



## HEAVY DUTY CNC LATHES

### FLAT BED

Model: LA26 / 30 / 35 / 40  
LAN32 / 36 / 40  
LC30 / 35 / 40 / 45 / 50  
LD45 / 50 / 55 / 60

SWING: 660 - 1520mm (26" - 60")

B.C.: 1000 - 10400mm

FA45N / 50N / 55N / 60N  
70N / 80N / 100N

FA45H / 50H / 55H / 60H  
70H / 80H / 100H

FB70N / 80N / 90N / 100N

SWING: 1170 - 2550mm (46" - 100")

B.C.: 2150 - 14000mm

SPECIAL MADE FOR OIL INDUSTRY

**CNC-TAKANG**

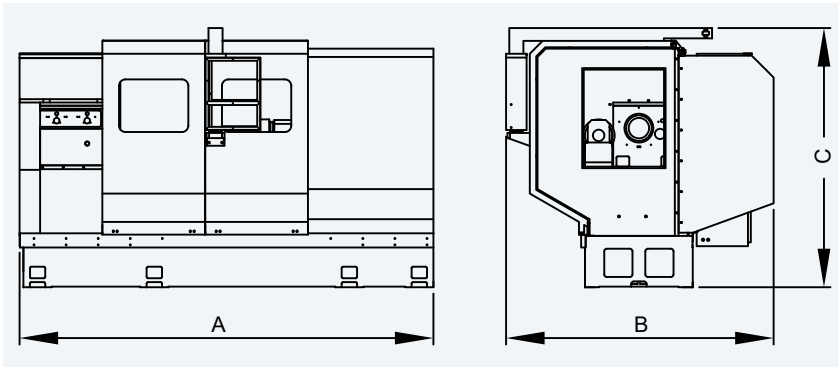
**CNC-TAKANG CO., LTD.**

MANUFACTURER & EXPORTER

GAMBAR HEAVY DUTY

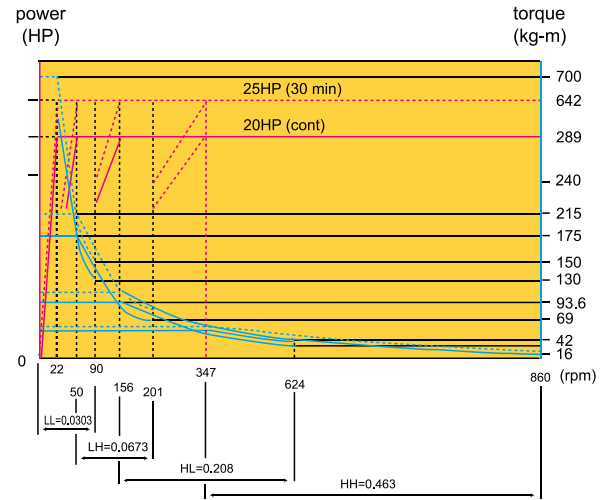
# LA Series

## ■ DIMENSION

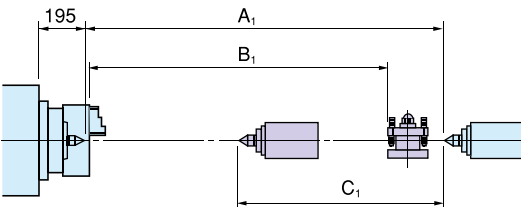


Model	A	B	C
LA x 1500	3375 (132.9")	2090 (82.3")	1920 (75.6")
LA x 2000	3875 (152.3")	2090 (82.3")	1920 (75.6")
LA x 3000	4875 (191.9")	2090 (82.3")	1920 (75.6")
LA x 4000	5875 (231.3")	2090 (82.3")	1920 (75.6")
LA x 5000	6875 (270.7")	2090 (82.3")	1920 (75.6")

## ■ SPINDLE TORQUE - POWER DIAGRAM FANUC ai15 / 7000 Motor



## ■ WORK RANGE



Model	A1	B1	C1
LA x 1500	1460 (57.5")	1320 (52")	1290 (50.8")
LA x 2000	1960 (77.2")	1820 (71.7")	1790 (70.5")
LA x 3000	2960 (116.5")	2820 (111")	2790 (109.9")
LA x 4000	3960 (155.9")	3820 (150.4")	3790 (149.2")
LA x 5000	4960 (195.3")	4820 (189.8")	4790 (188.6")



LA26 x 3000

## SPECIFICATIONS

MODEL	DESCRIPTION	LA 26	LA 30	LA 35	LA 40
Capacity	Swing over bed	660 mm (26")	770 mm (30")	890 mm (35")	1000 mm (39")
	Swing over cross slide	370 mm (14.5")	480 mm (18.9")	600 mm (23.6")	700 mm (27.6")
	Center height	330 mm (13")	385 mm (15.1")	445 mm (17.5")	500 mm (19.7")
	Distance between center	1520 mm (60"), 2030 mm (80"), 3050 mm (120")	1520 mm (60"), 2030 mm (80"), 3050 mm (120"), 4050 mm (159"), 5050 mm (199")		
	Bed width	480 mm (18.9")			
Spindle	Spindle bore Spindle nose Speed range	A2-11 (4")	A2-11 (4")	A2-11 (6")	A2-15 (9") only for 35 / 40
		L2: 25~75 rpm	L2: 25~75 rpm	L2: 25~53 rpm	L2: 15~50 rpm
		L1: 76~165 rpm	L1: 76~165 rpm	L1: 54~118 rpm	L1: 51~110 rpm
		H2: 166~540 rpm	H2: 166~540 rpm	H2: 119~386 rpm	H2: 111~260 rpm
		H1: 541~1200 rpm	H1: 541~1200 rpm	H1: 387~860 rpm	H1: 261~600 rpm
	Spindle center	MT5			
	Width of slide	280 mm (11")			
	Turret type	H4 or V8 Hydraulic			
	Tool size	H4 or V8 25 x 25			
	X axis travel	450 mm (17.7")			
	Z axis travel	1380 mm (54"), 1890 mm (74"), 2910 mm (115"), 3910 mm (154"), 4910 mm (193")			
	X axis rapid travel	6M / min dia. 32 x P5			
	Z axis rapid travel	6M / min dia. 50 x P10			
Tailstock	Quill diameter	105 mm (4.1"), OPT. Rotating quill dia. 145 mm (5.7")			
	Quill travel	200 mm (8")			
	Quill taper	MT6			
Motor	X axis servo motor	1.5M~4M FANUC aiF8 1.6 kw, 5M FANUC aiF12 3.0 kw			
	Z axis servo motor	1.5M~4M FANUC aiF12 3.0 kw, 5M FANUC aiF22 4.0 kw			
	Spindle motor	FANUC aiI15 15 / 18.5 kw, OPT 18.5 / 22 kw, 22 / 26 kw			
	Coolant pump	0.455 kw			
	Hydraulic pump	1 kw			
Machine weight	1500 mm center distance	6250 kgs	6500 kgs	6950 kgs	7500 kgs
	Each extra 500mm weight	500 kgs			

※ THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES:

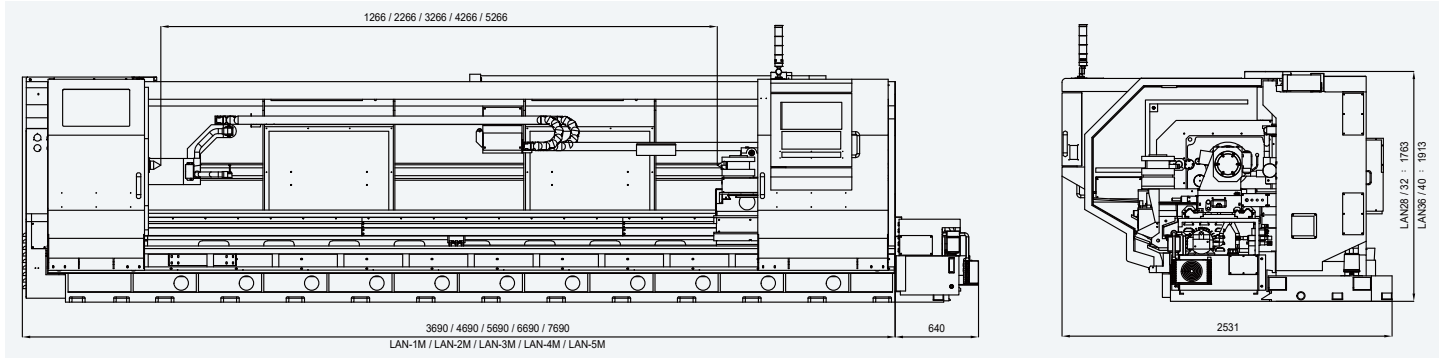
1. Fanuc control and motors
2. 4" spindle bore
3. Auto 4 steps spindle speed change
4. H4 or V8 turret
5. Auto coolant, hydraulic and lubrication system
6. Splash guard
7. Manual tailstock
8. Work light
9. Tool box with tools

