



# DOUBLE COLUMN machining center



- LX1610
- LX2210
- LX2216
- LX3216
- LX4216
- LX3220
- LX4220
- LX3225
- LX4225
- LX5225



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LEADERWAY CNC TECHNOLOGIES CO., LTD.

ISO 9001

In Search Of Excellence To Win Respect

## LX series

**European Design,  
the Source Of Machine Tools**

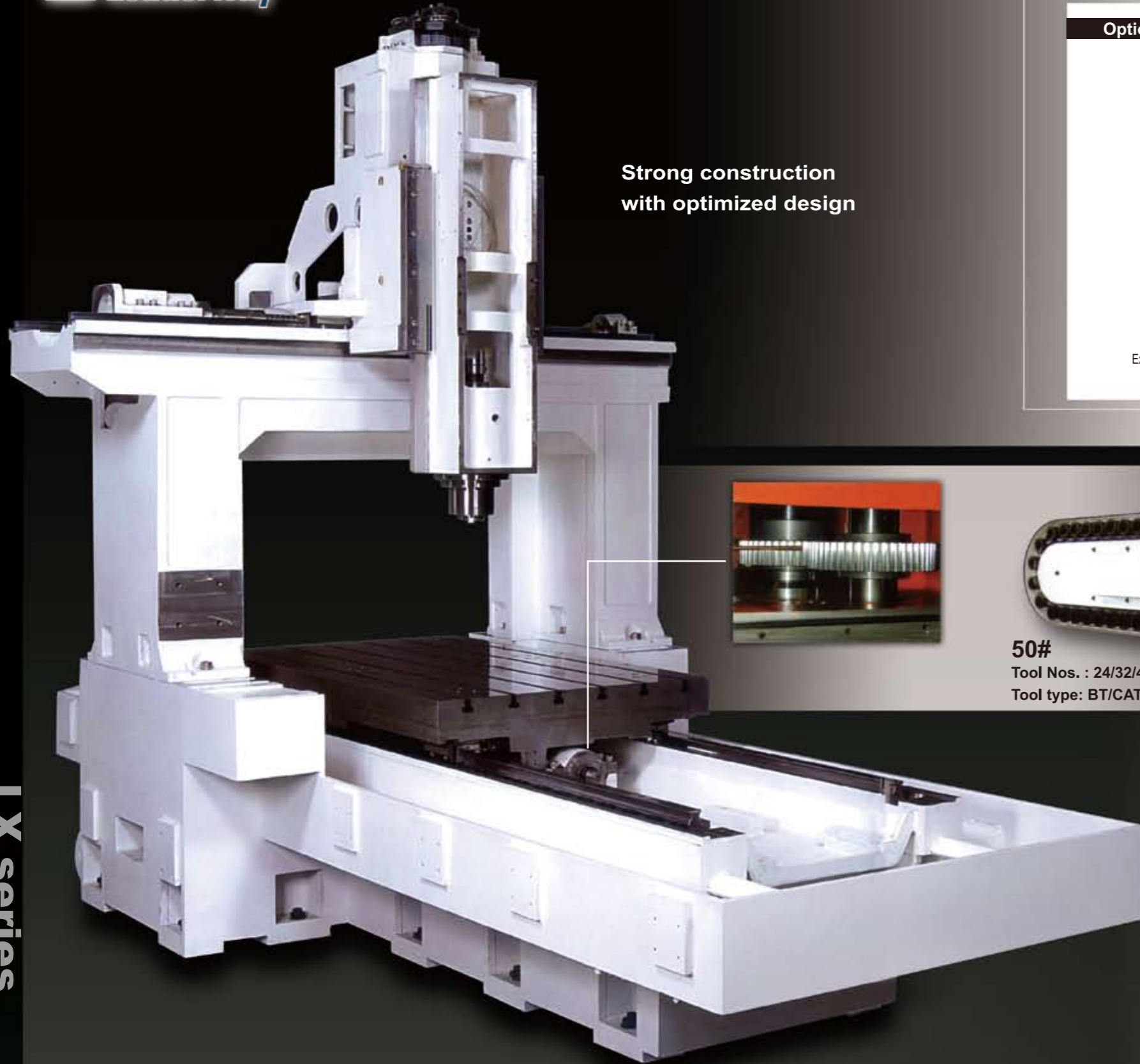
### FEATURES

- High rigidity - the structure is under very strictly analysis by FEA method (finite element analysis Method) and we assure you of the best performance and its balance in damping capacity.
