000/5000/6000 (157.5/196.8/236.2)		7000/8000(276.6/315)
최대 가공높이	Max. turning height	mm(inch)	2000/2500/3000(78.7/98.4/118)		3000(118)
최대 적재하중	Max. load on table	kg(lbs)	30,000/50,000/60,000(66,100/110,200/132,300)		40,000/60,000(88,200/132,300)
테이블 직경	Table diameter	mm(inch)	3000/4000/5000(118/157.5/196.8)		3000/4000(118/157.5)
테이블 회전속도	Spindle speed	rpm	1~100/1~60/1~50		1~80/1~60
밀링주축 회전속도	Mill spindle speed	rpm		[15~1500]	[15~1500]
C축 분할각도	Min.index angle of C-axis	deg.		[0.001]	[0.001]
W축 이동거리	W-axis stroke	mm(inch)	1500/2000/2500(59/78.7/98.4)		2000(78.7)
Y축 이동거리	Y-axis stroke	mm(inch)	3000/4000/5000(118/158/197)	-	-
주축 모터	AC spindle motor	kW(Hp)	60/75(80/100), 100(135)		60/75(80/100)



VTB(C)-85R/100R



VTB(C)-100



VTB(C) series

항목	Items	Unit	VTB [C]-85R/100R	VTB [C]-100	VTB [C]-125/125E
최대 가공경	Max. turning diameter	mm(inch)	850(33.5)[830(32.7)]/1000(39.4)	1250(49.2)	1600(63)
최대 가공높이	Max. turning height	mm(inch)	850(33.5)[800(31.5)]/900(35.4)	800(31.5)	900/1400(35.4/55.1)
최대 적재하중	Max. load on table	kg(lbs)	800/1000(1760/2200)	4000(8820)	8000(17,640)
테이블 직경	Table diameter	mm(inch)	530/800(21/32)	1000(39.4)	1250(49.2)
테이블 회전속도	Spindle speed	rpm	18~1800/2~800	1.1~450	0.9~360
밀링주축 회전속도	Mill spindle speed	rpm	[3000]		[30~3000]
C축 분할각도	Min. index angle of C-axis	deg.		[0.001]	
크로스레일 이동거리	Crossrail vertical travel	mm(inch)	-	-	-/700(27.5)
주축 모터	AC spindle motor	kW(Hp)	30/37(40/50), 45/55(50/60)	30/37(40/50)	37/45(50/60)



VTB-160FD



VTB(C)-250E



VTB(C)-APC

항목	Items	Unit	VTB [C]-140/140E	VTB [C]-160/160E	VTC-200/250E
최대 가공경	Max. turning diameter	mm(inch)	1600(63)	2000(78.7)	2500/3000(98.4/118)
최대 가공높이	Max. turning height	mm(inch)	900/1400(35.4/55.1), 160FD:600(23.6)		2000(78.7)
최대 적재하중	Max. load on table	kg(lbs)	8000(17,640)	10,000(22,100)	12,000/15,000(26,000/33,000)
테이블 직경	Table diameter	mm(inch)	1400(55.1)	1600(63)	2000/2500(79/98.4)
테이블 회전속도	Spindle speed	rpm	0.8~320	0.7~280	1~200/1~150
밀링주축 회전속도	Mill spindle speed	rpm		[30~3000]	
C축 분할각도	Min. index angle of C-axis	deg.		[0.001]	
크로스레일 이동거리	Crossrail vertical travel	mm(inch)	-/700(27.5)		1000(39.4)
주축 모터	AC spindle motor	kW(Hp)	37/45(50/60)		45/55(60/73), 60/75(80/100)