### ■ OPTIONS:

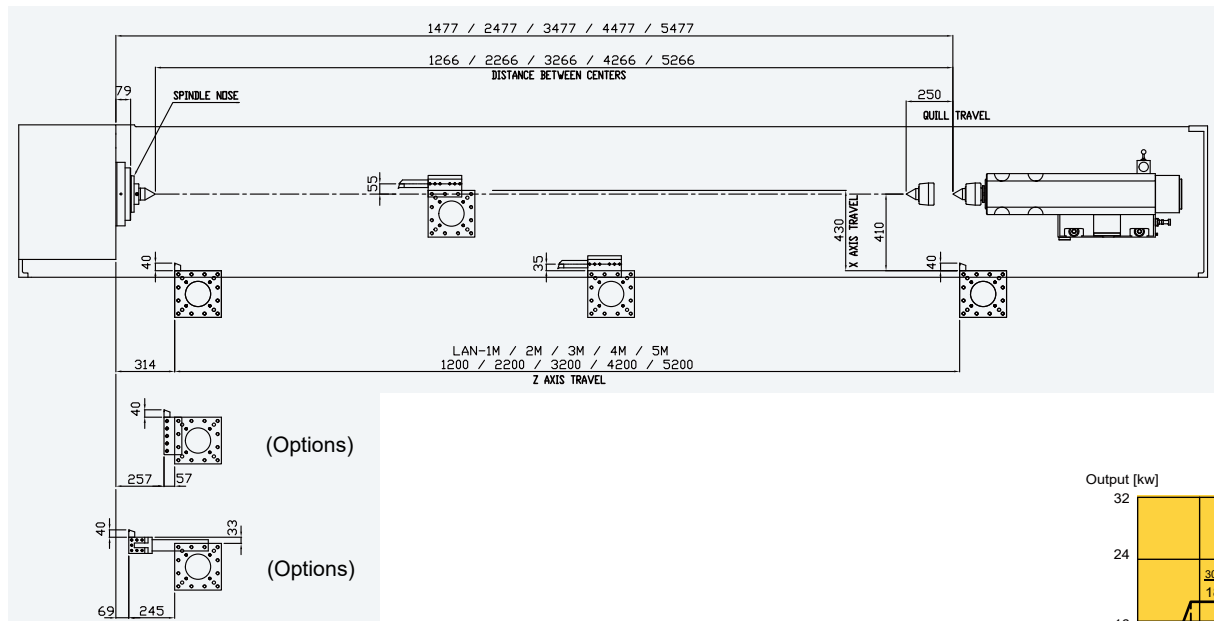
1. Extra spindle bore and motor
2. Spindle oil chiller
3. Hydraulic / manual chuck
4. C axis or Spindle 1 / 15 degree indexing
5. Driving tool turret
6. Steady rest
7. Follow rest
8. Special boring bar holder
9. Higher coolant pressure
10. Chip conveyor
11. Hydraulic tailstock with rotating quill
12. CE Mark
13. Transformer

# LAN Series

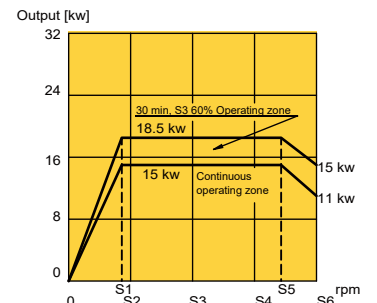
## ■ DIMENSION



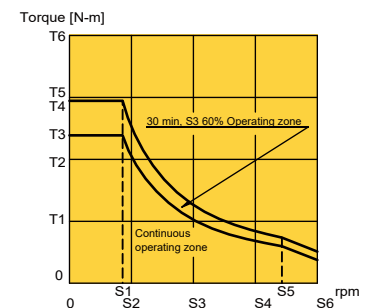
## ■ WORK RANGE



## ■ SPINDLE TORQUE - POWER DIAGRAM FANUC $\alpha$ 15/7000i Motor



For 4" & 6" spindle	speed [min <sup>-1</sup> ]						Torque [N-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1500	1750	3500	5250	6000	7000	40	80	95.5	117.78	120	160
Spindle M41 i=0.0197	30	34	69	103	118	138	2029	4059	4845.3	5975.6	6088	8118
Spindle M42 i=0.0514	77	90	180	270	308	360	779	1557	1859	2292.7	2336	3115
Spindle M43 i=0.0954	143	167	334	501	572	668	419	839	1001.1	1234.6	1258	1677
Spindle M44 i=0.2486	373	435	870	1305	1492	1740	161	322	384.1	473.7	483	644



LAN40 x 3000

## SPECIFICATIONS

MODEL	DESCRIPTION	LAN 32	LAN 36	LAN 40
Capacity	Swing over bed	820 mm (32.3")	916 mm (36.1")	1016 mm (40")
	Swing over cross slide	470 mm (18.5")	570 mm (22.4")	670 mm (26.4")
	Center height	420 mm (16.5")	470 mm (18.5")	520 mm (20.5")
	Distance between center	1200 mm (47.2"), 2200 mm (86.6"), 3200 mm (125.9"), 4200 mm (165.3"), 5200 mm (204.7")		
	Bed width	510 mm (20")		
Spindle	Spindle bore Spindle nose Speed range	A2-11 (4")	A2-11 (6")	A2-15 (9") only for 36 / 40
		L2: 30~90 rpm	L2: 30~90 rpm	L2: 12~51 rpm
		L1: 50~201 rpm	L1: 50~201 rpm	L1: 25~128 rpm
		H2: 156~624 rpm	H2: 156~624 rpm	H2: 99~276 rpm
		H1: 347~1200 rpm	H1: 347~860 rpm	H1: 137~700 rpm
	Spindle center	MT5 (OPT. MT6)		
	Width of slide	380 mm (14.9")		
	Turret type	H4 or V8 Hydraulic		
	Tool size	H4 32 x 32 or V8 32 x 32		
	X axis travel	430 mm (16.9")		
	Z axis travel	1200 mm (47"), 2200 mm (86"), 3200 mm (125"), 4200 mm (165"), 5200 mm (204")		
	X axis rapid travel	6M / min dia. 40 x P5		
	Z axis rapid travel	6M / min 1.2M~3M dia. 50 x P10, 4M~5M dia. 63 x P10		
Tailstock	Quill diameter	Static quill with dia. 160 mm (6.2"), OPT. Rotating quill		
	Quill travel	230 mm (9")		
	Quill taper	MT6		
Motor	X axis servo motor	FANUC aiF8 1.6 kw		
	Z axis servo motor	1.2M~3M FANUC aiF12 3.0 kw, 4M~5M FANUC aiF22 4.0 kw		
	Spindle motor	FANUC aiI15 15/18.5 kw, OPT 18.5/22 kw, 22/26 kw		
	Coolant pump	0.845 kw		
	Hydraulic pump	2 kw		
Machine weight	1200 mm center distance	7300 kgs	7900 kgs	8300 kgs
	Each extra 1000mm weight	1000 kgs		

※ THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES:

1. Fanuc control and motors
2. 4" spindle bore
3. Auto 4 steps spindle speed change
4. H4 or V8 turret (32 x 32, dia. 50 mm)
5. Auto coolant, hydraulic and lubrication system
6. Splash guard
7. Hydraulic tailstock with static quill MT6
8. Heat exchanger
9. Tailstock backward protection equipment
10. Work light
11. Tool box with tools

### ■ OPTIONS:

1. Extra spindle bore and motor
2. Spindle oil chiller
3. Hydraulic / manual chuck
4. C axis or Spindle 1 / 15 degree indexing
5. Driving tool turret
6. Steady rest
7. Follow rest
8. Special boring bar holder
9. Higher coolant pressure
10. Chip conveyor
11. Hydraulic tailstock with rotating quill
12. Tool presetter
13. Grinding head
14. CE mark
15. Transformer

