ISO 9001 COMPANY
IK-2743

SMEC

Machine Tools Line-Up

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SMEC

"A company a better future and dreams"

Samsung **M**achine Tools **E**ngineering **C**ompany

S M E C

We produce machine tools, semiconductor equipment, robots with the technology and management successfully for 30 years.

We are certified by ISO9001 and CE for our manufacturing technology.

We are exporting our manufacturing technology to Europe, America, South America, Asia, Africa and Oceania

As a reliable partner, we supply parts and equipment for many world-class major companies of automobile, aerospace, semiconductor, display and robot industry.

We promise we will have a new takeoff based on new factory moving to Gimhae and do our best as your reliable partner.

HISTORY IN BRIEF

1988	Started as Machine Tools Division of Samsung Heavy Industries, Ltd.
1989	Horizontal and vertical machining center technology partnership with OKK (Japan)
1991	Turning center and vertical machining center technology partnership with Mori Seiki
1995	Transferred to Samsung Aerospace Industries
1996	5-sided processing center technology partnership with Toshiba
1999	Spun out from Samsung Aerospace Industries and established SMEC Co., Ltd
2003	Developed 7th generation LCD robot
2005	Developed 8th generation LCD robot, domestic and international sales
2007	Developed laser equipment for circuit board
2008	Developed Y-axis complex turning center series
2011	Merged with NewGrid, Inc. (Managed both Machine and Telecom Business Divisions)
	Developed multi-axis Multi-Tasking Machine (iMT420ST)
2012	Developed 5-axis machine (FTV 630)
2013	Developed 3D hardening solution and 7-axis hollow robot
	Move to new factory in Gimhae
	$50million export award
2015	$70million export award
2016	Completed the factory in Daegu Technopolis
2017	Supplied robotic bed for Heavy Ion Therapy
	Started to run Changwon Factory
	Applied patent for two spindle machininig center
	SMEC VINA Corp established
2018	SMEC America Corp established

PL 1600G

GANG TYPE HORIZONTAL TURNING CENTER




PL 1600G Compact, efficient and user friendly machine design

- Powerful cutting made possible with dovetail slide.
- Ensure more reliable cutting compared to Roller LM Guide.
- Strong configuration to prevent vibration even during intermittent cutting.

Major Specifications

[ ] : Option

DESCRIPTION			PL 1600G	
			A type	B type
Chuck	Chuck size	inch	6"	8"
Capacity	Swing over bed	mm	540	540
	Max. turning diameter×length	mm	170×300	170×270
	Max. milling diameter	mm	-	-
Spindle	Spindle speed	rpm	6,000	4,500
	Spindle nose	ASA	A2-5	A2-6
	Draw tube ID	mm	52	52
	Spindle bore diameter	mm	61	61
	Motor (Cont./Max)	kW	11/15	11/15
Travels	Axis travel (X/Z)	mm	450/300	450/270
	Rapid traverse rate (X/Z)	m/min	30/36	30/36
Turret	Number of tool stations	ea	3[6]	3[6]
	Turning tool shank size	mm	20	20
	Boring bar diameter	mm	32	32
Tailstock	Quill diameter×stroke	mm	-	-
	Quill stroke	MT	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,475[3,486]×1,697×2,027	
	Size (with Rear Chip conveyor) LxWxH	mm	2,156×2,149(2,941)×2,027	
	weight	kg	3,000	3,200
Controller			FANUC, SIEMENS	

PL 1600 / 1600M

ROLLER LM & BOX GUIDE HORIZONTAL TURNING CENTER



PL 1600 High precision and maximum productivity

Excellent vibration absorbing 45 degree slant type one bed casting structure to ensure heavy loads and superior finishes

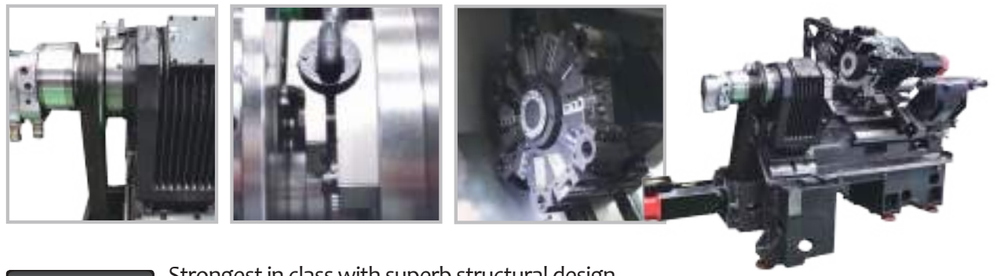
Major Specifications

[ ] : Option

DESCRIPTION			PL 1600		PL 1600M	
			A type	B type	A type	B type
Chuck	Chuck size	inch	6"	8"	6"	8"
Capacity	Swing over bed	mm	530	530	530	530
	Max. turning diameter×length	mm	290×307	290×271	250×291	250×262
	Max. milling diameter	mm	-	-	268	268
Spindle	Spindle speed	rpm	6,000	4,500	6,000	4,500
	Spindle nose	ASA	A2-5	A2-6	A2-5	A2-6
	Draw tube ID	mm	52	52	52	52
	Spindle bore diameter	mm	61	61	61	61
	Motor (Cont./Max)	kW	11/15	11/15	11/15	11/15
Travels	Axis travel (X/Z)	mm	165/350	165/350	165/350	165/350
	Rapid traverse rate (X/Z)	m/min	24/30	24/30	24/30	24/30
Turret	Number of tool stations	ea	12	10	12(BMT45)	12(BMT45)
	Turning tool shank size	mm	20	25	20	20
	Boring bar diameter	mm	32	32	32	32
Tailstock	Quill diameter×stroke	mm	[65×80]	[65×80]	[65×80]	[65×80]
	Quill stroke	MT	[MT4]	[MT4]	[MT4]	[MT4]
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,395(3,494)×1,760×2,071		2,680(3,661)×1,760×2,071	
	Size (with Rear Chip conveyor) LxWxH	mm	2,170×1,966(2,677)×2,071		2,385×1,966(2,677)×2,071	
	weight	kg	2,850	2,940	3,100	3,190
Controller			FANUC, SIEMENS			

SL 2000 Series

BOX GUIDE HORIZONTAL TURNING CENTER



SL 2000 Strongest in class with superb structural design
Simultaneous heavy duty and precision turning

- 45 degree torque tube type bed to support heavy duty turning
- Significantly reduced non-cutting time and efficient turning
- SERVO TURRET for performance improvement
- Low-center of gravity reducing vibration, thermal deformation and improving rigidity

Major Specifications

[ ] : Option

DESCRIPTION			SL 2000		SL 2000M	
			A type	B type	A type	B type
Chuck	Chuck size	inch	6"	8"	6"	8"
Capacity	Swing over bed	mm	570	570	570	570
	Max. turning diameter×length	mm	360×540	360×540	360×520	360×520
	Max. milling diameter	mm	-	-	372	372
Spindle	Spindle speed	rpm	6,000	4,500	6,000	4,500
	Spindle nose	ASA	A2-5	A2-6	A2-5	A2-6
	Draw tube ID	mm	52	68	52	68
	Spindle bore diameter	mm	61	76	61	76
	Motor (Cont./Max)	kW	15/18.5	15/18.5	15/18.5	15/18.5
Travels	Axis travel (X/Z)	mm	210/560	210/560	215/560	215/560
	Rapid traverse rate (X/Z)	m/min	24/30	24/30	24/30	24/30
Turret	Number of tool stations	ea	12	12	12[24](BMT55)	12[24](BMT55)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	40	40	40	40
Tailstock	Quill diameter×stroke	mm	75×80	75×80	75×80	75×80
	Quill stroke	MT	MT4	MT4	MT4	MT4
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,788(3,733)×1,530×1,920		2,788(3,733)×1,530×1,920	
	Size (with Rear Chip conveyor) LxWxH	mm	2,738×1,750(2,331)×1,920		2,738×1,750(2,331)×1,920	
	weight	kg	3,700	3,900	3,800	4,000
Controller			FANUC, SIEMENS			

SL 2500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 2500 Stabilized Structure that Optimizing Productivity

'Curvic' Coupling turret for easy maintenance after collision.
Rigid single tube type bed design (45 degree slant) ensures minimum bending and torsion even during heavy duty cutting and high speed turning operations.
Wide guide area suffiecient to absorbes working loads.

