LITZ.







TH-200/830/300 Horizontal Machinina Center



LITT HITECH CORR

Main Sub-systems

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On-line measuremen

Thermal splacement contro

Energy saving and

carbon reduction







ATC system

Machining performance







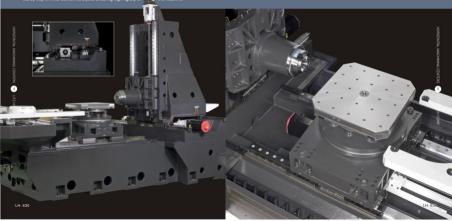


Chip removal

Mechanical Design Robust and Precision Machine Bed

Mechanical Rigidity

Unique rib construction

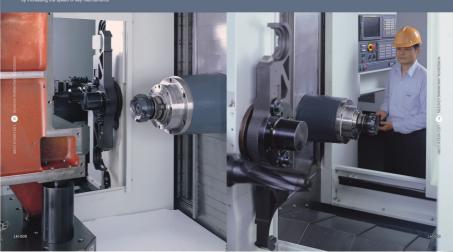


High speed mechanism

Shortens non-machining time substantially

The capability to shorten the time for spindle acceleration, deceleration, transmission and tool change is the key to high cutting efficiency. The LH Series shortens the overall process time

Production efficiency Gain extra profit by reducing non-machining time loss.



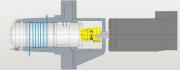
Increases machine utilization ratio substantially

The high efficiency chip disposal system completely solves the chip problems of the horizontal machine center; it not only increases machine utilization substantially but also avoids adversely affecting machining accuracy resulting from the cutting heat.



Spindle Transmission System

Unique IDD Spindle Transmission LH-500/630

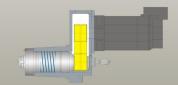


IDD the optimal heat isolation design

IDD (Isolated Direct Drive System)

- The spindle is free from thermal effect of main motor. Thermal displacement is reduced and the spindle accuracy and service life can be ensured.
- Thermal isolation coupling is designed between the motor and the spindle. Selecting application of the spindle oil cooling system for the entire spindle ensures increased spindle accuracy.
- The spindle is directly coupled to the motor. No more noise, backlash and vibration problems. ■ The transmission efficiency is increased due to direct coupling. The high accuracy rigid tapping is achievable via direct rotation detection of the motor.

High-torque Belt Transmission System LH-500/630/800



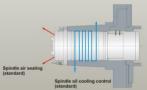


High performance FANUC spindle motors are provided with double windings, capable of both low-speed output and high-torque output; high-speed output and low-torque

The motor has variable speed features. When operating at the highest ratio of 1:4 in gear box option, the torque output can be controlled by software via automatic speed-change of the spindle motor.

output.

Spindle Dust-expelling Air Curtain System



- High speed spindle with spindle oil cooling system.
- High speed spindle with spindle oil cooling system.
 This efficiently keeps a constant temperature in the spindle, meaning less thermal.
- displacement of the spindle, ensuring high precision of the high-speed spindle.

 The spindle air curtain system prevents the vacuum pumping effect that sucks-in dust while the spindle is at very high speed. This ensures spindle precision and protongs spindle service life.

Spindle with quick reacting and high tool-pulling force



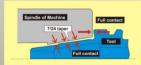
- Spindle tool-pulling force
 1800kgf (17000N)
- Spindle with high tool-pulling force, providing tool clamping and high rigidity, enhancing machining rigidity.



- The spindle only takes 1.7 seconds to accelerate from 0 to 6000RPM.
- The spindle only takes 1.2 seconds to decelerate from 6000RPM to 0.

Two-face restraint BT tool holder

The spindle taper, 7/24 is used.



- Due to full contact between the Two-face restraint tool holder and the spindle, vibration is eliminated during the process, enhancing process precision and workpiece face precision.
- End face of spinole will not expand under high rpm operation.
 Two-face restraint tool holder offers high precision installation and high cutting capability.

- The 3-Axis ballscrew employs large diameter ballscrew to enhance transmission rigidity, ensuring repetitivity and precise positioning.
- X/Y/Z axis rapid speed 36 m/min (LH-500) 32 m/min (LH-630/800)
- Synchronized telescopic covers are provided for all 3 axes, eliminating transmission noise and vibration.

High-speed High-precision Linear Guide Way

Roller linear Guide Way

- Roller linear guide ways with zero backlash ensure consistent cutting surface on curve or slope cutting.
 Suitable for high speed travel and the drive power.
- requirement is significantly reduced.

