



## HEAVY DUTY CNC LATHE

### FLAT BED

LA26 / 30 / 35 / 40

LC30 / 35 / 40

LD45 / 50 / 55 / 60

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

**B.C.: 1000 - 10000mm**

FA45N / 50N / 55N

60N / 70N / 80N / 100N

FA45H / 50H / 55H

60H / 70H / 80H / 100H

FB70N / 80N / 90N / 100N

**SWING: 1170 - 2500mm (46" - 100")**

**B.C.: 2150 - 14000mm**

# CNC-TAKANG

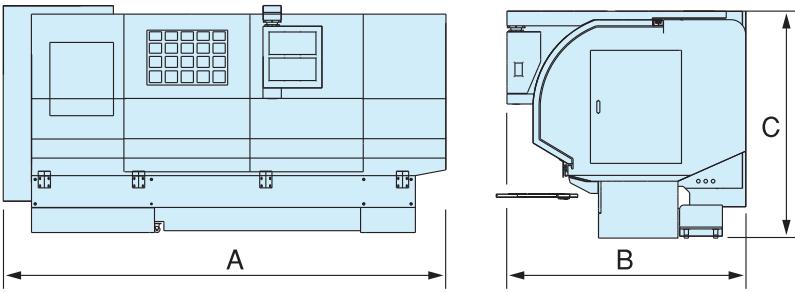
**CNC-TAKANG CO., LTD.**

**MANUFACTURER & EXPORTER**

# HEAVY DUTY

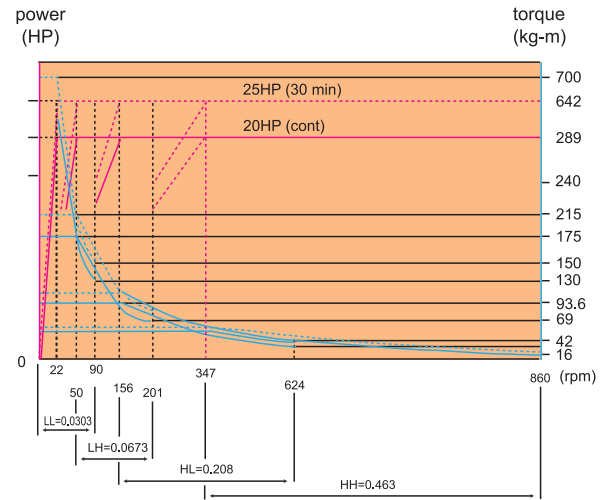
# LA Series

## ■ DIMENSION

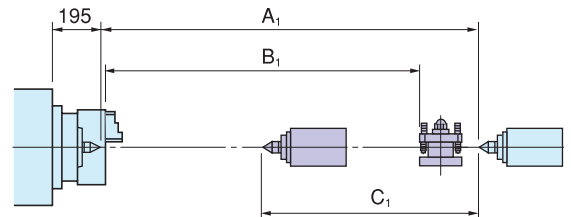


MODEL	A	B	C
LA26 / 30 x 1500	3795 mm (149.4")	2090 mm (82.3")	1920 mm (75.6")
LA26 / 30 x 2000	4295 mm (169.1")	2090 mm (82.3")	1920 mm (75.6")
LA26 / 30 x 3000	5295 mm (208.5")	2090 mm (82.3")	1920 mm (75.6")
LA26 / 30 x 4000	6295 mm (247.8")	2090 mm (82.3")	1920 mm (75.6")
LA26 / 30 x 5000	7295 mm (287.2")	2090 mm (82.3")	1920 mm (75.6")
LA26 / 30 x 6000	8295 mm (326.6")	2090 mm (82.3")	1920 mm (75.6")
LA35 x 1500	3795 mm (149.4")	2090 mm (82.3")	2040 mm (80.3")
LA35 x 2000	4295 mm (169.1")	2090 mm (82.3")	2040 mm (80.3")
LA35 x 3000	5295 mm (208.5")	2090 mm (82.3")	2040 mm (80.3")
LA35 x 4000	6295 mm (247.8")	2090 mm (82.3")	2040 mm (80.3")
LA35 x 5000	7295 mm (287.2")	2090 mm (82.3")	2040 mm (80.3")
LA35 x 6000	8295 mm (326.6")	2090 mm (82.3")	2040 mm (80.3")
LA40 x 1500	3795 mm (149.4")	2140 mm (84.3")	2090 mm (82.3")
LA40 x 2000	4295 mm (169.1")	2140 mm (84.3")	2090 mm (82.3")
LA40 x 3000	5295 mm (208.5")	2140 mm (84.3")	2090 mm (82.3")
LA40 x 4000	6295 mm (247.8")	2140 mm (84.3")	2090 mm (82.3")
LA40 x 5000	7295 mm (287.2")	2140 mm (84.3")	2090 mm (82.3")
LA40 x 6000	8295 mm (326.6")	2140 mm (84.3")	2090 mm (82.3")

## ■ SPINDLE POWER DIAGRAM



## ■ WORK RANGE



MODEL	LA26 / 30 / 35 / 40 x 1520	LA26 / 30 / 35 / 40 x 2030	LA26 / 30 / 35 / 40 x 3050	LA26 / 30 / 35 / 40 x 4050	LA26 / 30 / 35 / 40 x 5050	LA26 / 30 / 35 / 40 x 6050
A <sub>1</sub>	1520 mm (60")	2030 mm (80")	3050 mm (120")	4050 mm (159")	5050 mm (199")	6050 mm (238.2")
B <sub>1</sub>	1380 mm (54.3")	1890 mm (74.4")	2910 mm (114.6")	3910 mm (114.6")	4910 mm (114.6")	5910 mm (114.6")
C <sub>1</sub>	1350 mm (53.1")	1860 mm (73.2")	2880 mm (113.4")	3880 mm (152.8")	4880 mm (192.1")	5880 mm (231.5")