Major Specifications

[ ] : Option

DESCRIPTION			SL 2500(X/L)		SL 2500M(XM/LM)	
			A type	B type	A type	B type
Chuck	Chuck size	inch	8"	10"	8"	10"
Capacity	Swing over bed	mm	650	650	650	650
	Max. turning diameter×length	mm	430×570(850/1,070)	430×554(834/1,054)	405×504(784/1,004)	405×497(767/997)
	Max. milling diameter	mm	-	-	526(433/433)	526(433/433)
Spindle	Spindle speed	rpm	4,500	3,500	4,500	3,500
	Spindle nose	ASA	A2-6	A2-8	A2-6	A2-8
	Draw tube ID	mm	68	77	68	77
	Spindle bore diameter	mm	78	86	78	86
	Motor (Cont./Max)	kW	15/18.5	15/18.5	15/18.5	15/18.5
Travels	Axis travel (X/Z)	mm	245/600(880/1,100)	245/600(880/1,100)	245/540(820/1,040)	245/540(820/1,040)
	Rapid traverse rate (X/Z)	m/min	24/30	24/30	24/30	24/30
Turret	Number of tool stations	ea	12	12	12[24](BMT65)	12[24](BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
Tailstock	Quill diameter×stroke	mm	110×100	110×100	110×100	110×100
	Quill stroke	MT	MT5	MT5	MT5	MT5
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,125(4,230)/3,430(4,535)/3,630(4,685)×1,610×1,937		3,125(4,230)/3,430(4,535)/3,630(4,685)×1,610×1,937	
	Size (with Rear Chip conveyor) LxWxH	mm	3,125×1,990(2,530)×1,937 (SL 2500만 가능)		3,125×1,990(2,530)×1,937 (SL 2500만 가능)	
	weight	kg	5,100(5,700/6,300)	5,100(5,700/6,300)	5,100(5,700/6,300)	5,200(5,800/6,400)
Controller			FANUC, SIEMENS			

SL 3000 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 3000 Stabilized Structure that Optimizing Productivity

'Curvic' Coupling turret for easy maintenance after collision.
Rigid single tube type bed design (45 degree slant) ensures minimum bending and torsion even during heavy duty cutting and high speed turning operations.
Wide guide area suffiecient to absorb working loads.

Major Specifications

[ ] : Option

DESCRIPTION			SL 3000(X/L)		SL 3000M(XM/LM)	
			A type	B type	A type	B type
Chuck	Chuck size	inch	10"	12"	10"	12"
Capacity	Swing over bed	mm	650	650	650	650
	Max. turning diameter×length	mm	430×554(834/1,054)	430×528(808/1,028)	405×497(767/997)	405×456(736/956)
	Max. milling diameter	mm	-	-	433	433
Spindle	Spindle speed	rpm	3,500	3,000	3,500	3,000
	Spindle nose	ASA	A2-8	A2-8	A2-8	A2-8
	Draw tube ID	mm	77	91	77	91
	Spindle bore diameter	mm	86	105	86	105
	Motor (Cont./Max)	kW	18.5/26	18.5/26	18.5/26	18.5/26
Travels	Axis travel (X/Z)	mm	245/600(880/1,100)	245/600(880/1,100)	245/540(820/1,040)	245/540(820/1,040)
	Rapid traverse rate (X/Z)	m/min	24/30	24/30	24/30	24/30
Turret	Number of tool stations	ea	12	12	12[24] (BMT65)	12[24] (BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
Tailstock	Quill diameter×stroke	mm	110/100	110/100	110/100	110/100
	Quill stroke	MT	MT5	MT5	MT5	MT5
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,125(4,230)/3,430(4,535)/3,630(4,685)×1,610×1,937		3,125(4,230)/3,430(4,535)/3,630(4,685)×1,610×1,937	
	Size (with Rear Chip conveyor) LxWxH	mm	3,125×1,990(2,530)×1,937 (SL 3000만 가능)		3,125×1,990(2,530)×1,937 (SL 3000만 가능)	
	weight	kg	5,200(5,800/6,400)	5,200(5,800/6,400)	5,200(5,800/6,400)	5,300(5,900/6,500)
Controller			FANUC, SIEMENS			

SL 3500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 3500 The Special Design that Achieve High Rigidity

Radiator fan-like pin tube rib design dissipates heat generated by axis movements, maintaining minimal thermal expansion.
Low vibration & high rigidity are maintained by seperation the spindle motor & gear box from spindle.

Major Specifications

[ ] : Option

DESCRIPTION			SL 3500(L)		SL 3500M(LM)	
			A type	B type	A type	B type
Chuck	Chuck size	inch	12"	15"	12"	15"
Capacity	Swing over bed	mm	680	680	680	680
	Max. turning diameter×length	mm	500×780(1,530)	500×780(1,530)	500×750(1,500)	500×50(1,500)
	Max. milling diameter	mm	-	-	526	526
Spindle	Spindle speed	rpm	2,500	2,000	2,500	2,000
	Spindle nose	ASA	A2-11	A2-11	A2-11	A2-11
	Draw tube ID	mm	103	117.5	103	117.5
	Spindle bore diameter	mm	115	132	115	132
	Motor (Cont./Max)	kW	18.5/26	18.5/26	18.5/26	18.5/26
Travels	Axis travel (X/Z)	mm	280/855(1,605)	280/855(1,605)	280/825(1,575)	280/825(1,575)
	Rapid traverse rate (X/Z)	m/min	12/15	12/15	20/24	20/24
Turret	Number of tool stations	ea	10[12]	10[12]	12 (BMT65)	12(BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
Tailstock	Quill diameter×stroke	mm	130 x 120	130 x 120	130 x 120	130 x 120
	Quill stroke	MT	MT4(Built-in)	MT4(Built-in)	MT4(Built-in)	MT4(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,885(4,736)/5,079(5,926)×1,897/1,885×2,130		3,885(4,736)/5,079(5,926)×1,897/1,885×2,130	
	Size (with Rear Chip conveyor) LxWxH	mm	-		-	
	weight	kg	8,300(9,300)	8,300(9,300)	8,300(9,300)	8,300(9,300)
Controller			FANUC, SIEMENS			

SL 4500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 4500 Best productivity & Convenient operation Large turning Center

- External Mission : Vibration Cut-off, Cutting Roughness and Exellent Performance in Precision Cutting
- Radiator Fan type Head Assembly : Protects accuracy change caused by temperature rise

Major Specifications

[ ] : Option

DESCRIPTION			SL 4500(X/L)			SL 4500M(XM/LM)		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	18[15]"	21"	24"	18[15]"	21"	24"
Capacity	Swing over bed	mm	775	775	775	775	775	775
	Max. turning diameter×length	mm	690×1,250(2,255/3,055)			620×1,213(2,255/3,055)		
	Max. milling diameter	mm	-	-	-	712	712	712
Spindle	Spindle speed	rpm	1,800[2,000]	1,500	1,200	1,800[2,000]	1,500	1,200
	Spindle nose	ASA	A2-11	A2-15	A2-15	A2-11	A2-15	A2-15
	Draw tube ID	mm	117.5	140	166.5	117.5	140	166.5
	Spindle bore diameter	mm	132	181	181	132	181	181
	Motor (Cont./Max)	kW	30/45	30/45	30/45	30/45	30/45	30/45
Travels	Axis travel (X/Z)	mm	350/1,325(2,330/3,130)			350/1,325(2,330/3,130)		
	Rapid traverse rate (X/Z)	m/min	20/20(18/10)	20/20(18/10)	20/20(18/10)	20/20(18/10)	20/20(18/10)	20/20(18/10)
Turret	Number of tool stations	ea	12	12	12	12(BMT75)	12(BMT75)	12(BMT75)
	Turning tool shank size	mm	32	32	32	32	32	32
	Boring bar diameter	mm	60	60	60	60	60	60
Tailstock	Quill diameter×stroke	mm	160×150	160×150	160×150	160×150	160×150	160×150
	Quill stroke	MT	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	4,649(5,846)/5,570(6,530)/6,350(7,310)×2,230/2,153/2,290×2,320/2,359/2,329					
	Size (with Rear Chip conveyor) LxWxH	mm	-			-		
	weight	kg	10,000(13,000/20,000)			10,500(13,000/20,000)		
Controller			FANUC, SIEMENS					

SL 5500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 5500 Best productivity & Convenient operation Large turning Center

- External Mission : Vibration Cut-off, Cutting Roughness and Exellent Performance in Precision Cutting
- Radiator Fan type Head Assembly : Protects accuracy change caused by temperature rise

Major Specifications

[ ] : Option

DESCRIPTION			SL 5500			SL 5500M		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	21"	24"	32"	21"	24"	32"
Capacity	Swing over bed	mm	900	900	900	900	900	900
	Max. turning diameter×length	mm	690×1,097	690×1,097	690×1,097	690×1,079	690×1,079	690×1,079
	Max. milling diameter	mm	-	-	-	793	793	793
Spindle	Spindle speed	rpm	1,500	1,200	1,000	1,500	1,200	1,000
	Spindle nose	ASA	A2-15	A2-15	A2-20	A2-15	A2-15	A2-20
	Draw tube ID	mm	166.5	166.5	232	117.5	140	166.5
	Spindle bore diameter	mm	181	181	275	181	181	275
	Motor (Cont./Max)	kW	30/45[37/55]	30/45[37/55]	37/55	30/45[37/55]	30/45[37/55]	37/55
Travels	Axis travel (X/Z)	mm	370/1,130	370/1,130	370/1,130	370/1,130	370/1,130	370/1,130
	Rapid traverse rate (X/Z)	m/min	20/20	20/20	20/20	20/20	20/20	20/20
Turret	Number of tool stations	ea	12	12	12	12(BMT75)	12(BMT75)	12(BMT75)
	Turning tool shank size	mm	32	32	32	32	32	32
	Boring bar diameter	mm	80	80	80	60	60	60
Tailstock	Quill diameter×stroke	mm	160×150	160×150	160×150	160×150	160×150	160×150
	Quill stroke	MT	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	5,159(6,040)×2,173×2,344			5,159(6,040)×2,173×2,344		
	Size (with Rear Chip conveyor) LxWxH	mm	-			-		
	weight	kg	15,000	15,000	15,500	15,500	15,500	16,000
Controller			FANUC, SIEMENS					

SL 6500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 6500 High-performance Large Machining Capacity Turning Center

The strongest power and the highest accuracy in its class, by optimized design.