 By using rolling contact instead of sliding contact, linear quide reduces friction loss, reacts quickly, and
- increases positioning accuracy.

 If The loading capacity is high in multiple directions.

 Multiple contact points are maintained when machining.
- Multiple contact points are maintained when machin and cutting rigidity can be ensured.

 ■ Easy to assemble, interchangeable, with a simple
- structure for easy lubrication.

 Long service life is guaranteed by the extremely low
- Long service life is guaranteed by the extremely to friction loss in the linear guide way.

Ballscrew Cooling System



Cooling efficiency of hollow ballscrew



■ The transmission ballscrew is of hollow design.
The coolant oil automatically circulates through the ballscrew, eliminating heat generation and thermal expansion during high speed rotation, so as to accomplish high-speed and high precision machining.



■ The machine is of oil-water separation design, ensuring separation of lubricant from coolant, preventing deterioration of the coolant resulting from mixing with lubricant, thereby ensuring process quality.



■ The separated cutting fluid is recycled into tank. for re-use. The lubricant is centrally collected for disposal to meet environmental requirements.

Collision prevention device



In case of mechanical anomaly or operator negligence, the built-in collision prevention device is capable of absorbing the impact of collision, minimizing the impairment as well as maintaining the intended precision.

Direct-coupled transmission



- Direct-coupled transmission with motor and
- precision high-speed ballscrew. Pre-tension device increases rigidity of ballscrew,
- lowers thermal displacement and escalates precision. Hollow ballscrew cooling design is devised in the transmission system, significantly lowering thermal displacement resulting from high-speed rotation, and suitable for machining high-precision parts.
- C3 Class large diameter ballscrew with pre-load design ensures high rigidity and excellent precision.

APC · Worktable



Worktable



Stand-by worktable can be arbitrarily rotated manually 0° ~ 90°.





- Fast, simple, reliable and long service life tool changer system provides stable and reliable tool change operation.
- The unique tool change system adopts an advanced cam drive device. Tool selection can be done quickly using the PLC program from any tool position.
- The ATC system passed 1.000,000 endurance tests to meet reliability requirements. ■ The cam drive device of the magazine ensures precision rotation, ensuring smooth operation of
- the magazine even in heavy tool operation.







Servomotor driven magazine

Chip Removal System



Selection of track type chip conveyor device

				● : Excell	ent result O : OK	X : Inferior result
Mat	erial		Steel	Cast iron	Al / colored metal	Mixed chips
Shape	of chi	os	观			
Internal chip remover		w type	0	(Dry cutting)	0	0
Track type	Scrap	Cast iron (heavy)	×	•	×	
chip	rabe	(light)	×	×	•	
conveyor	Chain-type		•		×	

Internal coolant/wash down device



- Disc-type oil separator is easy to install and saves space.
- Disk-type oil separator enables effective separation of floating oil in the coolant tank. ensuring quality and prolonged service life of the coolant, therefore, the quality of the process



■ Coolant is sprayed from nozzles above the hood, preventing accumulation of chips.

Coolant Spray Gun

is improved.



■ Spray gun for easy and prompt cleaning of the machine, removes and cleans remaining chips that stick and adhere to the machine, maintaining the machine in a clean and tidy condition.

Minimal floor area requirement

Compact machine design ensures minimal floor area. making the best use of limited space.



transparency

Excellent operation door transparency





Front door and operation door of the machine comprise wide spread acrylic / safety glass with high transparency accompanied with high luminance fluorescent lights for convenient surveillance over the operation.

In order to shorten the non-processing maintenance time, the machine





Access Door for easy maintenance

Centralized accessories of Automatic Pallet Changer





Safety System

Safety Door Interlock



- When the door remains open, the programmed operation will not start. ensuring safety of the operator.
- For the safety of the operator, opening the door during machining will stop the program.

Buzzer alarm



In case of anomaly during the process that gives a warning message, the buzzer will beep, informing the operator that emergency troubleshooting is required.

Warning Light



- On completion of a processing program, the yellow warning light will flash, notifying the operator to unload/load the workpiece.
- In the event of machine anomaly which causes an alarm message, the red light will flash; emergency troubleshooting is therefore required.



■ When the pressure of the compressed air system becomes lower than the setting value, the pressure detector will deliver an air-system anomaly signal to the system controller, with an alarm message indicated.