**FEATURES :**

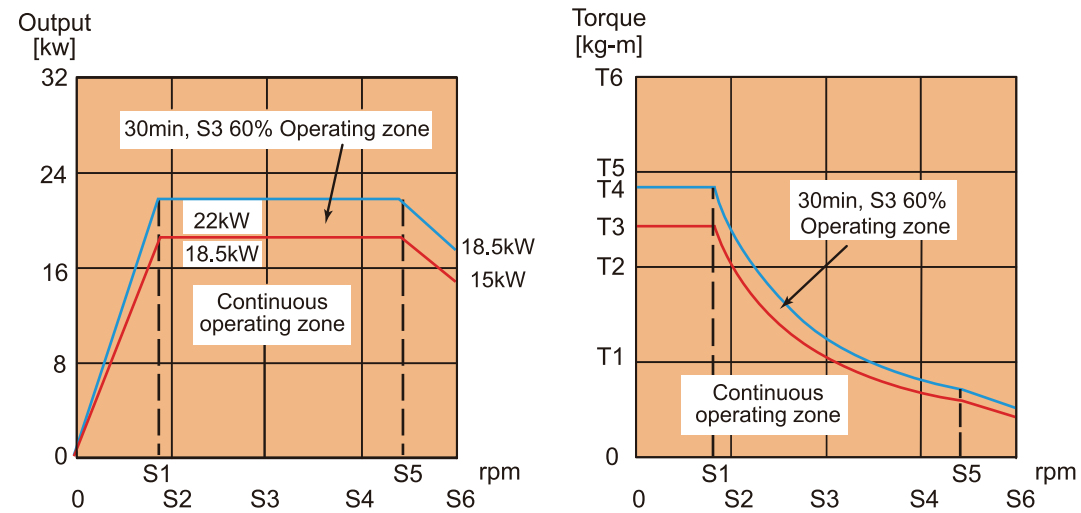
- Solid box-construction casting headstock
- Spindle speed ranges are auto changed by M code
- Infinitely variable speeds are commanded by S code
- Three (3) "V" bed ways for better rigidity
- Full power output at low spindle speed
- High torque (166 times of spindle motor torque)



LD50 x 4400

**LC SPINDLE TORQUE - POWER DIAGRAM**

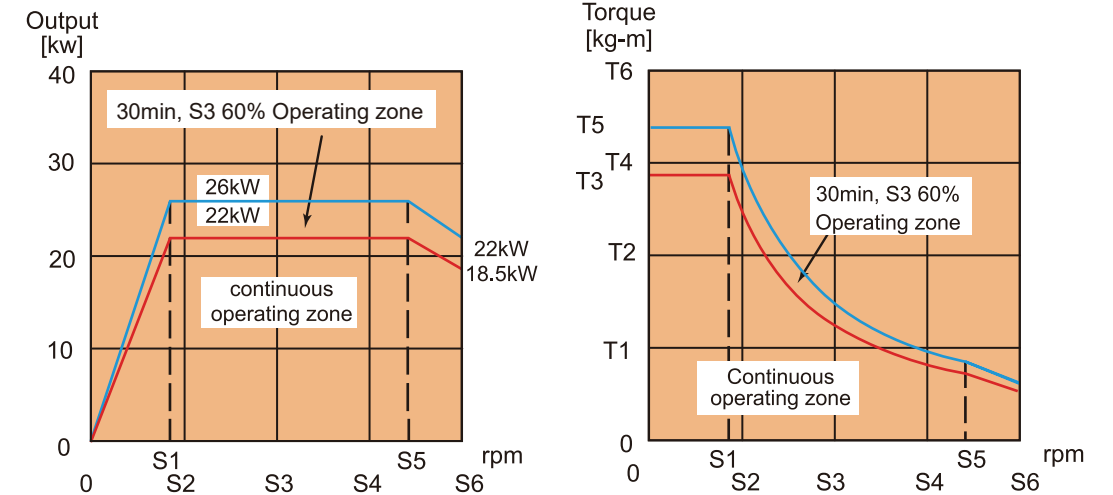
FANUC  $\alpha$ 18 / 7000 Motor



	speed [rpm]						Torque [kg-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1500	1750	3500	5250	6000	7000	5	10	12.01	14.29	15	20
Spindle M41 i = 0.0075	11	13	26	39	45	53	667	1333	1601	1904	2000	2667
Spindle M42 i = 0.0165	25	29	58	87	99	116	303	606	728	865	909	1212
Spindle M43 i = 0.045	68	79	158	236	270	315	111	222	266	317	333	444
Spindle M44 i = 0.1005	151	176	352	528	603	704	50	100	119	142	150	200

**LD SPINDLE TORQUE - POWER DIAGRAM**

FANUC  $\alpha$ 22 / 7000 Motor



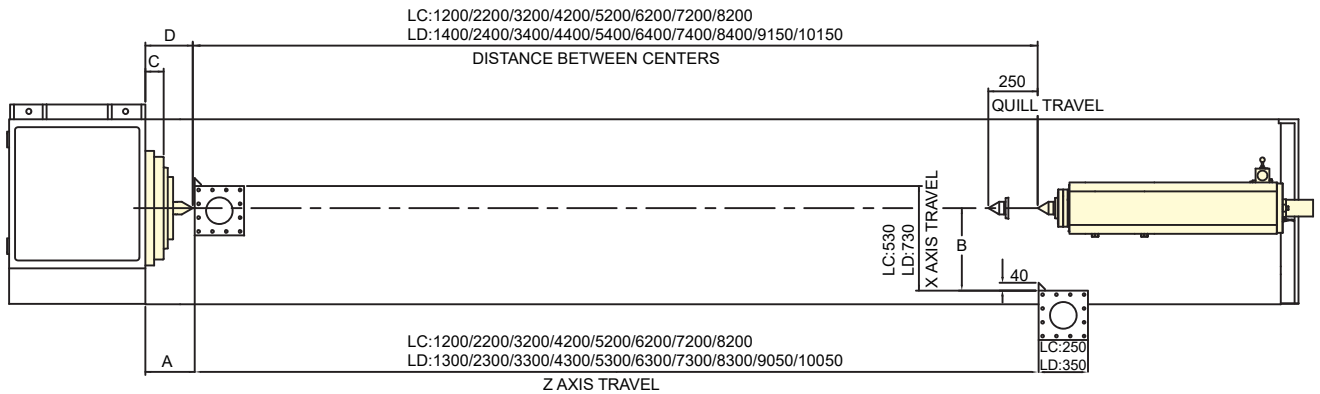
	speed [rpm]						Torque [kg-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1500	1750	3500	5250	6000	7000	5	10	14.3	15	16.9	20
Spindle M41 i = 0.006	9	11	21	32	36	42	833	1667	2380	2500	2813	3333
Spindle M42 i = 0.0155	23	27	54	81	93	109	323	645	921	968	1089	1290
Spindle M43 i = 0.0375	56	66	131	197	225	263	133	267	380	400	450	533
Spindle M44 i = 0.0975	146	171	341	512	585	683	51	103	146	154	173	205

