

We are moving forward.

ISO 9001 **CE**

LX 3220 / 3225 / 4225 / 5225

LX *Double Column machining center*



Leaderway



Leaderway

LX series - European

We are moving forward

In relentless pursuit of perfection, creating newly designs and developments are what Leaderway Team strives for, and committed to in our highest mission. We make efforts. Respect of what our customers need, requirements and satisfactions and humanism are reflected in our machine qualities and in our services.

These are all the reasons that as our commitment being the leader of machine tool manufacturer. We lead the way.

The vision of Leaderway Team want to enhance the experience of owning a Leaderway Machine, and a true definition of what is of an added value by providing high quality, high reliability, high precision, and high speed machining. We want to realize your dreams.

LX- special 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 rigid surface 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.
- X, Y axes are using the most reliable roller-type bearing guideway to ensure the strongest loadable pressure and precise accuracy under intense high-speed movement.
- X, Y, Z axes of the double-nut type ballscrews with proper pre-load to ensure the best cutting performance.
- State of the art chip removal system - dual coil and chain type chip conveyor system incorporated with special design water tank to reach the most efficient cleaning and of chips removal rate, and having the coolant oil separation simultaneously.
- Practical and efficient swing arm type automatic tool changer of standard 32 tool pockets to meet your day to day cutting demand and job requirement for easy and low cost maintenance.
- α 15 i spindle motor of 750rpm to reach the maximum torque, along with BT-50 tool taper spindle to achieve 300cc per minute cutting capacity of using material S45C steel, rigid tapping capacity is of M45 x P3.0mm.
- Complete enclosed guarding for ultimate safety and protection to meet the rigorous CE conformity standards.
- Easy and user friendly operation to meet ergonomically the powerful and useful man-machine design.
- Perfect and powerful Fanuc 18i CNC controller standard interface RS232, RJ45 function including (ethernet port, data server pcmcia card slot) to meet your most demand in all programming with great support guidance and carried enough memory capacity for ideally suitable for ultimate machining applications.
- Nitrogen / hydraulic counter balancing mechanism Standard.



*In Search of Excellence To Win Respect
Design, the Source of Machine Tools*





Leaderway

*High added value
high quality, high reliability, high precision,
and high speed machining.*



Machining of sheet metal mold



Spindle head and coolant
nozzle ring



Interior engine cover mold



New design and high rigidity
bridge construction



Exterior engine cover mold



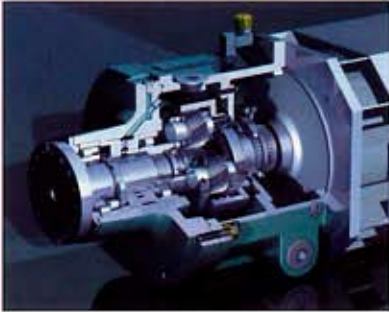
Fanuc 18i controller



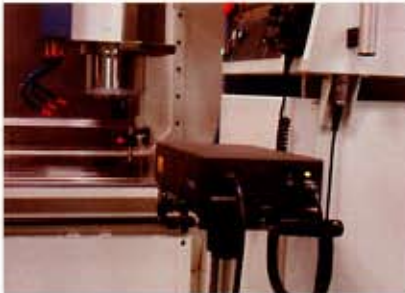
Maintenance ladder



Shoe mold



2 speed ZF gear head



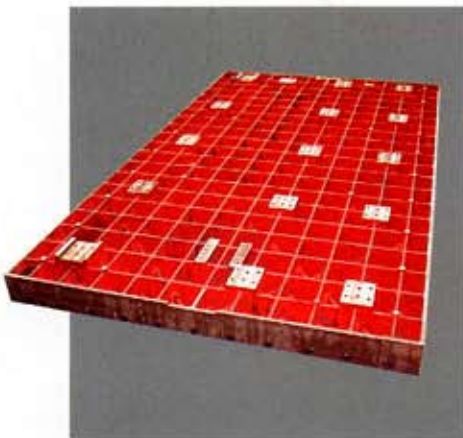
Laser and round out inspection



Rigid tapping max M45 x P3 (S45C)



