

M DENVER

CNC LATHE

AL-460, 560 DL-660, 760 (€)



FEATURES:

- This is a heavy duty precision CNC lathe that the function of output full horse power during low & high speed, most suitable for big, special parts and mold work pieces.
- The structure of bed is adopted high toughness Meehanite cast iron; stabilize properly parallel precision. Bed ways are induction hardened and ground.
- The slide way and ball screw can be lubricated automatically by central lubrication system. Oil flow and lubrication frequency can be set as desired. An alarm occurs in case of lack of oil.
- The coolant system provides high pressure coolant, with the function of strong chip flush and extends the service life of tools.
- Mechanical and electrical are designed all in one, operating and maintaining easily.



Photo shown: DL-660X2000

Optional accessories show on the picture :
3-jaw chuck 12", hydraulic turret V8, chip conveyor.

STANDARD ACCESSORIES:

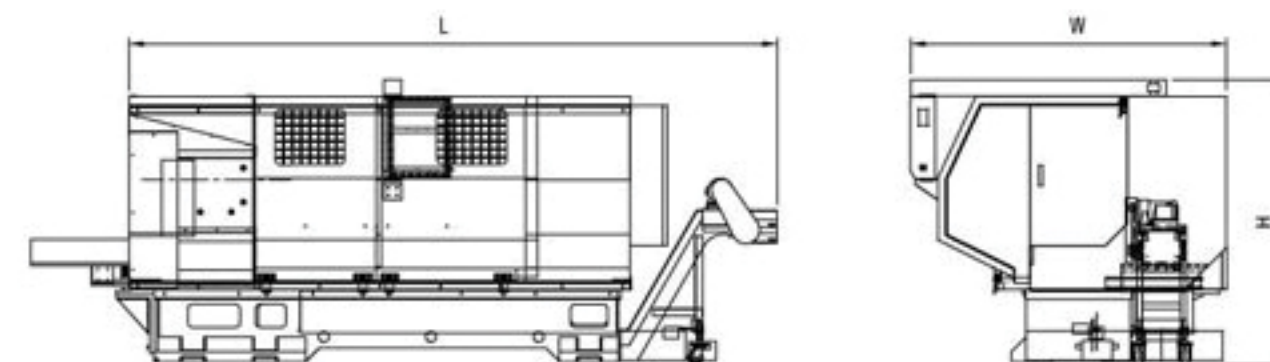
1. Controller : FANUC
2. Spindle 4-steps speed auto. change
3. Headstock oil cooler system
4. Lubrication system
5. Coolant system
6. XZ-axes with Turcite-B
7. XZ-axes C5 ball screw
8. Z-axis adjustable zero point position
9. Manual 4-way tool post
10. Manual tailstock
11. Tailstock interference protection
12. Steady rest 11 1/2"
13. Full enclosed splash guard
14. Enclosed electric cabinet
15. Heat exchanger
16. Electron hand wheel
17. Alarm lamp for working, & cutting finish
18. Halogen light
19. Dead center
20. Level pads
21. Tools & tool box
22. Operational manual

OPTIONAL ACCESSORIES:

- 1-1. Controller : LNC
- 1-2. Controller : FAGOR
2. Transformer
- 3-1. 3-jaw chuck 12"
- 3-2. 3-jaw wedge type through-hole power chuck 12"
- 3-3. 3-jaw wedge type non through-hole power chuck 12"
4. 4-jaw independent chuck 20" , 25"
- 5-1. Electronic 4-way turret H4
- 5-2. Hydraulic turret V8
6. Chip conveyor with bucket
7. Boring attachment
8. Air cooler system (for electric cabinet)
9. Tailstock hydraulic quill
10. Tailstock hydraulic with lock bolt
11. Tailstock base with auto moving

