

LEADWELL
LEADWELL CNC MACHINES MFG., CORP.

**The Best Selling Machine,
Now Upgraded.
With High Performance**

NEW!

TDC-510i



Linear Way



- 10000 rpm spindle (12000/15000 rpm option)
- High speed ATC with 14 tool positions
- Full enclosed splash guard
- Fanuc 0i-MC controller
- Absolute encoders are standard
- Floor space requirement 1.5m x 2.5m
- Especially for 3C industry.
- CE approved (for CE only)

TDC-510i

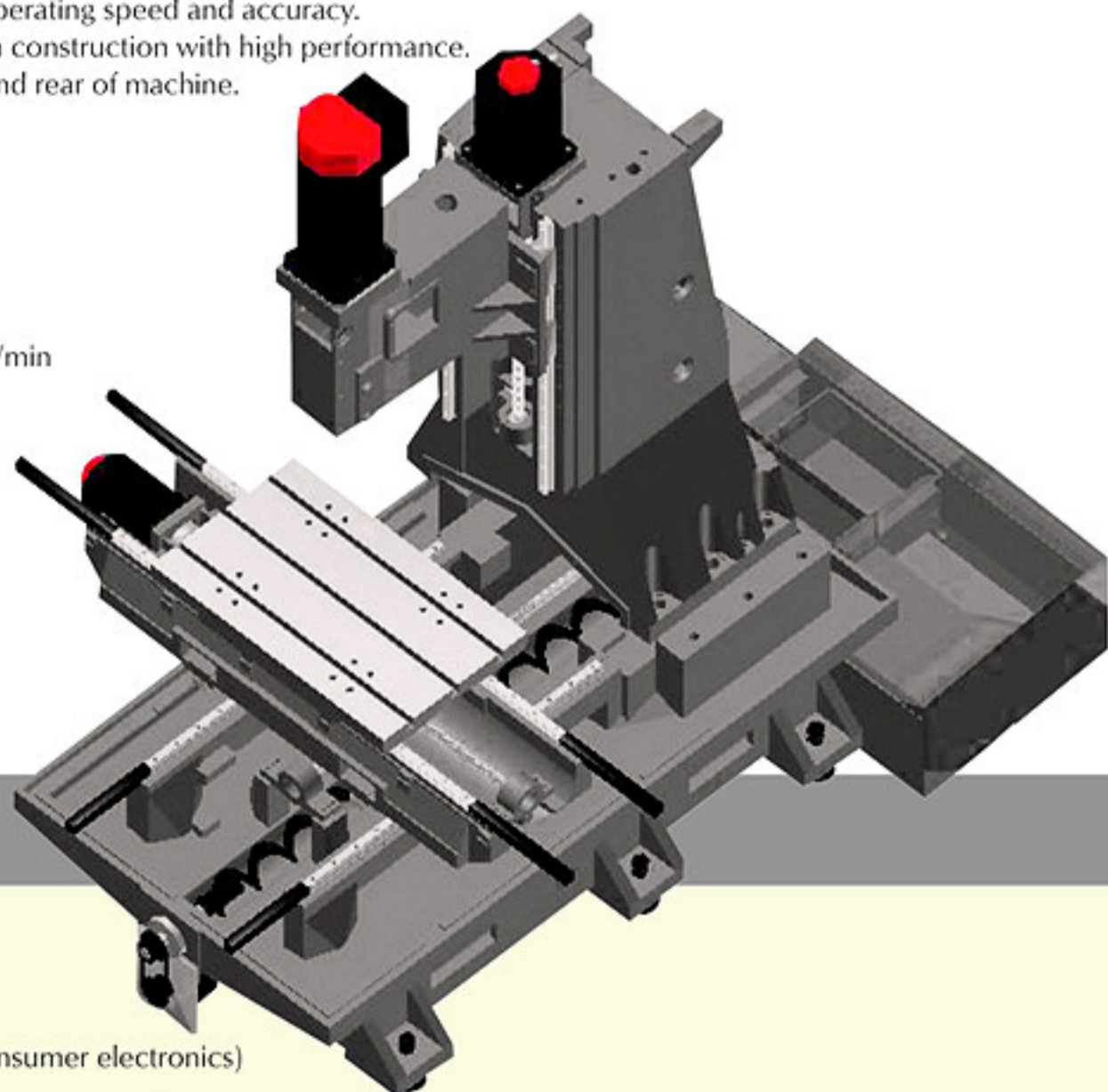
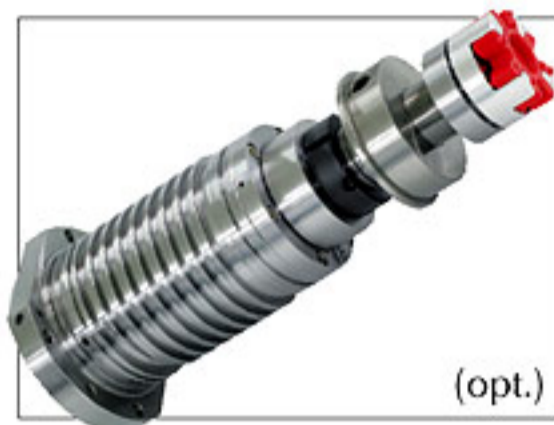
The Ultimate In Performance