Major Specifications

[ ] : Option

DESCRIPTION			SL 6500(X/L/XL)		SL 6500M(XM/LM/XLM)	
			A type	B type	A type	B type
Chuck	Chuck size	inch	21"	24"	21"	24"
Capacity	Swing over bed	mm	1,030	1,030	1,030	1,030
	Max. turning diameter×length	mm	900×1,000(2,000/3,200/5,050)		900×1,000(2,000/3,200/5,050)	
	Max. milling diameter	mm	-	-	843	843
Spindle	Spindle speed	rpm	1,500	1,200	1,500	1,200
	Spindle nose	ASA	A2-15	A2-15	A2-15	A2-15
	Draw tube ID	mm	140	140	140	140
	Spindle bore diameter	mm	152	152	152	152
	Motor (Cont./Max)	kW	37/55	37/55	37/55	37/55
Travels	Axis travel (X/Z)	mm	470/1,050(2,050/3,270/5,100)		470/1,050(2,050/3,270/5,100)	
	Rapid traverse rate (X/Z)	m/min	12/18(15/10/10)	12/18(15/10/10)	12/18(15/10/10)	12/18(15/10/10)
Turret	Number of tool stations	ea	12	12	12(BMT85)	12(BMT85)
	Turning tool shank size	mm	32	32	32	32
	Boring bar diameter	mm	80	80	80	80
Tailstock	Quill diameter×stroke	mm	180×150	180×150	180×150	180×150
	Spindle taper	MT	MT6(Built-in)	MT6(Built-in)	MT6(Built-in)	MT6(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	5,158(6,170)/6,203(7,216)/7,400(8,413)/9,400(10,413)×2,564/2,760/2,760/2,860×2,595			
	Size (with Rear Chip conveyor) LxWxH	mm	-			
	weight	kg	16,500(19,000/22,000/26,000)			
Controller			FANUC, SIEMENS			

SL 8500 Series

BOX GUIDE HORIZONTAL TURNING CENTER

SL 8500 High-performance Large Machining Capacity Turning Center

The strongest power and the highest accuracy in its class, by optimized design.

Major Specifications

[ ] : Option

DESCRIPTION			SL 8500M(X/L/XL)	SL 8500M(XM/LM/XLM)
Chuck	Chuck size	inch	32"	32"
Capacity	Swing over bed	mm	1,030	1,030
	Swing over cross slide	mm	900×1,000(2,000/3,200/5,050)	900×1,000(2,000/3,200/5,050)
	Max. turning diameter×length	mm	-	843
Spindle	Bearing type	-	Cylinderical Taper Roller [Taper, Taper]	Cylinderical Taper Roller [Taper, Taper]
	Spindle speed	rpm	500 [320, 300]	500 [320, 300]
	Spindle nose	ASA	A1-20 [A1-20, A2-20]	A1-20 [A1-20, A2-20]
	Draw tube ID	mm	232	232
	Spindle bore diameter	mm	321 [321, 365]	321 [321, 365]
	Motor (Cont./Max)	kW	37/55	37/55
Travels	Axis travel (X/Z)	mm	470/1,050(2,050/3,270/5,100)	470/1,050(2,050/3,270/5,100)
	Rapid traverse rate (X/Z)	m/min	12/18(15/10/10)	12/18(15/10/10)
Turret	Number of tool stations	ea	12	12(BMT85)
	Turning tool shank size	mm	32	32
	Boring bar diameter	mm	80	80
Tailstock	Quill diameter×stroke	mm	180×150	180×150
	Spindle taper	MT	MT6(Built-in)	MT6(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	5,158(6,170)/6,203(7,216)/7,400(8,413)/9,400(10,413)×2,564/2,760/2,760/2,860×2,595	
	Size (with Rear Chip conveyor) LxWxH	mm	-	
	weight	kg	17,500(20,000/23,000/27,000)	
Controller			FANUC, SIEMENS	

SL 2500MS

INTEGRATED BOX GUIDE HORIZONTAL TURNING CENTER

SL 2500MS Integrated machining operations in one set-up through Sub-spindle and Y-Axis

- BMT Type machining feature providing ultimated integrated machining capability on the workpiece
- Synchronized C1-axis(Main spindle) and C2-axis(Subspindle) indexing provides machining flexibility in a wide variety of workpiece configurations.

Major Specifications

[ ] : Option

DESCRIPTION			SL 2500MS	
			A type	B type
Chuck	Chuck size (Main/Sub)	inch	8"/6"	10"/6"
Capacity	Swing over bed	mm	650	650
	Max. turning diameter×length	mm	354×460	354×445
	Max. milling diameter	mm	370	370
Spindle	Spindle speed (Main/Sub)	rpm	4,500/6,000	3,500/6,000
	Spindle nose (Main/Sub)	ASA	A2-6/A2-5	A2-8/A2-5
	Draw tube ID	mm	68	77
	Spindle bore diameter	mm	78	86
	Motor (Cont./Max)	kW	11/18.5	18.5/26
Travels	Axis travel (X/Z)	mm	210/515	210/515
	Rapid traverse rate (X/Z/B)	m/min	18/24/24	18/24/24
Turret	Number of tool stations	ea	12(BMT65)	12(BMT65)
	Turning tool shank size	mm	25	25
	Boring bar diameter	mm	50	50
Tailstock	Quill diameter×stroke	mm	-	-
	Spindle taper	MT	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,458(4,428)×1,695×1,988	
	Size (with Rear Chip conveyor) LxWxH	mm	-	
	weight	kg	5,500	5,500
Controller			FANUC	

SL 2000Y Series

INTEGRATED BOX GUIDE HORIZONTAL TURNING CENTER

SL 2000SY Integrated machining operations in one set-up through Sub-spindle and Y-Axis

- BMT Type machining feature providing ultimated integrated machining capability on the workpiece
- Synchronized C1-axis(Main spindle) and C2-axis(Subspindle) indexing provides machining flexibility in a wide variety of workpiece configurations.

Major Specifications

[ ] : Option

DESCRIPTION			SL 2000Y		SL 2000SY	
			A type	B type	A type	B type
Chuck	Chuck size (Main/Sub)	inch	6"/ -	8"/ -	6"/6"	8"/6"
Capacity	Swing over bed	mm	650	650	650	650
	Max. turning diameter×length	mm	395×490	395×450	395×490	395×450
	Max. milling diameter	mm	310	310	310	310
Spindle	Spindle speed (Main/Sub)	rpm	6,000/ -	4,500/ -	6,000/6,000	4,500/6,000
	Spindle nose (Main/Sub)	ASA	A2-5/ -	A2-6/ -	A2-5/A2-5	A2-6/A2-5
	Draw tube ID	mm	52	68	52	68
	Spindle bore diameter	mm	61	76	61	76
	Motor (Cont./Max)	kW	11/18.5	11/18.5	11/18.5	11/18.5
Travels	Axis travel (X/Y/Z/ZB)	mm	235/105(±52.5)/580/580		235/105(±52.5)/580/580	
	Rapid traverse rate (X/Y/Z/ZB)	m/min	24/10/30/24	24/10/30/24	24/10/30/24	24/10/30/24
Turret	Number of tool stations	ea	12[24](BMT55)	12[24](BMT55)	12[24](BMT55)	12[24](BMT55)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	40	40	40	40
Tailstock	Quill diameter×stroke	mm	- × 580	- × 580	-	-
	Spindle taper	MT	MT5(Servo motor)	MT5(Servo motor)	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,790(4,125)×1,752×2,085		2,790(4,125)×1,752×2,085	
	Size (with Rear Chip conveyor) LxWxH	mm	-		-	
	weight	kg	3,850	3,900	4,150	4,200
Controller			FANUC, SIEMENS			

SL 2500Y Series

INTEGRATED BOX GUIDE HORIZONTAL TURNING CENTER

SL 2500SY Integrated machining operations in one set-up through Sub-spindle and Y-Axis

- BMT Type machining feature providing ultimated integrated machining capability on the workpiece
- Synchronized C1-axis(Main spindle) and C2-axis(Subspindle) indexing provides machining flexibility in a wide variety of workpiece configurations.

Major Specifications

[ ] : Option

DESCRIPTION			SL 2500Y		SL 2500SY(LSY)	
			A type	B type	A type	B type
Chuck	Chuck size (Main/Sub)	inch	8"/ -	10"/ -	8"/6"	10"/6[8]"
Capacity	Swing over bed	mm	650	650	650	650
	Max. turning diameter×length	mm	360×490	360×476	360×490(1,284)	360×476(1,271)
	Max. milling diameter	mm	374	374	374	374
Spindle	Spindle speed (Main/Sub)	rpm	4,500/ -	3,500/ -	4,500/6,000	3,500/6,000[4,500]
	Spindle nose (Main/Sub)	ASA	A2-6/ -	A2-8/ -	A2-6/A2-5	A2-8/A2-5[A2-6]
	Draw tube ID	mm	68	77	68	77
	Spindle bore diameter	mm	78	86	78	86
	Motor (Cont./Max)	kW	11/18.5	18.5/26	11/18.5	18.5/26
Travels	Axis travel (X/Y/Z/B)	mm	235/100(±50)/580/580		235/100(±50)/ 580(1,375)/580(1,388)	235/100(±50)/ 580(1,375)/565(1,346)
	Rapid traverse rate (X/Y/Z/B)	m/min	18/12/24/24	18/12/24/24	18/12/24/24	18/12(10)/24/24
Turret	Number of tool stations	ea	12[24](BMT65)	12[24](BMT65)	12[24](BMT65)	12[24](BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
Tailstock	Quill diameter×stroke	mm	-	-	-	-
	Spindle taper	MT	MT5(Servo motor)	MT5(Servo motor)	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,643(4,667)×1,930×2,085		3,643(4,667)/4,123(5,559)×1,930/2,030×2,085/2,090	
	Size (with Rear Chip conveyor) LxWxH	mm	3,358×2,478(2,820)×2,085		3,358×2,478(2,820)×2,085 (SL 2500SY만 가능)	
	weight	kg	5,600	5,800	5,800(7,500)	6,000(7,600)
Controller			FANUC, SIEMENS			

SL 3500Y Series

Y-AXIS BOX GUIDE HORIZONTAL TURNING CENTER

SL 3500Y SL 3500Y/LY/XLY is a heavy-duty, ultra precision Turning Center, combined with SMEC's advanced technological features.