LAYOUT

MODEL	L	W	H
DL-1000	3870	2135	1930
DL-1500	4370		
DL-2000	4870		
DL-3000	5870		



SPECIFICATION

Unit: mm / inch

MODEL	DL-660 / DL-760				
	1000	1500	2000	3000	
CAPACITY	Swing over bed	660 (26") / 760 (29.92")			
	Swing over cross slide	400 (15.75") / 500 (19.69")			
	Distance between centers	1000 (39.37")	1500 (59.06")	2000 (78.74")	3000 (118")
	Width of bed	420 (16.54")			
	Spindle end face to gap	300 (11.8")			
	Length of bed	2640 (103.94")	3140 (123.62")	3640 (143.3")	4640 (182.68")
	Bed way of carriage	1 mountain way + 1 box way			
HEADSTOCK	Bed way of cross slide	Dovetail slide way			
	Spindle bore	105 (4.13")			
TRAVEL	Spindle taper	MT 5			
	Spindle nose	A2-8			
	Range of spindle speed	20-1500rpm ★ It changed by different horsepower of motor.			
	No. of spindle speed	4 steps			
FEED	X-axis travel (cross slide travel)	Manual 4-way OP- H4 - 380 (14.96") / V8- 310 (12.2") / V12-335 (13.19") ★ It changed by different turret.			
	Z-axis travel (longitudinal travel)	1000 (39.37")	1500 (59.06")	2000 (78.74")	3000 (118")
	X-axis ball screw diameter	25 mm , pitch 5 mm			
	Z-axis ball screw diameter	50 mm , pitch 10 mm			
TURRET	X-axis rapid feed	5000 mm/min (196.85" /min)			
	Z-axis rapid feed	7500 mm/min (295.28" /min)			
	X-axis cutting feed rate	0-3000 mm/min (118.11" /min)			
	Z-axis cutting feed rate	0-5000 mm/min (196.85" /min)			
TAILSTOCK	Tool station	manual 4 way (OP- H4 / V8 / V12)			
	Tool shank	25x25 (0.98" x0.98") (OP-32 x 32 (1.23"x1.23"))			
	Boring bar diameter	40 (1.57")			
	Quill diameter	105 (4.13")			
MOTOR	Quill travel	180 (7.09")			
	Taper of center	MT 5 (OP- Hydraulic : MT6)			
	Body movement	Carried by saddle			
	Quill movement	Manual (OP- Hydraulic type)			
MEASUREMENT	Spindle motor	7.5kw (10 HP) , 30 min/cont.			
	X-axis servo motor	1.3 kw (1.73 HP)			
	Z-axis servo motor	2.2 kw (2.93 HP)			
	Hydraulic pump motor	1.5 kw (2 HP)			
MEASUREMENT	Coolant pump	0.75 kw (1HP)			
	Machine size (L x W x H)(approx)	3870x2135x1930 (152" x84" x76")	4370x2135x1930 (172" x84" x76")	4870 x2135x1930 (192" x84" x76")	5870 x2135x1930 (231" x84" x76")
	N.W./G.W. (approx) (kgs)	DL-660 4600 / 4800	DL-760 5200 / 5400	5900 / 6200	7000 / 7300
	Packing size -full guard (by 1x20'container) (L x W x H)(approx)	4500x2290x2240 (177" x90" x88")	5000x2290x2240 (197" x90" x88")	5500x2290x2240 (217" x90" x88")	6500x2290x2240 (257" x90" x88")
Standard color	Upper parts: RAL-7035 light gray + Lower parts: RAL-7024 dark gray				

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AL series 460, 560 x 500, 1000, 1500, 2000

FEATURES for optional high speed spindle :

- The spindle is mounted with high precision P4 angular contact ball bearings, providing outstanding radial and thrust loads.
- The spindle is precision machined from high quality alloy steel, hardened, precision ground and dynamically balanced, making it ideal for heavy cutting.
- Quipped with high speed spindle, speed up to optional 3000 r.p.m.

Photo shown:
AL-460X1000



Optional accessories show on the picture : hydraulic 3-jaw wedge type through-hole power chuck 8", chip conveyor, full enclosed splash guard.

STANDARD ACCESSORIES

1. Controller: POU YUEN LNC-T600	1 set	9. Manual Tailstock	1 set	17. Work lamp	1 set
2. Spindle variable speed change	1 set	10. Tailstock interference protection	1 set	18. Dead center	1 set
3. Lubrication system	1 set	11. Coolant system	1 set	19. Level pads	1 set
4. Z-axes with Turcite-B	1 set	12. Semi-back splash guard	1 set	20. Tools & tool box	1 set
5. XZ-axes C5 ball screw	1 set	13. Enclosed electric cabinet	1 set	21. Operational manual	1 set
6. Z-axis adjustable zero point position	1 set	14. Heat exchanger	1 set	22. 3-jaw chuck SC-9"	1 set
7. Steady rest Ø6"	1 set	15. Electron hand wheel	1 set		
8. Quick change 4-way tool post	1 set	16. Alarm lamp for working, & cutting finish	1 set		

