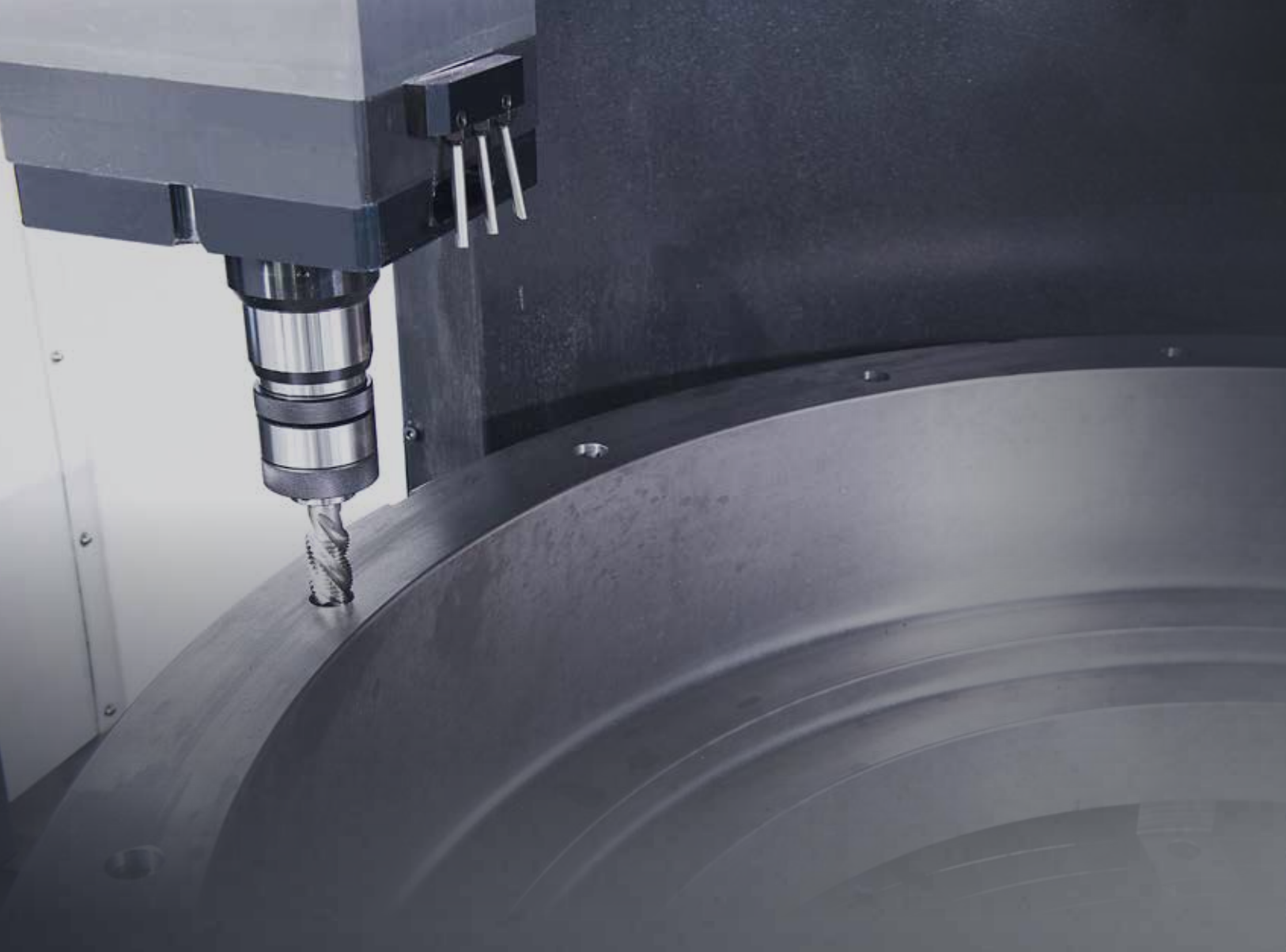
LV 1400/2000

LV1400 | LV2000MM

WIA Machine Tools Ram Type Vertical Turning Center

WIA MACHINE TOOLS



Technical Leader

The CNC Turning Center LV1400/2000 Series, designed by WIA machine tools with years of expertise and the latest technology, is designed to maximize productivity for machining large work.

		LV1400	LV2000MM
Max. Swing	mm(in)	Ø1,450 (57.1″)	Ø2,040 (80.3″)
Max. Turning Dia.	mm(in)	Ø1,400 (55.1″)	Ø2,000 (78.7″)
Max. Turning Height	mm(in)	850 (33.5″)	950 (37.4″)/1,700 (66.9″)
Table Size	mm(in)	Ø1,000 (39.4″)	Ø1,600 (63″)
Max. Load Capacity	kg(lb)	4,400 (9,700)	10,000 (22,046)
Spindle Speed	r/min	492	258
Spindle Power	kW(HP)	37/30 (50/40)	37/30 (50/40) [45/37 (60/50)]
Ram Size	mm(in)	200×200 (7.9″×7.9″)	240×240 (9.4″×9.4″)
Travel (X/Z)	mm(in)	-50~+825 (-2″~+32.5″)/800 (31.5″)	-250~+1,180 (-9.8~+46.5″)/915 (36″)