## SPECIFICATIONS

MODEL	DESCRIPTION	LA 26	LA 30	LA 35	LA 40
Capacity	Swing over bed	660 mm (26")	770 mm (30")	890 mm	1000 mm
	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 centers	1520 mm (60"), 2030 mm (80"), 3050 mm (120"), 4050 mm (159"), 5050 mm (199"), 6050 mm (238.2")			
	Bed width	480 mm (18.9")			
Spindle	Spindle bore	A2-11 (4") L2: 22 ~ 90 rpm	A2-11 (4") L2: 22 ~ 90 rpm	A2-11 (6") L2: 22 ~ 90 rpm	A2-15 (9") L2: 12 ~ 51 rpm
	Spindle nose	L1: 50 ~ 201 rpm	L1: 50 ~ 201 rpm	L1: 50 ~ 201 rpm	L1: 25 ~ 128 rpm
	Speed range	H2: 156 ~ 624 rpm H1: 347 ~ 1200 rpm	H2: 156 ~ 624 rpm H1: 347 ~ 1200 rpm	H2: 156 ~ 624 rpm H1: 347 ~ 860 rpm	H2: 99 ~ 276 rpm H1: 137 ~ 700 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	400 mm (15.7")			
	Z axis travel	1380 mm (54"), 1890 mm (74"), 2910 mm (115"), 3910 mm (154"), 4910 mm (193"), 5910 mm (154")			
X axis rapid travel	5M / min $\phi$ 32 x P5				
Z axis rapid travel	10M / min $\phi$ 50 x P10				
Tailstock	Quill diameter	$\phi$ 105 mm (4.1"), OPT Rotating quill $\phi$ 145 mm (5.7")			
	Quill travel	200 mm (8")			
	Quill taper	MT6			
Motor	X axis servo motor	1.5M~4M FANUC $\alpha$ 8i 1.6 kw, 5M~6M FANUC $\alpha$ 12i 3.0 kw			
	Z axis servo motor	1.5M~4M FANUC $\alpha$ 12i 3.0 kw, 5M~6M FANUC $\alpha$ 22i 4.0 kw			
	Spindle motor	FANUC $\alpha$ 15i 15 / 18.5 kw, OPT 18.5 / 22 kw			
	Lubrication pump	25 w			
	Coolant pump	0.455 kw			
	Hydraulic pump	1 kw			
Machine weight	1500mm 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 & spindle motor
2. H4 or V8 hydraulic turret
3. Splash guard
4. Center, MT5 for spindle & MT6 for tailstock
5. Work light
6. Auto-lubrication, coolant & hydraulic system
7. Manual tailstock
8. Tool box with tools

### OPTIONS:

1. Extra spindle bore (6" or 9") & motor
2. Spindle oil chiller
3. Chucks & Face plate
4. Other controller
5. Steady rest & follow rest (Hydraulic or manual)
6. Rear tool post
7. Chain type chip conveyor
8. Hydraulic tailstock
9. Tailstock movable by motor & rack
10. CE mark
11. Transformer

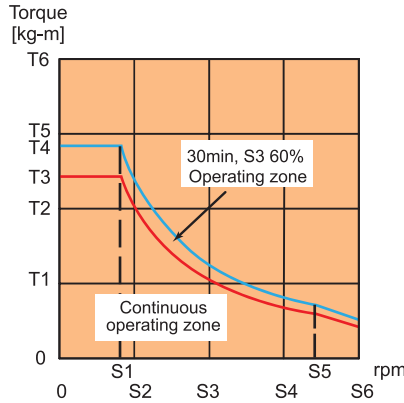
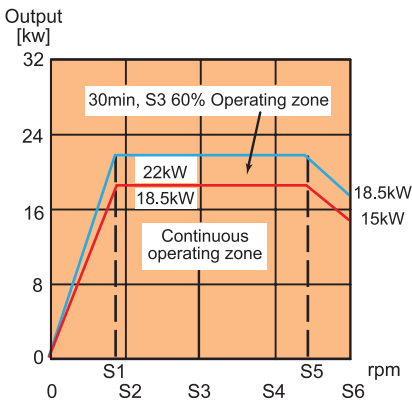
# LC / LD Series

## 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" bedways for better rigidity.
- Full power output at low spindle speed.
- High torque (166 times of spindle motor torque)

## LC SPINDLE TORQUE - POWER DIAGRAM

FANUC  $\alpha$ 18 / 7000i 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



LD50 x 4150

C Axis Gear System with Reducer



LC30 x 2200



## LD SPINDLE TORQUE - POWER DIAGRAM FANUC $\alpha 22$ / 7000i Motor

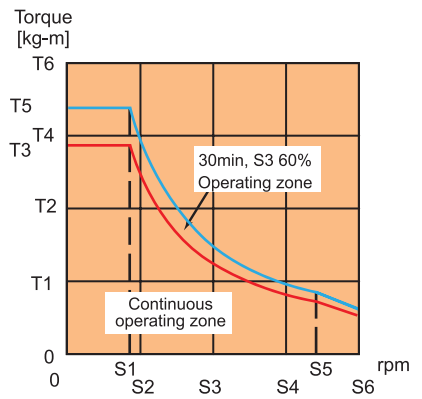
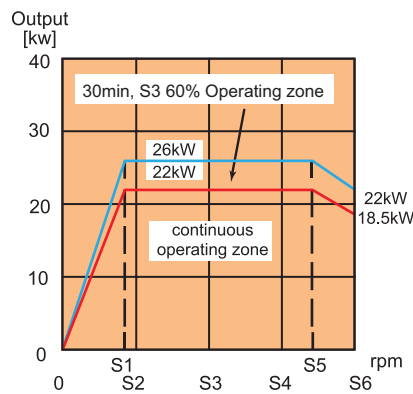
VDI



