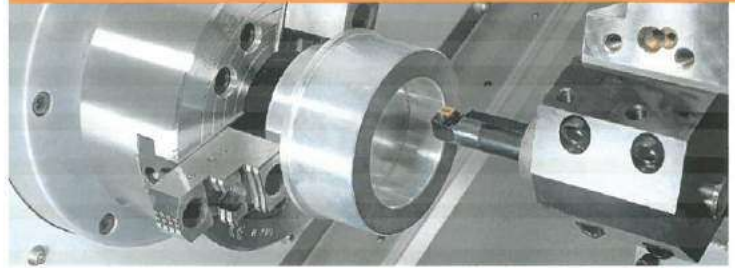


MT-518/520 Series

CNC Lathes



ECOCA[®]
— Focus on every detail —

Machine-----HIGH-PERFORMANCE DESIGN

- » 1 meter swing with 5 meter cutting length meets the trend for bigger and longer turning demands.
- » 45 degree bed slantness provides good chip disposal function necessary for big turning jobs.
- » High-rigidity turret with sturdy programmable tailstock and steady rest (optional) provides a structure with massive rigidity.

■ Live tooling BMT turret (opt.)



■ Sturdy spindle headstock with heat dissipation design



■ Spindle gear box transmission



■ C-Axis (CF) mechanism (opt.)

■ Live tooling



■ Preparatic (opt.)



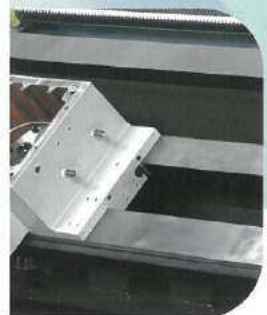
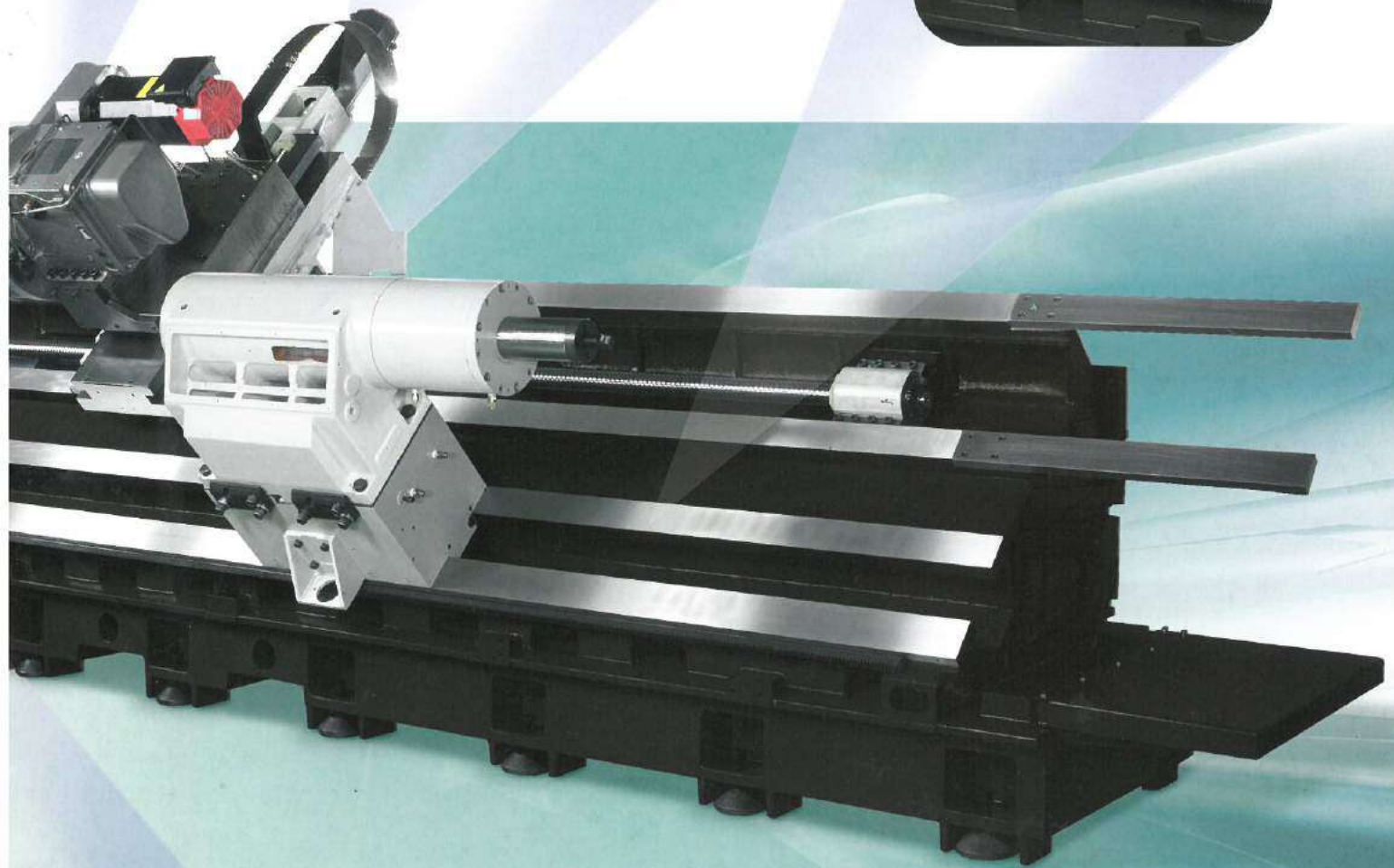
VDI turret (opt.)



