

AL series 460, 560 x 500, 750, 1000, 1500

FEATURES for optional high speed spindle :

- The spindle is mounted with high precision P4 angular contact ball bearings, providing outstanding radial and trust loads.
- The spindle is precision machined from high quality alloy steel, hardened, precisiog 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-460x750



Photo shown "X,Z axes MPG manual pulse generator" is option.
Photo shown "quick change tool post" is optional type.

STANDARD ACCESSORIES

*Standard accessories shall be subject to the quotation.

- | | | |
|----------------------------------|---------------------------------|---|
| 1. Controller : FANUC | 6. Quick change 4-way tool post | 11. Work lamp |
| 2. Spindle variable speed change | 7. Manual Tailstock | 12. Dead center |
| 3. Lubrication system | 8. Steady rest Ø6" | 13. Manual,level pads, tools & tool box |
| 4. Coolant system | 9. Semi-back splash guard | 14. 3-jaw chuck SC-9" |
| 5. XZ-axes C3 ball screw | 10. Heat exchanger | |

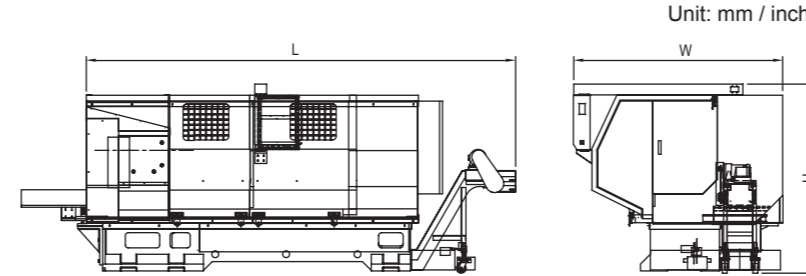
OPTIONAL ACCESSORIES

- | | | |
|-------------------------------|---|--|
| 1. Transformer | 5. Follow rest | 8. Rear chain type chip conveyor |
| 2. Hydraulic 3-jaw chuck | 6. Hydraulic steady rest | 9. X,Z axes MPG manual pulse generator |
| 3. Electronic 4-way turret H4 | 7. Full enclosed splash guard (instead of semi-back splash guard change) | (mounted on the Apron) |
| 4. Hydraulic turret V8 | | |

LAYOUT

MODEL	L	W	H
AL-500	2620	1400	1800
AL-750	2870		
AL-1000	3120		
AL-1500	3620		

Length for full splash guard.



SPECIFICATION

MODEL	AL-460 / AL-560					
	500	750	1000	1500		
CAPACITY	Swing over bed	460 (18.11") / 560 (22.05")				
	Swing over cross slide	230 (9.06") / 330 (13")				
	Distance between centers	500 (19.69")	750(29.53)	1000(39.37")	1500 (59.06")	
	Width of bed	317 (12.48")				
	Length of Bed	1490(58.66")	1740(68.5")	1990(78.35")	2490 (98.03")	
HEADSTOCK	Spindle bore, spindle speed	Manual spindle (gear type) : 70 (2.76") ,1800 rpm - variable speed OP: High speed spindle: 60 (2.36"), 3000 r.p.m. - variable speed, ※ Chuck speed must match with spindle speed 3000 rpm.				
	Spindle nose	A2-6				
	Range of spindle speed	1800 rpm / OP. 3000 r.p.m.				
TRAVEL	X-axis travel (cross slide travel)	230 (9.06") / 280 (11.03") by standard manual 4-way tool post ★X-axis travel changed by different turret.				
	Z-axis travel (longitudinal travel)	500 (19.67")	750(29.53)	1000 (39.37")	1500 (59.06")	
	X-axis ball screw diameter	25 mm , pitch 5 mm				
	Z-axis ball screw diameter	50 mm , pitch 10 mm				
	X-axis rapid feed	5000 mm/min (196.85" /min)				
FEED	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			
Tool shank		20x20(0.79" X 0.79")				
TAILSTOCK	Quill diameter	52 (2.05")				
	Quill travel	130 (5.12")				
	Taper of center	MT.4				
MOTOR	Spindle motor	7.5 kw (10HP)				
	X-Axis servo motor	1.2 kw (1.6HP)				
	Z-Axis servo motor	1.2 kw (1.6HP)				
	Coolant pump	0.1 kw (1/8 HP)				
	Optional : Hydraulic pump Motor	Optional : 1.5 kw (2HP)				
MEASUREMENT	N.W. / G.W.	AL-460 (kgs)	2600 / 2700	2750 / 2850	2900 / 3000	3300 / 3400
	(approx) (kgs)	AL-560 (kgs)	2900 / 3000	3050 / 3150	3200 / 3300	3600 / 3700
	Shipping dimension-Semi-guard (LxWxH) (approx)	L: 2500 , 2750, 3000, 3500 x W 2000x H2210 (98" , 109" , 118" , 138" x 79" x 87")				
	Shipping dimension-Full-guard (LxWxH) (approx)	L: 3300, 3550, 3800, 4300 x W2000x H2210 (130", 140", 150", 170" x 79" x 87")				
Standard Color	Upper Parts: RAL-7035 (light gray) + Base : RAL-5015 (blue)					

Note : (1) X and Z axes actual cutting travel will change when equipped with different chuck,turret, and tailstock.
(2) Specifications are subject to change without notice for improvement

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DENVER

ISO 9001

CNC LATHE

AL-460, 560 DL-660, 760 CE



Photo shown: AL-460x750



Photo shown: DL-660x2000



<http://www.topdenver.com>

FEATURES:

- This is a heavy duty precision CNC lathe that has the function of output full horse power during low & high speed, available 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.
- The coolant system delivers high pressure coolant to flush chips and extend tool service life.
- Mechanical and electrical are designed all in one.
- One-piece casting base for processing capacity to be more stable.