- Independent Transmission : Vibration Cut-off, high performance on cutting roughness and precision cutting.
- Head Assembly with Radiator Fans : Prevents accuracy change caused by temperature rise.

Major Specifications

[ ] : Option

DESCRIPTION			SL 3500Y		SL 3500LY	
			A type	B type	A type	B type
Chuck	Chuck size	inch	12"	15"	12"	15"
Capacity	Swing over bed	mm	850	850	850	850
	Max. turning diameter×length	mm	430×780	430×780	430×2,125	430×2,125
	Max. milling diameter	mm	539	539	539	539
Spindle	Spindle speed	rpm	2,500	2,000	2,500	2,000
	Spindle nose	ASA	A2-11	A2-11	A2-11	A2-11
	Draw tube ID	mm	103	117.5	103	117.5
	Spindle bore diameter	mm	115	132	115	132
	Motor (Cont./Max)	kW	18.5/26	18.5/26	18.5/26	18.5/26
Travels	Axis travel (X/Y/Z)	mm	280/130(±65)/830		280/130(±65)/2,200	
	Rapid traverse rate (X/Y/Z)	m/min	30/10/30	30/10/30	30/10/30	30/10/30
Turret	Number of tool stations	ea	12[24](BMT65)	12[24](BMT65)	12[24](BMT65)	12[24](BMT65)
	Turning tool shank size	mm	25	25	25	25
	Boring bar diameter	mm	50	50	50	50
Tailstock	Quill diameter×stroke	mm	110×100	110×100	110×100	110×100
	Spindle taper	MT	MT4(Built-in)	MT4(Built-in)	MT4(Built-in)	MT4(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,900(4,956)×2,000×2,300		5,450(6,507)×2,165×2,289	
	Size (with Rear Chip conveyor) LxWxH	mm	-		-	
	weight	kg	7,000	7,000	10,500	10,500
Controller			FANUC, SIEMENS			

SL 4500Y Series

Y-AXIS BOX GUIDE HORIZONTAL TURNING CENTER



SL 4500LY 15~24" Y-Axis Horizontal Turning Center Offering High Precision with Vibration Preventing Low Center of Gravity and Minimal Thermal Displacement Design

- Independent Transmission : Vibration Cut-off, high performance on cutting roughness and precision cutting.
- Head Assembly with Radiator Fans : Prevents accuracy change caused by temperature rise.

Major Specifications

[ ] : Option

DESCRIPTION			SL 4500XY			SL 4500LY(XLY)		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	18[15]"	21"	24"	18[15]"	21"	24"
Capacity	Swing over bed	mm	975	975	975	975	975	975
	Max. turning diameter×length	mm	620×2,140	620×2,117	620×2,117	620×2,930(5,000)		
	Max. milling diameter	mm	704	704	704	704	704	704
Spindle	Spindle speed	rpm	1,800[2,000]	1,500	1,200	1,800[2,000]	1,500	1,200
	Spindle nose	ASA	A2-11	A2-15	A2-15	A2-11	A2-15	A2-15
	Draw tube ID	mm	117.5	140	166.5	117.5	140	166.5
	Spindle bore diameter	mm	132	181	181	132	181	181
	Motor (Cont./Max)	kW	30/45	30/45	30/45	30/45	30/45	30/45
Travels	Axis travel (X/Y/Z)	mm	350/200(±100)/2,270			350/200(±100)/3,060(5,090)		
	Rapid traverse rate (X/Y/Z)	m/min	20/15/18	20/15/18	20/15/18	20/15/10	20/15/10	20/15/10
Turret	Number of tool stations	ea	12(BMT75)	12(BMT75)	12(BMT75)	12(BMT75)	12(BMT75)	12(BMT75)
	Turning tool shank size	mm	32	32	32	32	32	32
	Boring bar diameter	mm	60	60	60	60	60	60
Tailstock	Quill diameter×stroke	mm	160×150	160×150	160×150	160×150	160×150	160×150
	Spindle taper	MT	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)	MT5(Built-in)
Machine	Size (with Side Chip conveyor) LxWxH	mm	5,570(6,530)×2,303×2,659			6,350(7,327)/8,700(9,897)×2,303/2,443×2,659/2,683		
	Size (with Rear Chip conveyor) LxWxH	mm	-			-		
	weight	kg	17,000			22,000(25,000)		
Controller			FANUC, SIEMENS					

SLV 300(RH,LH) / 300M(RH,LH)

ROLLER LM GUIDE VERTICAL TURNING CENTER



SLV 300 Vertical lathe developed for automatic process line of automobile and electric parts and maintain high accuracy in long-term machining process

- Quiet & Heat Design
- Possible to make versatile automatic system line

Major Specifications

[ ] : Option

DESCRIPTION			SLV 300 RH/LH	SLV 300M RH/LH
Chuck	Chuck size	inch	10"	10"
Capacity	Swing over bed	mm	550	550
	Max. turning diameter×length	mm	400×220	400×220
	Max. milling diameter	mm	-	364
Spindle	Spindle speed	rpm	3,500	3,500
	Spindle nose	ASA	A2-8	A2-8
	Draw tube ID	mm	-	-
	Spindle bore diameter	mm	52	52
	Motor (Cont./Max)	kW	11/15	11/15
Travels	Axis travel (X/Z)	mm	230/280	230/280
	Rapid traverse rate (X/Z)	m/min	24/24	24/24
Turret	Number of tool stations	ea	12	12(BMT65)
	Turning tool shank size	mm	25	25
	Boring bar diameter	mm	40	40
Tailstock	Quill diameter×stroke	mm	-	-
	Spindle taper	MT	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,500(2,760)×2,000×2,460	1,500(2,760)×2,000×2,460
	Size (with Rear Chip conveyor) LxWxH	mm	1,500×2,000(3,650)×2,460	1,500×2,000(3,650)×2,460
	weight	kg	5,000	5,100
Controller			FANUC	

SLV 500(RH,LH) / 500M(RH,LH)

BOX GUIDE VERTICAL TURNING CENTER



SLV 500 The SLV 500/M Series are heavy duty ultra Precision Vertical Turning Centers that are designed to handle heavy cutting as well as superior surface finishes.

- Quiet & Heat Design
- Possible to make versatile automatic system line

Major Specifications

[ ] : Option

DESCRIPTION			SLV 500 RH/LH			SLV 500M RH/LH		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	12"	15"	18"	12"	15"	18"
Capacity	Swing over bed	mm	700	700	700	700	700	700
	Max. turning diameter×length	mm	500×465	500×465	500×465	500×465	500×465	500×465
	Max. milling diameter	mm	-	-	-	474	474	474
Spindle	Spindle speed	rpm	3,000	3,000	2,000	3,000	3,000	2,000
	Spindle nose	ASA	A2-8	A2-8	A2-8	A2-8	A2-8	A2-8
	Draw tube ID	mm	-	-	-	-	-	-
	Spindle bore diameter	mm	60	60	60	60	60	60
	Motor (Cont./Max)	kW	18.5/26	18.5/26	18.5/26	18.5/26	18.5/26	18.5/26
Travels	Axis travel (X/Z)	mm	317/495	317/495	317/495	317/495	317/495	317/495
	Rapid traverse rate (X/Z)	m/min	20/20	20/20	20/20	20/20	20/20	20/20
Turret	Number of tool stations	ea	12	12	12	12(BMT65)	12(BMT65)	12(BMT65)
	Turning tool shank size	mm	25	25	25	25	25	25
	Boring bar diameter	mm	50	50	50	50	50	50
Tailstock	Quill diameter×stroke	mm	[110×450]	[110×450]	[110×450]	[110×450]	[110×450]	[110×450]
	Quill stroke	MT	[MT5]	[MT5]	[MT5]	[MT5]	[MT5]	[MT5]
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,670(2,750)×2,540×3,341			1,670(2,750)×2,540×3,341		
	Size (with Rear Chip conveyor) LxWxH	mm	1,670×2,540(4,080)×3,341			1,670×2,540(4,080)×3,341		
	weight	kg	7,100			7,200		
Controller			FANUC					

SLV 800(RH,LH) / 800M(RH,LH)

BOX GUIDE VERTICAL TURNING CENTER



SLV 800 SLV 800V is a heavy duty, ultra precision turning center, box way design, servo driven turret adopted.