[ ] : Option

LV 1400/2000

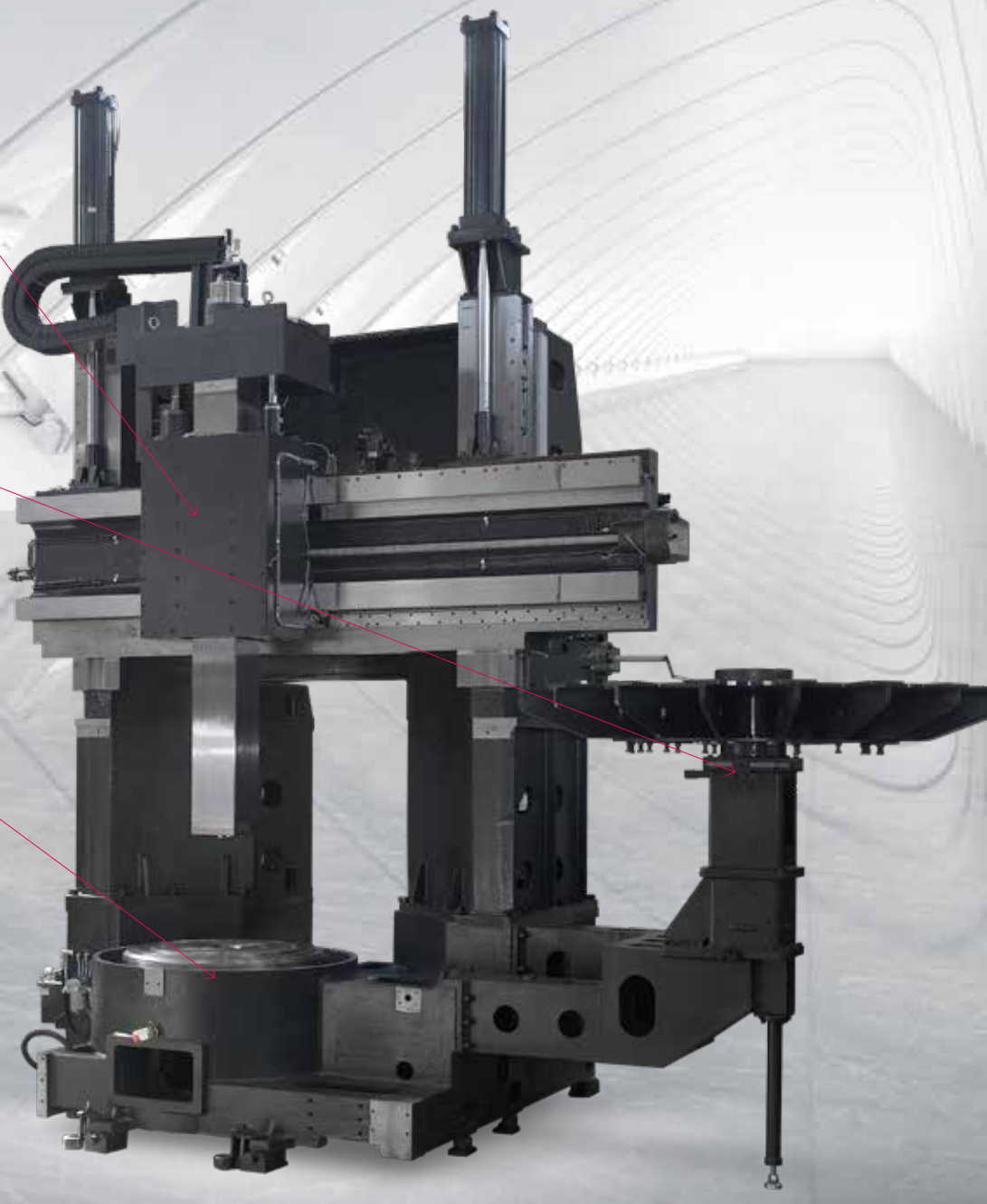
Heavy Duty, Large Work Capacity, Vertical Turning Center

- Strengthened heavy duty cutting ability with 2 step gear driven spindle(table)
- Main spindle with cross roller bearings and box guideway for high rigidity
- Rigid table structure for processing heavy loads
- 3 step hydraulic cylinder type crossrail(LV2000MM)
- Various Machining : Turning, tapping, milling, grinding etc.(LV2000MM)
- Linear scale on all axis as standard (LV2000MM)



01 BASIC **STRUCTURE**

Highly Rigid Bed Structure for Heavy Duty Cutting Ram Type Vertical Turning Center



Ram Head

- Ram Size
  LV1400 : 200×200mm (7.9″×7.9″)
  LV2000MM : 240×240mm (9.4″x9.4″)
- LV2000MM : 3 Step Crossrail

ATC

- No. of Tools
  LV1400 : 12 [16] EA
  LV2000MM : 18 EA
- Tool Size (O.D/I.D)
  LV1400 : □32/□22mm (□1.3″/0.9″)
  LV2000MM : □32/□25mm (□1.3″/1″)

Spindle & Table

- Spindle Speed
  LV1400 : 492r/min
  LV2000MM : 258r/min
- Table Size
  LV1400 : Ø1,000mm (Ø39.4″)
  LV2000MM : Ø1,600mm (Ø63″)

STRUCTURE FOR HEAVY CUTTING AND HIGH PRECISION

HIGH-PRECISION STRUCTURE



Highly Stable Bed Structure

LV1400/2000 is optimized for heavy duty cutting. Separate Bed Saddle structure made of cast iron minimizes vibration and thermal displacement

Floor Space (L×W)

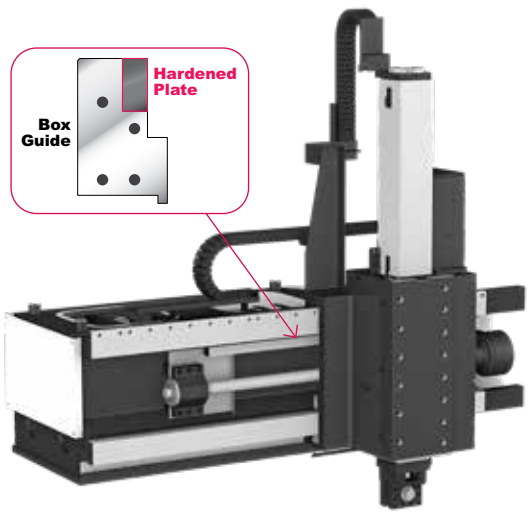
LV1400	LV2000MM
3,685×3,276 mm (145.1″×129″)	5,683×3,937 mm (223.7″×155″)

GUIDEWAY

Hardened Plate Box Guideway

Highly rigid **hardened plate** attached box guideway increases rigidity and reduces vibration.
Also, **linear scales** on all axis provided as standard enable precise machining. (LV1400 : Option)

Rigidity **10% UP** compared to standard box guideway



3 Step Crossrail (LV2000MM)

3 step hydraulic cylinder crossrail(250mm (9.8″x3) enables minimization of vibration and load by extending the length of the ram depending on the machining area. This unique design allows high performance in heavy duty operations.