BMT

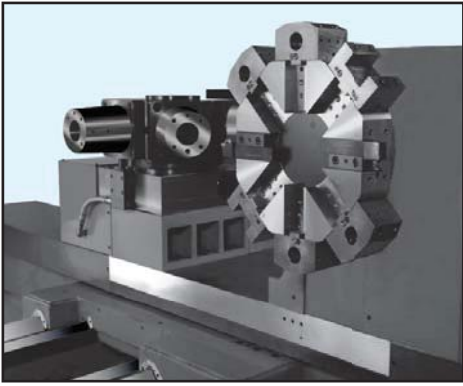


Driving Tool Turret



	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

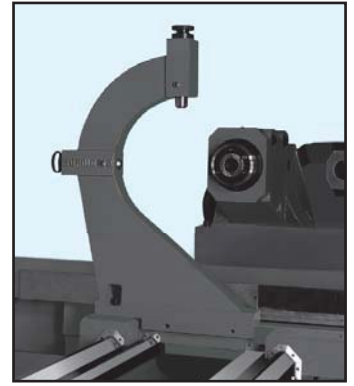
# LC / LD Series



**Double Turrets**

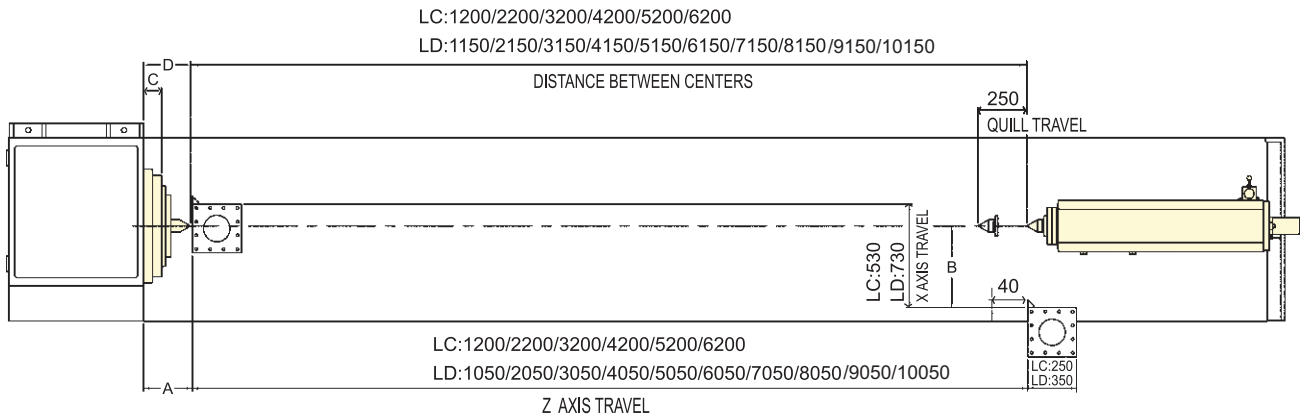


**Roller Support Bracket**



**Follow Rest  
(3 V Bed Way)**

## WORK RANGE Unit: mm



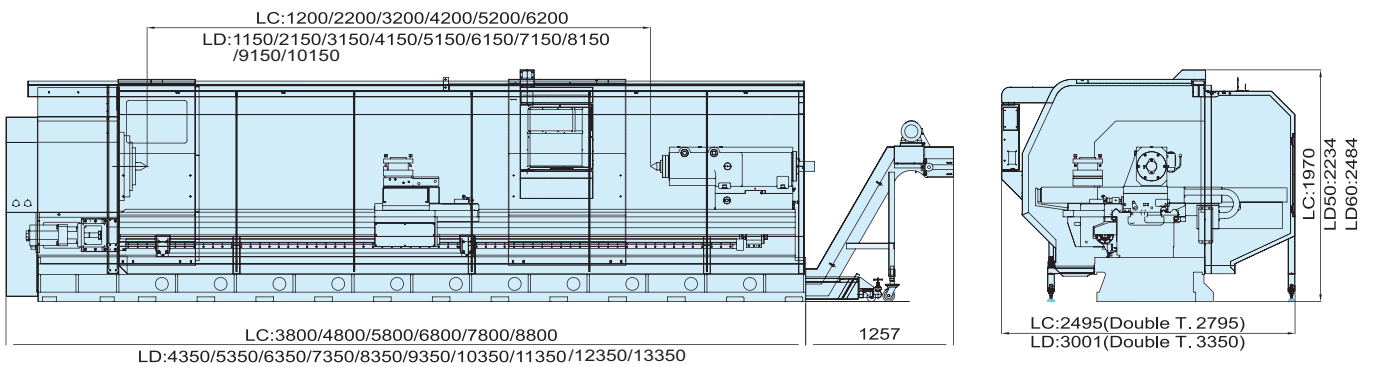
LC	C	D
6"	96	243
9"	87	228
12"	93	241

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

LC	A	B
30	250	418
45	170	463
40	170	463

LD	A	B
45	260	721
60		

## DIMENSION Unit: mm



## SPECIFICATIONS

MODEL	DESCRIPTION	LC 30	LC 35	LC 40	LD 45	LD 50	LD 55	LD 60
Capacity	Swing over bed	770 mm (30")	895 mm (35")	1020 mm (40")	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")	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")	715 mm (28.1")	780 mm (30.7")
	Distance between centers	1200 (47.2") / 2200 (66.6") / 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") / 9400 (370.08") / 10400 mm (409.45")			
	Bed width / Auxiliary guide	560 mm (22")			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"), 11~300 rpm (14.5")			9~400 rpm (12"), 9~300 rpm (14.5")		
		A2-28 (16")				7~250 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	H4 32 x 32 or V8 32 x 32 ; ø50						
	X axis travel	530 mm (20.9")			730 mm (28.7")			
	Z axis travel	1200 mm (47.2") ~ 8200 mm (322.8")			1300 mm (51.18") ~ 10300 mm (405.51")			
	X axis rapid travel, Ball screw dia.	6M / min (ø40 mm x P5)						
	Z axis rapid travel, Ball screw dia.	6M / min, BC 1M~5M (ø63 mm x P10), BC 6M~7M (ø80 mm x P10), BC 8M~10M (Rack & Pinion Driver)						
Tailstock	Quill diameter	185 mm (7.3") Rotating quill OPT: 250 mm (9.8") / 350 mm (13.7")						
	Quill travel	250 mm (9.84")						
	Quill taper	MT6						
Motor	X axis servo motor	FANUC α22i 4 kw						
	Z axis servo motor	1~4M FANUC α22i 4 kw, 5~8M FANUC α30i 7 kw, 4~8M Gear Box						
	Spindle motor	FANUC α18i 18.5 / 22 kw			FANUC α22i 22 / 26 kw			
	Lubricant pump motor	25 W						
	Coolant pump motor	0.845 kw						
	Hydraulic pump motor	2.25 kw						
Machine Weight	1000mm center distance	9700 kgs	10100 kgs	10500 kgs	16400 kgs	17000 kgs	17600 kgs	18200 kgs
	Each extra 1000mm weight	1000 kgs			1500 kgs			