- 2 Step Gear box (Opt.)
- High rigidity Box type column

Major Specifications

[ ] : Option

DESCRIPTION			SLV 800 RH/LH			SLV 800M RH/LH		
			A type	B type	C type	A type	B type	C type
Chuck	Chuck size	inch	18[15]"	21"	24"	18[15]"	21"	24"
Capacity	Swing over bed	mm	890	890	890	890	890	890
	Max. turning diameter×length	mm	830×800	830×800	830×800	830×775	830×775	830×775
	Max. milling diameter	mm	-	-	-	624	624	624
Spindle	Spindle speed	rpm	2,000	1,800	1,500	2,000	1,800	1,500
	Spindle nose	ASA	A2-11	A2-11	A2-11	A2-11	A2-11	A2-11
	Draw tube ID	mm	-	-	-	-	-	-
	Spindle bore diameter	mm	104	104	104	104	104	104
	Motor (Cont./Max) [Gear Box]	kW	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]	22/30[30/37]
Travels	Axis travel (X/Z)	mm	440/800	440/800	440/800	440/800	440/800	440/800
	Rapid traverse rate (X/Z)	m/min	20/20	20/20	20/20	20/20	20/20	20/20
Turret	Number of tool stations	ea	12	12	12	12(BMT75)	12(BMT75)	12(BMT75)
	Turning tool shank size	mm	32	32	32	32	32	32
	Boring bar diameter	mm	63	63	63	63	63	63
Tailstock	Quill diameter×stroke	mm	-	-	-	-	-	-
	Quill stroke	MT	-	-	-	-	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,052(3,311)×2,782×3,491			2,052(3,311)×2,782×3,491		
	Size (with Rear Chip conveyor) LxWxH	mm	2,052×2,782(4,282)×3,491			2,052×2,782(4,282)×3,491		
	weight	kg	11,000			11,200		
Controller			FANUC					

SLV 1000 / 1000M

BOX GUIDE VERTICAL TURNING CENTER



SLV 1000 The SLV1000_M Series are heavy duty ultra Precision Vertical Turning Centers that are designed to handle heavy cutting as well as superior surface finishes.
with 2 step geared(std)

The SLV 1000/1000M Series are heavy duty ultra Precision Vertical Turning Centers that are designed to handle heavy cutting as well as superior surface finishes.

Major Specifications

[ ] : Option

DESCRIPTION			SLV 1000		SLV 1000M	
			A type	B type	A type	B type
Chuck	Chuck size	inch	24"	32"	24"	32"
Capacity	Swing over bed	mm	1,100	1,100	1,100	1,100
	Max. turning diameter×length	mm	1,000×955	1,000×955	1,000×955	1,000×955
	Max. milling diameter	mm	-	-	827	827
Spindle	Spindle speed	rpm	1,800	800	1,800	800
	Spindle nose	ASA	A2-15	A2-15	A2-15	A2-15
	Draw tube ID	mm	-	-	-	-
	Spindle bore diameter	mm	100	100	100	100
	Motor (Cont./Max)	kW	37/55	37/55	37/55	37/55
Travels	Axis travel (X/Z)	mm	540/955	540/955	540/955	540/955
	Rapid traverse rate (X/Z)	m/min	20/20	20/20	20/20	20/20
Turret	Number of tool stations	ea	12	12	12(BMT85)	12(BMT85)
	Turning tool shank size	mm	32	32	32	32
	Boring bar diameter	mm	80	80	80	80
Tailstock	Quill diameter×stroke	mm	-	-	-	-
	Quill stroke	MT	-	-	-	-
Machine	Size (with Side Chip conveyor) L×W×H	mm	2,510(3,741)×3,030×3,934		2,510(3,741)×3,030×3,934	
	Size (with Rear Chip conveyor) L×W×H	mm	2,510×3,030(4,519)×3,934		2,510×3,030(4,519)×3,934	
	weight	kg	17,000	17,000	17,200	17,200
Controller			FANUC			

PL 800GB

GANG TYPE HORIZONTAL TURNING CENTER



PL 800GB High speed, high precision ceramic and quart grinding

- Grinding Spindle installed on Gang Type lathe for grinding
- With ID and OD cutting capabilities and Slide Unit installed, simultaneous rough grinding and polishing as well as ceramic grinding is possible

Major Specifications

[ ] : Option

DESCRIPTION			PL 800GB
Chuck	Chuck size	inch	-
Capacity	Swing over bed	mm	800
	Max. turning diameter×length	mm	650×150
	Max. milling diameter	mm	364
Spindle	Spindle speed	rpm	2,200
	Spindle nose	ASA	A2-6
	Draw tube ID	mm	52
	Spindle bore diameter	mm	61
	Motor (Cont./Max)	kW	11/15
Travels	Axis travel (X/Z)	mm	400/400
	Rapid traverse rate (X/Z)	m/min	24/30
Grinding Spindle	Max. speed	mm	6,000
	Motor (Cont./Max)	kW	3.7/5.5
	Tool shank	-	BBT40
ATC (opt.)	Tool storage capacity	ea	[2]
	Tooling changing method	-	[Double arm swing]
Machine	Size (with Side Chip conveyor) L×W×H	mm	2,889×1,806×1,886
	Size (with Rear Chip conveyor) L×W×H	mm	-
	weight	kg	3,600
Controller			FANUC

PL 25DC(DIFF.CASE)

DIFF CASE TURNING CENTER



PL 25DC Creating epoch-making DIFF case spherical / face milling machining using CNC Lathe DIFF.CASE machining tools

- Operator accessible automatic hydraulic fixture and tool mounting and removing unit
- Work automatic clamp / unclamp
- 45° Slant bed structure, Access, Operation and rapid chips removing is easy.

Major Specifications

[ ] : Option

DESCRIPTION			PL 25DC
Chuck	Chuck size	inch	-
Capacity	Swing over the bed	mm	520
	Swing over cross slide	mm	350
Spindle	Spindle speed	rpm	2,500
	Spindle node	ASA	A2-8
	Max. Torque	N.m	534.1
	Spindle Bore Diameter	mm	86
Travels	Rapid traverse (Z axis)	mm	290
	Max. moving distance (Z axis)	m/min	24
Motor	Motor (Cont./Max)	kW	15/18.5
	Feed Motor (Z axis)	kW	3.0
Tailstock	Tailstock Travel	mm	-
	Tailstock Spindle Diameter	mm	110
	Tailstock Spindle Travel	mm	160[200]
	Taper of Tailstock Spindle	MT	MT4(Built-in)
	Tailstock Clamping(at 45kgf/cm²)	kgf	11,000
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,023×2,068×1,937
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	5,000
Controller			FANUC

PL 500AW / 600AW / 800VAW

AL. WHEEL TURNING CENTER



PL 500AW High speed, high precision Al Wheel turning center

- Drastically reduce non-cutting time for high efficiency machining
- Low center of gravity design to minimize vibration, thermal distortion and provide high precision

Major Specifications

[ ] : Option

DESCRIPTION			PL 500AW	PL 600AW	PL 800VAW
Chuck	Chuck size	inch	20"	24"	26.5" (Finger chuck)
Capacity	Swing over bed	mm	830	830	900
	Max. turning diameter×length	mm	670×670	670×670	673×350
	Max. milling diameter	mm	-	-	-
Spindle	Spindle speed	rpm	3,000	2,000	2,000
	Spindle nose	ASA	A2-8	A2-11	A2-11
	Draw tube ID	mm	91	91	-
	Spindle bore diameter	mm	90	132	150
	Motor (Cont./Max)	kW	30/37	30/37	45/65
Travels	Axis travel (X/Z)	mm	360 (25±335)/680	360 (25±335)/680	570/550
	Rapid traverse rate (X/Z)	m/min	20/24	20/24	20/20
Turret	Number of tool stations	ea	12	12	6×2
	Turning tool shank size	mm	32	32	32
	Boring bar diameter	mm	60	60	50
Tailstock	Quill diameter×stroke	mm	-	-	-
	Spindle taper	MT	-	-	-
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,845(5,056)×2,090×2,195	3,845(5,056)×2,090×2,195	-
	Size (with Rear Chip conveyor) LxWxH	mm	-	-	3,890×2,605(4,345)×3,958
	weight	kg	7,700	7,800	18,000
Controller			FANUC		

SL 2000T2Y2

MULTI AXIS TURNING CENTER




SL 2000T2Y2 Twin Spindle and Turrets for High Productivity

Upper and lower turrets are high-speed, highly-reliable servo driven turrets with up to 32 tool stations, enabling high-speed, high-precision machining of complicated parts with single setup.