Travel (X/Z)

LV1400	LV2000MM
-50~+825/800 mm (-2″~+32.5″/31.5″)	-250~+1,180/915 mm (-9.8~+46.5″/36″)

02 HEAVY DUTY **CUTTING**

Heavy Duty, Large Work Capacity, Ram Type Vertical Turning Center

HIGHLY RIGID TABLE

The maximum working height of **1,700mm** (66.9″) - LV2000MM enables various workpiece machining.

Table Size

LV1400	LV2000MM
Ø1,000 mm (39.4″)	Ø1,600 mm (63″)

Max. Turning Height

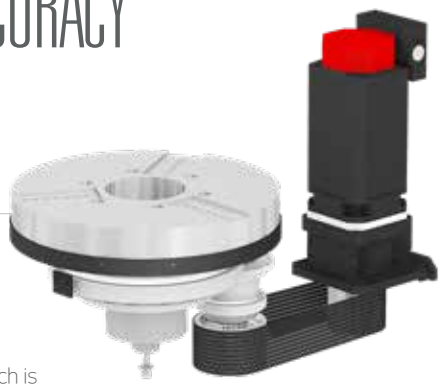
LV1400	LV2000MM
850 mm (33.5″)	1,700 mm (66.9″)





HEAVY DUTY CUTTING & HIGH ACCURACY

SPINDLE



Spindle for Heavy Cutting

A highly rigid cross roller bearing structure is utilized for heavy duty operations as it minimizes vibration and thermal displacement.

LV2000MM includes C-axis control with ring gear and ring sensor which is superior in noise control and precision indexing than other gear box applied machines.

2 Step Gear Driven Table	2 step gear driven table provides excellent performance in all speed ranges, especially in low speed.

RAM HEAD



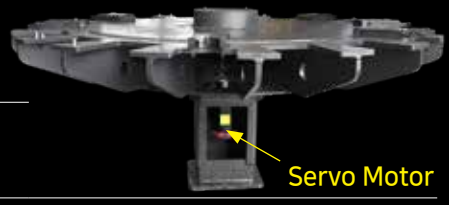
Various types of machining are possible with ram head; milling with rotary tool, turning, tapping, drilling, grinding and etc.

Improved Machining Capacity : Tapping 40% UP

- Live Tool Speed : **2,400** rpm
- Max. Torque : **769** N·m (567.2 lbf·ft)

ATC MAGAZINE

ATC is driven by a servo motor which provides faster tool change time and easier maintenance.



Number of Tools

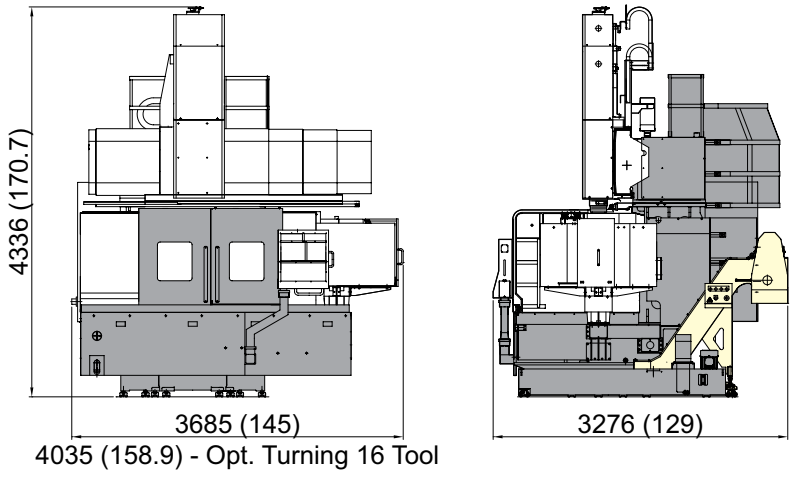
LV1400	LV2000MM
Std. : **12**EA (Turing **12**)	Std. : **18**EA (Turning **10** + Milling **7** + Dummy **1**)
Opt. : **16** EA (Turning **16**)	

SPECIFICATIONS

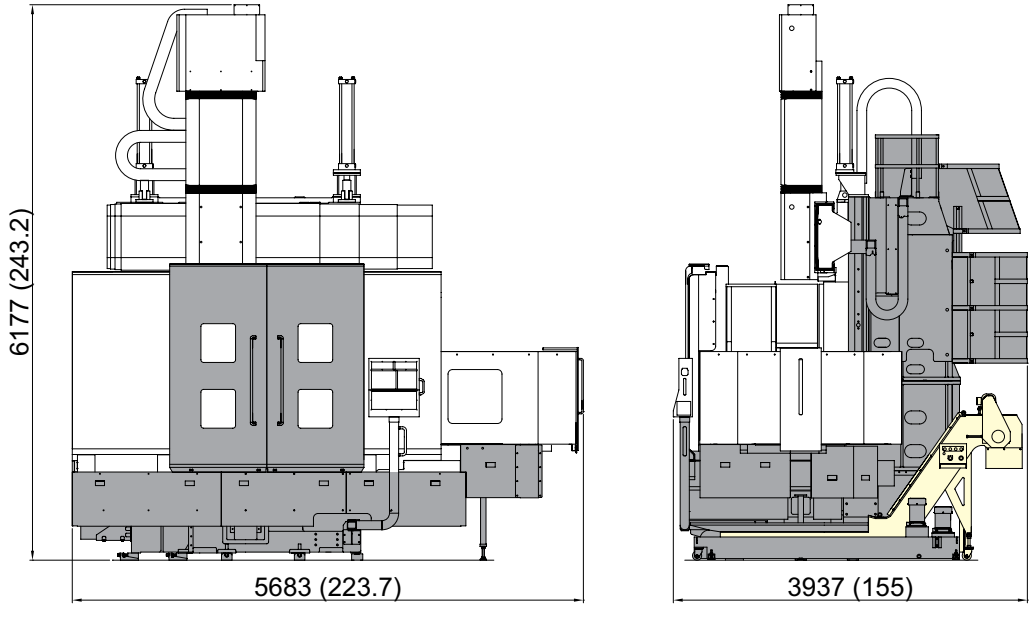
External Dimensions

unit : mm(in)

LV1400



LV2000MM

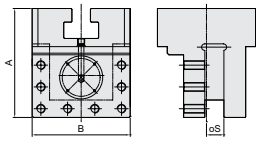


SPECIFICATIONS

Tooling System (LV1400)

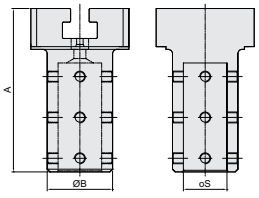
unit : mm(in)

FACE HOLDER A



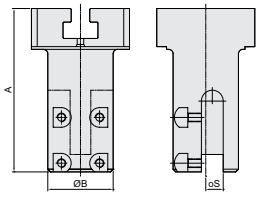
Model	A	B	S	
1084-40-203	200 (7.9)	180 (7.1)	32 (1.3)	STD.