- Z-axis, special design to ensure highest accuracy and 13 faces contacts between the z-axis housing and saddle column. Also, the smallest distance between the center of spindle and the center of gravity of the complete machine.



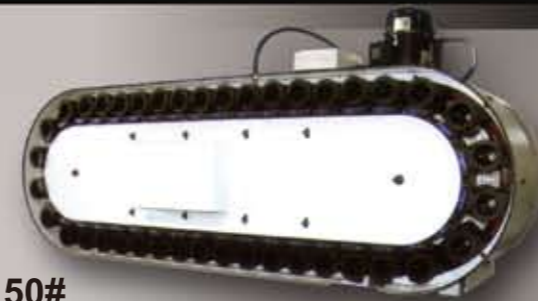
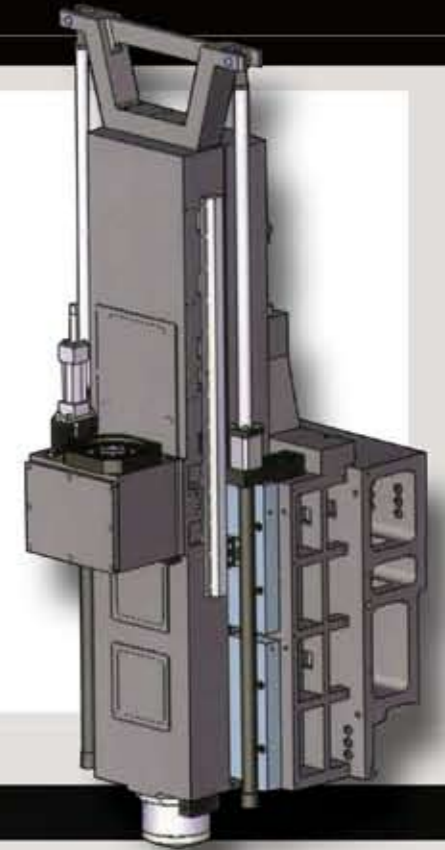
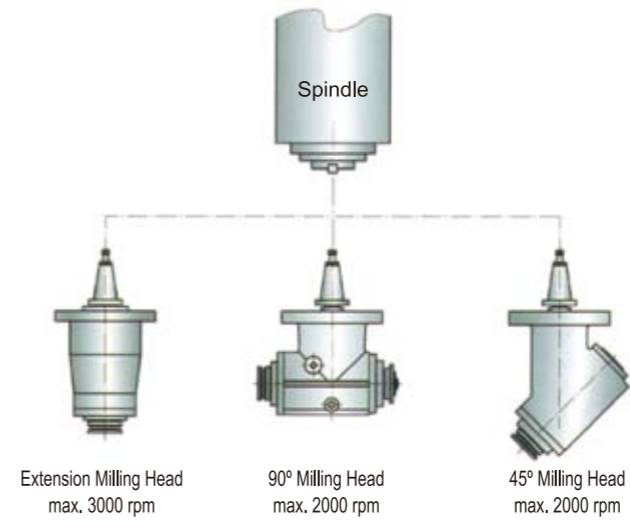
**LX- 4225**

**High Added Value High Quality, High Reliability  
High Precision, And High Speed Machining.**



Strong construction  
with optimized design

Option Of Different Heads



50#  
Tool Nos. : 24/32/40/52/60T  
Tool type: BT/CAT/ISO/HSK/SK series

CUTTING TESTS

FACE MILLING

S45C Steel

Material Removal Rate  
**1,000**  
cc/min.

