

**MACHINE SPECIFICATIONS
(SELECTION SHEET)**

**Lynx 2600
(FANUC)**

HORIZONTAL TURNING CENTER

Draft	Correction	Approval
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DN Solutions Co., Ltd.

HORIZONTAL TURNING CENTER
Lynx 2600 (FANUC)
MACHINE SPEC. SELECTION SHEET

**1. GENERAL SPECIFICATION**

ITEM		UNIT	SPECIFICATION		SELECTION	
			Lynx 2600			
CAPACITY	SWING OVER BED		mm	630	DEFAULT	
	SWING OVER SADDLE		mm	460		
	MAX. TURNING DIAMETER		mm	460 ⁽⁵⁾		
	RECOMMENDED TURNING DIAMETER		mm	255		
	MAX. TURNING LENGTH		mm	658		
	MAX. ALLOWABLE WORKPIECE WEIGHT (INCLUDING CHUCK)	CHUCK WORK	kg	260		
		SHAFT WORK	kg	520		
BAR WORKING DIAMETER		mm	81			
TRAVEL	X-AXIS		mm	255		
	Z-AXIS		mm	680		
ACCURACY ⁽³⁾	POSITIONING	X-AXIS	mm	0.01		
		Z-AXIS	mm	0.02		
	REPEATABILITY	X-AXIS	mm	+/-0.002		
		Z-AXIS	mm	+/-0.003		
MACHINE SIZE	FLOOR SPACE		mm	3290 x 1778		
	HEIGHT		mm	1790		
MACHINE WEIGHT (NET) ⁽¹⁾		kg	4750			
HEIGHT FROM FLOOR TO SPINDLE CENTER		mm	1060			
BASE STRUCTURE	BED SLANT ANGLE		deg	30		
	GUIDEWAY TYPE		-	LINEAR MOTION GUIDE		
UTILITY	POWER SOURCE ⁽⁴⁾		-	3Ph-AC200~480V 50/60Hz		
	REQUIRED POWER CAPACITY		kVA	28.19		
	COMPRESSED AIR SUPPLY	PRESSURE	MPa	0.5		
		CONSUMPTION ⁽²⁾	NL/min	0		
MACHINE COLOR			-	DN Solutions 4-TONE COLOR MT DARK GRAY (5.3PB 3.0/0.4) MT MIDDLE GRAY (1.4RP 4.8/0.1) MT LIGHT GRAY (7.3B 7.8/0.4) MT BLUE (6.1PB 5.9/7.6)	STD.	SELECTIVE
			-	USER DEFINED	OPT.	
CNC CONTROL		-	DN Solutions-FANUC i Series	DEFAULT		

(1) The machine weight is measured with standard accessories and features fitted.

(2) Compressed air consumption is measured in standard specification. The actual value may differ from the specified here, depending on the optional features and peripheral equipment. Please contact DN Solutions or your regional manager.

(3) Accuracy measuring is based on DN Solutions standard.

(4) Transformer is required according to supplied power specification.

(5) This dimension indicates the maximum turning diameter of the standard machine.
When the Tool setter option is applied, interference with the workpiece may reduce the maximum turning diameter. For more information, refer to the tool setter diagram

2. MAIN SPINDLE

ITEM		UNIT	SPECIFICATION	SELECTION	
			Lynx 2600		
MAIN SPINDLE	DRIVE MECHANISM	-	BELT-DRIVE	DEFAULT	
	STANDARD CHUCK SIZE	mm	255 (10")		
	SPINDLE NOSE	ASA	A2-8		
	SPINDLE BEARING DIAMETER (FRONT)	mm	130		
	SPINDLE THROUGH HOLE DIAMETER	mm	91		
	BORE OF DRAW TUBE	mm	82		
	SPINDLE SPEED	r/min	3500		
SPINDLE MOTOR	MOTOR POWER	kW	18.5 / 15 / 15 (S6 25% / S6 40% / S1 Cont.)	DEFAULT	
	FULL POWER RANGE	r/min	438 ~ 1751 (S6 25%, S6 40%) 584 ~ 1751 (S1 Cont.)		
	MOTOR REDUCTION RATIO	-	1:1.713		
	MAX. SPINDLE TORQUE FOR TURNING	N·m	403		