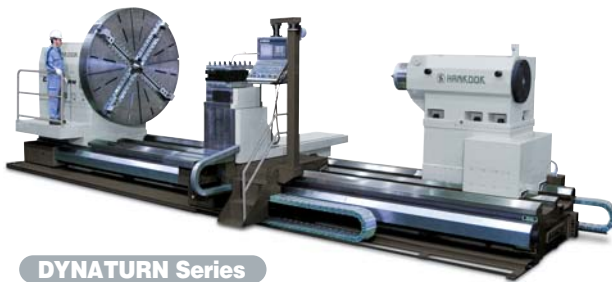
CNC Horizontal Lathe

- HANTURN Series
- PROTURN Series
- DYNATURN Series
- DYNATURN-R Series


HANTURN Series

PROTURN Series

항목	Items	Unit	HANTURN Series	PROTURN Series
베드상의 스윙	Swing over bed	mm(inch)	750 ~ 1320(29.5 ~ 52)	900/1000(35.4/39.4)
왕복대상의 스윙	Swing over cross slide	mm(inch)	480 ~ 940(18.9 ~ 37)	560/660(22/26)
양 센터간의 거리	Distance between centers	mm(inch)	2000 ~ 8000(79 ~ 315)	
양 센터 지지하중	Max. load between centers	kg(lbs)	4000 ~ 8000(8820 ~ 17,600)	8000(17,600)
주축 구멍지름	Spindle bore	mm(inch)	105 ~ 440(4.1 ~ 17.3)	105(4.1)
주축 회전속도	Spindle speed	rpm	3 ~ 1250/3 ~ 400	1 ~ 800
주축 모터	AC spindle motor	kW(Hp)	15/18.5 ~ 37/45(20/25 ~ 50/60)	30/37(40/50)


DYNATURN Series

DYNATURN-R

항목	Items	Unit	DYNATURN Series	DYNATURN-8R/11R/13R
베드상의 스윙	Swing over bed	mm(inch)	1100 ~ 2600(43.3 ~ 102.4)	1000/1360/1580(39.4/53.5/62.2)
왕복대상의 스윙	Swing over cross slide	mm(inch)	720 ~ 2200(28.3 ~ 86.6)	800/1120/1320(31.5/44.1/52)
양 센터간의 거리	Distance between centers	mm(inch)	2000 ~ 8000(79 ~ 315)	
양 센터 지지하중	Max. load between centers	kg(lbs)	12,000 ~ 25,000(26,500 ~ 55,000)	12,000(26,500)
주축 구멍지름	Spindle bore	mm(inch)	105(4.1)	105(4.1)
주축 회전속도	Spindle speed	rpm	1 ~ 500/0.5 ~ 250	1 ~ 500
주축 모터	AC spindle motor	kW(Hp)	37/45(50/60), 95(126)	37/45(50/60)

CNC Horizontal Lathe

Economical PROTEC-N Series

- PROTEC-5N | • PROTEC-6N | • PROTEC-7N
- PROTEC-9N | • PROTEC-11N/13N | • HANTURN-BB550



PROTEC-5N/6N/7N



PROTEC-9N

항목	Items	Unit	PROTEC-5N/6N	PROTEC-7N(A/B)	PROTEC-9N(A/B/C)
베드상의 스윙	Swing over bed	mm(inch)	530/650(20.9/25.6)	750(29.5)	950(37.4)
왕복대상의 스윙	Swing over cross slide	mm(inch)	300/380(11.8/15)	480(18.9)	630(24.8)
양 센터간의 거리	Distance between centers	mm(inch)	1000~3000(29~118)	1000~4000	2000~8000(79~315)
양 센터 지지하중	Max. load between centers	kg(lbs)	2000/3000(4410/6600)	3000(6600)	5000(1100)
주축 구멍지름	Spindle bore	mm(inch)	77/85(3/3.3)	105/176(4.1/6.9)	105/176/254(4/7/10)
주축 회전속도	Spindle speed	rpm	7~1600/3~1400	3~1250/3~1000	2~1000/3~800/2~630
주축모터	AC spindle motor	kW(Hp)	5.5/7.5:5N, 7.5/11:6N	11/15:7NA, 15/18.5:7NB	18.5/22:9NA, 22/26:9NB/C