Tool	ø160mm x 10T
Spindle speed	375 rpm
Feedrate	1600 mm/min.
Width of cut	125 mm
Depth of cut	5 mm
Spindle Load	144 %

FACE MILLING

S45C Steel

Material Removal Rate  
**450**  
cc/min.

Tool	ø160mm x 10T
Spindle speed	300 rpm
Feedrate	400 mm/min.
Width of cut	125 mm
Depth of cut	9 mm
Spindle Load	75 %

TAPPING

S45C Steel

TAP  
**M48**

Tool	M48 x 5P
Spindle speed	45 rpm
Feedrate	225 mm/min.
Spindle Load	72 %

DRILLING

S45C Steel

Material Removal Rate  
**135**  
cc/min.

Tool	ø59mm (Fast Drilling)
Spindle speed	590 rpm
Feedrate	110 mm/min.
Spindle Load	148 %

TAPPING

AL Aluminum

TAP  
**0#**

Tool	0#80UNF
Spindle speed	1200 rpm
Feedrate	381 mm/min.
Tooth pitch	0.3175 mm

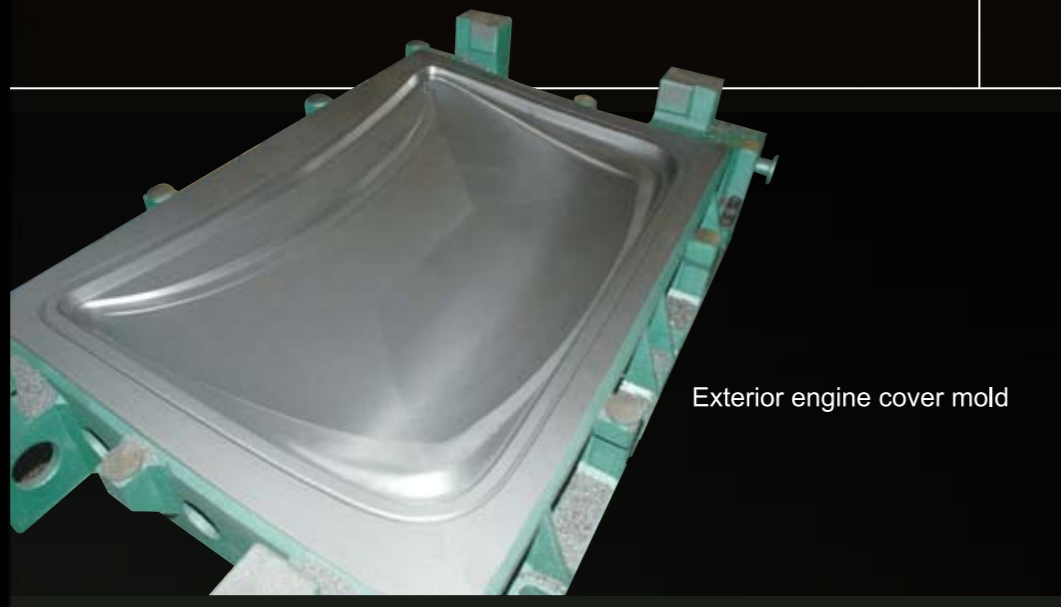
LX series

LX series

PRECISION  
MOULD SAMPLE



# ACCESSORIES



Exterior engine cover mold



Interior engine cover mold



Coolant thru spindle (OPT)



Fanuc 18i controller



Spindle head and coolant nozzle ring



Maintenance ladder



Laser and round out inspection



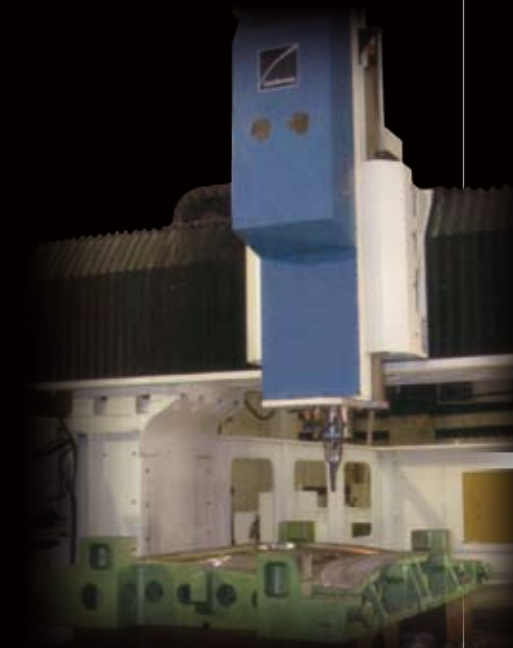
New design and high rigidity bridge construction