3. TAIL STOCK

ITEM		UNIT	SPECIFICATION	SELECTION		
			Lynx 2600			
TAIL STOCK (CYLINDER)	DRIVING MECHANISM	-	HYD. CYLINDER	DEFAULT		
	TAIL STOCK TRAVEL	mm	700			
	MAX. QUILL THRUST FORCE	kN	7.7			
	HYD. CYLINDER AREA	cm ²	19.63			
TAIL STOCK CENTER	TAIL STOCK CENTER	LIVE CENTER	MT	#4	STD.	SLECTIVE
		DEAD CENTER	MT	#4	OPT.	
		TAILSTOCK CENTER_NONE	-	NONE		

4. TURRET

ITEM		UNIT	SPECIFICATION	SELECTION		
			Lynx 2600			
TURRET	TOOL HOLDER MOUNT TYPE	-	BASE HOLDER	DEFAULT		
	NUMBER OF TOOL STATIONS	ea	10 (10 POSITION INDEX)	STD.	SLECTIVE	
		ea	12 (12 POSITION INDEX)	OPT.		
	CURVIC COUPLING DIAMETER	mm	203	DEFAULT		
	TURRET CLAMPING FORCE	kN	68			
	TURRET INDEX TYPE	-	SERVO DRIVEN TYPE			
	TURRET INDEX MOTOR POWER	kW	2.0			
	TURRET INDEXING TIME	1-STATION SWIVEL	sec			0.15
		1-STATION INDEX	sec			0.6
		FULL STATION	sec			1.0
	OD TOOL SIZE	mm	25 x 25			
MAX. BORING BAR SIZE	mm	Ø40				

5. AXES SYSTEM

ITEM		UNIT	SPECIFICATION		SELECTION	
			Lynx 2600			
RAPID TRAVERSE RATE	X-AXIS	m/min	30		DEFAULT	
	Z-AXIS	m/min	30			
CONTINUOUS THRUST FORCE	X-AXIS	N	6207			
	Z-AXIS	N	9421			
INTERMITTENT THRUST FORCE	X-AXIS	N	9931			
	Z-AXIS	N	14132			
BALLSCREW (DIAMETER x LEAD)	X-AXIS	mm	32 x 10			
	Z-AXIS	mm	36 x 12			
SERVO MOTOR POWER	X-AXIS	kW	1.8			
	Z-AXIS	kW	3.0			
FEEDBACK SYSTEM	ENCODER	ALL AXES	-	ABSOLUTE	DEFAULT	
	LINEAR SCALE	X-AXIS	SET	1	OPT.	SELECTIVE
		Z-AXIS	SET		1	OPT.
GUIDE WAY SPAN	BED (Z-AXIS)	mm	400		DEFAULT	
	SADDLE (X-AXIS)	mm	268			
	BED (TAIL STOCK)	mm	272			

6. OIL HYDRAULIC SYSTEM

ITEM		UNIT	SPECIFICATION		SELECTION	
			Lynx 2600			
HYDRAULIC	TANK CAPACITY	L	20		DEFAULT	
	PUMP TYPE	-	VANE PUMP			
	MOTOR CAPACITY	kW	2.2			
	OPERATING PRESSURE	MPa	5			
	COOLING SYSTEM	-	RADIATOR + FAN			
	FLOW RATE	L/min	28 / 24(60 / 50Hz)			
	VISCOSITY GRADE OF OIL	-	HM32			
LUBRICATION FOR GUIDE WAY (GREASE)	TANK CAPACITY	L	0.7		DEFAULT	
	PUMP TYPE	-	PISTON PUMP			
	PUMP MOTOR POWER	W	8			
	DISCHARGE PRESSURE	MPa	5			
	DISCHARGE VOLUME	mL/min	7			
	GREASE SPECIFICATION	-	KLUEBER S88 PLUS			
	DISTRIBUTOR TYPE	-	METERING			