■ Programmable strong and rigid tailstock



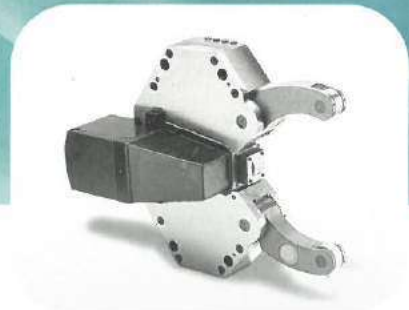
■ Hardened and ground box guide-ways



or hydraulic steady rest



■ Manual steady rest (opt.)



■ Hydraulic steady rest (opt.)



CNC controller standard & options function list

○ : Standard

NA: Not Available

ITEM	FUNCTION NAME	SPECIFICATIONS	OiT-C	21iT-B
CONTROL AXIS	Synchronous axis		X, Z, C	X, Z, C
	Minimum input command	0.001mm	○	○
	Minimum command input value	0.000mm	○	○
	Mirror image		○	○
	Fine acc/dec control		○	○
FEED FUNCTION	Feedrate override range	0~150% (per unit 10%)	○	○
	Dwell function	G04	○	○
	Reference return	G28	○	○
	M.P.G feed multiple	X1, X10, X100	○	○
	Rapid feedrate	F0, 25, 50, 100%	○	○
	Feed per minute	G98	○	○
	Feed per revolution	G99	○	○
SPINDLE	Spindle orientation function	M19	○	○
	Rigid tapping	G84, G88 (MC model only)	○	○
	CS axis control	(MC model only)	○	○
	Spindle override	50~120%	○	○
	Serial spindle output. (2nd spindle)	(MC model only)	○	○
	Surface speed control	G96, G97	○	○
SERVO	Cylindrical interpolation function	G107 (MC model only)	○	○
	Incremental system 1/10		○	○
	Polar coordinate interpolation	G112, G113 (MC model only)	○	○
	Stroke travel check	Over travel control	○	○
TOOL	Tool command format	T4 digital	○	○
	Tool nose radius compensation	G40~G42	○	○
	Tool offset pair number		32 pairs	32 pairs
	Tool geometry / wear offset		○	○
PROGRAM	Absolute / Incremental program input	G22, G23	○	○
	Multiple canned cycle	G70~G76	○	○
	Program decimal input		○	○
	Metric / Inch convert	G20, G21	○	○
	ARC interpolation	G02, G03	○	○
	Call sub-program	M98 (total 4 nests)	○	○