Rigid tapping max M45 x P3 (S45C)



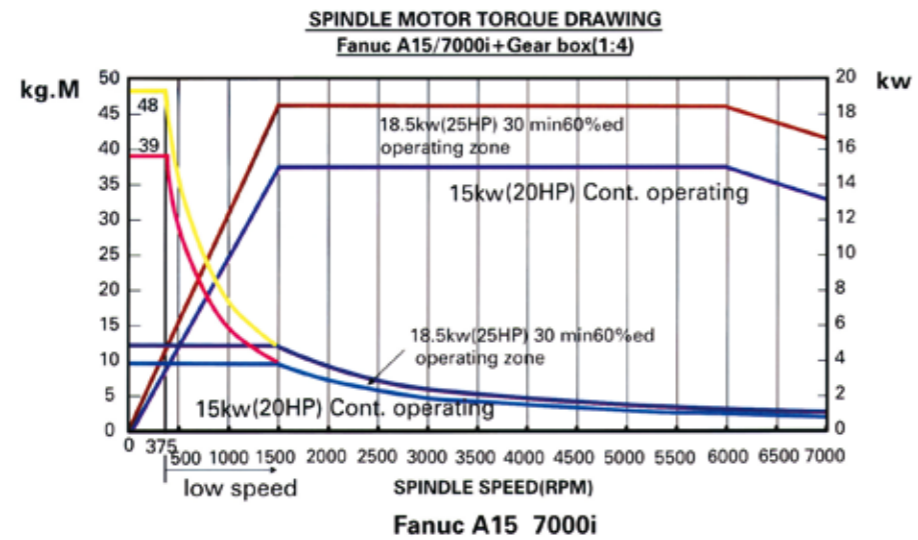
Dual coil chips conveyor (STD)



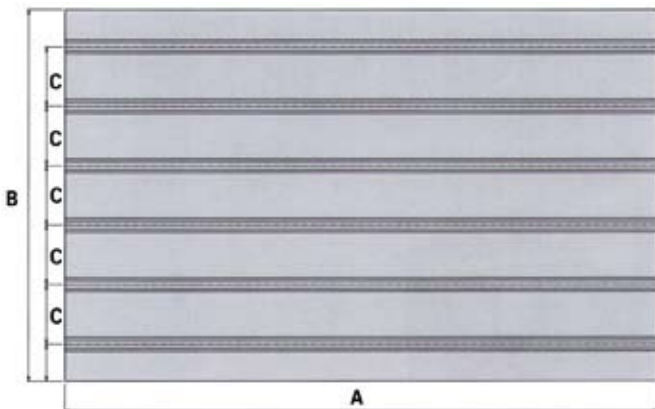
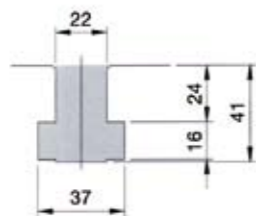
Machining of sheet metal mold

High Added Value High Quality, High Reliability  
High Precision, And High Speed Machining.