PROTEC-11N/13N



HANTURN-BB550

항목	Items	Unit	PROTEC-11N/13N [D/E/F]	HANTURN-BB550
베드상의 스윙	Swing over bed	mm(inch)	1100/1300(43.3/51.2)	1100(43.3)
왕복대상의 스윙	Swing over cross slide	mm(inch)	740/940(29.1/51.2)	560(22)
양 센터간의 거리	Distance between centers	mm(inch)	2000~8000(79~315)	-
양 센터 지지하중	Max. load between centers	kg(lbs)	8000(17,600)	-
주축 구멍지름	Spindle bore	mm(inch)	105(4) [330/381/440(13/15/17.3)]	550(21.7)
주축 회전속도	Spindle speed	rpm	1~800/1~630 [2~500/3~400/3~400]	2~306
주축모터	AC spindle motor	kW(Hp)	30/37(40/50)	37/45(50/60)

Portal type Machining Center

- **VMC-20** :High Speed Spindle for Large Dia-molds Machining
- **PMC(F)-21/26**:Cross-Rail Fixed Type (With High Speed Spindle)
- **PME(H)-21/26**:Cross-Rail Elevating Type (With High Speed Spindle)
- **PME-32/40/50**:Cross-Rail Elevating Type



PME-32/40

항목	Items	Unit	PME-32	PME-40
칼럼 간 유효거리	Distance between columns	mm(inch)	3200(126)	4000(157.5)
테이블에서 주축단의 높이	Spindle nose to table	mm(inch)	0~3000(0~104.3)	0~3500(0~137.8)
테이블 이동거리(X축)	X-axis stroke	mm(inch)	5500~10,500(216.5~413)	
램 헤드 이동거리(Z축)	Z-axis stroke(Ram vertical)	mm(inch)	1000(39.4)	
새들 이동거리(Y축)	Y-axis stroke(Saddle cross)	mm(inch)	4200(165.3)	5000(196.8)
크로스레일 이동거리(W축)	W-axis stroke(Crossrail vertical)	mm(inch)	2300(90.5)	2800(110.2)
테이블 크기	Table size	mm(inch)	2500×5000~10,000(98×197~394)	3000×6000~10,000(118×236~394)
테이블 적재중량	Max. load on table	kg(lbs)	30,000~50,000(66,200~110,200)	30,000~70,000(66,200~154,300)
주축 회전속도	Spindle speed	rpm	30~3000	
주축 모터	AC Spindle motor	kW(Hp)	30/ 37(40/50)	



PMC(F)-21/26



VMC-20

항목	Items	Unit	PMC[PMF]-21/26	VMC-20
칼럼 간 유효거리	Distance between columns	mm(inch)	2100/2600(82.7/102.4)	Max.2000(78.7)
테이블에서 주축단의 높이	Spindle nose to table	mm(inch)	150 ~ 1150(5.9 ~ 45.3)	150 ~ 950(5.9 ~ 37.4)
테이블 이동거리(X축)	X-axis stroke	mm(inch)	3500 ~ 6500(138 ~ 256)	2500/3500/4500(137.8)
램 헤드 이동거리(Z축)	Z-axis stroke(Ram vertical)	mm(inch)	1000(39.4)	800(31.5)
새들 이동거리(Y축)	Y-axis stroke(Saddle cross)	mm(inch)	2900/3400(114.2/133.8)	2400(94.5)
테이블 크기	Table size	mm(inch)	1800/2000 × 3000 ~ 6000 (70.9/78.7 × 118 ~ 236)	1500 × 2000/3000/4000 (59 × 79/118/157)
테이블 적재중량	Max. load on table	kg(lbs)	12,000 ~ 18,000 (26,500 ~ 39,700)	6000/8000/10,000 (13,230/17,700/22,000)
주축 회전속도	Spindle speed	rpm	30 ~ 3000[1 ~ 10,000]	30 ~ 3000[Option: 14,000]
주축 모터	AC Spindle motor	kW(Hp)	18.5/22(25/30)[20/35(27/47)]	18.5/22(25/30)[15/25(20/35)]



