

## CNC LATHE HARDINGE TALENT 51 B MSY



### TECHNICAL DATA

YEAR OF MANUFACTURING: 2018

CNC Fanuc Oi - TF Manual Guide – i

**WORKING AREA:**

Maximum rotation diameter on guide cover:	550 mm
Max bar diameter:	51 mm
Max working diameter:	310 mm
Max working length:	
CFS 20 C caliper:	536 mm
8" self-centering:	466 mm

**SPINDLE:**

Max speed:	5.000 rpm
Max power:	18.5 kW
Torque on the spindle (15 min):	Nm 165
Spindle nose:	A2 - 6

## AXIS TRAVELS AND FEEDS:

Max X axis travel:	190mm
Z axis max travel:	mm 652
X axis rapid travel:	m/min 30
Z axis rapid travel:	m/min 30
Y axis rapid travel:	m/min 10

## TOOL TURRET:

Bidirectional:	16 stations
Square seat tool holder:	20 mm
Round seat tool holder:	32 mm
Turret rotation/indexing time:	1 sec
Tool shank diameter with collets ER 25:	mm 2 - 16
Powered tools power (15 min):	3.7 kW
Torque:	Nm 23
Max speed:	6.000 rpm

## DIMENSIONS:

Machine length:	2.913 mm
Machine depth:	1.814 mm
Machine height:	1.932 mm
Approximate weight:	5.800 kg

## MACHINE COMPOSITION:

- FANUC 0iTF; machining diameter x turning length (resp. with 20C/autoc.8" collet) 290mm x 536/466mm; rotating diameter on guide cover 550mm; max. speed 5,000 rpm; CFS "Collet Ready" 20C chuck with A2-6 connection with chuck 20C CFS collet holder; bar passage  $\varnothing$  51mm; counter spindle; Y axis; BMT45 turret for tools motorized; with CE marking.
- 2 BMT 45 turret with 16 stations for driven tools
- Renishaw automatic lowering tool probe (HPMA motorized arm)
- Renishaw workpiece feeler (excluding sub-spindle)
- Conveyor piece unloading system
- Chip conveyor with scrapers
- Trolley 1 chip tray
- 70 Bar CTS pump with paper filtration system 1
- Air blowing through the TALENT 51 B turret
- FOX WS II oil mist purifier, STOCK brand, model WS500/330 equipped with: complete replacement filter kit
- Reductions inside the spindle, for 20C 1 spindle
- Reductions inside the chuck, for 6" 3-jaw chuck 1

- Detection of the presence of pieces in the counter spindle
- Ejection of counter-spindle pieces (for 6" 3-jaw chuck)
- Counter-spindle ejection of pieces (for 16C spindle)
- External transformer
- Three-color light column for signaling the machine's operating status
- Centralized grease lubrication (self-lubrication)
- Pedal control for opening/closing self-centering/collet of the main spindle
- Pedal control for opening/closing the self-centering/collet of the counter spindle
- Three-color light column for signaling the operating status
- Coolant on the head wall (main spindle & counter spindle)

#### CNC FANUC:

- Control panel mounted on hanging arm
- 10.4" LCD display
- Graphic display
- Integrated Ethernet port
- RS-232C serial ports
- Program resolution 0.0001" (0.001mm)
- Tool compensation 0.0001" (0.001mm) with geometry and wear compensation (99)
- Absolute encoders
- Metric/Inch system selection via G-Codes
- Program memory capacity 512KB