**SPINDLE MOTOR TORQUE DRAWING**

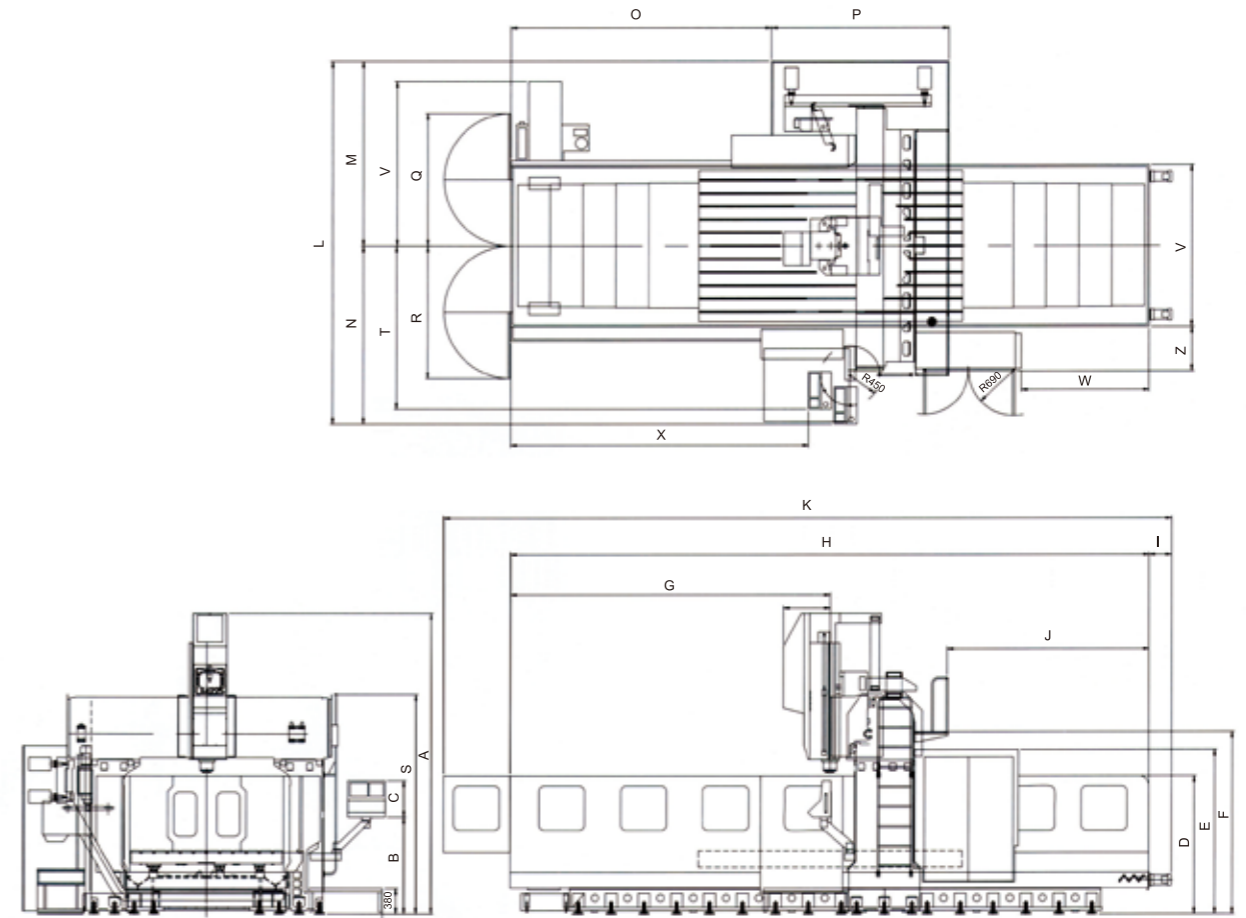


**TABLE SIZE**



	A	B	C
LX-1610	1600	1000	160
LX-2210	2200	1000	160
LX-2216	2000	1400	160
LX-3216	3000	1400	160
LX-4216	4000	1400	160
LX-3220	3000	1800	200
LX-4220	4000	1800	200
LX-3225	3000	2300	200
LX-4225	4000	2300	200
LX-5225	5000	2300	200

