

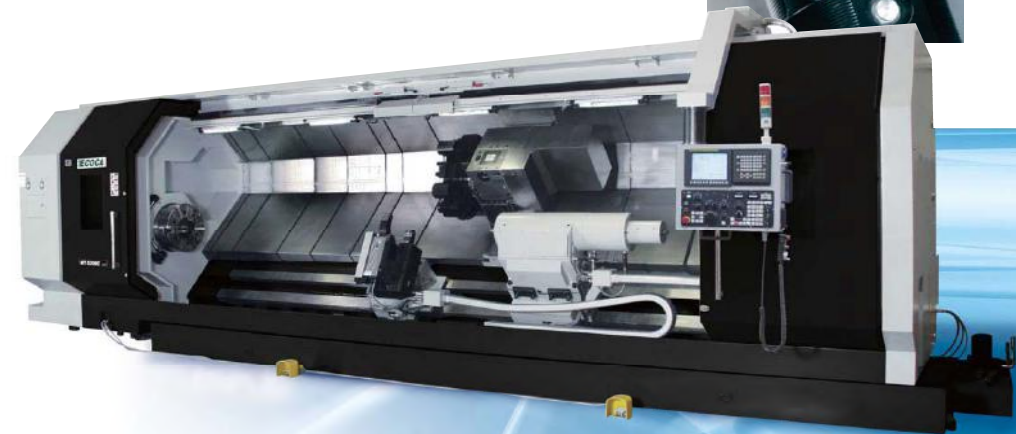
## Machine Specifications

ITEM		MT-518	MT-518MC	MT-520	MT-520MC		
DIMENSION	Swing over bed	mm	φ1000	φ1000	φ1000	φ1000	
	Bed width / Slantness		1480mm/45°	1480mm/45°	1480mm/45°	1480mm/45°	
	Swing over cross slide	mm	φ700	φ600	φ700	φ600	
	MAX. turning dia.	mm	φ800	φ730	φ800	φ730	
	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	φ117	φ117	φ117	φ117	
	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	φ140	φ140	φ153	φ153	
	Front bearing dia.	mm	φ200	φ200	φ220	φ220	
FEEDRATE	Spindle taper		1/20	1/20	1/20	1/20	
	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	φ60/80(opt.)	φ50(VDI 60)	φ60/80(opt.)	φ50(VDI 60)	
TAILSTOCK	Quill dia.	mm	φ235	φ235	φ235	φ235	
	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.

## MT-518/520 Series

### CNC Lathes



**ECOCA**  
 —Focus on every detail—

ECOCA INDUSTRIAL CO., LTD.

401, 28TH ROAD, TAICHUNG INDUSTRIAL  
 PARK, TAICHUNG, TAIWAN.

TEL: +886-4-23597666 FAX: +886-4-23597669  
 http://www.ecoca.com E-mail: biz@ecoca.com

12-12.12-02/3E-1000-R03



**ECOCA**  
 —Focus on every detail—

- » 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.)



■ Live tooling VDI turret (opt.)



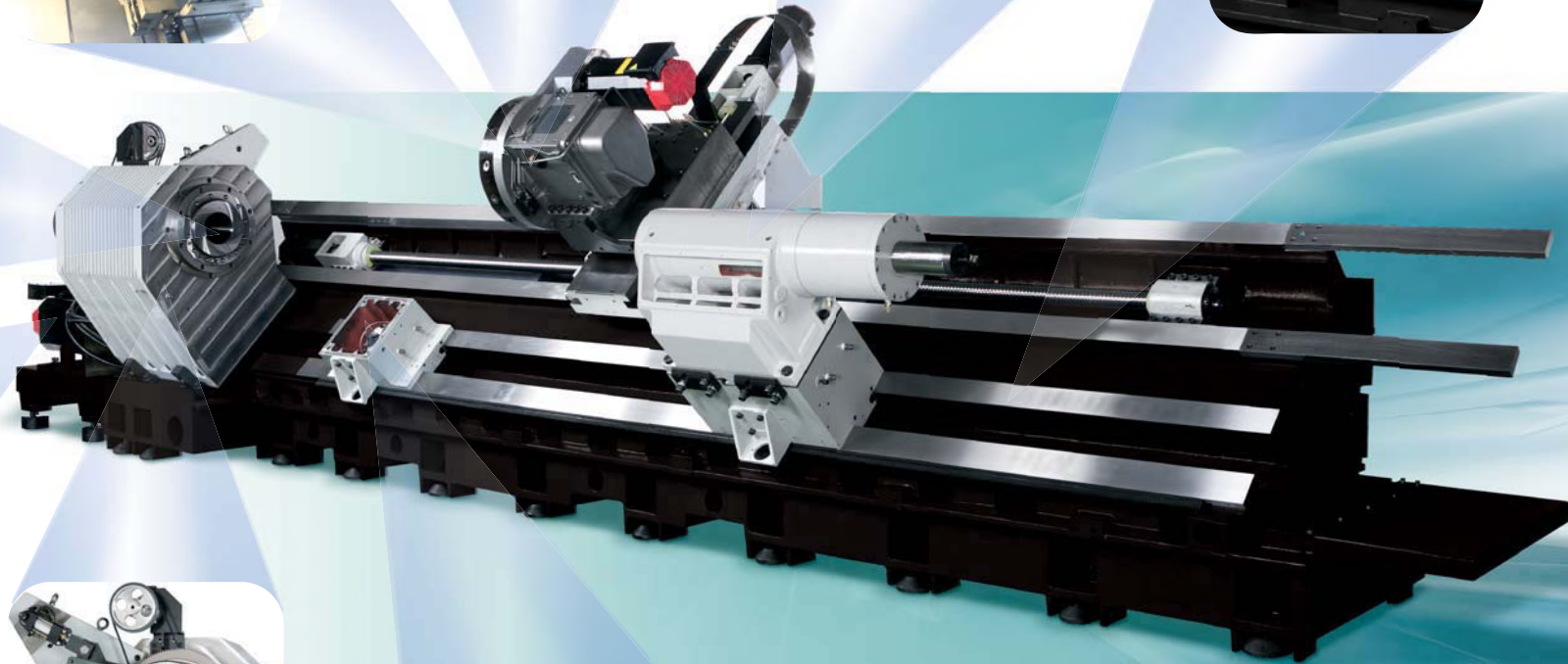
■ Programmable strong and rigid tailstock