PME(H)-21/26



PME-50

항목	Items	Unit	PME[PMH]-21/26	PME-50
칼럼 간 유효거리	Distance between columns	mm(inch)	2100/2600(82.7/102.4)	5000(196.8)
테이블에서 주축단의 높이	Spindle nose to table	mm(inch)	0 ~ 1750(0 ~ 68.9)	0 ~ 4500(0 ~ 177.2)
테이블 이동거리(X축)	X-axis stroke	mm(inch)	3500 ~ 6500(138 ~ 256)	11,000/13,000(433/512)
램 헤드 이동거리(Z축)	Z-axis stroke(Ram vertical)	mm(inch)	1000(39.4)	1500(59.0)
새들 이동거리(Y축)	Y-axis stroke(Saddle cross)	mm(inch)	2900/3400(114.2/133.8)	6500(255.9)
크로스레일 이동거리(W축)	W-axis stroke(Crossrail vertical)	mm(inch)	1000(39.4)	3500(137.8)
테이블 크기	Table size	mm(inch)	1800/2000 × 3000 ~ 6000 (70.9/78.7 × 118 ~ 236)	4000 × 10,000/12,000 (157 × 394/472)
테이블 적재중량	Max. load on table	kg(lbs)	12,000 ~ 18,000(26,500 ~ 39,700)	80,000/100,000(176,300/220,400)
주축 회전속도	Spindle speed	rpm	30 ~ 3000[1 ~ 10,000]	5 ~ 2000
주축 모터	AC Spindle motor	kW(Hp)	18.5/22(25/30)[20/35(27/47)]	45/55(60/80)

CNC Roll Lathe

• R10M • R16M • R25W • R50W • R70W • R100TM • R150TM



R10M



R16M

항목	Items	Unit	R10M	R16M	R25W	R50W
롤 최대가공경	Max. roll turning diameter	mm(inch)	800/1000(31.5/39.4)	1000/1200(39.4/47.2)	1600/2000(63/78.7)	1600/2000(63/78.7)
양 센터간의 거리	Distance between centers	mm(inch)	2000~6000(79~236)		2000~8000(79~315)	
양 센터 지지하중	Max. load between centers	kg(lbs)	10,000(22,000)	16,000(35,300)	25,000(55,100)	50,000(110,000)
주축 회전속도	Spindle speed	rpm	0.5~250			1~185
주축 최대토크	Max. spindle torque	kg·m(lb·ft)	1700(12,300)	3150(22,800)	6300(45,500)	8500(61,500)
베드 폭	Bed width	mm(inch)	1400(55)	1400(55)	2000(78.7)	2000(78.7)
주축 모터	Spindle motor	kW(Hp)	60/75(80/100)	70(95)	95(127)	130(175)



R25W

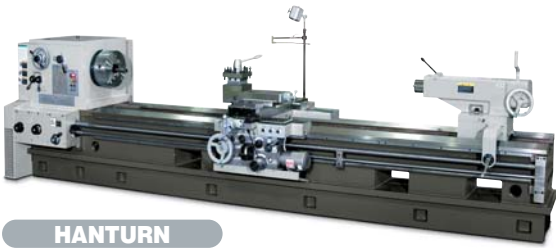


R50W

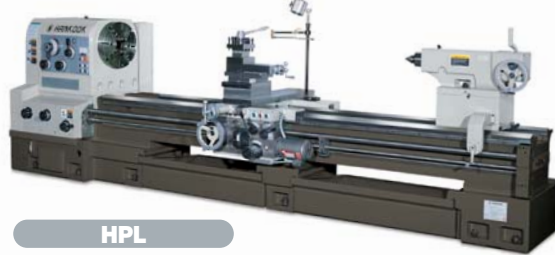
항목	Items	Unit	R70W	R100TM	R150TM
롤 최대가공경	Max. roll turning diameter	mm(inch)	2200(86.6)	2000/2500/3000(78.7/98.4/118)	
양 센터간의 거리	Distance between centers	mm(inch)	2000~8000(79~315)	8000~20,000(315~787)	
양 센터 지지하중	Max. load between centers	kg(lbs)	70,000(154,300)	100,000(220,500)	150,000(330,700)
주축 회전속도	Spindle speed	rpm	1~185	0.5~150	
주축 최대토크	Max. spindle torque	kg·m(lb·ft)	10,000(72,300)	22,500(162,700)	22,500(162,700)
베드 폭	Bed width	mm(inch)	2000(78.7)	1800+1600(70.9+63)	
주축 모터	Spindle motor	kW(Hp)	155(200)	225(300)	