# LC / LD Series



**LC30 x 2200**

## WORK RANGE Unit: mm



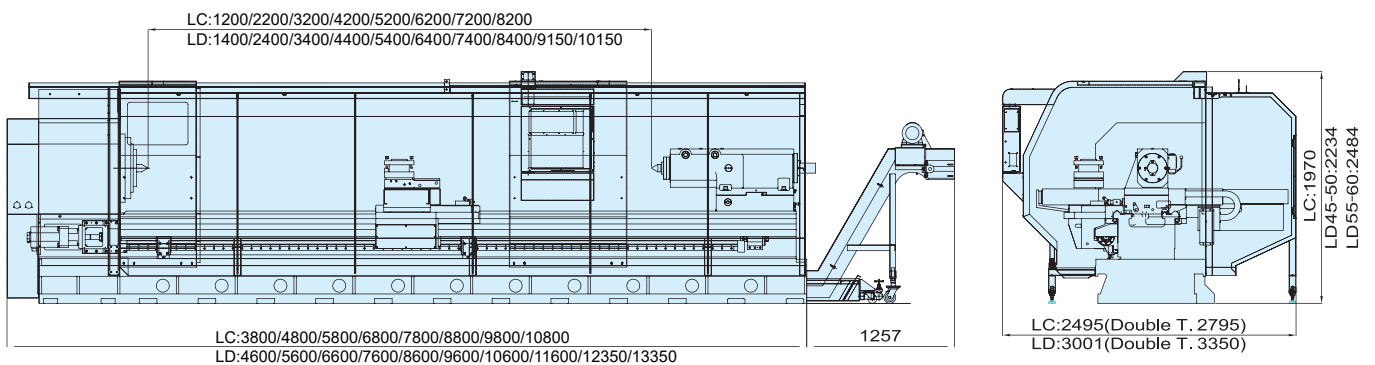
LC	C	D
6"	96	243
9"	87	228
12"	93	241

LD	C	D
6"	81	227
9"	82	222
12"	88	235

LC	A	B
30	250	518
45	170	518
40	170	540

LD	A	B
45	260	721
60		

## DIMENSION Unit: mm



## SPECIFICATIONS

MODEL	DESCRIPTION	LC 30	LC 35	LC 40	LC 45	LC 50	LD 45	LD 50	LD 55	LD 60		
Capacity	Swing over bed	770 mm (30")	895 mm (35")	1020 mm (40")	1145 mm (45")	1270 mm (50")	1135 mm (45")	1265 mm (50")	1395 mm (55")	1520 mm (60")		
	Swing over cross slide	350 mm (13.8")	480 mm (18.9")	610 mm (24")	735 mm (28.9")	870 mm (34.2")	720 mm (28.3")	850 mm (33.5")	980 mm (38.6")	1110 mm (43.7")		
	Center height	390 mm (15.3")	455 mm (18")	520 mm (20.5")	585 mm (23")	650 mm (25.6")	585 mm (23")	650 mm (25.6")	715 mm (28.1")	780 mm (30.7")		
	Distance between centers	1200 (47.2") / 2200 (86.6") / 3200 (126") / 4200 (165.4") / 5200 (204.7") / 6200 (244.1") / 7200 (283.5") / 8200 mm (322.8")					1400 (55.12") / 2400 (94.5") / 3400 (132.8") / 4400 (173.23") / 5400 (212.6") / 6400 (252") / 7400 (291.34") / 8400 (330.7") / 9150 (360.24") / 10150 mm (399.6")					
	Bed width / Auxiliary guide	560 mm (22") / 710 mm (27.95")					700 mm (27.56") / 850 mm (33.5")					
Spindle	Spindle speeds	Spindle nose										
		A2-11 (6")	11-600 rpm (Opt. 12-800 rpm)					9-600 rpm (Opt. 12-800 rpm)				
		A2-15 (9")	11-450 rpm (Opt. 12-600 rpm)					9-450 rpm (Opt. 12-600 rpm)				
		A2-20 (12", 14.5")	11-400 rpm (12")	11-400 rpm (12"), 11-300 rpm (14.5")				9-400 rpm (12"), 9-300 rpm (14.5")				
		A2-28 (16")						6-250 rpm				
		A2-28 (21")						6-220 rpm				
	Spindle center	MT6										
	Width of cross slide	380 mm (15")					420 mm (16.5")					
Width of carriage	885 mm (34.8")					950 mm (37.4")						
Turret	Turret	H4-250 or V8 Hydraulic					H4-350 or V8 Hydraulic					
	Tool size	32 x 32 mm (1.25")					32 x 32 mm (1.25")					
	X axis travel	530 mm (20.9")				630 mm (24.8")	730 mm (28.7")					
	Z axis travel	1200 mm (47.2") - 8200 mm (322.8")					1-8M: 1300 mm (51.18") - 8300 mm (326.77") 9-10M: 9150 (360.24") - 10150 mm (399.6")					
	X axis rapid travel	6M / min dia. 40 mm x P5										
	Z axis rapid travel	6M / min, 1M-5M (dia. 63 mm x P10), 6M-7M (dia. 80 mm x P10), 8M-10M ( Rack and Pinion Driver)										
	Tailstock	Tailstock quill diameter	Dia. 185 mm (7.3") Rotating quill, Opt. dia. 250 mm (9.8") / 350 mm (13.7")									
	Tailstock quill travel	250 mm (9.84"), Opt. 300 mm for tailstock quill diameter 350 mm										
	Tailstock center	MT6										
Motor	X axis servo motor	FANUC aiF22 4 kw										
	Z axis servo motor	1-4M FANUC aiF22 4 kw, 5-7M FANUC aiF22 4 kw (Gear box) 8-10M aiF40 6 kw (Rack and Pinion Driver)										
	Spindle motor	FANUC ail 18 18.5 / 22 kw (Opt. 22 / 26 kw, 30 / 37 kw, 37 / 45 kw)					FANUC ail 22 22 / 26 kw (Opt. 30 / 37 kw, 37 / 45 kw, 45 / 55 kw)					
	Lubricant pump motor	25 W										
	Coolant pump motor	0.845 kw										
	Hydraulic pump motor	2.25 kw										
Machine Weight	1000 mm center distance	10200 kgs	10600 kgs	11000 kgs	11400 kgs	11800 kgs	16400 kgs	17000 kgs	17600 kgs	18200 kgs		
	Each extra 1000 mm weight	1200 kgs					1500 kgs					

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES

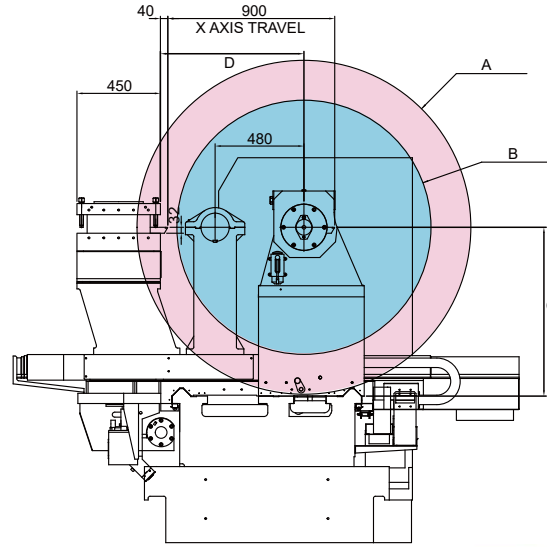
1. Fanuc control and motors
2. 6" spindle bore
3. H4 or V8 hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Box way on cross slide
6. Splash guard
7. Hydraulic tailstock with rotating quill
8. Chip conveyors  
(auger for front and chain for rear)
9. Work light
10. Tool box with tools

### ■ OPTIONS

1. Extra spindle bore, motor and speeds
2. Spindle oil chiller
3. Hydraulic / manual chuck
4. Face plate
5. C axis or Spindle 5 / 15 degree indexing
6. Y axis
7. Driving tool turret
8. Steady rest, follow rest  
(Hydraulic or Manual)
9. Special boring bar holder
10. Heavy duty milling attachment
11. Grinding head on turret  
or cross slide
12. Tool presetter
13. Higher coolant pressure
14. Cutting pass through steady rest  
equipment (LC only)
15. CE Mark
16. Transformer

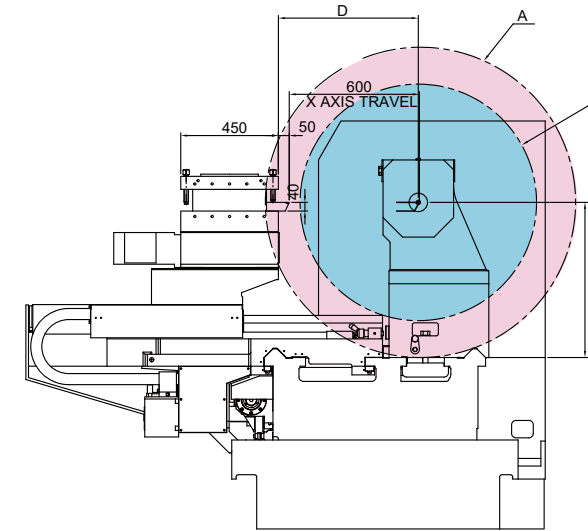


■ WORK RANGE (Full length cross slide) Unit: mm



Model	A	B	C	D
FA45N / H	1170	720	585	685
FA50N / H	1300	850	650	685
FA55N / H	1430	980	715	685
FA60N / H	1560	1110	780	775
FA70N / H	1800	1370	910	775
FA80N / H	2050	1630	1040	865

■ WORK RANGE (Half length cross slide) Unit: mm



Model	A	B	C	D
FA45N / H	1170	845	585	539
FA50N / H	1300	965	650	592
FA55N / H	1430	1090	715	645
FA60N / H	1560	1215	780	698
FA70N / H	1800	1465	910	804
FA80N / H	2050	1715	1040	910