- Optical linear scale System can be added to X/Y/Z-Axes, for feeding back signal of thermal displacement caused by high-speed movement of machine, so that compensation can be made by the controller accordingly. This is suitable for processing high-precision
- Optical Scale is provided with air protection device to prevent any damage by dust or oil. so as to ensure accuracy and prolonged service life of the Ontical Linear Scale.

Coolant through spindle OP





 Coolant through spindle and sprays from tool nose. away from tool blade, ensuring quality of the process. Especially suitable for deep hole drilling.



On-line Measurement System

Workpiece Measurement System OP

- RENISHAW RMP60 is used.
- Automatic center measurement and automatic measuring point. Automatic Measurement Applications are shown in the following illustrations.

- **Automatic Measurement Applications** Setting the Origin
 - Automatic setting of origin of working coordinates
- Measuring Measuring workpiece dimensions

- DENISHAW NC4S is used
- Automatic tool detection and tool breakage detection.
- Automatic Measurement applications are shown as follows:

Automatic Measurement applications







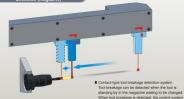








Automatic Tool Breakage Detection (magazine)



- issues a message to prevent any damage to subsequent process engineering. ■ Tool measurement and tool breakage can be Lower Power Consumption
 - impeding the processing time.
 - performed within the magazine, therefore not











- Indoor light OFF function
 - Indoor lighting will be shut off automatically when the touch screen has been left inoperative for a set duration. This helps to save energy and prolong lifespan of the lamp.
- Power OFF function Power to the servomotor, spindle motor, coolant pump, chip conveyor will be shut off when the keypad and
- the controller have remained inoperative for a set duration, so as to minimize power consumption. ■ Lubrication System OFF function
- When the 3-axis guideway has remained inoperative for a set duration, the automatic lubrication system will be shut off automatically, to save use of lube oil.
- Display OFF function
- The display will be shut off automatically when the control panel has been left untouched for a set duration, to save power consumption and prolong lifespan of the display

Oil Mist Collector System

Oil Mist Collector System OP

- The fully enclosed sheet-metal hood and mist collector effectively collect the particles and mist produced by machining, so that the operator can
- space or clean room, the Mist Collector ensures effective control of air quality to meet green







■ Coolant cooling system offers control of heat generated by prolonged processing, ensuring machining precision.









Convenient Operation





Access Distance

Distance to Worktable

- 270mm(LH-500)
- 360mm(LH-630)
- 402mm(LH-800)
- Height of Worktable
- 993mm(LH-630)
- 988mm(LH-800)

Operation System Corresponding the New Generation the New Generation

FANUC 10.4*LCD Color Monitor

Funktioning by operation panel developed by UTZ, for easy and prompt input.

Protection covers are provided for critical keys on the panel, for a reconfirmed execution to convent any miles.



Shortens distance between operator and worktable.



Width of door opening

822mm_(LH-500)

1200mm_(LH-630)

■ Wide door opening design facilitates loading/unloading of workpiece and jigs.

HORIZONTAL MAD-INING CENTERS 🔞 UTZ

turn angle

	G01
	G02/G03
	G02-1/G03.1
ion a	fter cutting interpolation
	1~10,000mim/min
	G04
	Manual pulse generator
	1 unit x1. x10. x100 (per sc
V	Linear (feed) / exponential
	(outting feed)
	FO(ine feed),25/100%
	0~150%(at 10% incremen
ance	1
	0~1,260mim/min(15 grad
	0~1,260mim/min(15 grad
fiting	0~1,260mim/min(15 grad
fiting	0~1,260mim/min(15 grad
_	
_	1280m
_	1280m Erase, interpolate, change Program No., Serial No., A
ity	1280m Exase, interpolate, change Program No., Serial No., A 200
ity grame	1280m Erase, interpolate, change Program No., Serial No., A 200
ity	1280m Esse, interpolate, change Program No., Serial No., A 200 4 rows/48 characters