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### STANDARD ACCESSORIES

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

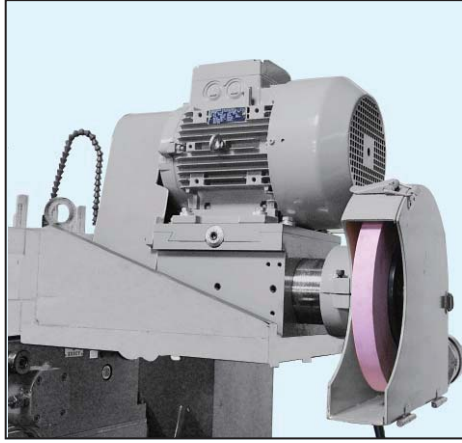
### OPTIONS

1. Extra spindle bore, motor & speeds
2. Spindle oil chiller
3. Chucks, Rear chuck adapter & Face plate
4. C axis or Spindle 5° indexing or 15° orientation
5. Driving tool turret
6. Special boring bar toolholder
7. Higher coolant pressure
8. Twin turret (V8 front +H4 rear)
9. Tool presetter
10. Other controller
11. Steady rest or follow rest (Hydraulic or Manual)
12. Cutting pass through steady rest equipment
13. Heavy duty milling attachment
14. Y axis (with heavy duty milling attachment)
15. Grinding head on turret or cross slide
16. Chain type chip conveyor for front
17. Extra tailstock quill dia. 250 mm / 350 mm (A2-8)
18. Transformer
19. CE mark