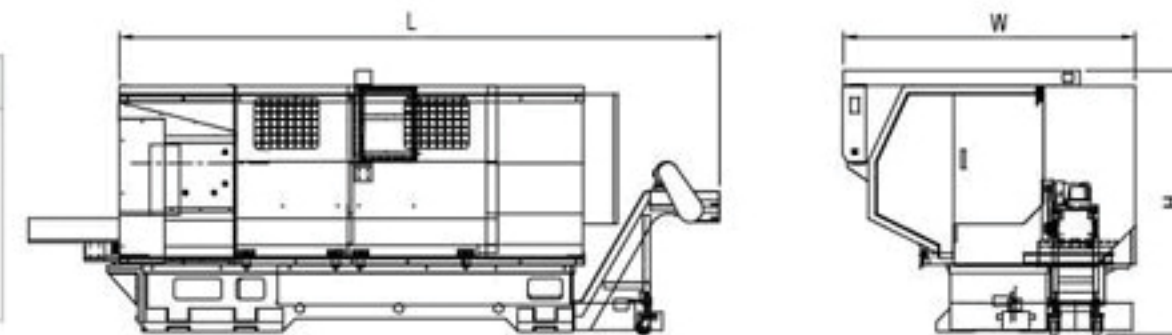
OPTIONAL ACCESSORIES

1-1. Controller :FANUC	1 set	7. Chip conveyor	1 set
1-2. Controller : FAGOR	1 set	8. Hydraulic tailstock quill	1 set
2. Transformer	1 set	9. Follow rest	1 set
3. Hydraulic 3-jaw wedge type through-hole power chuck 8"	1 set	10. 2-Axes linear scale	1 set
4. Hydraulic 3-jaw wedge type non-through-hole power chuck 8"	1 set	11. Full enclosed splash guard (instead of semi-back splash guard change)	1 set
5. Electronic 4-way turret H4	1 set	12. Gang type tool holder (instead of quick change 4-way tool post)	1 set
6. Hydraulic turret V8	1 set		

LAYOUT

MODEL	L	W	H
AL-500	2620	1400	1800
AL-1000	3120		
AL-1500	3620		
AL-2000	4120		

Length for full splash guard.



SPECIFICATION

Unit: mm / inch

MODEL	AL-460 / 560				
	500	1000	1500	2000	
CAPACITY	Swing over bed	460 (18.11") / 560 (22.05")			
	Swing over cross slide	290 (11.42") / 390 (15.35")			
	Distance between centers	500 (19.69")	1000 (39.37")	1500 (59.06")	2000 (78.74")
	Width of bed	317 (12.48")			
	Width of gap (Spindle end Face)	238 (9.37")			
	Length of Bed	1490(58.66")	1990(78.35")	2490 (98.03")	2990 (117.72")
HEADSTOCK	Spindle bore	Manual spindle (gear type) : 70 (2.76) - variable speed / OP: auto 4steps speed OP: High speed spindle : 60 (2.36") / OP: 90 (3.54") / A2-8 - variable speed			
	Spindle nose	A2-6			
	Range of spindle speed	1800 rpm / OP. 3000 r.p.m.			
	TRAVEL	X-axis travel (cross slide travel)	Manual 4-way : 230 (9.05") ★ It is changed by different turret.		
	Z-axis travel (longitudinal travel)	500 (19.67")	1000 (39.37")	1500 (59.06")	2000 (78.74")
	X-axis ball screw diameter	25 mm , pitch 5 mm			
	Z-axis ball screw diameter	50 mm , pitch 10 mm			
FEED	X-axis rapid feed	5000 mm/min (196.85" /min)			
	Z-axis rapid feed	7500 mm/min (295.28" /min)			
	X-axis cutting feed rate	0-3000 mm/min (118.11" /min)			
	Z-axis cutting feed rate	0-5000 mm/min (196.85" /min)			
TURRET	Tool station	Manual 4-way (OP: H4, V8, V12)			
	Tool shank	20x20(0.79" X 0.79")			
TAILSTOCK	Quill diameter	56 (2.2")			
	Quill travel	150 (5.9")			
	Taper of center	MT.4			
	Body movement	Carried by saddle			
	Quill movement	Manual type (OP: Hydraulic type)			
MOTOR	Spindle motor	5.5kw			
	X-Axis servo motor	0.85 Kw			
	Z-Axis servo motor	1.30 Kw			
	Coolant pump	1/8 HP			
	Hydraulic pump motor	if install hydraulic system, then 2HP			
MEASUREMENT	N.W. / G.W. (approx) (kgs)	AL-460 2600 / 2700	2900 / 3000	3200 / 3400	3500 / 3700
	Shipping dimension-Semi-guard (LxWxH) (approx)	2500x2000x2210 (98"x79"x87")	3000x2000x2210 (118"x79"x87")	3500x2000x2210 (138"x79"x87")	4000x2000x2210 (158"x79"x87")
	Shipping dimension-Full-guard (LxWxH) (approx)	3300x2000x2210 (130"x79"x87")	3800x2000x2210 (150"x79"x87")	4300x2000x2210 (170"x79"x87")	4800x2000x2210 (190"x79"x87")
	Standard Color	Upper Parts: RAL-7035 (light gray) + Base : RAL-7024 (dark gray)			

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