BORING BAR HOLDER



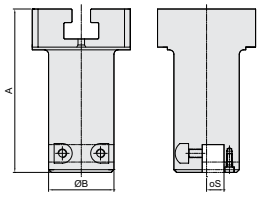
Model	A	B	S	
1084-40-204	300 (11.8)	120 (4.7)	80 (3.1)	STD.

FACE HOLDER B



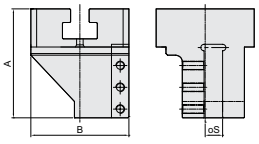
Model	A	B	S	
1084-40-205	300 (11.8)	120 (4.7)	32 (1.3)	STD.

FACE HOLDER C



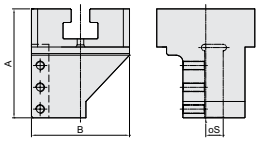
Model	A	B	S	
1084-40-206	300 (11.8)	120 (4.7)	32 (1.3)	STD.

FACE HOLDER R



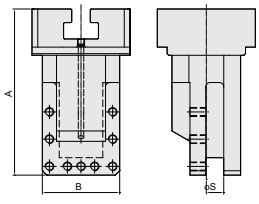
Model	A	B	S	
1084-40-210	200 (7.9)	180 (7.1)	32 (1.3)	OPT.

FACE HOLDER L



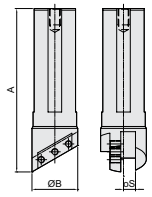
Model	A	B	S	
1084-40-211	200 (7.9)	180 (7.1)	32 (1.3)	OPT.

FACE HOLDER



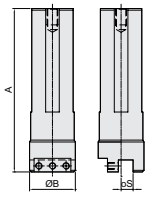
Model	A	B	S	
1084-40-212	305 (12)	142 (5.6)	32 (1.3)	OPT.

BORING BAR



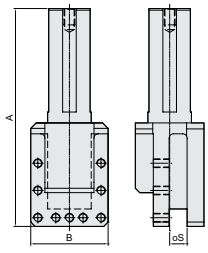
Model	A	B	S	
1084-40-207	300 (11.8)	84 (3.3)	22 (0.9)	STD.
1084-40-213	200 (7.9)	84 (3.3)	22 (0.9)	OPT.

BORING BAR



Model	A	B	S	
1084-40-208	300 (11.8)	84 (3.3)	22 (0.9)	STD.
1084-40-214	400 (15.7)	84 (3.3)	22 (0.9)	OPT.

EXTENSION BAR



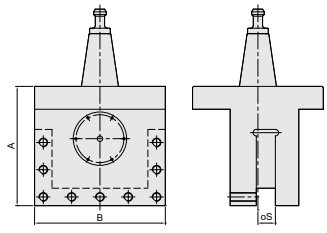
Model	A	B	S	
1084-40-209	400 (15.7)	142 (5.6)	32 (1.3)	OPT.

SPECIFICATIONS

Tooling System (LV2000MM _ BT50)

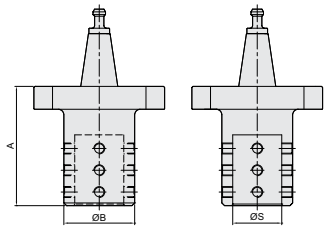
unit : mm(in)

FACE HOLDER-A



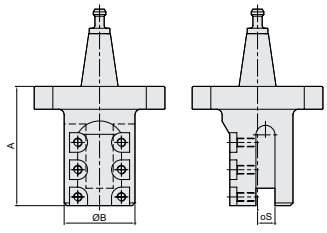
Model	A	B	S	
1085-40-201	219 (8.6)	240 (9.4)	32 (1.3)	STD.

BORING BAR HOLDER



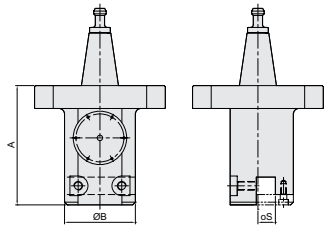
Model	A	B	S	
1085-40-204	219 (8.6)	130 (5.1)	90 (3.5)	STD.

FACE HOLDER-B



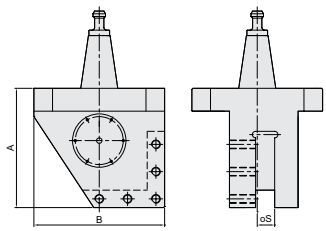
Model	A	B	S	
1085-40-202	219 (8.6)	130 (5.1)	32 (1.3)	OPT.

FACE HOLDER-C



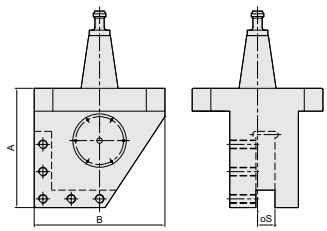
Model	A	B	S	
1085-40-203	219 (8.6)	130 (5.1)	32 (1.3)	OPT.

FACE HOLDER-R



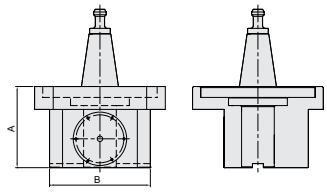
Model	A	B	S	
1085-40-206	219 (8.6)	240 (9.4)	32 (1.3)	OPT.