Manual Lathe

• HANTURN | • PROTEC-7/7B | • HPL | • PROTEC-9E | • PROTEC-10/11/13 | • KM/KMIII | • KHIII/KHIII-S



HANTURN



HPL

항목	Items	Unit	HANTURN	PROTEC-7/7B	HPL
베드상의 스윙	Swing over bed	mm(inch)	750 ~ 1320(29.5 ~ 52)	750(29.5)	900(35.4)
왕복대상의 스윙	Swing over cross slide	mm(inch)	480 ~ 1020(18.9 ~ 40.2)	510(20)	680(26.8)
양 센터간의 거리	Distance between centers	mm(inch)	1000 ~ 8000(39 ~ 315)	1000 ~ 4000(39 ~ 157)	2000 ~ 6000(79 ~ 236)
양 센터 지지하중	Max. load between centers	kg(bs)	3000 ~ 6000(6600 ~ 13,200)	3000/4000(6600/8800)	5000(11,000)
주축 구멍지름	Spindle bore	mm(inch)	105/176(4/6.9)	105/172(4/6.8)	84(3.3)
주축 회전속도	Spindle speed	rpm	28 ~ 1250/3 ~ 600	28 ~ 1250/20 ~ 900	12 ~ 1120
주축 모터	Spindle motor	KW(Hp)	4P × 11 ~ 22(15 ~ 30)	4P × 11(15)	4P × 15(20)



PROTEC-9E



PROTEC-10/11/13

항목	Items	Unit	PROTEC-9E	PROTEC-10/11/13
베드상의 스윙	Swing over bed	mm(inch)	950(37.4)	1000/1120/1320(39.4/44.1/52)
왕복대상의 스윙	Swing over cross slide	mm(inch)	680(26.8)	730/850/1020(28.4/33.5/40.2)
양 센터간의 거리	Distance between centers	mm(inch)	2000 ~ 6000(79 ~ 236)	1000 ~ 8000(39.4 ~ 315)
양 센터 지지하중	Max. load between centers	kg(bs)	5000(11,000)	6000(13,200)
주축 구멍지름	Spindle bore	mm(inch)	84(3.3)	105(4.1)
주축 회전속도	Spindle speed	rpm	12 ~ 1120	5 ~ 900/3 ~ 600
주축 모터	Spindle motor	KW(Hp)	4P × 15(20)	4P × 22(30)/6P × 22(30)



KM/KMIII



KHIII/KHIII-S

항목	Items	Unit	KM/KMIII	KHIII/KHIII-S
베드상의 스윙	Swing over bed	mm(inch)	1100 ~ 2000(43.3 ~ 78.7)	1400 ~ 3000(55 ~ 118)/2200 ~ 3000(86.6 ~ 118)
왕복대상의 스윙	Swing over cross slide	mm(inch)	800 ~ 1700(31.5 ~ 66.9)	1000 ~ 2800(39.4 ~ 102.3)/1600 ~ 2400(63 ~ 94.5)
양 센터간의 거리	Distance between centers	mm(inch)	2000 ~ 16,000(79 ~ 630)	3000 ~ 16,000(118 ~ 630)
양 센터 지지하중	Max. load between centers	kg(bs)	8000/12,000(17,600/26,500)	20,000/40,000(44,100/88,200)
주축 구멍지름	Spindle bore	mm(inch)	84/105(3.3/4.1)	105(4.1)
주축 회전속도	Spindle speed	rpm	8 ~ 500/6 ~ 375	1 ~ 200
주축 모터	Spindle motor	KW(Hp)	4P × 30(40)	4P × 45(60)/DC 75(100)

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