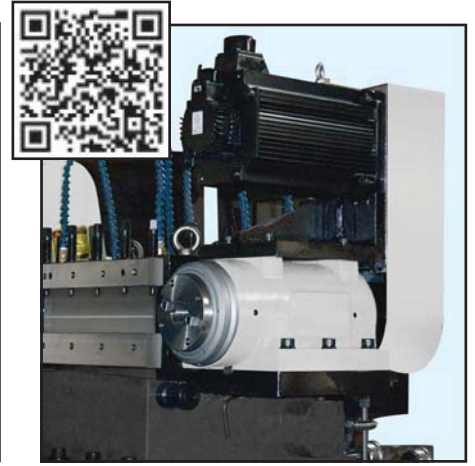
# FA N Series



Hydraulic Disk Brake  
and Rear Chuck Adaptor



Grinding Head



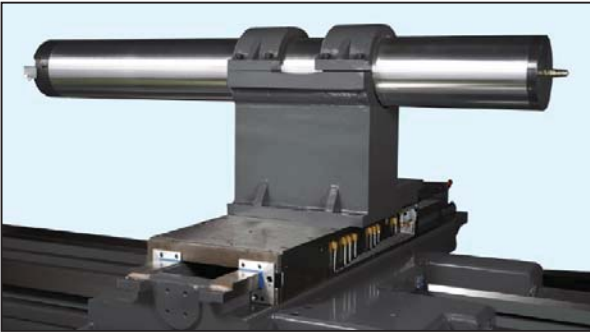
Heavy Cutting Milling Head

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



FA60N x 4150

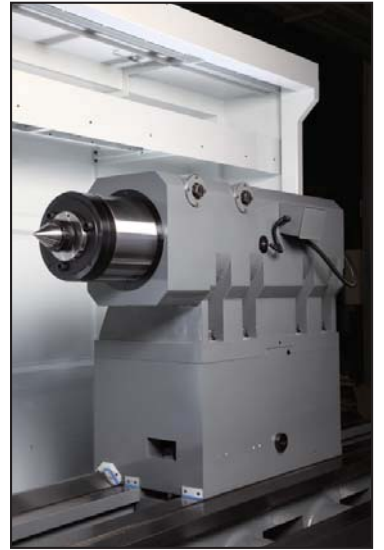




**Boring Bar  
& Holder  
(OPT)**



**4 Bed Ways  
With Half Length Saddle**



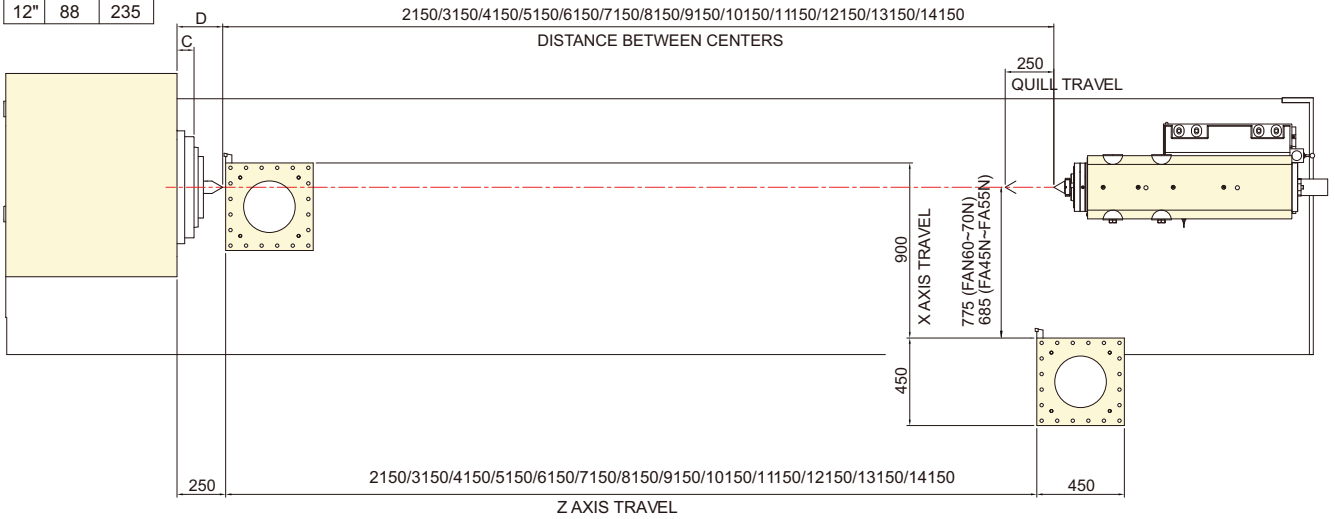
**Rotating Quill Tailstock (STD)**



# FA N Series

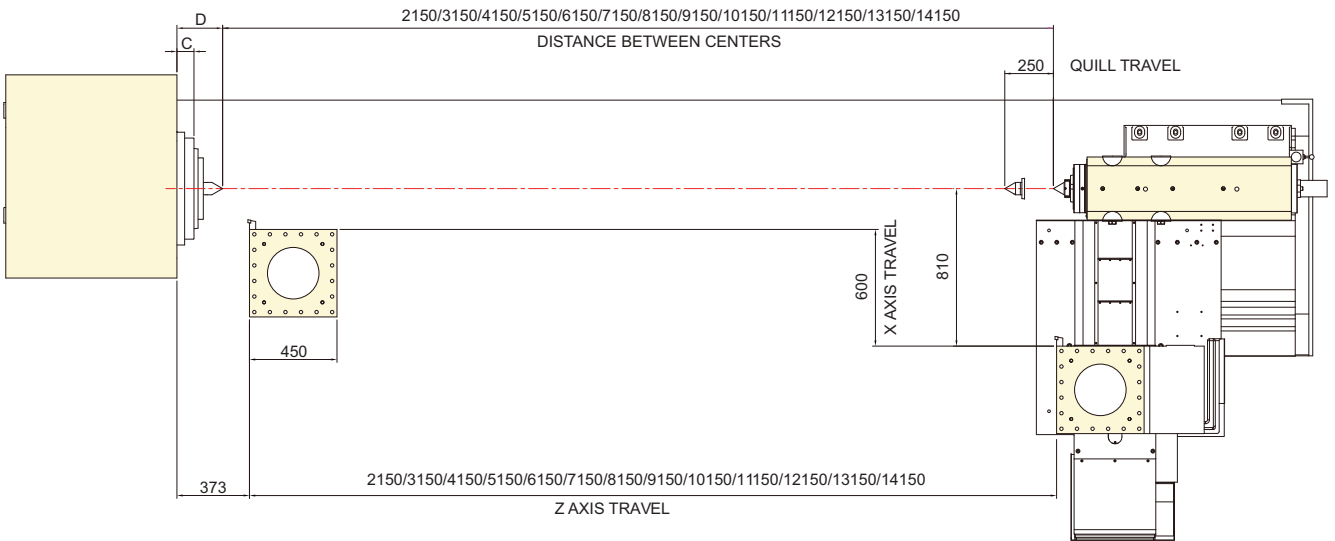
## WORK RANGE (Full length cross slide) Unit: mm