Cutting method	G64
Accurate stop	G09
Operation, Display	
Operation panel, display	10.4" TFT color LCD display
nput/output function, device	
input/output interface	RS-232-C/PCMCIA(type I · II)
RS-232-C tape operation	
Spindle function (S function)	S5-row specification
Spindle speed ratio	50~120% (10% increment)
Tool function (T function)	T4-row specification
Auxiliary function (M function)	M3-row specification
Tool compensation	
Tool position compensation	G45-G48
Tool radius compensation	G40-G42
Number of Tool Offset Groups	200 groups
Tool offset memory C	D/H code, shape/abrasion
Tool length offset	G43,G44,G49
Number of tool offset groups	999
Programmed input of offset	
Coordinate system	
Programmable data input	G10
Automatic origin reset	G28
Second origin reset	G30
Origin reset confirmation	G27
Automatic Setting of coordina	te system
Setting of coordinate system	
Selection of workpiece coordinates	G54-G59
Setting of Local Coordinates	G52
Local Coordinates system	G53
Total number of workpiece	(48 groups)
coordinates system	
Coordinates rotation	G68 · G69
Operation support function	
Single block	
Selective stop	
Skip of selective program block	
Dry run	
Mechanical lock	
Auxiliary function lock	

Load cell display screen	
Arc interpolation Time display	
Program support function	
Arc radius R specification	G73,G74,G76,G80-G89,G98,G9
Hole drilling fixed cycle	Maximum 4 duplicates
Subroutine	
Customer program group B	
One direction position check	G61/G64
Rigid tapping	G84
Preview control function	
Mechanical system precision	offset
Backlash offset	±9,999pulses
Rapid movement/ feed rate back	slash independent compensation
Program re-start	
Total of Macro Shared Variables	(600)
A1 outline control function	G5.1 Q1
A1 Nanometer outline control function	G5.1 Q1
Mechanical Support Function	on
Axis Interlocking	External input control axis interlocking is optional
Automation support function	on
Jump function	G31
Safety, Maintenance	
Diagnosis function	Alarm display, input output signs diagnosis, ladder diagram recording paper
Display of historical alarms	Digital control, computer alarm
Display of historical operator massage	Detects abnormal loading
Software status monitoring	
Optional specifications	
Addition of registered pro	ograms1,000
☐ Input unit 1/10 folds	
Hypothetical axis offse	
Polar coordinate offse	t

Operation time/Part No. display Expansion method editing

	G73,G74,G76,G80-G89,G98,G99
	Maximum 4 duplicates
	G61/G64
	G84
	offset
	±9,999pulses
ć	slash independent compensation
	(600)
	G5.1 Q1
	G5.1 Q1
į	on
	External input control axis
	interlocking is optional
ç	n
	G31
	Alarm display, input output signal diagnosis, ladder diagram recording paper
	Digital control, computer alarm
	Detects abnormal loading
	grams1,000
	grants 1,000

NURBS offset
Smooth offset
Cylindrical offset
Exponential function offset
F1 feed (F1-F9)
Feed per revolution
Data server (ATA Card)
F15 Format
Constant circumference speed control
Tool position layout (G45~ G48)
3D Tool offset
Serial number comparison stop
Addition of arbitrary jump of program block E
Process time marking function
Specification of chamfer of arbitrary angle
Insertion of customer macro

A1 Nanometer high-precision outline control function

G05 P10000

Coordinate command enable G16 Single direction positioning G60

Process inclination function selection Tool (INPC)

2560m (1024kb)

Addition of tool life management groups (512 groups)

LH-500A/B FANUC α15





Spindle speed (min 1)



Spindle speed (min-1) LH-630A/B .LH-800B FANUC a 22





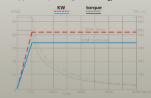




ZF + FANUC High-torque motor



(a22/7000i) (22/26Kw) 660Nm(30 min. rating)



a22/7000i+ZF(1:4) Spindle speed 6000rpm Spindle Power-Torque Chart



Chip removal capacity 334mL/min

> Spindle rpm 1000 rpm Feedrate

1200 mm/min

Chip removal capacity 400mL/min

> Spindle rpm 1000 rpm

Feedrate 1300 mm/min

Chip removal capacity(⊘100) 600mL/min

Spindle rpm 700 rpm Feedrate 1000 mm/min

Chip removal capacity 150mL/min

Spindle rpm 500 rpm Feedrate 175 mm/min

Chip removal capacity

197mL/min Spindle rpm 640 rpm Foodrate

230 mm/min

Chip removal capacity 296mL/min Spindle rpm 700 rpm Feedrate 340 mm/min

Drill tip Ø 50mm

Tapping

Chip removal capacity 177mL/min

Spindle rpm 900 rpm Feedrate 90 mm/min

> Chip removal capacity 220mL/min

Spindle rpm 900 rpm Feedrate 113 mm/min

Chip removal capacity(∅60) 282mL/min Spindle rpm 770 rpm Feedrate

100 mm/min

Chip removal capacity M36×P4.0

Spindle rpm 88 rpm Feedrate 352 mm/min

Chip removal capacity M40×P4.0

Spindle rpm 88 rpm Feedrate 352 mm/min

Chip removal capacity M42×P4.5 Spindle rom 88 rpm Feedrate 352 mm/min

Laser Inspectio



The full travel is inspected and compensated by a laser measurement instrument, ensuring machine accuracy and calibration results.

