

ISO 9002 **CE**

We are moving forward.



LX 1610 / 2210 / 3210

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 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.
- 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 20 tool pockets to meet your day to day cutting demand and job requirement for easy and low cost maintenance.
- Wide range spindle speed output : for the specify machining requirement, we provide wide range spindle speed output
 1. 18000 - 22000 rpm build in spindle ,
 2. 15000 rpm direct drives spindle
 3. 10000 rpm belt drives spindle ,
- 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.



*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.*



Strong construction with
optimized design



Laser and round out inspection



Rigid tapping max
M45 x P3 (S45C)



Fanuc 18i controller



Optimized design of
Bridge Column and saddle



Wide range spindle speed
10000,18000,22000rpm



13 contacted surface between
spindle head and saddle
Standard



Nitrogen hydraulic counter
balancing mechanism
Standard



Coolant thru spindle
(OPT)



2 speed ZF gear head



Spindle head and coolant
nozzle ring

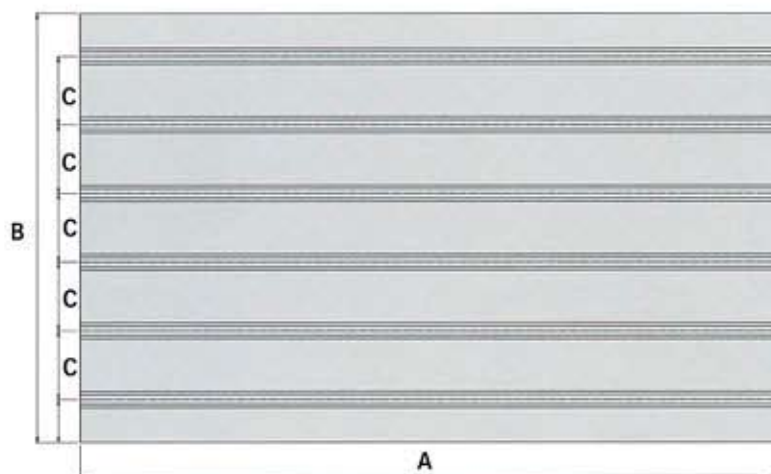


Dual coil chips conveyor
(STD)



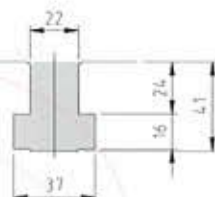
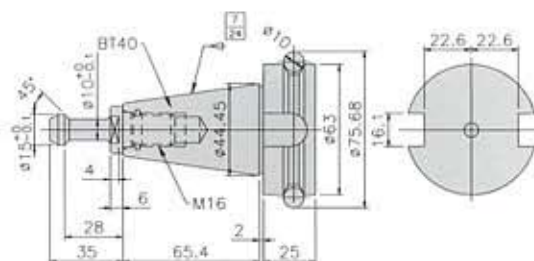
Precision mould sample

TABLE SIZE

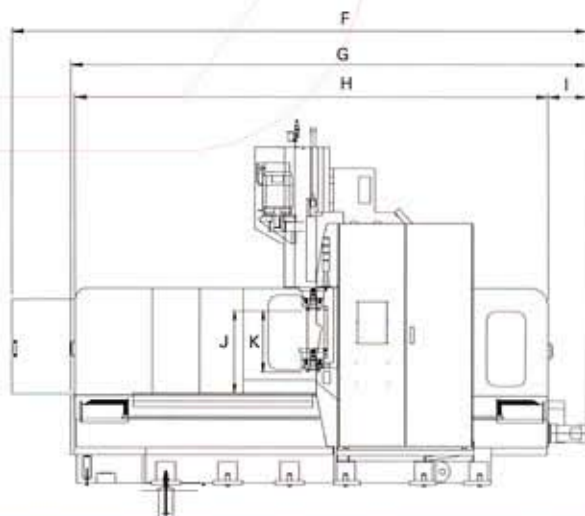
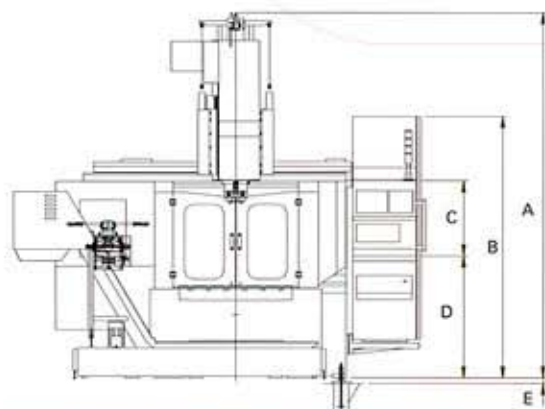
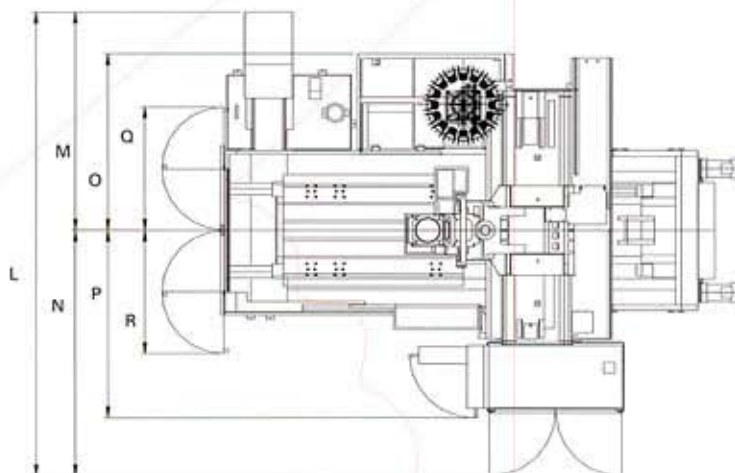