FACE HOLDER-L



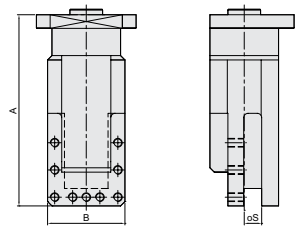
Model	A	B	S	
1085-40-205	219 (8.6)	240 (9.4)	32 (1.3)	OPT.

CONNECTION HOLDER



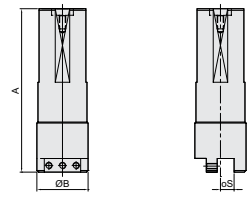
Model	A	B	S	
1085-40-209	149 (5.9)	185 (7.3)	-	OPT.

EXTENSION HOLDER



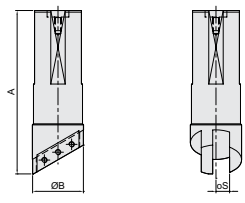
Model	A	B	S	
1085-40-208	351 (13.8)	142 (5.6)	32 (1.3)	OPT.

BORING BAR



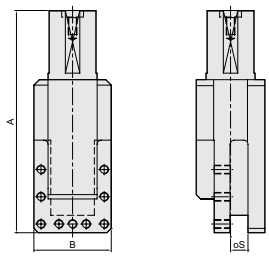
Model	A	B	S	
1085-40-305	300 (11.8)	94 (3.7)	25 (1)	STD.
1085-40-307	400 (15.7)	94 (3.7)	25 (1)	OPT.

BORING BAR



Model	A	B	S	
1085-40-306	300 (11.8)	94 (3.7)	25 (1)	STD.
1085-40-308	400 (15.7)	94 (3.7)	25 (1)	OPT.

EXTENSION BAR



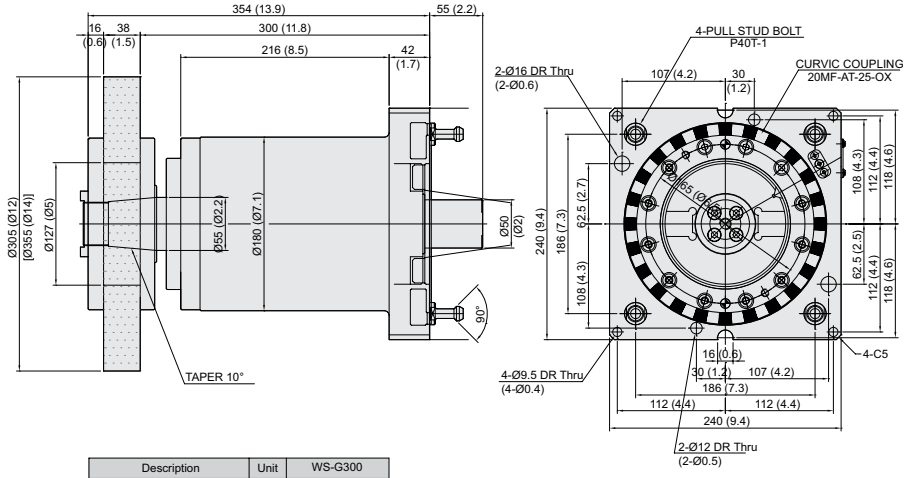
Model	A	B	S	
1085-40-207	408 (16.1)	142 (5.6)	32 (1.3)	OPT.

Tooling System (LV2000MM _ BT50)

unit : mm(in)

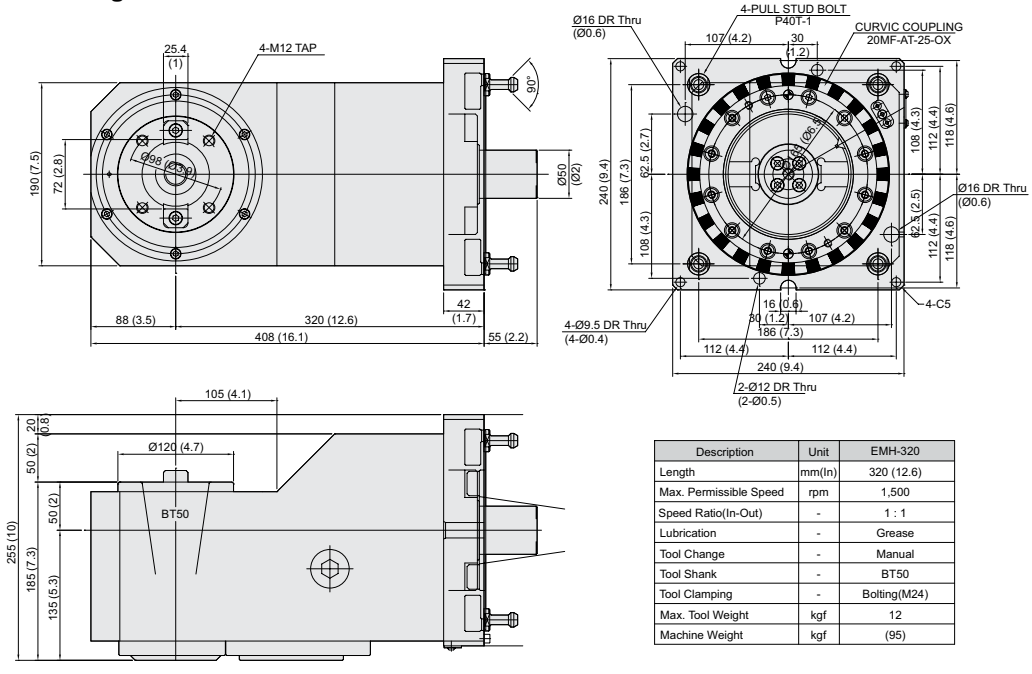
OPTION

Grinding Head



Description	Unit	WS-G300
Length	mm(in)	300 (11.8)
Max. Permissible Speed	rpm	1800
Speed Ratio(In-Out)	-	1 : 1
Lubrication	-	Grease