**FLAT BED HEAVY DUTY TURNING**  
for  
**Oil Country**  
&  
**Roller Turning**



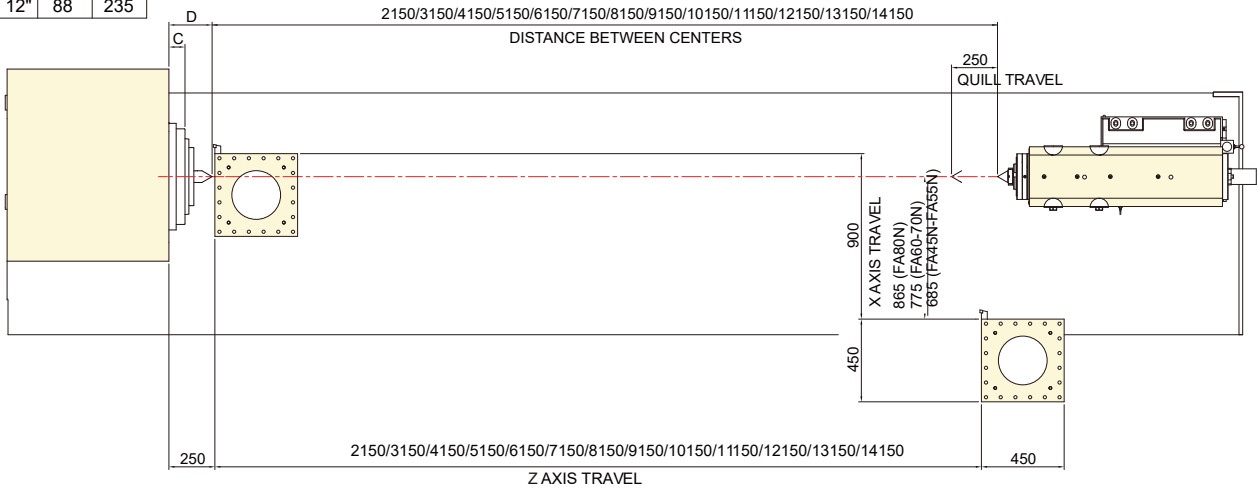
4 Bed Ways  
With Half Length Saddle



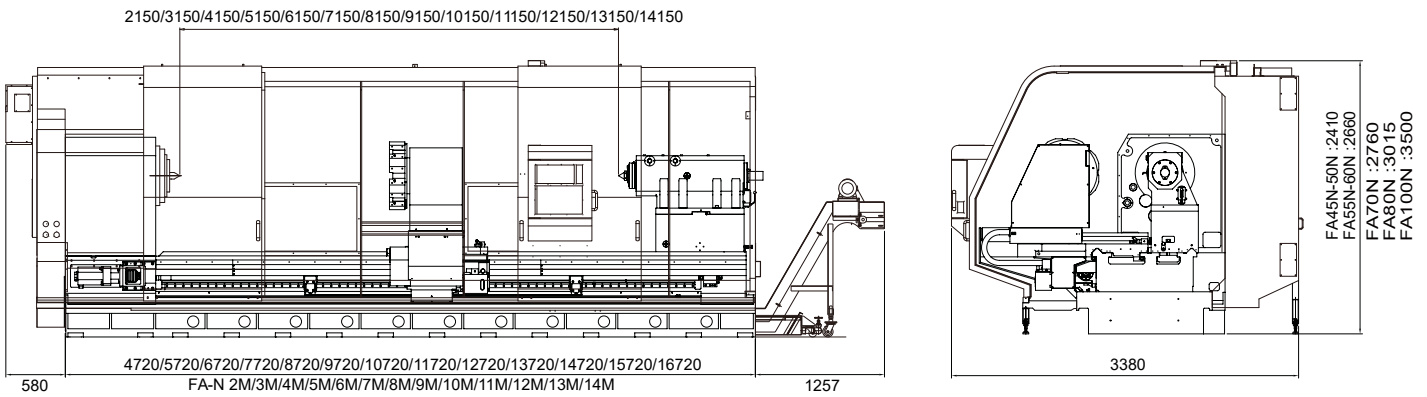
FA60N x 4150

## WORK RANGE (Full length cross slide) Unit: mm

	C	D
6"	81	225
9"	82	227
12"	88	235

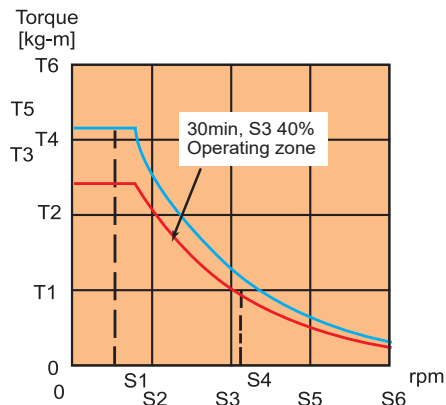
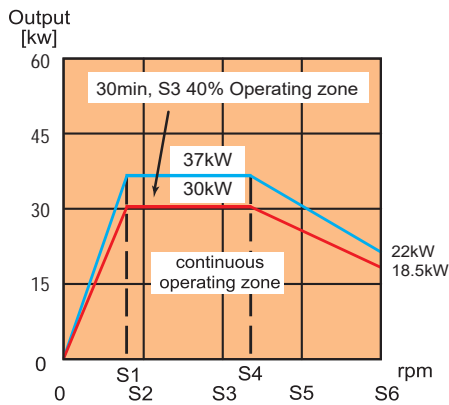


## FA-N DIMENSION Unit: mm



## FA-N SPINDLE TORQUE - POWER DIAGRAM

FANUC  $\alpha$ 130 / 6000 Motor

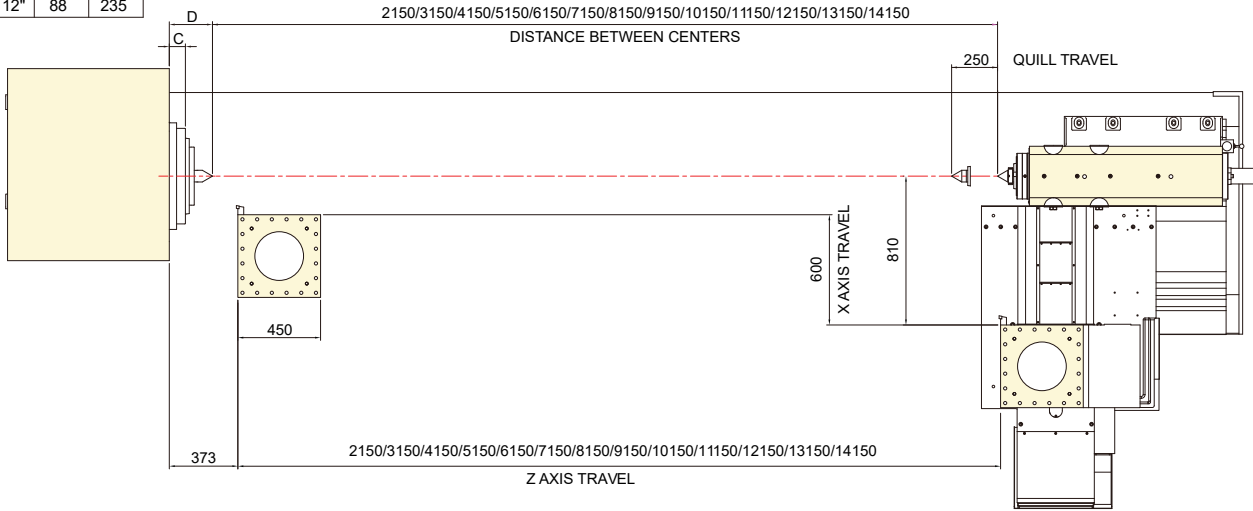


	SPEED [rpm]						TORQUE [kg-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1150	1500	3000	3500	4500	6000	10	20	25.41	30	31.34	40
Spindle M41 i = 0.006	7	9	18	21	27	36	1667	3333	4234	4448	5222	6667
Spindle M42 i = 0.0155	18	23	47	54	70	93	645	1290	1639	1935	2021	2581
Spindle M43 i = 0.0375	43	56	113	131	169	225	267	533	677	800	835	1067
Spindle M44 i = 0.0975	112	146	293	341	439	585	103	205	260	308	321	410

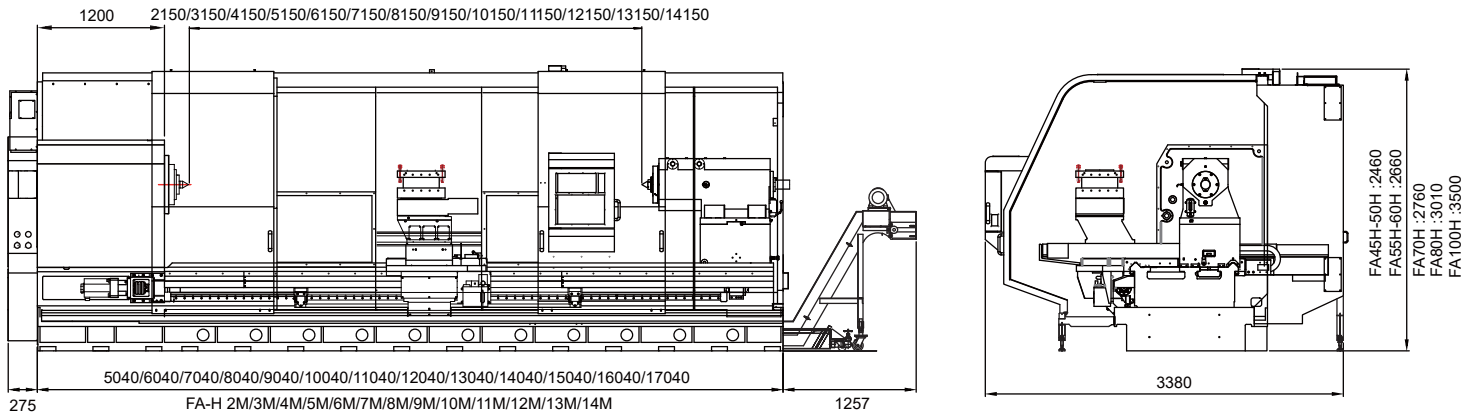
# FA-N / H Series

## WORK RANGE (Half length cross slide) Unit: mm

	C	D
6"	81	225
9"	82	227
12"	88	235

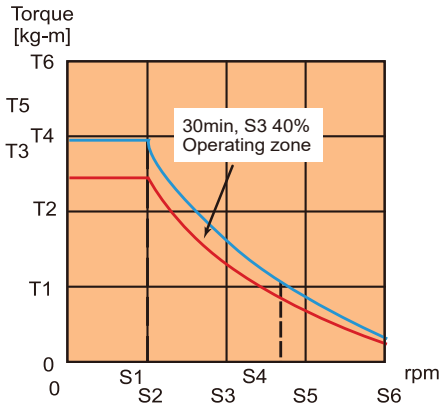
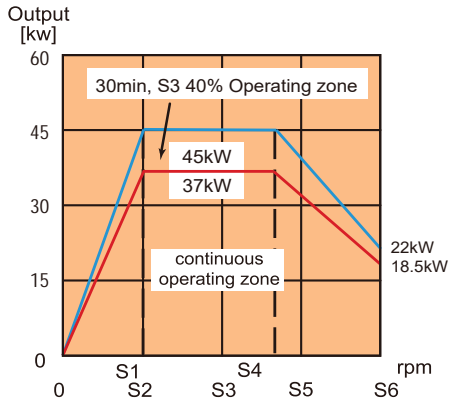