	LX-1610	LX-2210	LX-3210
A	1600	2200	3200
B	1000	1000	1000
C	160	160	160

BT-40



Machine dimension (mm)



	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
LX-1610	3275	2344	675	1095	50	5123	4601	4215	350	738	550	4157	1957	2200	1585	1680	1107	1107
LX-2210	3275	2344	675	1095	50	6323	5801	5415	350	738	550	4157	1957	2200	1585	1680	1107	1107
LX-3210	3275	2344	675	1095	50	8323	7801	7415	350	738	550	4157	1957	2200	1585	1680	1107	1107

Working Capacity:		LX-1610	LX-2210	LX-3210
X travel	mm	1600	2200	3200
Y travel	mm	1000	1000	1000
Z travel: mm		550	550	550
Table size	mm x mm	1600x1000	2200x1000	3200x1000
Table load	kg	2000	2500	3000
Dist. between columns	mm	1150	1150	1150
Spindle nose to table	mm	200-750	200-750	200-750
Headstock:				
Spindle motor: Cont./ 30 min	kw	5/7.5/9(Kw)	5/7.5/9(Kw)	5/7.5/9(Kw)
Spindle speed	rpm	10000	10000	10000
Front spindle bearing Ø:		70	70	70
Spindle taper:		BT-40	BT-40	BT-40
Spindle clamping force:		8	8	8
Feedrates:				
Rapid feedrate on X axis	m/min	20	20	20
Rapid feedrate on Y axis	m/min	20	20	20
Rapid feedrate on Z axis	m/min	18	18	18
Cutting feedrate:		5	5	5
Accuracy:				
Repeatability:		(+/-)0.005	(+/-)0.005	(+/-)0.005
Positioning :JIS B6201(VDI3441)		(+/-)0.007	(+/-)0.007	(+/-)0.007
Tool Magazine:				
Tool capacity: no.		20	20	20
Tool holder spec.:		BT-40	BT-40	BT-40
Max. tool dia (Full)	mm	125	125	125
Max.tool length	mm	104	104	104
Max.tool weight	kg	7	7	7
Tool changing time	sec	12	12	12
Dimension:				
Length	mm	5123	6323	8323
Width	mm	4157	4157	4157
Height	mm	3275	3275	3275
Machine weight	kg	17000	19000	25000
STD controller		FANUC 18i	FANUC 18i	FANUC 18i
Miscellaneous				
Pneumatic pressure requirement		6 kg/cm2	6 kg/cm2	6 kg/cm2
Electricity requirement		40 KVA	40 KVA	40 KVA

■ Specifications are subject to change without prior notice

Standard accessories

Compulsory oil lubrication system
 Total enclosed splash guarding
 Interior dual coil type chips conveyors
 Chain type chips conveyor
 Coolant system with tank and pump
 Spindle oil chiller
 Counter balancing mechanism by Nitrogen drives
 Spindle nose coolant nozzles (4)
 Pneumatic system
 Air blow by M code
 Spindle air purge by M code
 Fluorescent work light

Oil coolant separating mechanism
 M30 automatic power off
 Remote wired MPG
 Program off and alarm light
 RS-232 interface
 Leveling pad and bolt
 Tool box for adjustment
 Operation and maintenance manual
 Controller and electrical manual
 Accuracy chart and inspection list

Automatic tool changer
 Drum type ATC with 20 tools

Options

Spindle

Spindle taper BT-40 with 10000 rpm
 Spindle taper BT-50 with 6000 rpm
 Coolant thru spindle with 20 bar pump
 BT-40 with 15000 rpm direct motor
 HSK 63A with 18000 rpm electro spindle
 HSK 63A with 22000 rpm electro spindle

Z axis travel increasement

Z axis travel 760mm

Linear Scale

XYZ linear scale

90 Degree milling head

Maunal positioning , max 1500 rpm
 Automatic positioning, max 1500 rpm
 Maunal positioning , max 3500 rpm
 Automatic positioning, max 3500 rpm

OPTIONAL controller

Siemens 810