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

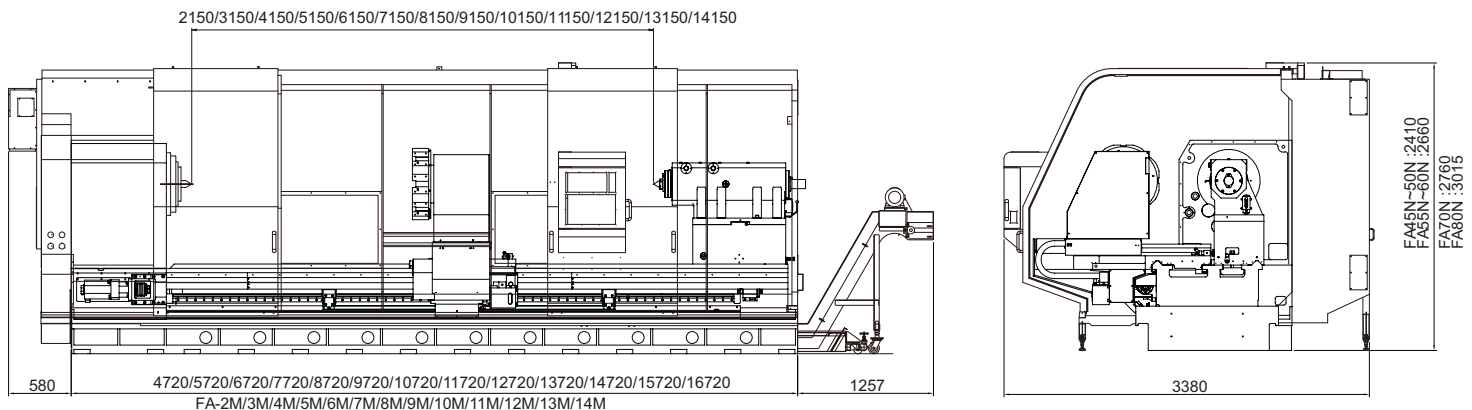


## WORK RANGE (Half length cross slide) Unit: mm

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

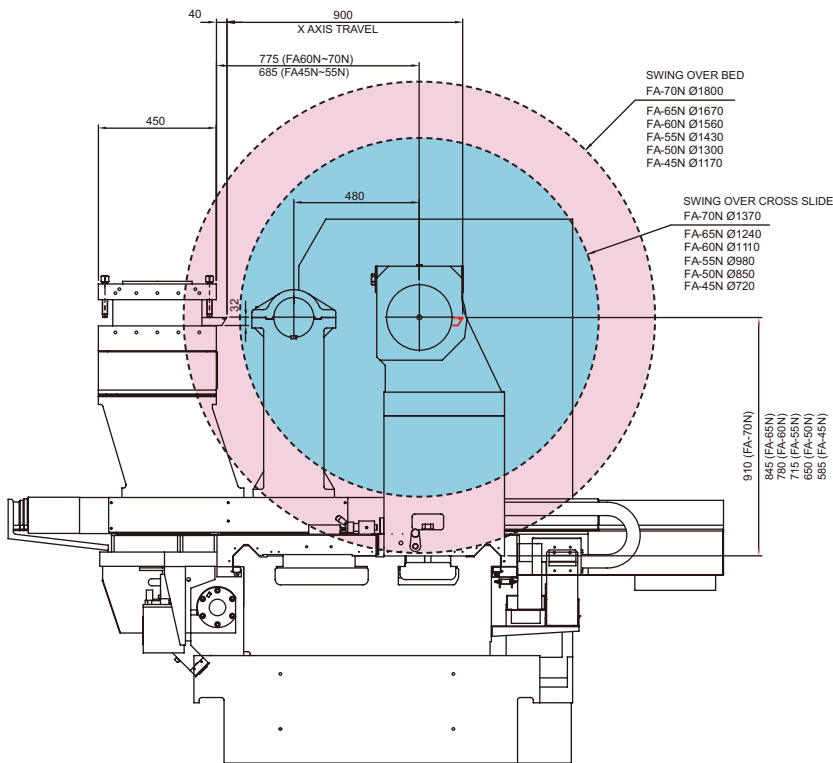


## DIMENSION Unit: mm



## WORK RANGE (Full length cross slide)

Unit: mm



## OPTIONS



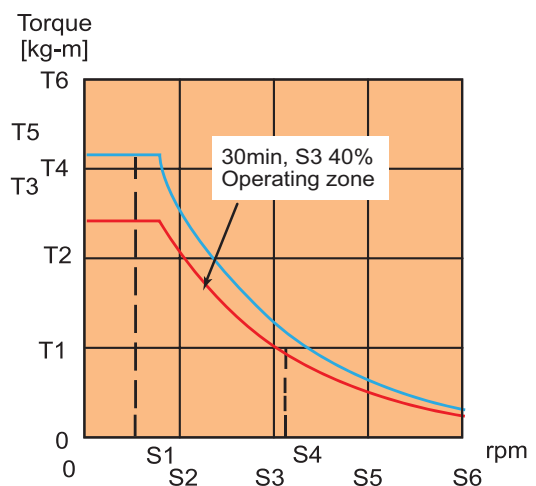
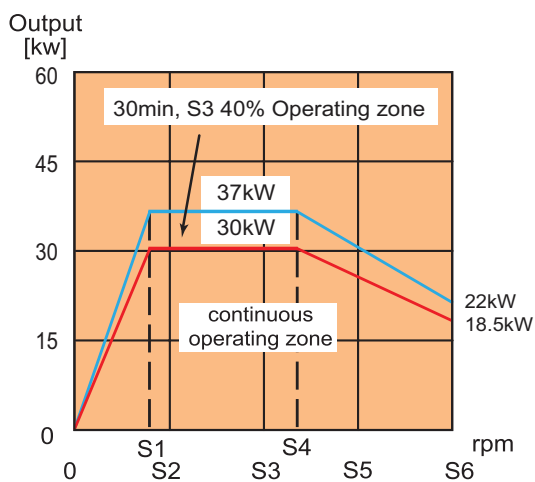
Hyd. Steady Rest



Steady Rest

## SPINDLE TORQUE - POWER DIAGRAM

FANUC α30 / 6000i 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	5000	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 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")	2500 mm (98.4")	
	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	1020 mm (40")							
	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", 14.5") – FA45N~ FA80N A2-28 (16") – FA45N ~ FA80N A2-28 (21") – FA55N ~ FA80N							
	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 Standard (Half length cross slide)	600 mm (23.6")							
	X axis travel (Full length cross slide)	900 mm (35.4")							
	Z axis travel	2150 mm (84.6") ~ 14150 mm (557")							
	X axis rapid travel, Ball screw dia.	6 M / min, ø40 mm x P5							
	Z axis rapid travel, Ball screw dia.	6M / min, BC 1~5M (ø63mm x P10), 5M / min, BC 6~7M (ø80 mm x P10), 5M / min, BC 8~14M (Rack & Pinion Driver)							
Tailstock	Tailstock quill diameter	250 mm (9.84") OPT: 350 mm (13.7")							
	Tailstock quill travel	250 mm (9.84")							
	Tailstock center	MT6							
Motor	X axis servo motor	FANUC α22i 4 kw							
	Z axis servo motor	2~3M FANUC α22i 4 kw, 4~7M FANUC α22i 4 kw, (Gear Box) 8~14M FANUC α40i 7 kw, (Rack & Pinion Driver)							
	Spindle motor	FANUC α30i 30 / 37 kw (40 / 50 HP)							
	Lubricant pump motor	25 W							
	Coolant pump motor	1.2 kw							
	Hydraulic pump motor	2.25 kw 3 HP							
Machine Weight	2000mm center distance	17500 kgs	18000 kgs	18600 kgs	19200 kgs	20400 kgs	21600 kgs	25500 kgs	
	Each extra 1000mm weight	1500 kgs							

※THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### STANDARD ACCESSORIES

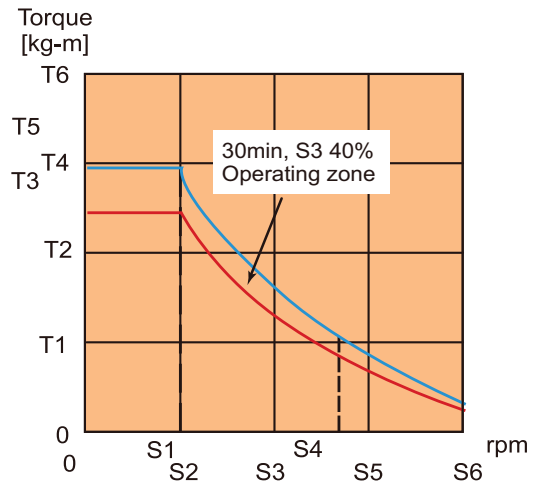
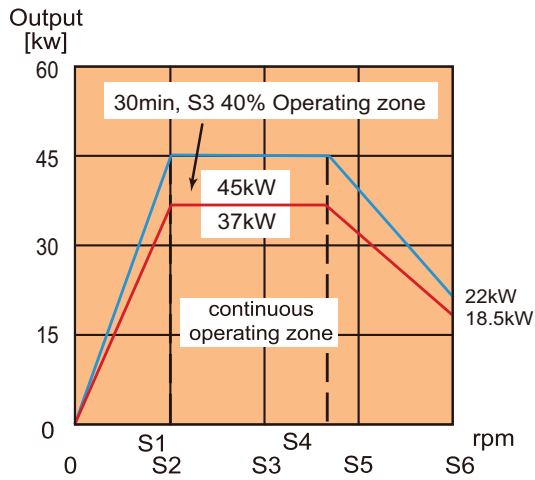
1. Main motor and electrical box
2. Splash guard
3. Auto gear change
4. MT6 center for tailstock
5. Work light
6. Auto-lubrication, coolant and hydraulic system
7. Hydraulic 4 or 8 stations turret
8. Front & rear chip conveyor
9. Tool box with tools