Major Specifications

[ ] : Option

DESCRIPTION			SL 2000T2Y2
Chuck	Chuck size	inch	8"
Capacity	Swing over bed	mm	230
	Max. turning diameter (Upper/Low)×length (1st SPD/2nd SPD)	mm	230/230×662/662
	Max. milling diameter	mm	230
Spindle	Spindle speed	rpm	5,000
	Spindle nose	ASA	A2-6
	Draw tube ID	mm	68
	Spindle bore diameter	mm	76
	Motor (Cont./Max)	kW	18.5/22
Travels	X1/X2/Xe-axis travel	mm	217.5/167.5/120
	Y1/Y2-axis travel	mm	105(±52.5)/105(±52.5)
	Z1/Z2/W(Z3)-axis travel	mm	710/710/720
	X1/X2/Xe-axis Rapid traverse rate	m/min	24/24/24
	Y1/Y2-axis Rapid traverse rate	m/min	10/10
	Z1/Z2/W(Z3)-axis Rapid traverse rate	m/min	40/40/40
Turret	Number of tool stations	ea	12[24](BMT65)
	Turning tool shank size	mm	25
	Boring bar diameter	mm	40
Machine	Size (with Side Chip conveyor) LxWxH	mm	4,250(5,100)×2,180×2,270
	weight	kg	8,800
Controller			FANUC

LCV 380S / 380D

TAPPING CENTER



LCV 380D Superior Structure Design for Reliable Machining Performance

- Column traverse type high rigidity travel axis for high accuracy
- High rigidity roller guide & high accuracy ball screw(C3 Class)

Major Specifications

[ ] : Option

DESCRIPTION			LCV 380S	LCV 380D
Travels	Travel X/Y/Z	mm	520×380×350	520×380×350
	Spindle to table surface	mm	220 ~ 570	220 ~ 550
Table	Table size	mm	600×420	2 - 600×520
	Max. Workpiece weight	kgf	Fixed table	2×200
	Table surface	mm	35 - M16×80×80	2×33 - M16×90×90
Spindle	Spindle speed	rpm	12,000[15,000]	12,000[15,000]
	Motor (Cont./Max)	kW	3.7/5.5[2.2/3.7]	3.7/5.5[2.2/3.7]
	Rapid Traverse(X/Y/Z)	m/min	48/48/48	48/48/48
ATC	Tool shank	-	BT30	BT30
	Pull stud	-	MAS P30T-1	MAS P30T-1
	Tool storage capacity	ea	20	20
	Max. Tool diameter (adjacent empty)	mm	60(120)	60(120)
	Max. Tool length / weight	mm	200/3	200/3
	Tool-to-tool time	sec	0.85	0.85
	Tooling changing method	mm	Double arm swing	Double arm swing
	Tool select type	mm	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,870(2,887)×3,453×2,443	1,898(2,885)×3,724×2,443
	Size (with Rear Chip conveyor) LxWxH	mm	1,870×3,453(4,308)×2,443	1,898×3,724(4,528)×2,443
	weight	kg	4,000	4,500
Controller			FANUC	

SM 400

TAPPING CENTER

SM 400 A new leader in vertical tapping machine
It would be the best choice for mass producing automobile parts

We have adapted the rigid tapping as a standard feature for all products, which should be able to maximize customers' productivity with "inch perfect" accurate/prompt tap processing. In addition, the precision of our rigid tap process has been proved in accordance with all relevant ISO certificates and also even tapping tool life can be extended. Furthermore the processing time has been saved on the reverse rotation with triple speed up return.

Major Specifications

[ ] : Option

DESCRIPTION			SM 400		
			FANUC	MITSUBISHI	SIEMENS
Travels	Travel X/Y/Z	mm	530×400×350	530×400×350	530×400×350
	Spindle to table surface	mm	150 ~ 500	150 ~ 500	150 ~ 500
Table	Table size	mm	600×400	600×400	600×400
	Max. Workpiece weight	kgf	200	200	200
	Table surface	mm	14H8×p125×3ea	14H8×p125×3ea	14H8×p125×3ea
Spindle	Spindle speed	rpm	12,000[20,000]	24,000	24,000
	Motor (Cont./Max)	kW	3.7/5.5[2.2/3.7]	2.2/3.7	3.5/11.8
	Rapid Traverse(X/Y/Z)	m/min	60/60/60	60/60/60	60/60/60
ATC	Tool shank	-	BT30	BT30	BT30
	Pull stud	-	MAS403-P30T-1/45°	MAS403-P30T-1/45°	MAS403-P30T-1/45°
	Tool storage capacity	ea	21	21	21
	Max. Tool diameter (adjacent empty)	mm	60(80)	60(80)	60(80)
	Max. Tool length / weight	mm	50	50	50
	Tool-to-tool time	sec	1.4	1.4	1.4
	Tooling changing method	mm	Umbrella	Umbrella	Umbrella
	Tool select type	mm	Fixed address	Fixed address	Fixed address
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,666(2,582)×2,943×2,370	1,666(2,582)×2,943×2,370	1,666(2,582)×2,943×2,370
	Size (with Rear Chip conveyor) LxWxH	mm	-	-	-
	weight	kg	3,800	3,800	3,800
Controller			F-0iM	M80	S828D

SM 400DH

TWO HEAD TAPPING CENTER

SM 400DH Great Productivity, Vertical Tapping Center

Ideal for mass production of automotive parts, IT parts and mold machining.
Newest champion in vertical tapping centers
Futuristic vertical machining center with advanced technology in a compact design

Major Specifications

[ ] : Option

DESCRIPTION			SM 400DH	
			FANUC	MITSUBISHI
Travels	Travel X/Y/Z	mm	530×400×415	530×400×415
	Spindle to table surface	mm	180 ~ 595	180 ~ 595
Table	Table size	mm	750×400	750×400
	Max. Workpiece weight	kgf	300	300
	Table surface	mm	14H8×p125×3ea	14H8×p125×3ea
Spindle	Spindle speed	rpm	12,000	24,000
	Motor (Cont./Max)	kW	5.5/7.5	2.2/3.7
	Rapid Traverse(X/Y/Z)	m/min	60/60/48	60/60/48
ATC	Tool shank	-	BT30	BT30
	Pull stud	-	MAS403-P30T-1/45°	MAS403-P30T-1/45°
	Tool storage capacity	ea	20 x 2	20 x 2
	Max. Tool diameter (adjacent empty)	mm	60(120)	60(120)
	Max. Tool length / weight	mm	190/3	190/3
	Tool-to-tool time	sec	1.1	1.1
	Tooling changing method	mm	Double Arm Swing	Double Arm Swing
	Tool select type	mm	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,850(2,691)×2,729×2,613	1,850(2,691)×2,729×2,613
	Size (with Rear Chip conveyor) LxWxH	mm	-	-
	weight	kg	4,100	4,100
Controller			F-0iM	M70AV

SM 400DDH

2-HEAD, 2-PALLET TAPPING CENTER



SM 400DDH Great Productivity, Vertical Tapping Center

Ideal for mass production of automotive parts, IT parts and mold machining.
Newest champion in vertical tapping centers
Futuristic vertical machining center with advanced technology in a compact design

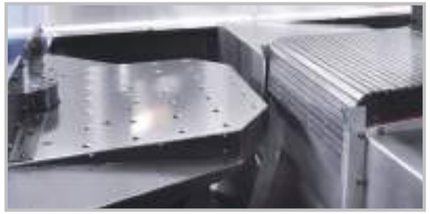
Major Specifications

[ ] : Option

DESCRIPTION			SM 400DDH
Travels	Travel X/Y/Z	mm	400×400×350
	Spindle to table surface	mm	300 ~ 650[200 ~ 550]
Table	Table size	mm	2 - 660×1,150
	Max. Workpiece weight	kgf	2 - 250
	Table surface	mm	2 - 12H8×P120×3EA
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	5.5/7.5
	Rapid Traverse(X/Y/Z)	m/min	36/36/48
ATC	Tool shank	-	BBT30
	Pull stud	-	MAS P30T-1
	Tool storage capacity	ea	20×2
	Max. Tool diameter (adjacent empty)	mm	60(80)
	Max. Tool length / weight	mm	67
	Tool-to-tool time	sec	1.4
	Tooling changing method	mm	Double arm swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,080(3,213)×3,868×2,581
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	6,200
Controller			FANUC

MCV 400D

2-PALLET ROLLER LM GUIDE VERTICAL MACHINING CENTER


MCV 400D High-speed tool changer being driven by enhanced technologies

-Powerful roller guide on all axis
-Column moving structure
-High speed and precision and productivity column moving type tapping center
-User friendly OP SUPPORT ARM

Major Specifications

[ ] : Option

DESCRIPTION			MCV 400D
Travels	Travel X/Y/Z	mm	550×400×350
	Spindle to table surface	mm	200 ~ 550
Table	Table size	mm	2 - 600×520
	Max. Workpiece weight	kgf	2 - 200
	Table surface	mm	2×33 - M16×90×90
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	7.5/11
	Rapid Traverse(X/Y/Z)	m/min	48/48/36
ATC	Tool shank	-	BT40
	Pull stud	-	MAS P40T-1
	Tool storage capacity	ea	16
	Max. Tool diameter (adjacent empty)	mm	80
	Max. Tool length / weight	mm	200/3
	Tool-to-tool time	sec	1.3
	Tooling changing method	mm	Double arm swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	1,983(3,048)×4,083×2,896
	Size (with Rear Chip conveyor) LxWxH	mm	1,983×4,083(4,866)×2,896
	weight	kg	4,800
Controller			FANUC

PCV 430 / MCV 4300

ROLLER LM GUIDE VERTICAL MACHINING CENTER




PCV 430 High speed, Ultra precision Vertical machining center!

- The Largest machining capacity in its class
- Applying low-centered box structure and Rigid one piece cast iron bed
- Applying the widest linear guide way span and the widest saddle in its class to prevent overhang
- Available with direct drive spindle and belt drive spindle for user's preference.