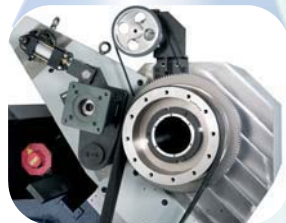
■ Hardened and ground box guide-ways



■ Sturdy spindle headstock with heat dissipation design



■ Spindle gear box transmission



■ C-Axis (CF) mechanism (opt.)



■ Preparation for hydraulic steady rest (opt.)



■ Manual steady rest (opt.)



■ Hydraulic steady rest (opt.)

## A Successful Machine 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
  - Boring bar holder & sleeves
  - Drill sleeves
  - MPG hand wheel
  - Morse taper sleeve
  - 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

## CNC controller standard &amp; options function list

○ : Standard NA: Not Available

ITEM	FUNCTION NAME	SPECIFICATIONS	OiT-C	21iT-B	ITEM	FUNCTION NAME	SPECIFICATIONS	OiT-C	21iT-B
CONTROL AXIS	Synchronous axis		X, Z, C	X, Z, C	PROGRAM	Threading cycle retract		○	○
	Minimum input command	0.001mm	○	○		Coordinate system extend	G52~G59	○	Opt.
	Minimum command input value	0.000mm	○	○		M code function	M code 2 & 3 digital	○	○
	Mirror image		○	○		Macro B		○	○
	Fine acc/dec control		○	○		Macro common variable extend	#100~#199, #500~#999	○	Opt.
FEED FUNCTION	Feedrate override range	0~150% (per unit 10%)	○	○		Continue threading cutting		○	○
	Dwell function	G04	○	○		Drilling cycle	G83	○	○
	Reference return	G28	○	○		Drawing dimension direct input		○	Opt.
	M.P.G feed multiple	X1, X10, X100	○	○		Multiple canned cycle 2		○	Opt.
	Rapid feedrate	F0, 25, 50, 100%	○	○		Chamfering cancel (ON/OFF)	Apply G92	○	○
	Feed pre minute	G98	○	○	External data input	G10	○	○	
	Feed per revolution	G99	○	○	F10/11 tape format		○	Opt.	
SPINDLE	Spindle orientation function	M19	○	○	I/O	I/O code	ISO/EIA code	○	○
	Rigid tapping	G84, G88 (MC model only)	○	○		I/O interface	RS-232C	○	○
	CS axis control	(MC model only)	○	○		Stroke program length		640M	640M
	Spindle override	50~120%	○	○		Program set number		400EA	200EA
	Serial spindle output. (2nd spindle)	(MC model only)	○	○		Program call function	Call sequence number	○	○
	Surface speed control	G96, G97	○	○	OTHER	Monitor		8.4" LCD color	10.4" LCD color
SERVO	Cylindrical interpolation function	G107 (MC model only)	○	○		Background editing		○	○
	Incremental system 1/10		○	○		Help function		○	○
	Polar coordinate interpolation	G112, G113 (MC model only)	○	○		Cycle time & parts counter display		○	○
	Stroke travel check		○	○		Self diagnostic function		○	○
TOOL	Tool command format	T4 digital	○	○		Load display function	Spindle & servo	○	○
	Tool nose radius compensation	G40~G42	○	○		Extend parts program editing	Program copy etc.	○	○
	Tool offset pair number		32 pairs	32 pairs		Optional block skip function		○	○
	Tool geometry / wear offset		○	○		Read / punch interface		○	○
PROGRAM	Absolute / Incremental program input	G22, G23	○	○		External message display		○	○
	Multiple canned cycle	G70~G76	○	○		External deceleration function		○	○
	Program decimal input		○	○		3rd axis display function	C axis display (MC model only)	○	○
	Metric / Inch convert	G20, G21	○	○		M,S,T code function lock		○	○
	ARC interpolation	G02, G03	○	○	External position switching		○	○	
	Call sub-program	M98 (total 4 nests)	○	○	Graphic conversation function	MANUAL GUIDE Oi (8.4" LCD)	○	NA	
					Graphic conversation function	TURN MATE	NA	NA	
				Graphic conversation function	MANUAL GUIDE i (10.4" LCD)	Opt.	○		