With An Advanced Control System: FANUC i Series

STANDARD ACCESSORIES

- 3-jaw hydraulic chuck
 - Programmable tailstock
 - Hydraulic system
 - Coolant system
 - Auto lubrication system
 - Work light equipment
 - Heat exchanger
 - Levelling pads
 - Soft jaw
 - Live center
 - Chip conveyor within chip bucket
 - Tool box
 - Facing tool holder x 2pcs
 - Boring bar holder (ø60mm) x 6pcs
 - Boring bar sleeves (ø16/20/25/32/40/50mm) x 2pcs
 - MPG hand wheel
 - Morse taper sleeve (MT#3/4/5) x 1pcs
 - Foot switch for chuck clamp
 - Operation & maintenance manuals
- ※ Tool holders & sleeves are optional for living tool

OPTIONAL ACCESSORIES

- Preparation for steady rest
- Steady rest
- Safety torque limit clutch
- Air conditioner for electric cabinet
- Tool setter
- CE mark
- Transformer
- Levelling kit

ITEM	FUNCTION NAME	SPECIFICATIONS	OiT-D	21iT-B
PROGRAM	Threading cycle retract		<input type="radio"/>	<input type="radio"/>
	Coordinate system extend	G52~G59	<input type="radio"/>	Opt.
	M code function	M code 2 & 3 digital	<input type="radio"/>	<input type="radio"/>
	Macro B		<input type="radio"/>	<input type="radio"/>
	Macro common variable extend	#100~#199, #500~#999	<input type="radio"/>	Opt.
	Continue threading cutting		<input type="radio"/>	<input type="radio"/>
	Drilling cycle	G83	<input type="radio"/>	<input type="radio"/>
	Drawing dimension direct input		<input type="radio"/>	Opt.
	Multiple canned cycle 2		<input type="radio"/>	Opt.
	Chamfering cancel (ON/OFF)	Apply G92	<input type="radio"/>	<input type="radio"/>
	External data input	G10	<input type="radio"/>	<input type="radio"/>
F10/11 tape format		<input type="radio"/>	Opt.	
I/O	I/O code	ISO/EIA code	<input type="radio"/>	<input type="radio"/>
	I/O interface	RS-232C	<input type="radio"/>	<input type="radio"/>
	Stroke program length		640M	640M
	Program set number		400EA	200EA
	Program call function	Call sequence number	<input type="radio"/>	<input type="radio"/>
OTHER	Monitor		8.4" LCD color	10.4" LCD color
	Background editing		<input type="radio"/>	<input type="radio"/>
	Help function		<input type="radio"/>	<input type="radio"/>
	Cycle time & parts counter display		<input type="radio"/>	<input type="radio"/>
	Self diagnostic function		<input type="radio"/>	<input type="radio"/>
	Load display function	Spindle & servo	<input type="radio"/>	<input type="radio"/>
	Extend parts program editing	Program copy etc.	<input type="radio"/>	<input type="radio"/>
	Optional block skip function		<input type="radio"/>	<input type="radio"/>
	Read / punch interface		<input type="radio"/>	<input type="radio"/>
	External message display		<input type="radio"/>	<input type="radio"/>
	External deceleration function		<input type="radio"/>	<input type="radio"/>
	3rd axis display function	C axis display (MC model only)	<input type="radio"/>	<input type="radio"/>
	M,S,T code function lock		<input type="radio"/>	<input type="radio"/>
	External position switching		<input type="radio"/>	<input type="radio"/>
Graphic conversation function	MANUAL GUIDE Oi (8.4" LCD)	<input type="radio"/>	NA	
Graphic conversation function	TURN MATE	NA	NA	
Graphic conversation function	MANUAL GUIDE i (10.4" LCD)	Opt.	<input type="radio"/>	