Major Specifications

[ ] : Option

DESCRIPTION			PCV 430	MCV 4300
Travels	Travel X/Y/Z	mm	700×430×510	770×430×510
	Spindle to table surface	mm	130 ~ 640	150 ~ 660
Table	Table size	mm	750×420	920×460
	Max. Workpiece weight	kgf	560	600
	Table surface	mm	18H8×p125×3ea	18H8×p125×3ea
Spindle	Spindle speed	rpm	10,000	12,000
	Motor (Cont./Max)	kW	11/20.4	11/22.2
	Rapid Traverse(X/Y/Z)	m/min	48/48/36	36/36/30
ATC	Tool shank	-	BT 40	BT 40
	Pull stud	-	MAS P40T-1	MAS P40T-1
	Tool storage capacity	ea	24	30
	Max. Tool diameter (adjacent empty)	mm	80(125)	80(125)
	Max. Tool length / weight	mm	300/8	300/8
	Tool-to-tool time	sec	1.3	1.3
	Tooling changing method	mm	Double Arm Swing	Double Arm Swing
	Tool select type	mm	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,100(2,987)×3,288×2,793	2,370(3,134)×3,388×2,645
	Size (with Rear Chip conveyor) LxWxH	mm	-	-
	weight	kg	4,500	5,500
Controller			FANUC	

MCV 5500

ROLLER LM GUIDE VERTICAL MACHINING CENTER




MCV 5500 High Speed, High Precision, LM Guide Type Vertical Machining Center with Compact and Cost Effective Design

Various spindle structure
- Belt type spindle : car, electric parts
- Direct and built in spindle : high precision semi-conductor, aerospace parts, mold machining

Major Specifications

[ ] : Option

DESCRIPTION			MCV 5500
Travels	Travel X/Y/Z	mm	1,050×550×520
	Spindle to table surface	mm	130 ~ 650
Table	Table size	mm	1,200×540
	Max. Workpiece weight	kgf	800
	Table surface	mm	18H8×p125×4ea
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	11/22.2
	Rapid Traverse(X/Y/Z)	m/min	36/36/30
ATC	Tool shank	-	BBT40
	Pull stud	-	MAS P40T-1
	Tool storage capacity	ea	30
	Max. Tool diameter (adjacent empty)	mm	80(125)
	Max. Tool length / weight	mm	300/8
	Tool-to-tool time	sec	1.3
	Tooling changing method	mm	Double Arm Swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,977(3,635)×,592×2,778
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	6,700
Controller			FANUC

MCV 5200L

ROLLER LM GUIDE VERTICAL MACHINING CENTER



MCV 5200L High Speed and High Producivity Compact LM Guide Machining Centers (X-axis expanded)

- Low centered triangle Rib structure
- X-axis stroke(1,550mm) and maximum table size in its class
- High rigidity Saddle and Arch type Column to High precision
- Protect to Overhang by Y-axis 4 raws Linear Guide Way
- High speed and rigidity direct spindle

Major Specifications

[ ] : Option

DESCRIPTION			MCV 5200L
Travels	Travel X/Y/Z	mm	1,550×550×520
	Spindle to table surface	mm	150 ~ 670
Table	Table size	mm	1,600×510
	Max. Workpiece weight	kgf	800
	Table surface	mm	18H8×p125×4ea
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	11/15
	Rapid Traverse(X/Y/Z)	m/min	30/30/30
ATC	Tool shank	-	BBT40
	Pull stud	-	MAS P40T-1
	Tool storage capacity	ea	30
	Max. Tool diameter (adjacent empty)	mm	80(169)
	Max. Tool length / weight	mm	300/8
	Tool-to-tool time	sec	1.3
	Tooling changing method	mm	Double Arm Swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	4,030(4,779)×2,967×2,873
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	8,000
Controller			FANUC

MCV 6700 / 6700L

ROLLER LM GUIDE VERTICAL MACHINING CENTER



MCV 6700L LM Guide Type VMC with Longest-in-Class X-Axis Stroke Offering the Largest Cutting Table Surface and Widest Internal Work Area

- Low center of gravity, triangular Rib structure with highly rigid integrated bed
- Largest in class x-stroke (2,100mm) and table cutting structure
- High rigidity saddle, integrated column structure providing high strength, high precision
- 4 rows of Linear Guide Way for Y-axis to prevent overhang

Major Specifications

[ ] : Option

DESCRIPTION			MCV 6700	MCV 6700L
Travels	Travel X/Y/Z	mm	1,600×670×520	2,100×670×520
	Spindle to table surface	mm	150 ~ 670	150 ~ 670
Table	Table size	mm	1,700×660	2,200×660
	Max. Workpiece weight	kgf	1,300	1,200
	Table surface	mm	18H8×p125×5ea	18H8 T-slot×p125×5ea
Spindle	Spindle speed	rpm	12,000	12,000
	Motor (Cont./Max)	kW	11/22.2	11/22.2
	Rapid Traverse(X/Y/Z)	m/min	30/36/30	30/30/30
ATC	Tool shank	-	BT 40	BT 40
	Pull stud	-	MAS P40T-1	MAS P40T-1
	Tool storage capacity	ea	30	30
	Max. Tool diameter (adjacent empty)	mm	80(125)	80(125)
	Max. Tool length / weight	mm	300/8	300/8
	Tool-to-tool time	sec	1.3	1.3
	Tooling changing method	mm	Double Arm Swing	Double Arm Swing
	Tool select type	mm	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	4,105(4,955)×3,188×2,723	4,882(6,060)×3,275×2,985
	Size (with Rear Chip conveyor) LxWxH	mm	-	-
	weight	kg	8,500	9,500
Controller			FANUC	

MCV 8500L

ROLLER LM GUIDE VERTICAL MACHINING CENTER



MCV 8500L LM Guide Type VMC with Longest-in-Class X-Axis Stroke Offering Superb Ease of Use and Maintenance with High Speed, High Precision Machining

- Low center of gravity, triangular Rib structure with highly rigid integrated bed
- Largest in class x-stroke (2,100mm) and table cutting structure
- High rigidity saddle, integrated column structure providing high strength, high precision
- 4 rows of Linear Guide Way for Y-axis to prevent overhang

Major Specifications

[ ] : Option

DESCRIPTION			MCV 8500L
Travels	Travel X/Y/Z	mm	2,540×850×650
	Spindle to table surface	mm	150 ~ 800
Table	Table size	mm	2,600×850
	Max. Workpiece weight	kgf	2,000
	Table surface	mm	18H8 T-slot×p125×6ea
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	11/22.2
	Rapid Traverse(X/Y/Z)	m/min	30/30/24
ATC	Tool shank	-	BBT40
	Pull stud	-	MAS P40T-1
	Tool storage capacity	ea	30
	Max. Tool diameter (adjacent empty)	mm	80(125)
	Max. Tool length / weight	mm	300/8
	Tool-to-tool time	sec	1.3
	Tooling changing method	mm	Double Arm Swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	6,480(7,272)×3,791×2,965
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	16,000
Controller			FANUC

LCV 550 / 6700

BOX GUIDE VERTICAL MACHINING CENTER



LCV 6700 Box way type machining center for high degree of accuracy workpiece

- High accuracy and durability, market approved machining center
- High productivity for small mold of electric product

Major Specifications

[ ] : Option

DESCRIPTION			LCV 550		LCV 6700	
			Direct 8R(BT50)/12R(BT40)	Gear 6R(BT50)	Direct 8R(BT50)/12R(BT40)	Gear 6R(BT50)
Travels	Travel X/Y/Z	mm	1,150×550×520	1,150×550×520	1,350×670×650	1,350×670×650
	Spindle to table surface	mm	150 ~ 670[350 ~ 870]	150 ~ 670[350 ~ 870]	200 ~ 850	200 ~ 850
Table	Table size	mm	1,200×550	1,200×550	1,550v670	1,550×670
	Max. Workpiece weight	kgf	800	800	1,000	1,000
	Table surface	mm	18H8×p110×5ea	18H8×p110×5ea	18H8×p125×5ea	18H8×p125×5ea
Spindle	Spindle speed	rpm	8,000 / 12,000	6,000	8,000 / 12,000	6,000
	Motor (Cont./Max)	kW	11/15 / 11/15	15/25	11/18.5 / 11/22.2	15/18.5
	Rapid Traverse(X/Y/Z)	m/min	24/24/20	24/24/20	30/30/24	30/30/24
ATC	Tool shank	-	BT50 / BBT40	BT50	BT50 / BBT40	BT50
	Pull stud	-	MAS P50T-1 / MAS P40T-1	MAS P50T-1	MAS P50T-1 / MAS P40T-1	MAS P50T-1
	Tool storage capacity	ea	24[30] / 30	24[30]	30	30
	Max. Tool diameter (adjacent empty)	mm	125(200) / 80(125)	100(195)	100(195) / 80(125)	100(195)
	Max. Tool length / weight	mm	300/15 / 300/8	300/15	300/15 / 300/8	300/15
	Tool-to-tool time	sec	2.45 / 1.3	2.45	2.45 / 1.3	2.45
	Tooling changing method	mm	Double Arm Swing	Double Arm Swing	Double Arm Swing	Double Arm Swing
	Tool select type	mm	Memory random	Memory random	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	3,218(4,185)×2,869×2,944		3,400(4,553)×2,430×3,160	
	Size (with Rear Chip conveyor) LxWxH	mm	3,218×2,869(3,522)×2,944		-	
	weight	kg	7,000		11,000	
Controller			FANUC			

LCV 850 / 1060

BOX GUIDE VERTICAL MACHINING CENTER




LCV 1060 Optimized machining tools for die or cast mold of electrics, automobile, aircraft parts machining.