Standard Specimen Test



- Besides inspection by precision instruments, every machine is subject to a dynamic outling test according to international standards.
- On completion of the cutting test, the standard specimen is measured using a 3D measuring machine to ensure accuracy.

Dynamic Spindle Balancing



The IRD dynamic balancing instrument calibrates spindle speed, displacement, and acceleration at the maximum rom.

Ball-Bar inspection



■ The Ball-Bar instrument is used for calibrating roundness and geometric accuracy of the machine to ensure precision 3D movement of the machine.

Machine Dimensions

Dimensions



Unit: mm

Position Model	Α	В	С	D	Е	F	G	н	- 1
LH-500	5000	3680	2904	4625	3210	2283	1195	1046	878
LH-630	5966	4000	3362	5577	3470	2550	1295	1132	993
LH-800	6991	4506	3948	6581	4326	2932	1290	1132	988

Floor space and foundation diagram



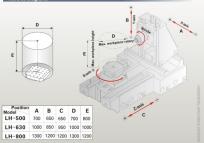
		53	157					В			A							
	Α	В	С	D	Е	F	G	н	1	J	K	L	М	N	0	Р	Q	R
LH-630	5577	389	273	603	603	603	414	806.5	75	889.5	788.5	-	-	-	1020	3470	951	14
LH-800	6581	410	545	660	660	660	435	895	75	980	_	814	764	914	-	4326	1355	16

SEC:B-B

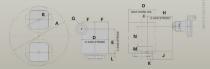
STD: LH500/630 ():LH-800

Position Model	Α	В	С	Е	F	G	Н	1	J	K	L	M
LH-500	500	500	200	200	100	100	55	125	75	36	125	36
LH-630	630	630	250	250	125	125	30	105	55	35	60	35
LH-800	800	800	320	320	160	160	55	200	135	41	200	41

Traverse Diagrams







Model	А	В	D	E	F	G	н		J	K	L	IVI	N
LH-500	1550	700	700	650	350	306	650	150	525	125	50	130	520
LH-630	2230	1000	1000	850	500	306	950	150	760	190	100	80	770
LH-800	2900	1300	1300	1200	650	306	1200	200	960	240	100	85	1115



- This tool package uses SYIC tool holder
- tool package is also available for option.

Max. tool length 359 mm (LHS9007450 mm (LH630) Max. tool length 500 mm (LH803/1000)

CHMT-6020

Detailed contents of NBT40 tool Package Item specifications RT40-FR20A-100-PG ER20-4mm-A ER Sieeve clamp, A-grade 1 ER20-6mm-A ER Sleeve clamp, A-grade 1 ER20-8mm-A ER Sleeve clamp, A-grade 1 FR20-10mm-A ER Sleeve clamp, A-grade 1 FR20-12mm-A ER Sleeve clamp, A-grade 1 BT40-FMA31.75-45 Plane milling tool shark KM-80 45deg, type milling tool SEHT1204AFEN-M01 0M4025 Blade RT40.45G Pull stud, 45deg

Spanner

Oil

Max. torque V×L ≤ 300Kg f-Cm

List of accessories

●Standard accessory ○ Optional ☆ Requires consultation —Not available

Spindle		(H. 63	LH BOO	
Spindle speed 6000RPM	•	-	•	
Spindle speed 8000RPM				
Spindle speed 10000RPM				
Spindle coolant system		•		
Spindle air seal system	•			
Spindle belt transmission				
Spindle direct transmission				
Spindle belt transmission				

ZF gear					_
axis roller linear rail	•	•	•	•	•
axis ballscrew cooling system	•	•	•	•	•
near scale system					
with soils author towards.					