### OPTIONS

1. Y axis
2. C axis
3. Spindle 5° indexing
4. Steady rest & follow rest
5. Hyd. chuck & cylinder
6. Extra spindle bore & motor
7. Manual 3-jaw, 4-jaw chuck
8. Driving tool turret
9. Driving tool holder
10. Special boring bar toolholder
11. Higher coolant pressure
12. Other countroller
13. Spindle oil chiller
14. CE Mark
15. Transformer

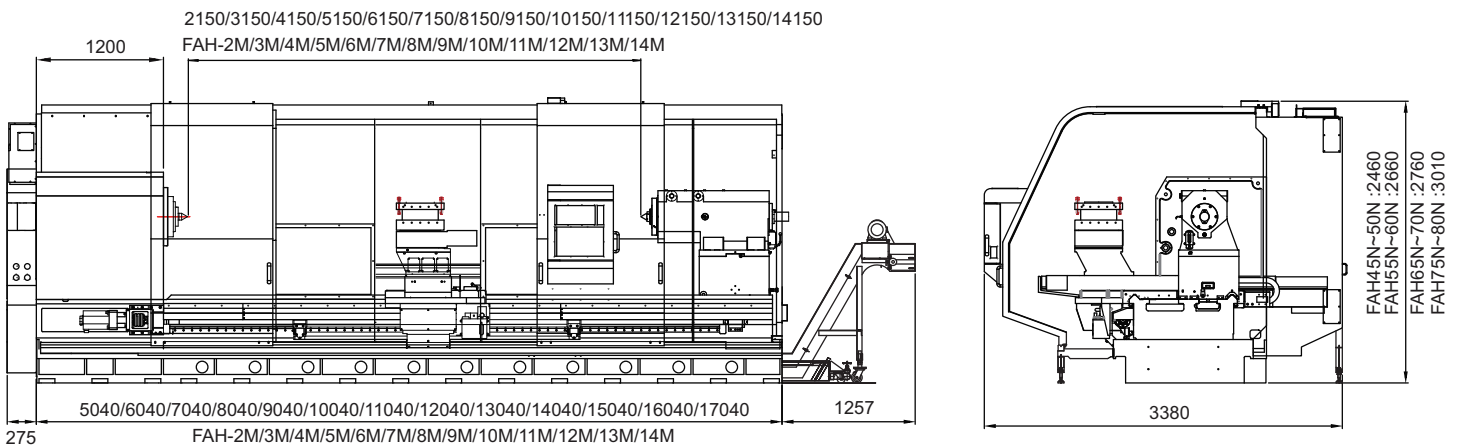
## SPINDLE TORQUE - POWER DIAGRAM

FANUC α40 / 6000i Motor



	speed [min]					Torque [kg-m]					
	S1	S2	S3	S4	S5	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

## DIMENSION Unit: mm



# FA H Series

## 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")	2500 mm (98.4")
	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	1020 mm (40")						
	Width of cross slide	420 mm (16.5")						
	Width of carriage	950 mm (37.4")						
Spindle	Spindle nose	A2-15						
	Spindle bore	ø200 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 Standard (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, ø40 mm x P5						
	Z axis rapid travel, Ball screw dia.	6M / min, BC 1~5M (ø63 mm x P10), 5M / min, BC 6~7M (ø80 mm x P10), 5M / min, BC 8~14M (Rack & 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 α22i 4 kw						
	Z axis servo motor	2~3M FANUC α22i 4 kw, 4~7M FANUC α22i 4 kw, (Gear Box) 8~14M FANUC α40i 7 kw, (Rack & Pinion Driver)						
	Spindle motor	FANUC α40i 37 / 45 kw (50 / 60 HP)						
	Lubricant pump motor	25 W						
	Coolant pump motor	1.2 kw						
	Hydraulic pump motor	2.25 kw 3 HP						
Machine Weight	2000mm center distance	18000 kgs	18600 kgs	19200 kgs	19600 kgs	21000 kgs	22200 kgs	25500 kgs
	Each extra 1000mm weight	1500 kgs						

※THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### STANDARD ACCESSORIES

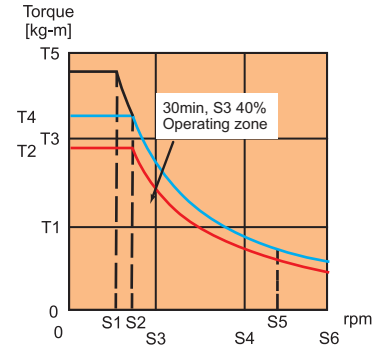
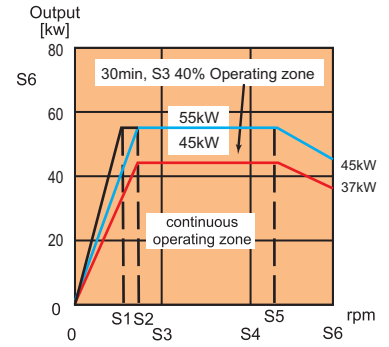
1. Main motor and electrical box
2. Splash guard
3. Auto gear change
4. MT6 center for tailstock
5. Work light
6. Auto-lubrication, coolant and hydraulic system
7. Hydraulic 4 or 8 stations turret
8. Front & rear chip conveyor
9. Tool box with tools

### OPTIONS

1. Y axis
2. C axis
3. Spindle 5° indexing
4. Steady rest & follow rest
5. Hyd. chuck & cylinder
6. Extra spindle bore & motor
7. Manual 3-jaw, 4-jaw chuck
8. Driving tool turret
9. Driving tool holder
10. Special boring bar toolholder
11. Higher coolant pressure
12. Other countroller
13. Spindle oil chiller
14. CE Mark
15. Transformer