Max loading 16000 kg



High rigidity and well rib
cast table



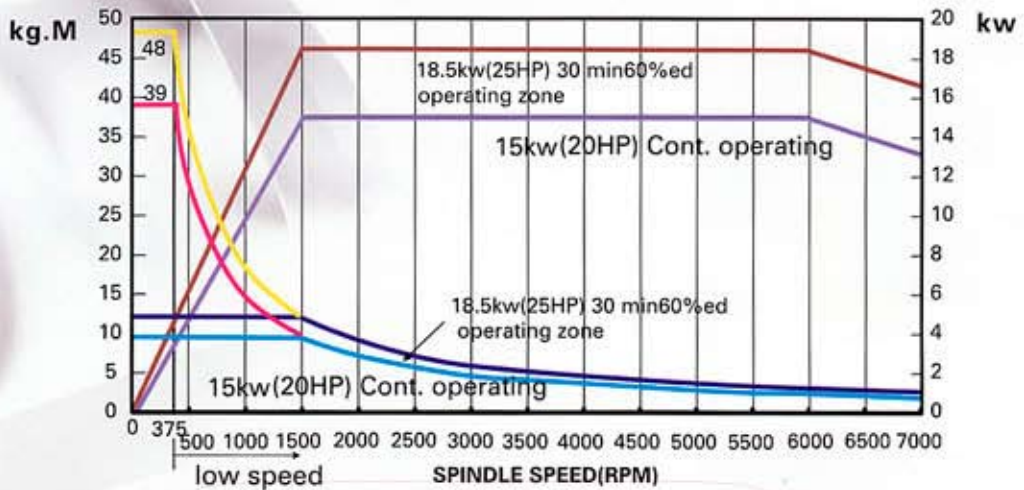
Dual coil chips conveyor
(STD)



Coolant thru spindle
(OPT)