- Stabilized 6guide way BED structure for high rigidity

Major Specifications

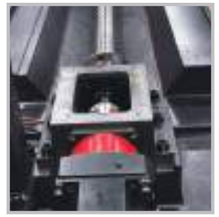
[ ] : Option

DESCRIPTION			LCV 850	LCV 1060
Travels	Travel X/Y/Z	mm	2,000×850×800	2,500×1,060×900
	Spindle to table surface	mm	200 ~ 1,000[300 ~ 1,100]	200 ~ 1,100[400 ~ 1,300]
Table	Table size	mm	2,050×850	2,800×1,060
	Max. Workpiece weight	kgf	3,000	5,000
	Table surface	mm	22H8×p125×6ea	22H8×p150×7ea
Spindle	Spindle speed	rpm	6,000	7,000
	Motor (Cont./Max)	kW	15/18.5	15/18.5
	Rapid Traverse(X/Y/Z)	m/min	20/20/16	16/16/16
ATC	Tool shank	-	BT50	BT50
	Pull stud	-	MAS P50T-90º	MAS P50T-90º
	Tool storage capacity	ea	30[40]	30[40]
	Max. Tool diameter (adjacent empty)	mm	110(195)	110(195)
	Max. Tool length / weight	mm	300/15	300/15
	Tool-to-tool time	sec	2.5	2.5
	Tooling changing method	mm	Double Arm Swing	Double Arm Swing
	Tool select type	mm	Memory random	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	-	-
	Size (with Rear Chip conveyor) LxWxH	mm	5,500×4,339(4,939)×3,752	6,700×4,841(5,338)×3,660
	weight	kg	18,000	25,000
Controller			FANUC	

MCV 420UL

ROLLER LM GUIDE VERTICAL MACHINING CENTER






MCV 420UL Unique structural design for high efficency & high productivity in machining fields

- Flt to machining to long-shaft workpiece or small quantity batch production
- All-axis high accuracy C3 type ball screw, roller guide for high speed, high rigidity and high accuracy
- Column loaded ATC structure for epoch-making time-loss reducing

Major Specifications

[ ] : Option

DESCRIPTION			MCV 420UL
Travels	Travel X/Y/Z	mm	6,200×420×450
	Spindle to table surface	mm	200~650
Table	Table size	mm	6,600×460
	Max. Workpiece weight	kgf	Fixed table
	Table surface	mm	18H8 T-slot×p125×3ea
Spindle	Spindle speed	rpm	10,000
	Motor (Cont./Max)	kW	7.5/11
	Rapid Traverse(X/Y/Z)	m/min	24/30/30
ATC	Tool shank	-	BT40
	Pull stud	-	MAS 403 P40T-1
	Tool storage capacity	ea	24
	Max. Tool diameter (adjacent empty)	mm	90/150
	Max. Tool length / weight	mm	300/8
	Tool-to-tool time	sec	1.5
	Tooling changing method	mm	Double arm swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	-
	Size (with Rear Chip conveyor) LxWxH	mm	9,055×4,092(4,623)×2,881
	weight	kg	21,500
Controller			FANUC

MCV 510XL

ROLLER LM GUIDE VERTICAL MACHINING CENTER




MCV 510XL Unique structural design for high efficency & high productivity in machining fields

- Flt to machining to long-shaft workpiece or small quantity batch production
- All-axis high accuracy C3 type ball screw, roller guide for high speed, high rigidity and high accuracy
- Column loaded ATC structure for epoch-making time-loss reducing

Major Specifications

[ ] : Option

DESCRIPTION			MCV 510XL
Travels	Travel X/Y/Z	mm	4,000×510×550
	Spindle to table surface	mm	150~700[350~900]
Table	Table size	mm	4,600×550
	Max. Workpiece weight	kgf	10,000
	Table surface	mm	180 - M16×110×125
Spindle	Spindle speed	rpm	12,000
	Motor (Cont./Max)	kW	11/18.5
	Rapid Traverse(X/Y/Z)	m/min	24/30/30
ATC	Tool shank	-	BT40
	Pull stud	-	MAS P40T-1
	Tool storage capacity	ea	30
	Max. Tool diameter (adjacent empty)	mm	90/140
	Max. Tool length / weight	mm	300/8
	Tool-to-tool time	sec	1.5
	Tooling changing method	mm	Double arm swing
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	8,070(8,447)×3,130×3,016
	Size (with Rear Chip conveyor) LxWxH	mm	8,070×3,130(3,698)×3,016
	weight	kg	21,000
Controller			FANUC

PCV 200(5AX)

5 AXIS MACHINING CENTER




PCV 200(5AX) A.C Axis swing table type 5 axis machining center for high accuracy productivity

- Aero parts, impeller, large tool!
- High rigidity, high reliability roller guide
- Process-intergrated 5axis machining center with easy access to workpiece

Major Specifications

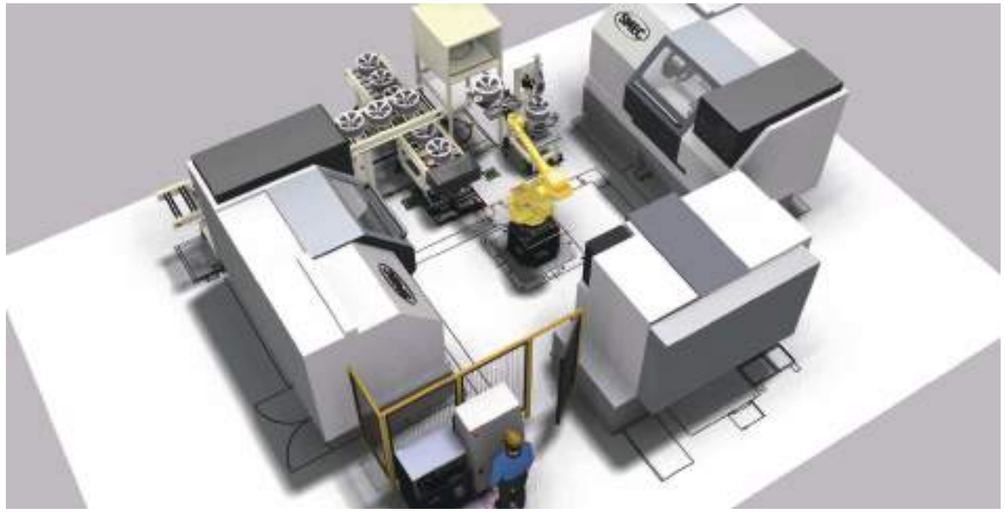
[ ] : Option

DESCRIPTION			PCV 200/5AX
Travels	Travel X/Y/Z	mm	500x325(+200,-125)x510
	A-axis (Table Tilting)	deg	220(±110)
	C-axis (Tabld Indexing)	deg	360
Table	Table diameter	mm	200
	Max. Workpiece weight	kgf	40(Horizontal) / 50(Vertical)
	Table surface	mm	12h8
Spindle	Spindle speed	rpm	24,000
	Motor (Cont./15min)	kW	22/33
	Rapid Traverse(X/Y/Z/A/C)	m/min	48/48/36/272/663
ATC	Tool shank	-	HSK-A63
	Tool storage capacity	ea	24
	Max. Tool diameter (adjacent empty)	mm	80
	Max. Tool length / weight	mm/kgf	200/5
	Tool-to-tool time	sec	1.3(60Hz), 1.6(50Hz)
	Tool select type	mm	Memory random
Machine	Size (with Side Chip conveyor) LxWxH	mm	2,100(3,118)×2,458(3,321)×2,769
	Size (with Rear Chip conveyor) LxWxH	mm	-
	weight	kg	5,000
Controller			FANUC

Automation System

AL WHEEL ROBOT / SCARA Automation System

■ AL. Wheel Automation System

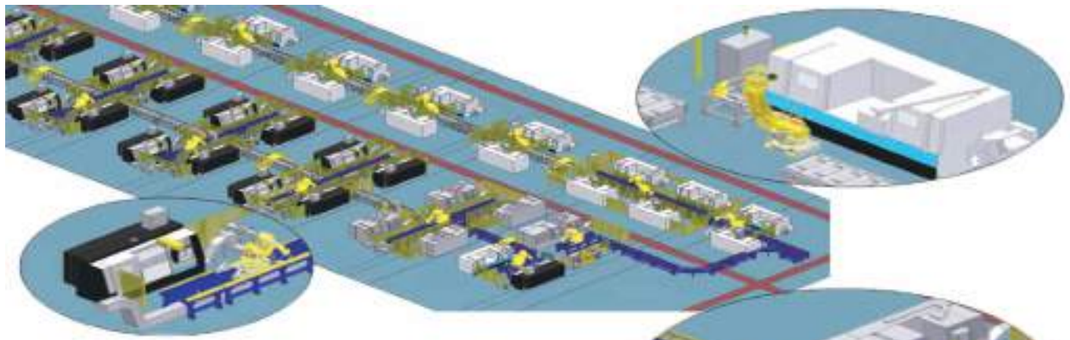


■ SCARA Automation System

Automation System

ROBOT / GANTRY Automation System

■ Robot Automation System



■ Gantry Automation System