7. COOLANT SYSTEM

ITEM			UNIT	SPECIFICATION	SELECTION	
				Lynx 2600		
COOLANT TANK	RIGHT DISPOSAL	TANK CAPACITY	L	220	STD.	SELECTIVE
		COOLANT OIL	TYPE	WATER SOLUBLE CUTTING FLUID ⁽³⁾⁽⁴⁾		
	REAR DISPOSAL	TANK CAPACITY	L	285	OPT.	
		COOLANT OIL	TYPE	WATER SOLUBLE CUTTING FLUID ⁽³⁾⁽⁴⁾		
COOLANT PUMP FOR MAIN TURRET	PUMP 1 (1.5 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	0.4	STD.	SELECTIVE
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	0.15 / 0.1 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	60 / 70 (60 / 50 Hz)		
	PUMP 2 (4.5 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	0.75	OPT.	
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	0.45 / 0.3 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	30 / 30 (60 / 50 Hz)		
	PUMP 3 (7 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	1.1	OPT.	
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	0.7 / 0.5 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	30 / 30 (60 / 50 Hz)		
	PUMP 4 (10 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	1.1	OPT.	
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	1.0 / 0.7 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	20 / 20 (60 / 50 Hz)		
	PUMP 5 (14.5 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	2.2	OPT.	
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	1.45 / 1.0 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	35 / 35 (60 / 50 Hz)		
PUMP 6 (20 BAR) ⁽¹⁾⁽²⁾	PUMP MOTOR POWER	kW	2.2	OPT.		
	FILTRATION	Mesh	20 (TANK SCREEN FILTER)			
	MAX. PRESSURE	MPa	2.0 (60 / 50 Hz)			
	MAX. FLOW RATE	L/min	30			
COOLANT PUMP FOR OPTIONS ⁽⁵⁾	PUMP (4.5 BAR) ⁽¹⁾	PUMP MOTOR POWER	kW	0.75	OPT.	SELECTIVE
		FILTRATION	Mesh	20 (TANK SCREEN FILTER)		
		MAX. PRESSURE	MPa	0.45 / 0.3 (60 / 50 Hz)		
		MAX. FLOW RATE	L/min	30 / 30 (60 / 50 Hz)		
COOLANT OPTION	COOLANT CHILLER ⁽⁶⁾		SET	1	OPT.	SELECTIVE
	OIL SKIMMER		SET	1	OPT.	SELECTIVE
	COOLANT PRESSURE SWITCH		SET	1	OPT.	SELECTIVE
	COOLANT LEVEL SWITCH		SET	1	OPT.	SELECTIVE

(1) Measured at pump outlet with 60Hz power.

(2) Max pressure is measured using TTC tool with 2mm hole.

(3) The flow rate and the pressure of coolant specified in the document are valid for water soluble coolant.

(4) Fire safe measures must be prepared when using an oil-based coolant.

(5) The coolant pump is used for optional features such as coolant flushing, TSC of both spindle, coolant blower.

(6) Coolant chiller is highly recommended to prevent temperature rise and minimize thermal deformation when using a water-insoluble coolant or high-pressure coolant system of which the power is over 1.5 kW.

8. WORK HOLDING DEVICE

ITEM			UNIT	SPECIFICATION	SELECTION			
				Lynx 2600				
HYDRAULIC CHUCK FOR MAIN SPINDLE	STANDARD CHUCKING	CHUCK SPEC. (PLUNGER STROKE)	- (mm)	MH-210(19)	STD.	SELECTIVE		
		CYLINDER SPEC (CYLINDER STROKE)	- (mm)	SD-18582 (30)				
	OPTION CHUCKING (BIGGER CHUCK)	CHUCK SPEC. (PLUNGER STROKE)	- (mm)	HS-12 (23)	OPT.			
		CYLINDER SPEC (CYLINDER STROKE)	- (mm)	SD-18582 (30)				
	OPTION CHUCKING (WITHOUT CHUCK)	CHUCK SPEC. (PLUNGER STROKE)	- (mm)	-	OPT.			
		CYLINDER SPEC (CYLINDER STROKE)	- (mm)	SD-18582 (30)				
	SPECIAL CHUCKING*	SPECIAL CHUCK	-	Please contact DN Solutions.	OPT.			
	DUAL PRESSURE CHUCKING			-	●		OPT.	SELECTIVE
	CHUCK CLAMP CONFIRMATION			-	●		OPT.	SELECTIVE
	PRESSURE SWITCH FOR CHUCKING PRESSURE CHECK			SET	1		OPT.	SELECTIVE
	HARDENED & GROUND HARD JAWS			SET	1		OPT.	SELECTIVE
	SOFT JAW ⁽¹⁾			SET	1		STD.	DEFAULT
OTHERS	V STAND FOR SHAFT WORKPIECE		SET	Please contact DN Solutions.		OPT.	SELECTIVE	

(1) Each chuck comes with 1set of soft jaws as standard. Depends on selected chuck type, its supplying can be different.