## FA-H DIMENSION Unit: mm



## FA-H SPINDLE TORQUE - POWER DIAGRAM

FANUC *ai140* / 6000 Motor

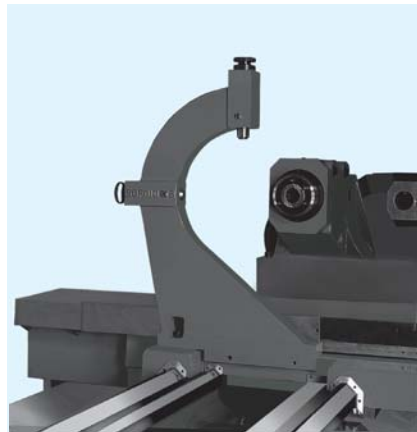


	SPEED [rpm]					TORQUE [kg-m]					
	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	1500	3000	4000	4500	6000	10	20	24.03	29.22	30	40
Spindle M41 i = 0.00359	5	11	14	16	22	2786	5571	6692	8139	8357	11142
Spindle M42 i = 0.00794	12	24	32	36	48	1259	2519	3025	3680	3778	5038
Spindle M43 i = 0.0227	34	68	91	102	136	441	881	1058	1287	1322	1762
Spindle M44 i = 0.05025	75	151	201	226	302	199	398	478	581	597	796

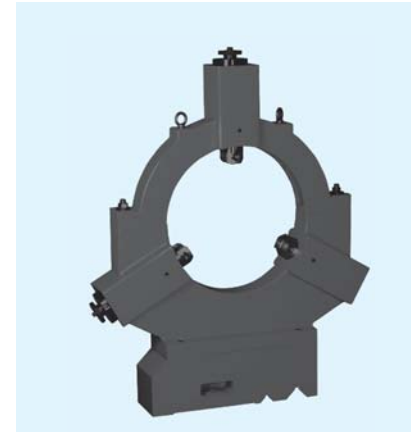
## ■ OPTIONS



Rotating Quill Tailstock (STD)



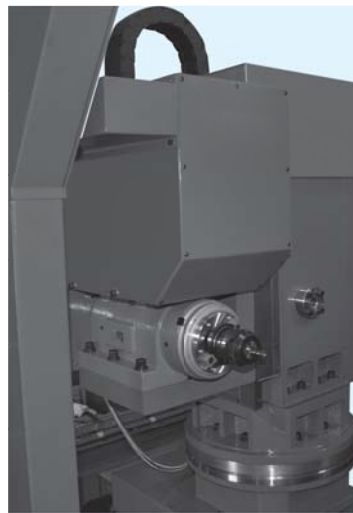
Follow Rest (3 V Bed Way)