Angle Head



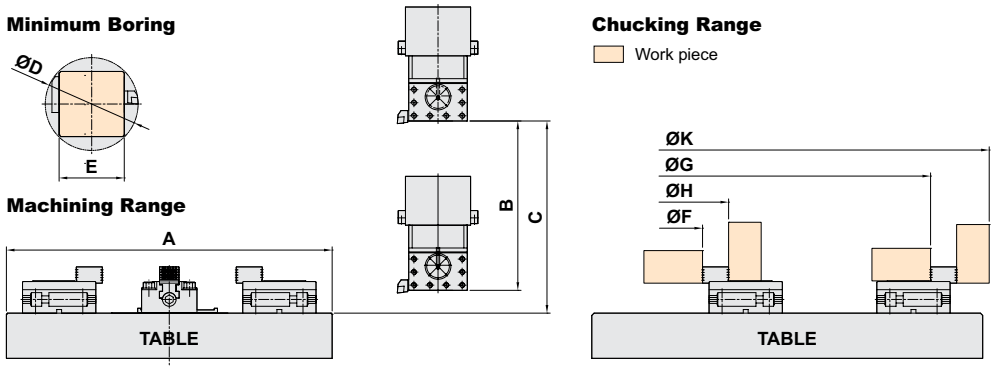
Description	Unit	EMH-320
Length	mm(In)	320 (12.6)
Max. Permissible Speed	rpm	1,500
Speed Ratio(In-Out)	-	1 : 1
Lubrication	-	Grease
Tool Change	-	Manual
Tool Shank	-	BT50
Tool Clamping	-	Bolting(M24)
Max. Tool Weight	kgf	12
Machine Weight	kgf	(95)

These attachments are only applicable in mm unit.

SPECIFICATIONS

Tooling Travel Range

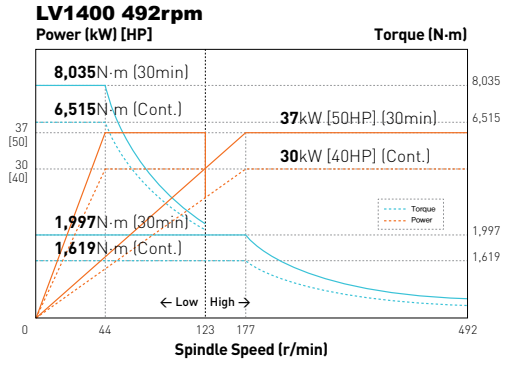
unit : mm(in)

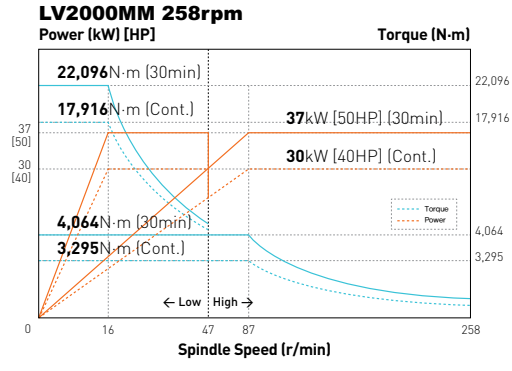


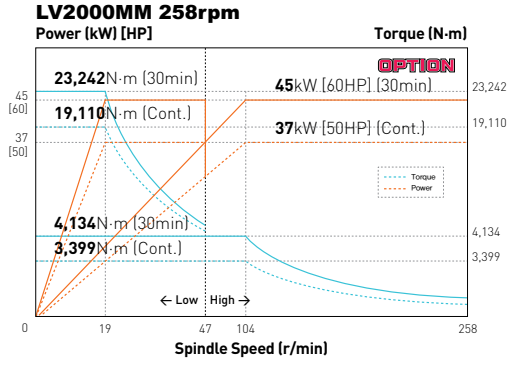
Model	A	B	C	D	E	F	G	H	K	
LV1400	1000 (39.4)	800 (31.5)	850 (33.5)	285 (11.2)	200 (7.9)	319 (12.6)	*	*	1052 (41.4)	Hydraulic Chuck (STD.)
	1000 (39.4)	800 (31.5)	850 (33.5)	285 (11.2)	200 (7.9)	220 (8.7)	890 (35)	360 (14.2)	1000 (39.4)	Independent Chuck (OPT.)
LV2000MM	1600 (63)	915 (36)	MAX.1700 (MAX.67) MIN.950 (MIN.37.4)	335 (13.2)	240 (9.4)	291 (11.5)	1501 (59.1)	451 (17.8)	1661 (65.4)	Independent Chuck (STD.)

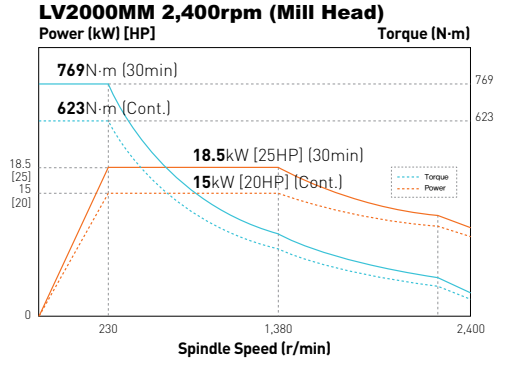
* : The shape of soft jaw changes chucking area.