9. CHIP DISPOSAL

ITEM			UNIT	SPECIFICATION	SELECTION	
				Lynx 2600		
CHIP CONVEYOR	RIGHT DISPOSAL	FOR STEEL	-	HINGED BELT TYPE	OPT.	SELECTIVE
		FOR CASTING	-	MAGNETIC SCRAPER TYPE	OPT.	
		FOR STEEL, CASTINGS, NONFERROUS METAL	-	ORDER MADE*	OPT.	
CHIP BUCKET	CAPACITY	FORKLIFT	L	220	OPT.	SELECTIVE
			L	300	OPT.	
			L	380	OPT.	
	ROTATION	L	220	OPT.		
		L	300	OPT.		
		L	380	OPT.		
AIR BLOWER	MAIN SPINDLE CHUCK JAW CLEANING		SET	1	OPT.	SELECTIVE
CHUCK COOLANT	MAIN SPINDLE CHUCK JAW CLEANING		SET	1	OPT.	SELECTIVE
COOLANT GUN			SET	1	OPT.	SELECTIVE
MIST COLLECTOR	INTERFACE HOLE		mm	Ø150	DEFAULT	
	PREPARATION		SET	1	DEFAULT	
	MOTOR POWER		kW	1.5	OPT.	SELECTIVE

10. OPTIONAL EQUIPMENTS

ITEM			UNIT	SPECIFICATION	SELECTION	
				Lynx 2600		
MEASUREMENT	TOOL SETTER	FOR MAIN SPINDLE MANUAL TYPE	SET	1	OPT.	SELECTIVE
		FOR MAIN SPINDLE AUTO TYPE (ELECTRIC)	SET	1	OPT.	
	IN-MACHINE WORKPIECE MEASURING SYSTEM*		SET	Please contact DN Solutions.	OPT.	
PARTS UNLOADER	PARTS CATCHER	FOR MAIN SPINDLE WITH PARTS BOX	SET (mm)	1 (Ø81 x L170, 4 kg)	OPT.	SELECTIVE
		FOR MAIN SPINDLE WITH PARTS CONVEYOR	SET (mm)	1 (Ø81 x L170, 4 kg)	OPT.	
AUTOMATIC WORK LOADING SYSTEM	BAR FEEDER INTERFACE		SET	1	OPT.	SELECTIVE
OTHERS	AIR GUN		SET	1	OPT.	SELECTIVE
	AIR LIMIT		SET	1	OPT.	SELECTIVE
	AUTOMATIC FRONT DOOR WITH SAFETY DEVICE		SET	1	OPT.	SELECTIVE
	AUTOMATIC POWER OFF		SET	1	OPT.	SELECTIVE
	SIGNAL TOWER (YELLOW, RED, GREEN)		SET	1	OPT.	SELECTIVE
	TOOL MONITORING SYSTEM		SET	1	OPT.	SELECTIVE
	THERMAL COMPENSATION	SENSOR TYPE		SET	1	OPT.
MAINTENANCE TOOL KIT	L-WRENCH AND SPANNER SET		SET	1	OPT.	SELECTIVE

11. STANDARD ACCESSORIES

ITEM			UNIT	SPECIFICATION	SELECTION	
				Lynx 2600		
FOOT SWITCH			SET	SINGLE	DEFAULT	
FRONT GUARD DOOR INTER LOCK			SET	1		
FULL ENCLOSURE CHIP AND COOLANT SHIELD			SET	1		
INSTALLATION TOOL KIT			SET	1		
LEVELING JACK SCREW & PLATES			SET	1		
MANUALS			SET	1		
SAFETY PRECAUTION NAME PLATES			SET	1		
WORK LIGHT			SET	1		

12. SPECIAL QUOTATION OPTIONS⁽¹⁾

ITEM	UNIT	SPECIFICATION	SELECTION	
		Lynx 2600		
SHOWER COOLANT	SET	●	OPT.	SELECTIVE
DUAL PRESSURE COOLANT FOR MAIN TURRET	SET	●	OPT.	SELECTIVE
AUTO. WORK MEASUREMENT_OLP40_RENISHAW	SET	●	OPT.	SELECTIVE
TSC FOR MAIN/LEFT SPINDLE_PREPARATION	SET	●	OPT.	SELECTIVE

(1) Please inquire DN Solutions R&D department about special quotation options.

< NOTE >

1. Designs and specifications are subject to change without notice.
2. All values specified in the document are valid for standard electric power conditions.(60Hz, 220V)
3. If you have any question regarding contents or select * marked content, please contact DN Solutions.
4. Machine lay-out and weight can be changed depending on options and peripheral equipment.
5. Please refer to lay-out and foundation drawing regarding installation/electric device.
6. Pressure and flow rate values of coolant and hydraulic pump are given at pump outlet.
7. Refer to the separated spec. sheets to review specification, function and option of CNC controller.