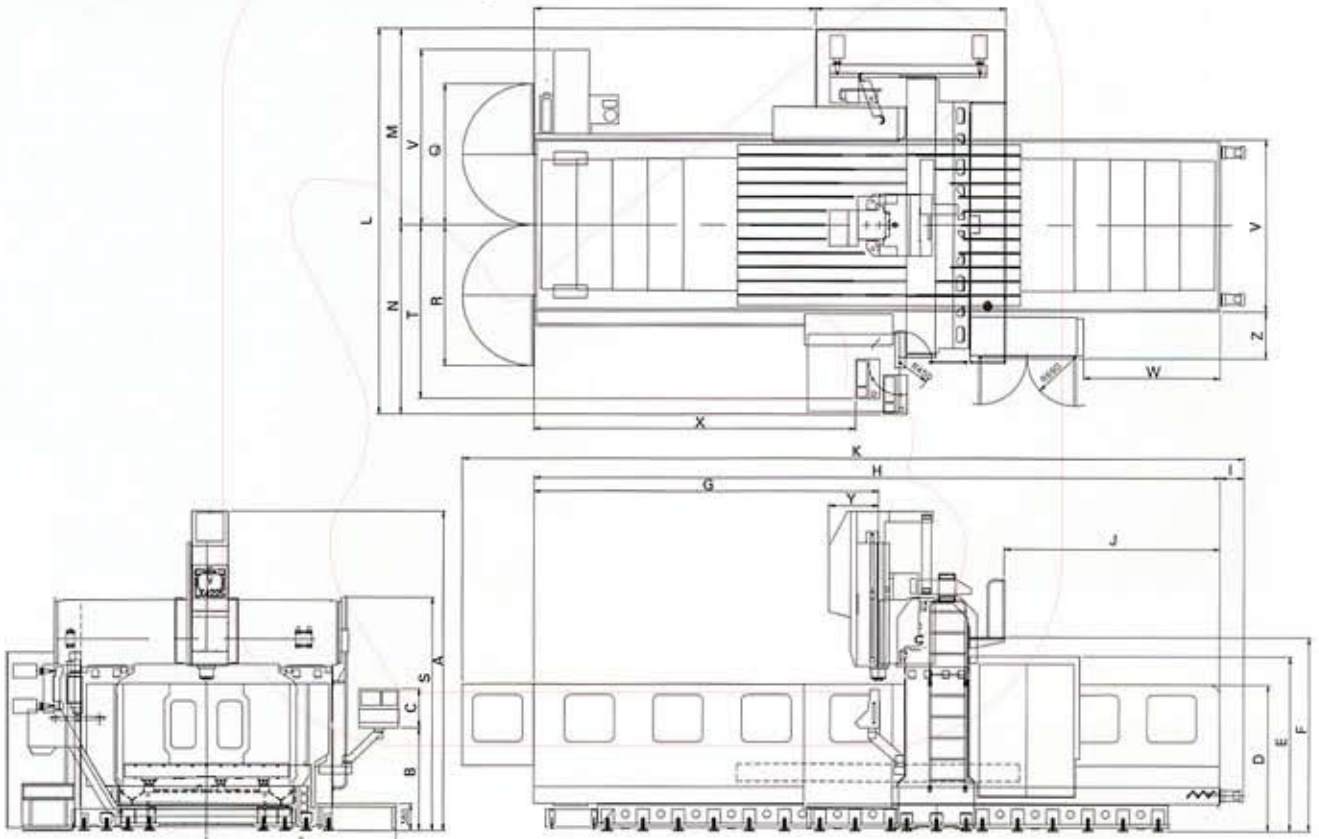
SPINDLE MOTOR TORQUE DRAWING

Fanuc A15/7000i+ Gear box(1:4)



Fanuc A15 7000i

Dimensional drawing



	A	B	C	D	E	F	G	H	I	J	K	L	M
LX-5225	4565	1467	550	2088	2490	2565	5870	11715	340	4070	13065	5500	2800
LX-4225	4565	1467	550	2088	2490	2565	4870	9715	340	3070	11065	5500	2800
LX-3225	4565	1467	550	2088	2490	2565	3870	7715	340	2070	9065	5500	2800
LX-3220	4565	1467	550	2088	2490	2565	3870	7715	340	2070	8565	4500	2300

	N	O	P	Q	R	S	T	U	V	W	X	Y	Z
LX-5225	2700	3965	2695	2010	2010	2460	2475	2500	2460	2046	5540	705	670
LX-4225	2700	3965	2695	2010	2010	2460	2475	2500	2460	1946	4540	705	670
LX-3225	2700	2965	2695	2010	2010	2460	2475	2500	2460	946	3540	705	670
LX-3220	2200	2965	2695	1260	1260	1960	1975	2000	1460	946	3540	705	670