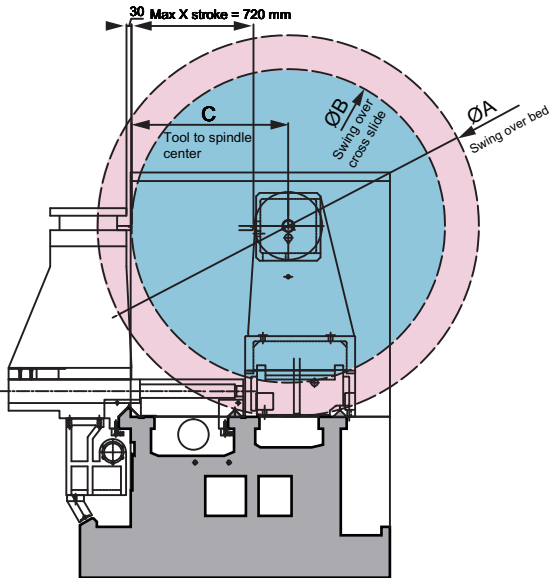
## SPINDLE TORQUE - POWER DIAGRAM FANUC α50 / 4500i Motor

	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 M41 i = 0.023	22.1	26.7	34.9	69.8	81.4	93	484	904	968	1103	1135	1449
Spindle M41 i = 0.060	57.6	69.7	90.0	181.8	212.1	272.7	185	346	371	423	512	555
Spindle M41 i = 0.178	169.6	205.4	267.9	535.7	625	803.6	63	117	125	142	172	187



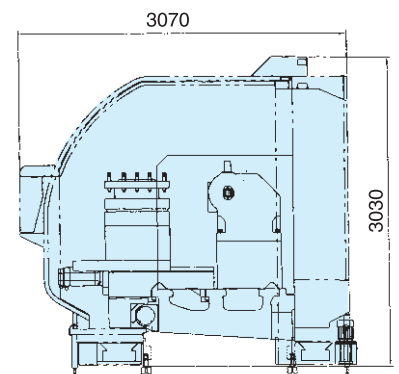
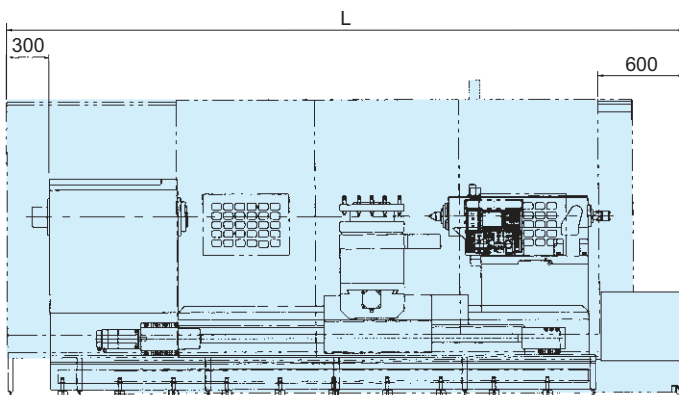
## WORK RANGE (Half length cross slide)

Unit: mm



MODEL	A	B	C
FB70N	1800	1400	925
FB80N	2000	1600	925
FB90N	2250	1830	925
FB100N	2500	2050	950

## DIMENSION Unit: mm



unit: mm

L	6450	7450	8450	9450	10450	11450	12450	13450	14450	15450
Center Distance	3000	4000	5000	6000	7000	8000	9000	10000	11000	12000

## SPECIFICATIONS

MODEL	DESCRIPTION	FB70N	FB80N	FB90N	FB100N
Capacity	Swing over bed	1800 mm (70.86")	2000 mm (78.74")	2250 mm (88.58")	2500 mm (98.4")
	Swing over cross slide (Half length)	1400 mm (55.1")	1600 mm (63")	1850 mm (72.83")	2050 mm (80.7")
	Swing over cross slide (Full length)	1250 mm (49.2")	1440 mm (56.7")	1680 mm (66.14")	1920 mm (67.5")
	Center height	900 mm (35.4")	1000 mm (39.37")	1150 mm (45.27")	1250 mm (49.2")
	Distance between centers	3000 ~ 12000 mm (120") ~ (480")			
	Width of bed	1345 mm (52.9" )			
Spindle	Speed / Bore / Nose	4 Steps 5 ~ 460 rpm / ø230 mm (9") / A2-15			
Turret	Turret	H4 or V8			
	Tool size	H4: 50 x 50 mm V8: 32 x 32 mm			
	X / Z axis travel Standard cross slide (Half length)	720 mm (28.35") / 2600~11600 mm (102.36"~456.69")			
	X / Z axis travel (Full length cross slide)	1250 mm (49.2") / 3000~12000 mm (118.11"~472.44")			
	X axis rapid travel, Ball screw dia.	5M / min, ø60 mm x P5 (1:2 Gear Box)			
	Z axis rapid travel, Ball screw dia.	5M / min, BC 3~5M (ø80 mm x P10), BC 5~6M (ø100 mm x P10), BC 7~12M (Rack & Pinion Driver)			
Tailstock	Tailstock quill diameter	290 mm (11.4")			
	Tailstock quill travel	300 mm (11.8")			
	Tailstock center	MT7			
Motor	X axis servo motor	FANUC α22i 4 kw			
	Z axis servo motor	FANUC α30i 7.0 kw			
	Spindle motor	FANUC α50i 45 / 50 kw			
	Coolant pump motor	1 kw			
	Hydraulic pump motor	7.5 kw			
Machine Weight	3000mm center distance	33000 kgs	34500 kgs	36000 kgs	37000 kgs
	Each extra 1000mm weight	4500 kgs			

※THE SPECIFICATIONS ARE SUBJECT TO CHANG WITHOUT PRIOR NOTICE.

### ■ STANDARD ACCESSORIES

1. AC spindle motor
2. Work light
3. Auto lubrication system
4. Coolant system
5. H4 or V8 hydraulic turret
6. Control panel moving along with saddle
7. Front (movable) & rear splash guard
8. MT6 center for tailstock
9. Tailstock with rotating quill
10. Leveling bolts & pads
11. Tool box with tools
12. Manuals

### ■ 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 & motor
8. C axis & driving tool turret
9. CE Mark
10. Transformer

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