Spindle Output/Torque Diagram









SPECIFICATIONS

Specifications

[ ] : Option

ITEM			LV1400	LV2000MM
CAPACITY	Max. Swing	mm(in)	Ø1,450 (Ø57.1″)	Ø2,040 (Ø80.3″)
	Max. Turning Dia.	mm(in)	Ø1,400 (Ø55.1″)	Ø2,000 (Ø78.7″)
	Max. Turning Height	mm(in)	850 (33.5″)	1,700 (66.9″)
	Max. Load Capacity	Kg(lb)	4,400 (9,700)	10,000 (22,046)
FEED	X-Axis	mm(in)	-50 ~ +825 (-2″~+32.5″)	-250 ~ +1,180 (-9.8″~+46.5″)
	Z-Axis	mm(in)	800 (31.5″)	915 (36″)
	C-Axis	deg	-	360
	W-Axis	mm(in)	-	250 (9.8″)×3 Steps
RAPID TRAVERSE RATE	X/Z-Axis	m/min(ipm)	12/12 (472/472)	
	C-Axis	deg/min	-	750
RAM HEAD	Ram Size	mm(in)	200 (7.9″)	Turning 240 (9.4″) (Milling BT50)
	Live Tool Speed	r/min	-	2,400
	Live Tool Power (Max./Cont.)	kW(HP)	-	18.5/15 (25/20.1) [High Torque Motor]
	Live Tool Torque	N·m (lbf·ft)	-	769 (567.2)
TABLE	Table Size	mm(in)	Ø1,000 (Ø39.4″)	Ø1,600 (Ø63″)
	Table Speed	r/min	492	258 [258]
	Table Max. Torque	N·m (lbf·ft)	8,035 (5,926.3)	22,096 (16,297.2) [23,242 (17,142.4)]
	Tabel Power (Max./Cont.)	kW(HP)	37/30 (50/40)	37/30 (50/40) [45/37 (60/450)]
ATC	Number of Tools	EA	12 [16] (Turing 12 [16])	18 (Turning 10 + Milling 7 + Dummy 1)
	Tool Size OD./ID.	mm(in)	□32 (□1.3″)/□22 (□0.9″)	□32 (□1.3″)/□25 (□1″)
POWER	Electric Power Supply	kVA	45	65
MACHINE	Floor Space (L×W)	mm(in)	3,685×3,276 (145.1″×129″)	5,683×3,937 (223.7″×155″)
	Height	mm(in)	4,336 (170.7″)	6,177 (243.2″)
	Weight	kg(lb)	14,500 (31,967)	29,000 (63,934)
NC	Controller	-	FANUC 32iB-PLUS [FANUC 0i PLUS]	

※ Prior consultation is required when applying spindle contouring control for gear driven spindle.

Standard & Optional

LV1400	
Standard	40″ 3 Jaw Hydraulic Chuck | Soft Jaw(1set) | Chuck Clamp Foot Switch | Chuck Open/Close Confirmation Device | Standard Tool Holder | Remote MPG Standard Coolant (Nozzle) | Bed Flushing | Coolant Tank | Front Door Inter-Lock | 3 Color Call Light & Buzzer | Work Light | Leveling block | Foundation Bolt & Nut
Option	50″ 4 Jaw | Independent Chuck | 50″ 4 Jaw Hydraulic Chuck | Gun Coolant | Chip Conveyor (Hinge) | Chip disposal : Rear, Right | Chip Wagon (Standard 180 ℓ [47.5 gal] Swing 200 ℓ [52.8 gal] Large Size 330 ℓ [87.2 gal]) | Q-setter | Air Conditioner | Oil Skimmer | Transformer | Auto Power Off | X, Z Axis Linear Scale | High Column 200mm (7.9″) | Air Gun
LV2000MM	
Standard	63″ Manual Table | Chuck JAW 4set | Standard Tool Holder | Standard Coolant (Nozzle) | SP. Thru Coolant (10bar [145 psi]) | Air Gun | Coolant Tank | Front Door Inter-Lock | 3 Color Call Light & Buzzer | Work Light | Leveling block | Foundation Bolt & Nut | X,Z Axis Linear Scale | Bed Flushing | Remote MPG
Option	SP. Thru Coolant (20bar [290 psi]) | Gun Coolant | Chip Conveyor (Hinge) | Chip disposal : Rear, Right | Chip Wagon (Standard 180 ℓ [47.5 gal] Swing 200 ℓ [52.8 gal] Large Size 330 ℓ [87.2 gal]) | Q-setter | Air Conditioner | Oil Skimmer | Transformer | Auto Power Off

Standard Tool Holder

LV1400	1084-40-203: FACE HOLDER A(2EA)	1084-40-204: BORING BAR HOLDER (2EA)
	1084-40-205: FACE HOLDER B(1EA)	1084-40-206: FACE HOLDER C(1EA)
	1084-40-207: BORING BAR(1EA)	1084-40-208: BORING BAR(1EA)
LV2000MM	1085-40-201: FACE HOLDER A(2EA)	1085-40-204: BORING BAR HOLDER (2EA)
	1085-40-305: BORING BAR (1EA)	1085-40-306: BORING BAR (1EA)

Specifications are subject to change without notice for improvement.

CONTROLLER

FANUC 32i-B Plus

[ ] : Option

Controlled axis / Display / Accuracy Compensation	
Control axis	4 axis (X, Z, Y, C) / 6 axis (X, Z, Y, B, C, A)
	7 axis (X1/Z1, X2/Z2, B2, C1/C2)
	8 axis (X1/Z1, X2/Z2, Y1, B2, C1/C2)
Simultaneously controlled axis	2 axis [Max. 4 axis]
Designation of spindle axis	4 axis (1 path), 6 axis (2 path Total)
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Least input increment	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axis / Each axis
Machine lock	All axis
Backlash compensation	± 0 ~ 9999 pulses (Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	15 inch color LCD
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run, Program check
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Nano interpolation	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02, G03
Helical interpolation	
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference : G28 / 2nd reference : G30
	Ref. position check : G27
Thread synchronous cutting	
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse
	Jog : 0~2,000 mm/min (79 ipm)
	Manual handle : x1, x10, x100 pulses
	Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	F1%, F25%, 50%, F100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
Program input	
Tape Code	EIA / ISO
Optional block skip	9 ea
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #149, #500 ~ #549
G code system	A/B/C
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Direct drawing dimension program	Including Chamfering / Corner R

Program input	
Multiple repetitive cycles Ⅰ, Ⅱ	
Canned cycle for turning	
Manual Guide i	Conversational auto program
Auxiliary function / Spindle speed function	
Auxiliary function	M 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S 4 digit , Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19
Rigid tapping	
Constant surface speed control	G96, G97
Tool function / Tool compensation	
Tool function	T 2 digit + Offset 2 digit
Tool life management	
Tool offset pairs	200 pairs
Tool nose radius compensation	G40, G41, G42
Geometry / Wear compensation	
Direct input of offset measured B	
Editing function	
Part program storage size	8M
No. of registerable programs	1000 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	CF card, USB memory
	Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 20 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
Function for machine type	
Cs contour control (C & A axis)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polar coordinate interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Cylindrical interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTS
Canned cycle for drilling	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Spindle orientation expansion	MS, SY TTS, TTMS, TTSY
Spindle synchronous control	MS, SY TTS, TTMS, TTSY
Torque control	MS, SY TTS, TTMS, TTSY
Y axis offset	Y, SY, TTSY
Arbitrary angular control	Y, SY, TTSY
Composite / Superimposed control	MS, SY TTS, TTMS, TTSY
Balance cutting	MS, SY TTS, TTMS, TTSY