Machine specifications

Machines Model		LX3220	LX3225	LX4225	LX5225
Controller		18iMB	18iMB	18iMB	18iMB
Screen display	inch	10.4 TFT color	10.4 TFT color	10.4 TFT color	10.4 TFT color
Travel					
X axis	mm (in)	3200(125)	3200(125)	4200(165)	5200(204)
Y axis	mm (in)	2000(78)	2500(98)	2500(98)	2500(98)
Z axis	mm (in)	800(31.5) / 1000 (39) option			
Roller type linear motion guide on X and Y axis		Y	Y	Y	Y
Spindle nose to table		200-1000(7.8-39) 200-1200(15.6-55)Option 400-1200(31.2-6-47.2)Option			
Distance between spindle center and column	mm (in)	377(15)	377(15)	377(15)	377(15)
Table					
Table height from floor	mm (in)	940(37)	940(37)	940(37)	940(37)
Table size	mm (in)	3000x1800(118x70.8)	3000x2300(118x90.5)	4000x2300(157x90.5)	5000x2300(196.8x90.5)
Max. load on table	mm (in)	8,000(17600)	12,000(26400)	15,000(33000)	18,000(39600)
T-slot size	mm (in)	9-22Tx200	11-22Tx200	11-22Tx200	11-22Tx200
Spindle					
Spindle speed	rpm	4,500 /STD (Gear Box) 6,000 / OPT (Gear Box) 8,000 / OPT (Direct drive) 10,000 / OPT (Direct drive) 12,000 / OPT (Build in spindle HSK 100A)			
Spindle taper		#50 (STD) HSK 100A for build in			
Spindle power	Kw (hp)	15/18.5(20/25)	15/18.5(20/25) STD	15/18.5(20/25) STD	15/18.5(20/25) STD
Rapid traverse and cutting feed rate					
Rapid traverse on X / Y / Z	m / min (ft / min)	15/15/10(49.2/49.2/32)	10/10/10(32/32/32)	10/10/10(32/32/32)	10/10/10(32/32/32)
Cutting feed rate X / Y / Z	m / min (ft / min)	1-7(1-22.9)	1-7(1-22.9)	1-7(1-22.9)	1-7(1-22.9)
Servo power on X / Y / Z	Kw (hp)	6(8)/6(8)/4(5.4)	6(8)/6(8)/4(5.4)	6(8)/6(8)/4(5.4)	6(8)/6(8)/4(5.4)
Automatic tool changer					
Automatic tool changer type		Swing arm type	Swing arm type	Swing arm type	Swing arm type
Tool position no.	no.	32 (40, 60 OPT)	32 (40, 60 OPT)	32 (40, 60 OPT)	32 (40, 60 OPT)
Max. tool diameter without neighbor tool	mm (in)	127 (5.0)	127 (5.0)	127 (5.0)	127 (5.0)
Max. tool diameter with neighbor tool	mm (in)	215 (8.5)	215 (8.5)	215 (8.5)	215 (8.5)
Max. tool weight	Kg (lbs)	20	20	20	20
ATC time : tool to tool	Second	2.5	2.5	2.5	2.5
ATC time : chip to chip	Second	21	25	25	25
Accuracy					
Positioning	mm (in)		0.01/300 mm (JIS B6201)		
Repeatability	mm (in)	± 0.005	± 0.005	± 0.005	± 0.005
Miscellaneous					
Floor space requirement (LxW)	mm (in)	8,565x4,500(337x177)	9,065x5,500(356x216)	11,065x5,500(435x216)	13,065x5,500(514x216)
Max. height of machines	mm (in)	4,565(180)	4,565(180)	4,565(180)	4,565(180)
Machine weight	Kg (lbs)	30000(66000)	34000(74800)	40000(88000)	45000(100000)
Span of Gantry	mm (in)	2020	2520	2520	2520
Pneumatic source requirement	bar	6	6	6	6
Power requirement	KVA	40	40	40	40

All specifications are subject to change without prior notice.

Standard accessories

Full enclosure guard	3 color indicating light
Tool box	Halogen working light
Spindle air purge	Rigid tapping Helical interpolation
Spindle air blow	Chain type chip conveyor
2 coolant nozzle	Dual coil type chip conveyor
Separated MPG	Automatic lubrication system
PCMCIA Card slot	Arm type ATC 32 tools
DNC link software	Double filter coolant tank
RS 232 / RJ45 port	Coolant tank and pump
Look ahead function	
M30 Auto power off	

Optional accessories

Arm type ATC for BT50 (40, 60 tools)	Transformer
Coolant thru spindle	Oil mist
20 bar Filter system for CTS	Mitsubishi
4th axis preparation	Siemens 840D
4th axis package with driver and motor	Heidenhai iTNC 530
90 degree milling head (manual)	CE specification
TS27R tool setter	Sea waterproof packing
Extra 8M function	
AI NANO CC + data servers(18i only)	