Machine Specifications

			MT-518	MT-518MC	MT-520	MT-520MC	
DIMENSION	Swing over bed	mm	ø1000	ø1000	ø1000	ø1000	
	Bed width / Slantness		1480mm/45°	1480mm/45°	1480mm/45°	1480mm/45°	
	Swing over cross slide	mm	ø700	ø600	ø700	ø600	
	MAX. turning dia.	mm	ø800	ø730	ø800	ø730	
	MAX. turning length	mm	2100/3100/4100/5100	2100/3100/4100/5100	2100/3100/4100/5100	2100/3100/4100/5100	
SPINDLE	Draw tube dia.	mm	ø117	ø117	ø117	ø117	
	Chuck size	inch	18	18	20	20	
	Spindle drive motor & power		α 40/6000i(37/45kw)	α 40/6000i(37/45kw)	α 40/6000i(37/45kw)	α 40/6000i(37/45kw)	
	Spindle transmission		Gear box transmission (2-step)	Gear box transmission (2-step)	Gear box transmission (2-step)	Gear box transmission (2-step)	
	Spindle speed range	rpm	124~496(L), 1800(H)	124~496(L), 1800(H)	124~496(L), 1500(H)	124~496(L), 1500(H)	
	Milling drive motor & power		--	α 8/8000i(7.5/11kw)	--	α 8/8000i(7.5/11kw)	
	Milling speed range	rpm	--	3000	--	3000	
	Spindle nose		ASA A2-11	ASA A2-11	ASA A2-15	ASA A2-15	
	Spindle bore	mm	ø140	ø140	ø153	ø153	
	Front bearing dia.	mm	ø200	ø200	ø220	ø220	
	Spindle taper		1/20	1/20	1/20	1/20	
	FEEDRATE	X axis travel	mm	435	435	435	435
		Z axis travel	mm	2200/3200/4200/5200	2200/3200/4200/5200	2200/3200/4200/5200	2200/3200/4200/5200
X axis drive motor & power			α 40/3000Bi(6kw) (Build-in brake)	α 40/3000Bi(6kw) (Build-in brake)	α 40/3000Bi(6kw) (Build-in brake)	α 40/3000Bi(6kw) (Build-in brake)	
Z axis drive motor & power			α 40/3000i(6kw)	α 40/3000i(6kw)	α 40/3000i(6kw)	α 40/3000i(6kw)	
X axis rapid traverse		m/min	12	12	12	12	
Z axis rapid traverse		m/min	10	10	10	10	
Guideways			Hard Rails	Hard Rails	Hard Rails	Hard Rails	
TURRET	Turret type		Hydraulic	Servo	Hydraulic	Servo	
	No. of tool stations		12T	VDI 12T	12T	VDI 12T	
	O.D. tool size	mm	32	32	32	32	
	I.D. tool size	mm	ø60/80(opt.)	ø50(VDI 60)	ø60/80(opt.)	ø50(VDI 60)	
TAILSTOCK	Quill dia.	mm	ø235	ø235	ø235	ø235	
	Quill travel	mm	200	200	200	200	
	Tailstock travel	mm	1880/2880/3880/4880	1880/2880/3880/4880	1880/2880/3880/4880	1880/2880/3880/4880	
	Quill taper		MT#6	MT#6	MT#6	MT#6	
OTHERS	Electrical power supply	KVA	80	80	80	80	
	Coolant tank capacity	L	650/750/850/950	650/750/850/950	650/750/850/950	650/750/850/950	
	Coolant flow	L/min	225	225	225	225	
	Total height	mm	2850	2850	2850	2850	
	Floor space (L)	mm	6020/7050/8100/9150	6020/7050/8100/9150	6020/7050/8100/9150	6020/7050/8100/9150	
	Floor space (W)	mm	2920	2920	2920	2920	
Machine weight (N.W.)	Ton.	16.5/18.5/20.5/22.5	16.5/18.5/20.5/22.5	17.5/19.5/21.5/23.5	17.5/19.5/21.5/23.5		

* All specifications, designs and characteristics shown in this catalogue are subject to change without prior notice.
* Motor specifications are based on machines with FANUC control system.

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