Steady Rest



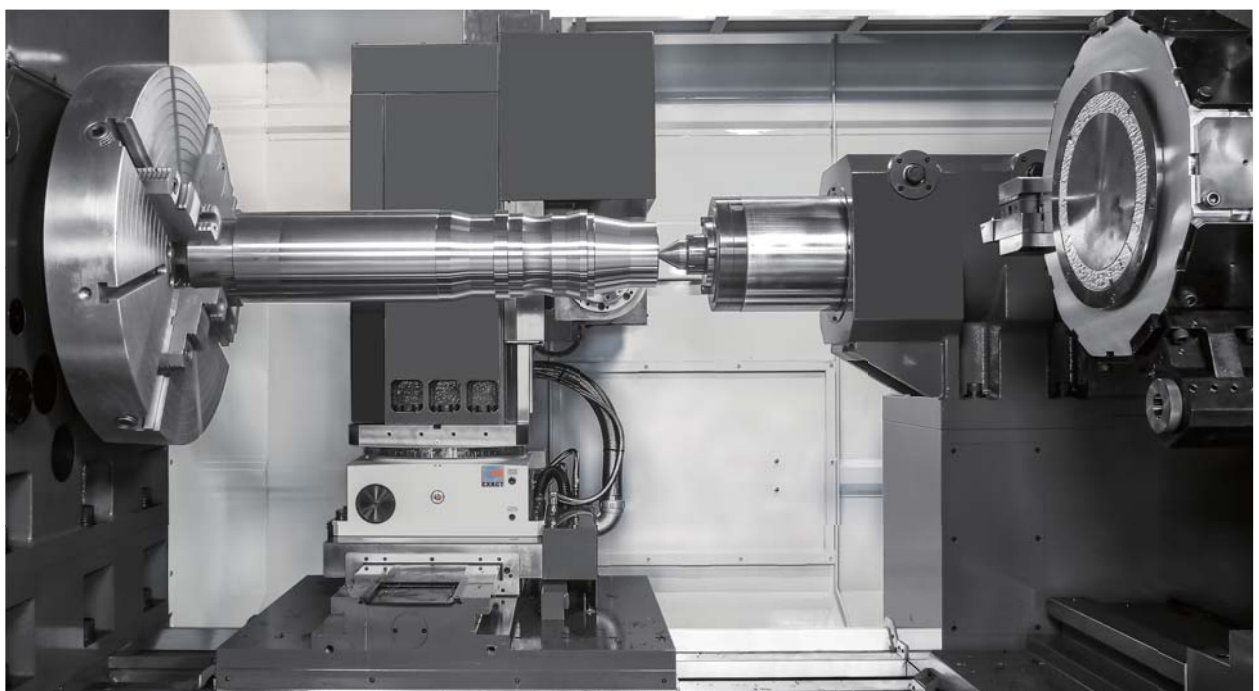
Driving Tool Turret



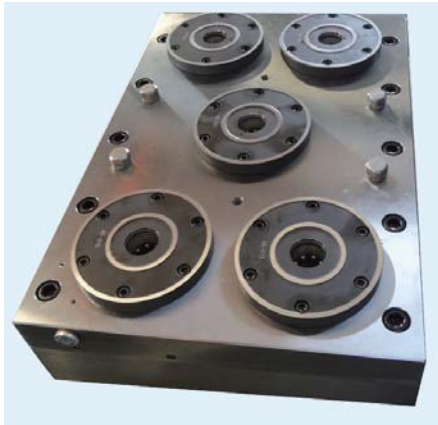
B Axis



Hyd. Steady Rest



Y Axis with Indexing Table



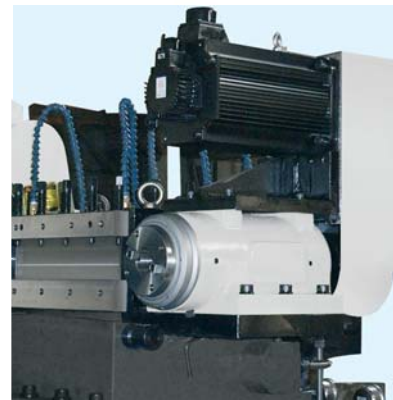
**Quick Change System**



**Hydraulic Disk Brake and Rear Chuck Adaptor**



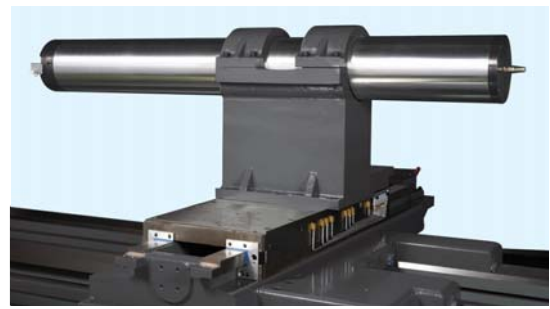
**Grinding Head**



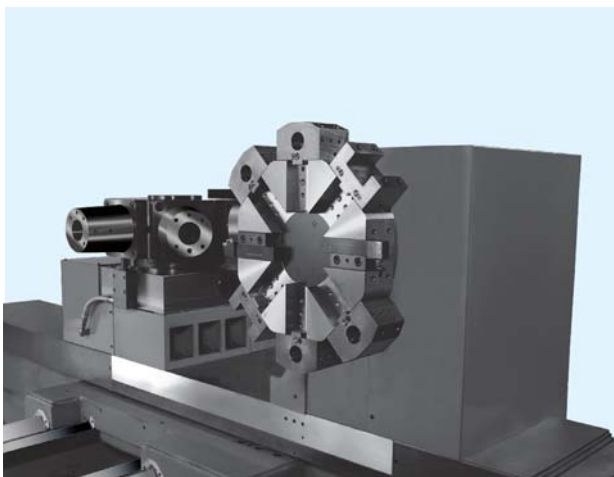
**Heavy Cutting Milling Head**



**Roller Support Bracket**



**Boring Bar and Holder**



**Double Turrets**



**C Axis Gear System with Reducer**

# FA-N Series

## SPECIFICATIONS

MODEL	DESCRIPTION	FA45N	FA50N	FA55N	FA60N	FA70N	FA80N	FA100N	
Capacity	Swing over bed	1170 mm (46")	1300 mm (51")	1430 mm (56")	1560 mm (61")	1800 mm (70")	2050 mm (80")	2550 mm (100.3")	
	Swing over cross slide (Half length)	845 mm (33.2")	965 mm (38")	1090 mm (42.9")	1215 mm (47.8")	1465 mm (57.6")	1715 mm (67.5")	2215 mm (87.2")	
	Swing over cross slide (Full length)	720 mm (28.3")	850 mm (33.5")	980 mm (38.6")	1110 mm (43.7")	1370 mm (53.9")	1630 mm (64.1")	2150 mm (84.6")	
	Center Height	585 mm (23")	650 mm (25.6")	715 mm (28.1")	780 mm (30.7")	910 mm (35.8")	1040 mm (40.9")	1250 mm (49.2")	
	Distance between centers	2150 - 14150 mm (84") - (557")							
	Bed width / Auxiliary guide	1020 mm (40") / 1170 mm (46")							
	Width of cross slide	420 mm (16.5")							
	Width of carriage	950 mm (37.4")							
Spindle	Spindle nose	A2-11 (6") / A2-15 (9") / A2-20 (12", 14") – FA45N - FA100N A2-28 (16") – FA55N - FA100N A2-28 (21") – FA60N - FA100N							
	Spindle speeds	A2-11 153 mm (6")	9-600 rpm ( Opt. 12-800 rpm )						
		A2-15 230 mm (9")	9-450 rpm ( Opt. 12-600 rpm )						
		A2-20 305 mm (12")	9-400 rpm						
		A2-20 369 mm (14")	9-300 rpm						
		A2-28 408 mm (16")	6-250 rpm						
	A2-28 534 mm (21")	6-220 rpm							
Spindle center	MT6								
Turret	Turret	H4-450 Servo or V8 Hydraulic							
	Tool size	32 x 32 mm (1.25")							
	X axis travel (Half length cross slide)	600 mm (23.6")							
	X axis travel (Full length cross slide)	900 mm (35.4")							
	Z axis travel	2150 mm (45.3") – 14150 mm (557")							
	X axis rapid travel	6M / min, dia. 40 mm x P5							
	Ball screw dia.	6M / min, 1-5M (dia. 63 mm x P10); 5M / min, 6-7M (dia. 80 mm x P10) 5M / min, 8-14M (Rack and Pinion Driver)							
	Z axis rapid travel	6M / min, 1-5M (dia. 63 mm x P10); 5M / min, 6-7M (dia. 80 mm x P10) 5M / min, 8-14M (Rack and Pinion Driver)							
Tailstock	Tailstock quill diameter	Dia. 250 mm (9.84") Opt. dia. 350 mm (13.7")							
	Tailstock quill travel	250 mm (9.84") / Opt. 300 mm (11.8")							
	Tailstock center	MT6							
Motor	X axis servo motor	FANUC aiF22 4kw							
	Z axis servo motor	2-3M FANUC aiF22 4 kw, 4-7M FANUC aiF22 4 kw (Gear Box) 8-14M FANUC aiF40 6 kw (Rack and Pinion Driver)							
	Spindle motor	FANUC ail 30 30 / 37 kw (40 / 50 HP)							
	Lubricant pump motor	25 W							
	Coolant pump motor	1.2 kw							
	Hydraulic pump motor	2.25 kw							
Machine Weight	2000 mm center distance	17500 kgs	18000 kgs	18600 kgs	19200 kgs	20400 kgs	21600 kgs	25500 kgs	
	Each extra 1000 mm weight	1500 kgs							

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES

1. Fanuc control and motors
2. 6" spindle bore
3. H4 or V8 hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Box way on cross slide
6. Splash guard
7. Hydraulic tailstock with rotating quill
8. Front and rear chip conveyor
9. Work light
10. Tool box with tools

### ■ OPTIONS

1. Extra spindle bore, motor and speeds
2. Spindle oil chiller
3. Hydraulic / manual chuck
4. Face plate
5. C axis or Spindle 5 / 15 degree indexing
6. Y axis
7. Driving tool turret
8. Steady rest, follow rest (Hydraulic or Manual)
9. Special boring bar holder
10. Heavy duty milling attachment
11. Grinding head on turret or cross slide
12. Tool presetter
13. Higher coolant pressure
14. CE Mark
15. Transformer

## SPECIFICATIONS

MODEL	DESCRIPTION	FA45H	FA50H	FA55H	FA60H	FA70H	FA80H	FA100H
Capacity	Swing over bed	1170 mm (46")	1300 mm (51")	1430 mm (56")	1560 mm (61")	1800 mm (70")	2050 mm (80")	2550 mm (100.3")
	Swing over cross slide (Half length)	845 mm (33.2")	965 mm (38")	1090 mm (42.9")	1215 mm (47.8")	1465 mm (57.6")	1715 mm (67.5")	2215 mm (87.2")
	Swing over cross slide (Full length)	720 mm (28.3")	850 mm (33.5")	980 mm (38.6")	1110 mm (43.7")	1370 mm (53.9")	1630 mm (64.1")	2150 mm (84.6")
	Center Height	585 mm (23")	650 mm (25.6")	715 mm (28.1")	780 mm (30.7")	910 mm (35.8")	1040 mm (40.9")	1250 mm (49.2")
	Distance between centers	2150 – 14150 mm (84") - (557")						
	Bed width / Auxiliary guide	1020 mm (40") / 1170 mm (46")						
	Width of cross slide	420 mm (16.5")						
	Width of carriage	950 mm (37.4")						
Spindle	Spindle nose	A2-15						
	Spindle bore	Dia. 200 mm (8")						
	Spindle speeds	5-225 rpm						
	Spindle center	MT6						
Turret	Turret	H4-450 Servo or V8 Hydraulic						
	Tool size	32 x 32 mm (1.25")						
	X axis travel (Half length cross slide)	600 mm (23.6")						
	X axis travel (Full length cross slide)	900 mm (35.4")						
	Z axis travel	2150 mm (45.3") – 14150 mm (557")						
	X axis rapid travel Ball screw dia.	6M / min, dia. 40 mm x P5						
	Z axis rapid travel Ball screw dia.	6M / min, 1-5M (dia. 63 mm x P10); 5M / min, 6-7M (dia. 80 mm x P10) 5M / min, 8-14M (Rack and Pinion Driver)						
Tailstock	Tailstock quill diameter	350 mm (13.7")						
	Tailstock quill travel	300 mm (11.8")						
	Tailstock center	MT6						
Motor	X axis servo motor	FANUC αiF22 4 kw						
	Z axis servo motor	2-3M FANUC αiF22 4 kw, 4-7M FANUC αiF22 4 kw (Gear Box) 8-14M FANUC αiF40 6 kw (Rack and Pinion Driver)						
	Spindle motor	FANUC αil 40 37 / 45 kw (50 / 60 HP)						
	Lubricant pump motor	25 W						
	Coolant pump motor	1.2 kw						
	Hydraulic pump motor	2.25 kw						
Machine Weight	2000 mm center distance	18500 kgs	19000 kgs	19600 kgs	20200 kgs	21400 kgs	22600 kgs	26500 kgs
	Each extra 1000 mm weight	1500 kgs						

※ THE SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES

1. Fanuc control and motors
2. 8" spindle bore
3. H4 or V8 hydraulic turret
4. Auto coolant, hydraulic and lubrication system
5. Box way on cross slide
6. Splash guard
7. Hydraulic tailstock with rotating quill
8. Front and rear chip conveyor
9. Work light
10. Tool box with tools