**MACHINE DIMENSION (mm)**



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
LX-1610	3325	1075	550	1820	2395	2470	2120	4215	350	1070	5125	4160	1960	1680	1465	2695	1107	1107
LX-2210	3325	1075	550	1820	2395	2470	2720	5415	350	2070	6325	4160	1960	2200	1965	2695	1107	1107
LX-2216	3800	1400	550	2050	2400	2475	2720	5415	340	1070	6565	4300	2200	2100	1965	2695	1260	1260
LX-3216	3800	1400	550	2050	2400	2475	3320	7720	340	2070	8565	4300	2200	2100	2965	2695	1260	1260
LX-4216	3800	1400	550	2050	2400	2475	4800	9720	340	3070	10565	4300	2200	2100	3965	2695	1260	1260
LX-3220	4565	1467	550	2088	2490	2565	3870	7715	340	2070	8565	4500	2300	2200	2965	2695	1260	1260
LX-4220	4565	1467	550	2088	2490	2565	4800	9720	340	3070	10565	4500	2300	2200	3965	2695	1260	1260
LX-3225	4565	1467	550	2088	2490	2565	3870	7715	340	2070	9065	5500	2800	2700	2965	2695	2010	2010
LX-4225	4565	1467	550	2088	2490	2565	4870	9715	340	3070	11065	5500	2800	2700	3965	2695	2010	2010
LX-5225	4565	1467	550	2088	2490	2565	5870	11715	340	4070	13065	5500	2800	2700	4965	2695	2010	2010

High Added Value High Quality, High Reliability  
High Precision, And High Speed Machining.