Photo shown: DL-660x2000

Photo shown: 3-jaw chuck 12", hydraulic turret V8, chip conveyor is options.

APPLICATION

Ideal for turning various flanges, rollers, aluminum alloy rings, valves, tire molds, and various mold bases.

STANDARD ACCESSORIES:

1. Controller : FANUC
2. Spindle 4-steps speed auto. change
3. Lubrication system
4. Coolant system
5. XZ-axes C3 ball screw
6. Manual 4 way tool post
7. Manual tailstock
8. Steady rest 11 1/2"
9. Full enclosed splash guard
10. Heat exchanger
11. Work lamp
12. Dead center
13. Manual, level pads, tools & tool box

*Standard accessories shall be subject to the quotation.

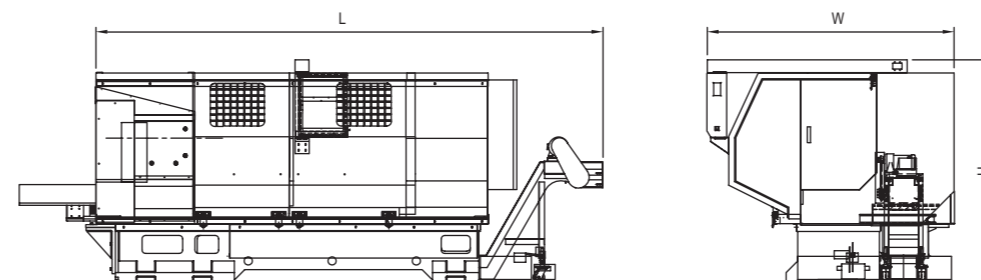
OPTIONAL ACCESSORIES:

1. Transformer
- 2-1. Hydraulic 3-jaw chuck
- 2-2. 3-jaw chuck
- 2-3. 4-jaw independent chuck
3. Electronic 4-way turret H4
4. Hydraulic turret V8 or V12
5. Follow rest
6. Hydraulic steady rest
7. Rear chain type chip conveyor
8. Boring attachment
9. Air conditioner
10. Live center
11. Tailstock hydraulic quill
12. Tailstock base with auto moving

LAYOUT

MODEL	L	W	H
DL-1000	4340	2235	1960
DL-1500	4840		
DL-2000	5340		
DL-3000	6340		
DL-4000	7340		

* Standard accessories shall be subject to the quotation.



SPECIFICATION

Unit: mm / inch

MODEL	DL-660 / DL-760 / DL-840					
	1000	1500	2000	3000	4000	
CAPACITY	Swing over bed	660 (26") / 760 (29.92") / 840 (33")				
	Swing over cross slide	400 (15.75") / 500 (19.69") / 580 (22.84")				
	Distance between centers	1000 (39.37")	1500 (59.06")	2000 (78.74")	3000 (118")	4000 (157")
	Width of bed	420 (16.54")				
	Length of bed	2640 (103.94")	3140 (123.62")	3640 (143.3")	4640 (182.68")	5640 (222")
HEADSTOCK	Spindle bore	105 (4.13")				
	Spindle nose	A2-8				
	Range of spindle speed	20-1300rpm, 4steps ★ It changed by different horsepower of motor.				
TRAVEL	X-axis travel (cross slide travel)	330 (13") / 380 (14.96") / 420 (16.54") by Manual 4-way tool post ★ X-axis travel changed by different turret.				
	Z-axis travel (longitudinal travel)	1000 (39.37")	1500 (59.06")	2000 (78.74")	3000 (118")	4000 (157")
	X-axis ball screw diameter	25 mm, pitch 5 mm				
	Z-axis ball screw diameter	50 mm, pitch 10 mm				
		★ Z-axis travel changed by different turret, chuck, tailstock.				
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				
	Tool shank	25x25 (0.98" x0.98")				
TAILSTOCK	Quill diameter	105 (4.13")				
	Quill travel	180 (7.09")				
	Taper of center	MT 6				
MOTOR	Spindle motor	11 kw (15 HP)				
	X-axis servo motor	1.8 kw (2.4 HP)				
	Z-axis servo motor	1.8 kw (2.4 HP)				
	Hydraulic pump motor	1.5 kw (2 HP)				
	Coolant pump	0.75 kw (1HP)				
MEASUREMENT	N.W. / G.W. (approx)(kgs) DL-660	4600 / 4800	5200 / 5400	5900 / 6200	7200 / 7600	8500 / 8900
	N.W. / G.W. (approx)(kgs) DL-760	4900 / 5100	5500 / 5700	6200 / 6500	7500 / 7900	8800 / 9200
	N.W. / G.W. (approx)(kgs) DL-840	5100 / 5300	5700 / 5900	6400 / 6700	7700 / 8100	9000 / 9400
	Packing size (L x W x H)(approx)	L: 4500, 5000, 5500, 6500, 7500 x W: 2290 x H: 2240 (177", 197", 217", 257", 296" x 90" x 88")				
	Standard color	Upper parts: RAL-7035 light gray + Lower parts: RAL-7024 dark gray				

Note : (1) X and Z axes actual cutting travel will change when equipped with different chuck,turret, and tailstock.
(2) Specifications are subject to change without notice for improvement