Fourth axis optical encoder					
Pallet unit					
Pallet 1° division	•	•	•	•	•
Pallet 0.001° division					
Pallet M16 fixing hole		•	•	•	

Pallet T-slot				
Cooling system				
Splash ring				
Spindle Air Seal System		•	•	
Coolant through Spindle system				

Track type chip conveyor system	•

Chip storage cart				а
Built-in screw-type chip auger	•			ä
Built-in oil-liquid separator	•			ä
Overhead chip wash-down system	•		•	ä
Disc-type coolant separator				

Safety System			
Front door/Side door safety switch	•	•	•
CE Safety Specifications			
Measuring system			

Tool length measuring system NC-4S			
Workpiece measuring system PMP-60			
Tool breakage detection			

(magazine)			
ATC and Magazine Systems			
Tool Storage Capacity 40T			
Tool Storage Capacity 60T		•	•
Test seculification MOT			

Tool Storage Capacity 60T			•		
Tool specification NBT	•	•	•	•	•
Tool specification CAT					
Tool taper NO 40		-	•		
Tool taper NO 50			-	•	

Electrical					
M30 Automatic power-off system		•	•		C
Working light (lighting)		•	•	•	C
Warning light	•				

Warning light	•	•	•	•	C
Electrical cabin air-conditioner					
Electrical cabin heat exchange	•	•	•	•	C

FANUC 18i	•	u	u	u	Ľ
FANUC 3li					
FANUC DIMD					
Other					
Mist collector unit					

Botary window

Tool selection method

	LH-500A	LH-500B	LH-630A	LH-630B	LH-800B	
Travel						
Travel, X/Y/Z m	m 701	700/650/650		1000/850/950		
Spindle center to pallet face m	n :	50-700		100-950		
Spindle nose to pallet center m	1	150-800		150-1100		
Pallet						
Pallet size m	n 5	500x500		630x630		
Maximum workpiece m	m	Ø700		Ø1000		
Maximum pallet load	g	500		1000		
Maximum workpiece height m	n	800		1000		
Pallet surface configuration m	n 24-M1	24-M16 Pitch 100		24-M16 Fitch 125		
Pallet minimum division angle		1°		1°		
Spindle						
Spindle max. speed RP	M 10000	6000	10000	6000	6000	
Low/High gear variation RF	М	1200		1200		
Spindle max. torque (cont.) N	n	141		165		
Spindle taper	7/24Taper,No.	40 7/24Taper,No.50	7/24Taper,No.40	7/24Taper,No.50	7/24Taper,No.50	
Spindle bearing ID n	m 70	100	70	100	100	
Spindle bransmission	Direct coupl	e Direct couple	Direct couple	(Belt + ZF)	Belt + ZF	
Feed						
Max. X/Y/Z Rapid speed mm/n	in	36000		32000		
Cutting feed rate mm/n	in 1	-10000	1-	10000	1-10000	
Manual feed rate mm/n	in	1260		1260		
Automatic Tool Change						
Type of tool shank	ISO 40 / NBT-4	0 ISO 50/NBT-50	ISO 40 / NBT-40	ISO 50 / NBT-50	ISO 50/NBT-50	
Tool capacity 6	C 60	40	60	40	60	
Max. tool diameter	05/4004	10010001	00(400)	445(000)	105(050)	
(without neighboring tool)	m 95(190)	120(230)	80(160)	115(230)	125(250)	
Max. tool length m	m 350	350	450	450	600	
Max. tool weight	g 8	20	8	20	30	
ATC change time (T to T) Se		5		5	5	

		LH-500A	LH-500B	LH-630A	LH-630B	LH-800B
Automatic Pallet Changer						
Number of Pallet	pc	2		2		2
Pallet Change method		Rotary		Rotary		Rotary
Time for APC	Sec	18		18		18
Controller system						
FANUC		18i		18i		18i
Motor						
Spindle motor, power	KW	15/18.5		22/26		22/26
Spindle max. torque (30 min.)	Nm	120		170		660
X/Y/Z/B axis motor	KW	7/7/4	7/7/4/1.6		7/7/7/3	
Motor, Hydraulic system	KW	2	2.2		2.2	
Motor, coolant pump system	KW	1.6		1.6		1.6
Power Supply						
Power requirement	KVA	42		42		42
Capacity of oil tank/coolant tank						
Capacity, Hydraulic System	L	6	60		60	
Capacity, Lubrication System		4	4		4	
Capacity, coolant system		760		800		850
Mechanical Specifications						
Height	mm	2970		3362		3900
Floor area	mm	3210x5000		5966x3470		6991x4326
Weight	kg	15000		23000		25000

- All photos in this catalog are for reference only. Please refer to the actual machine in case of discrepancies.

 LITZ reserves the right to make alterations or deletions to the specifications, appearances and accessories
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Manufacturer

LITZ. LITZ HITECH CORP.

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