## MACHINE SPECIFICATIONS

MACHINES MODEL		LX1610	LX2210	LX2216	LX3216	LX4216	LX3220#50	LX3220#40	LX3225	LX4225	LX5225
Controller		OiMD	OiMD	OiMD	OiMD	OiMD	OiMD	OiMD	OiMD	OiMD	OiMD
Screen display	inch	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color	10.4 color
<b>Travel</b>											
X axis	mm(in)	1,600(63)	2,200(87)	2,200(87)	3,200(125.9)	4,200(165.3)	3,200(125.9)	3,200(125.9)	3,200(125.9)	4,200(165.3)	5,200(204.7)
Y axis	mm(in)	1,000(39)	1,000(39)	1,600(70)	1,600(70)	1,600(70)	2,000(78.7)	2,000(78.7)	2,500(98.4)	2,500(98.4)	2,500(98.4)
Z axis	mm(in)	550(21.6)	550(21.6)	800(31.4)	800(31.4)	800(31.4)	1,000(39.7)	1,000(39.7)	1,000(39.7)	1,000(39.7)	1,000(39.7)
Roller type linear motion guide on X and Y axe		YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Spindle nose to table	mm(in)	200-750(7.8-29.5)	200-750(7.8-29.5)	200-1,000(7.8-39)	200-1,000(7.8-39)	200-1,000(7.8-39)	200-1200(7.8-47)	210-1210(8.26-47.6)	200-1200(7.8-47)	200-1200(7.8-47)	200-1200(7.8-47)
Distance between spindle center and column	mm(in)	380(15)	380(15)	432(17)	432(17)	432(17)	377(14.8)	432(17)	377(14.8)	200-1200(7.8-47)	200-1200(7.8-47)
<b>Table</b>											
Table height from floor	mm(in)	825(32.4)	825(32.4)	850(33.5)	850(33.5)	850(33.5)	905(35.6)	905(35.6)	905(35.6)	905(35.6)	905(35.6)
Table size	mm(in)	1,600x1,000(63x39.7)	2,200x1,000(87x39.7)	2,000-1,400(78.7-55)	3,000-1400(118-55)	4,000-1,400(157-55)	3,000x1,800(118x70.8)	3,000x1,800(118x70.8)	3,000x2,300(118x90.5)	4,000x2,300(157x90.5)	5,000-2,300(196.8-90.5)
Max.load on table	kg(lbs)	2,000(4,400)	2,500(5,500)	3,500(7,700)	4,500(9,900)	5,500(12,100)	8,000(17,600)	8,000(17,600)	12,000(26,400)	15,000(33,000)	18,000(39,600)
T-slot size		6-22Tx160	6-22Tx160	7-22Tx200	7-22Tx200	7-22Tx200	9-22Tx200	9-22Tx200	11-22Tx200	11-22Tx200	11-22Tx200
<b>Spindle</b>											
Spindle speed	rpm	10000	10000	6000	6000	6000	6000	10000	6000	6000	6000
Spindle taper		#40	#40	#50	#50	#50	#50	#40	#50	#50	#50
Spindle power	KW(HP)	7.5(10)	7.5(10)	15(20)	15(20)	15(20)	15(20)	15(20)	15(20)	15(20)	15(20)
<b>Rapid traverse and cutting feed rate</b>											
Rapid traverse on X/Y/Z	M/min	20/20/18	20/20/18	20/20/15	20/20/15	20/20/15	15/15/10	15/15/10	15/15/10	10/10/10	10/10/10
Cutting feed rate X/Y/Z	M/min	1-10	1-10	1-5	1-5	1-5	1-5	1-5	1-5	1-5	1-5
Servo power on X/Y/Z	KW	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4	6/6/4
<b>Automatic tool changer</b>											
Automatic tool changer type		Drum type	Drum type	Arm type	Arm type	Arm type	Arm type	Arm type	Arm type	Arm type	Arm type
Tool postion no.		20	20	32	32	32	32	32	32	32	32
Max.tool diameter without neighbor tool	mm	NA	NA	215	215	215	215	120	215	215	215
Max.tool diameter with neighbor tool	mm	90	90	125	125	125	125	75	125	125	125
Max.tool weight	kg	7	7	14	14	14	14	7	14	14	14
ACT time:tool to tool	sec	14	14	8	8	8	8	8	8	8	8
ATC time:chip to chip	sec	24	24	32	32	32	32	32	32	32	32
<b>Accuracy</b>											
Positioning(VDI/DGQ 3441)	mm	0.015	0.015	0.015	0.015	0.015	0.02	0.02	0.02	0.02	0.02
Repeatability(VDI/DGQ 3441 Ps max.)	mm	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02
<b>Miscellaneous</b>											
Floor space requirment(LxW)											
Max.height of machines	mm(in)	3,275(128)	3,275(128)	3,800(150)	3,800(150)	3,800(150)	4,521(178)	4,521(178)	4,521(178)	4,521(178)	4,521(178)
Machine weight	kg(lbs)	≅ 17,000(37,400)	≅ 19,000(41,800)	22,000(48,400)	24,000(52,800)	26,000(57,200)	≅ 30,000(66,000)	≅ 30,000(66,000)	≅ 34,000(74,800)	≅ 40,000(88,000)	46,00(101,200)
Span of Gantry	mm(in)	1150(45.2)	1150(45.2)	1,800(70.8)	1,800(70.8)	1,800(70.8)	2020	2020	2520	2520	2520
Pneumatic source requiremant	bar	6	6	6	6	6	6	6	6	6	6
Power requiremant	KVA	40	40	40	40	40	40	40	40	40	40

All specifications are subject to change without prior notice

### STRANDARD ACCESSORIES

- Full enclosure guard
- Tool box
- Spindle air purge
- Spindle air blow
- 2 coolant nozzle
- Separated MPG
- PCMCIA Card slot
- DNC link software
- RS 232/RJ45 port
- Look ahead function
- M30 Auto power off
- 3 color indicating light
- Halogen working light
- Rigid tapping Helical interpolation

- Chain type chip conveyer
- Dual coil type chip conveyer
- Automatic lubrication system
- Arm type ATC 32 tools
- Double filter coolant tank
- Coolant tank and pump

### OPTIONAL ACCESSORIES

- Arm type ATC for BT50(40,60tools)
- Coolant thru spindle
- 20 bar Filter system for CTS
- 4th axi preparation
- 4th axis package with driver and motor
- 90 degree milling head (manual)
- TS27R tool setter
- Extra 8M function
- AI NANO CC+data servers(18i only)
- Transformer
- Oil mist
- Mitsubishi
- Siemens840D
- Heidenhai iTNC 530
- CE specification
- Sea waterproof packing