### ■ OPTIONS

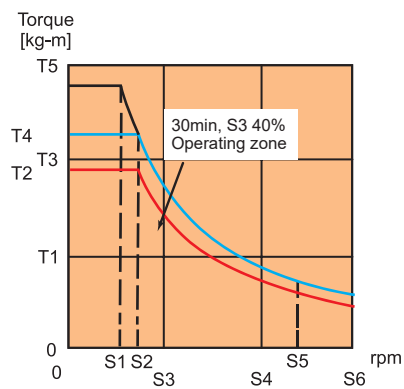
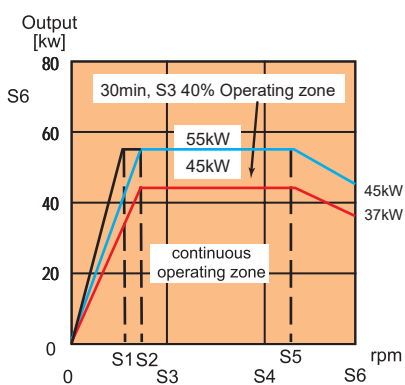
1. Extra spindle bore, motor and speeds
2. Spindle oil chiller
3. Hydraulic / manual chuck
4. Face plate
5. C axis or Spindle 5 / 15 degree indexing
6. Y axis
7. Driving tool turret
8. Steady rest, follow rest (Hydraulic or Manual)
9. Special boring bar holder
10. Heavy duty milling attachment
11. Grinding head on turret or cross slide
12. Tool presetter
13. Higher coolant pressure
14. CE Mark
15. Transformer



FB90N x 10000

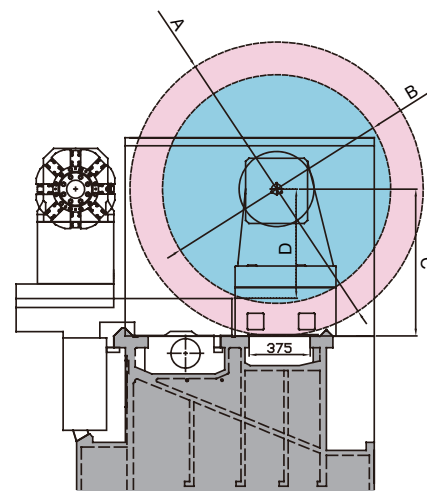
■ SPINDLE TORQUE - POWER DIAGRAM

FANUC αi150 / 4500 Motor



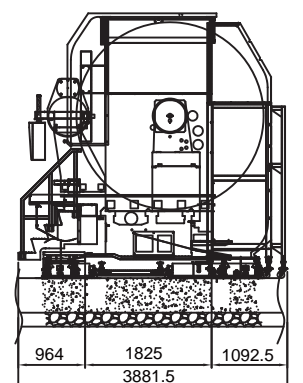
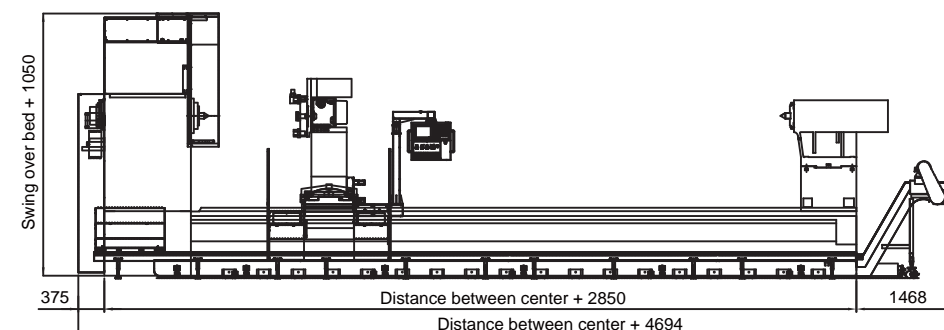
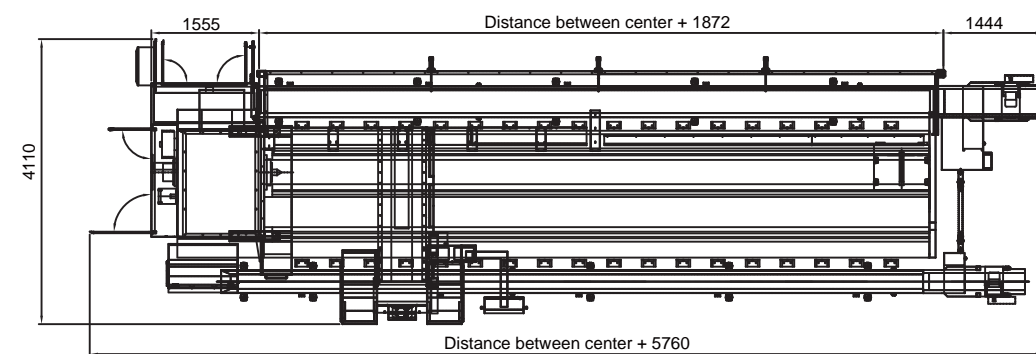
	SPEED [rpm]						TORQUE [kg-m]					
	S1	S2	S3	S4	S5	S6	T1	T2	T3	T4	T5	T6
Motor	950	1150	1500	3000	3500	4500	20	37	40	46	55	60
Spindle M41 i = 0.008	7.6	9.2	12	24	28	36	1391	2598	2782	3171	3838	4166
Spindle M42 i = 0.023	22.1	26.7	34.9	69.8	81.4	93	484	904	968	1103	1135	1449
Spindle M43 i = 0.060	57.6	69.7	90.0	181.8	212.1	272.7	185	346	371	423	512	555
Spindle M44 i = 0.178	169.6	205.4	267.9	535.7	625	803.6	63	117	125	142	172	187

■ WORK RANGE Unit: mm  
(Half length cross slide)



Model	A	B	C	D
FB70N	1800	1400	900	610
FB80N	2000	1600	1000	710
FB90N	2250	1830	1125	835
FB100N	2500	2050	1250	960

■ DIMENSION Unit: mm





## SPECIFICATIONS

MODEL	DESCRIPTION	FB70N	FB80N	FB90N	FB100N
<b>Capacity</b>	Swing over bed	1800 mm (70.86")	2000 mm (78.74")	2250 mm (88.58")	2500 mm (98.4")
	Swing over cross slide (Full length)	1240 mm (48.8")	1440 mm (56.6")	1690 mm (66.5")	1940 mm (76.3")
	Swing over cross slide (Half length)	1325 mm (52.1")	1510 mm (59.4")	1745 mm (68.7")	1985 mm (78.1")
	Center height	900 mm (35.4")	1000 mm (39.37")	1125 mm (44.2")	1250 mm (49.2")
	Distance between center	3000 - 12000 mm (120") - (480")			
	Bed width / Auxiliary guideway	1345 mm (52.9") / 1575 mm (62")			
<b>Spindle</b>	Speed / Bore / Nose	4 Steps 5 - 400 rpm / dia. 210 mm (8.2") / A2-15 Opt. 4 Steps 4 - 300 rpm / dia. 260 mm (10.2") / A2-20			
<b>Turret</b>	Turret	H4 or V8			
	Tool Size	H4: 50 x 50 mm V8: 32 x 32 mm			
	X/Z axis travel Standard (Half length) cross slide	720 mm (28.35") / 3000 - 12000 mm (118.11" - 472.44")			
	X/Z axis travel (Full length) cross slide	1250 mm (49.2") / 2600 - 11600 mm (102.36" - 456.69")			
	X axis rapid travel Ball screw dia.	5M / min dia. 50 mm (1:2 Gear Box)			
	Z axis rapid travel Ball screw dia.	5M / min 3-4M (dia. 80 mm), 5-6M (dia. 100 mm), 7-12M ( Rack and Pinion Driver)			
	<b>Tailstock</b>	Tailstock quill diameter	290mm (11.4")		
Tailstock quill travel		300 mm (11.8")			
Tailstock Center		MT 7			
<b>Motor</b>	X axis servo motor	FANUC aiF22 4 kw			
	Z axis servo motor	FANUC aiF30 7.0 kw			
	Spindle motor	FANUC ail 50 45 / 55 kw			
	Coolant pump motor	1 kw			
	Hydraulic pump motor	7.5 kw			
<b>Machine Weight</b>	3000 mm center distance	33000 kgs	34500 kgs	36000 kgs	37000 kgs
	Each extra 1000 mm weight	4500 kgs			

※ THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES

1. Fanuc control and motors
2. H4 or V8 hydraulic turret
3. Auto coolant, hydraulic and lubrication system
4. Control panel moving along with saddle
5. Front (movable) and rear splash guard
6. Hydraulic tailstock with rotating quill
7. Front and rear chip conveyor
8. Work light
9. Tool box with tools

### ■ OPTIONS

1. Hydraulic / Manual chuck
2. Face plate
3. Steady rest
4. Follow rest
5. Heavy duty boring bar tool holder
6. Milling head
7. Extra spindle bore and motor
8. C axis and driving tool turret
9. CE Mark
10. Transformer

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