Option	
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Dynamic graphic display	

Figures in inch are converted from metric values.
The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

CONTROLLER

FANUC i Series - Smart Plus

[ ] : Option

Controlled axis / Display / Accuracy Compensation	
Control axis	2 axis (X, Z) / 3 axis (X, Z, C) / 4 axis (X,Z,Y,C)
	5 axis (X, Z, B, C, A) / 6 axis (X, Z, Y, B, C, A)
	7 axis (X1/Z1, X2/Z2, B2, C1/C2)
Simultaneously controlled axis	2 axis [Max. 4 axis]
Designation of spindle axis	3 axis [Max. 4 axis]
Least setting Unit	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Least input increment	X, Z, Y, B axis : 0.001 mm (0.0001 inch)
	C, A axis : 0.001 deg
Inch / Metric conversion	G20 / G21
High response vector control	
Interlock	All axis / Each axis
Machine lock	All axis
Backlash compensation	± 0~9999 pulses (exc.Rapid traverse / Cutting feed)
Position switch	
LCD / MDI	15 inch LCD unit (with Touch Panel)
Feedback	Absolute motor feedback
Stored stroke check 1	Over travel
Stored stroke check 2, 3	
PMC axis control	
Operation	
Automatic operation (Memory)	
MDI operation	
DNC operation	Needed DNC software / CF card
Program restart	
Wrong operation prevention	
Program check function	Dry run
Single block	
Search function	Program Number / Sequence Number
Interpolation functions	
Nano interpolation	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02, G03
Exact stop mode	Single : G09, Continuous : G61
Dwell	G04, 0 ~ 9999.9999 sec
Skip	G31
Reference position return	1st reference : G28, 2nd reference : G30
	Ref. position check : G27
Thread synchronous cutting	G33
Thread cutting retract	
Variable lead thread cutting	
Multi / Continuous threading	
Feed function / Acc. & Dec. control	
Manual feed	Rapid traverse
	Jog : 0~2,000 mm/min (79 ipm)
	Manual handle : x1, x10, x100 pulses
	Reference position return
Cutting Feed command	Direct input F code
Feedrate override	0 ~ 200% (10% Unit)
Rapid traverse override	1%, F25%, 50%, 100%
Override cancel	
Feed per minute	G98
Feed per revolution	G99
Look-ahead block	1 block
Program input	
Tape Code	EIA / ISO
Optional block skip	9 ea
Program stop / end	M00, M01 / M02, M30
Maximum command unit	± 999,999.999 mm (± 99,999.9999 inch)
Plane selection	X-Y : G17 / Z-X : G18 / Y-Z : G19
Workpiece coordinate system	G52, G53, 6 pairs (G54 ~ G59)
Manual absolute	Fixed ON
Programmable data input	G10
Sub program call	10 folds nested
Custom macro	#100 ~ #199, #500 ~ #999
G code system	A, B/C
Programmable mirror image	G51.1, G50.1
G code preventing buffering	G4.1
Direct drawing dimension program	Including Chamfering / Corner R
Conversational Program	Smart Guide-i

Program input	
Multiple repetitive cycles Ⅰ, Ⅱ	
Canned cycle for turning	
Auxiliary function / Spindle speed function	
Auxiliary function	M & 4 digit
Level-up M Code	High speed / Multi / Bypass M code
Spindle speed function	S & 5 digit , Binary output
Spindle override	0% ~ 150% (10% Unit)
Multi position spindle orientation	M19 (S##)
Rigid tapping	
Constant surface speed control	G96, G97
Tool function / Tool compensation	
Tool function	T & 2 digit + Offset 2 digit
Tool life management	
Tool offset pairs	128 pairs
Tool nose radius compensation	G40, G41, G42
Geometry / Wear compensation	
Direct input of offset measured B	
Editing function	
Part program storage size	5,120m (2MB)
No. of registerable programs	1,000 ea
Program protect	
Background editing	
Extended part program editing	Copy, move and change of NC program
Memory card program edit	
Data input / output & Interface	
I/O interface	CF card, USB memory
	Embedded Ethernet interface
Screen hard copy	
External message	
External key input	
External workpiece number search	
Automatic data backup	
Setting, display and diagnosis	
Self-diagnosis function	
History display & Operation	Alarm & Operator message & Operation
Run hour / Parts count display	
Maintenance information	
Actual cutting feedrate display	
Display of spindle speed / T code	
Graphic display	
Operating monitor screen	Spindle / Servo load etc.
Power consumption monitoring	Spindle & Servo
Spindle / Servo setting screen	
Multi language display	Support 24 languages
Display language switching	Selection of 5 optional Languages
LCD Screen Saver	Screen saver
Unexpected disturbance torque	BST (Back spin torque limit)
Function for machine type	
Cs contour control (C & A axis)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polar coordinate interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Cylindrical interpolation	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Polygon turning (2 Spindles)	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Canned cycle for drilling	Mill, MS, Y, SY, LF-Mill, TTMS, TTSY
Spindle orientation expansion	MS, SY TTS, TTMS, TTSY
Spindle synchronous control	MS, SY TTS, TTMS, TTSY
Torque control	MS, SY TTS, TTMS, TTSY
Y axis offset	Y, SY, TTSY
Arbitrary angular control	Y, SY, TTSY
Composite / Superimposed control	MS, SY, TTS, TTMS, TTSY
Balance cutting	TTS, TTMS, TTSY

Option	
Fast ethernet	Needed option board
Data server	Needed option board
Protection of data at 8 levels	
Tool offset pairs	200 pairs
Helical interpolation	
Look-ahead Block	40 ea, 200 ea (AICC Ⅱ)

Figures in inch are converted from metric values.
The FANUC controller specifications are subject to change based on the policy of company CNC supplying.

LV1400
Movie

LV2000MM
Movie

WIA MACHINE TOOLS

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