FEATURES:

- The arm type ATC (option) is equipped with a roller cam mechanism and simultaneous tool unclamping system which ensure smooth and quick tool change (0.8 second Tool to Tool).
- Rapid traverse on all three axes up to 36/48(opt.) m/min boosts productivity.
- Compact design saves valuable floor space 1.5mx2.5m.
- The machine has absolute encoders to reduce set-up time and provides greater accuracy.
- Slant-shaped telescopic covers ensure easy chip disposal.
- Integrated bearing brackets casted with the base provide high rigidity and accuracy.
- HiHG SPEED AND HIGH ACCURACY 3 axes are driven by digital a series servo motors ensure outstanding operating speed and accuracy.
- ROBUST CAST IRON rigid cast iron construction with high performance.
- To concentrate chip to the center and rear of machine.
- 10000 rpm spindle (12000 option)
- Fully enclosed splash guard
- Absolute encoders are standard

SPECIFICATIONS:

- X/Y/Z travel 510/400/300 mm
- X/Y/Z rapid traverse 36/48(opt.) m/min
- Taper BT-30
- Spindle speed 10000/12000 rpm
- Tool change time 1.5 sec
- Arm Type 0.8 (option)



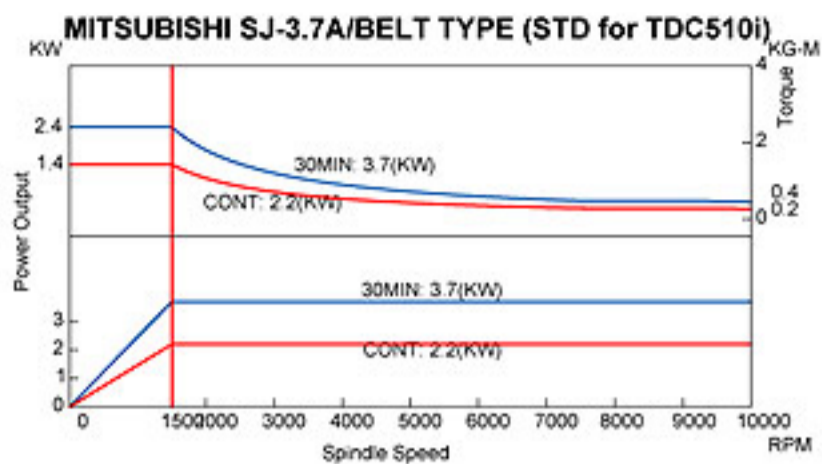
Components of 3C Industries

(Computer, Communication, and Consumer electronics)

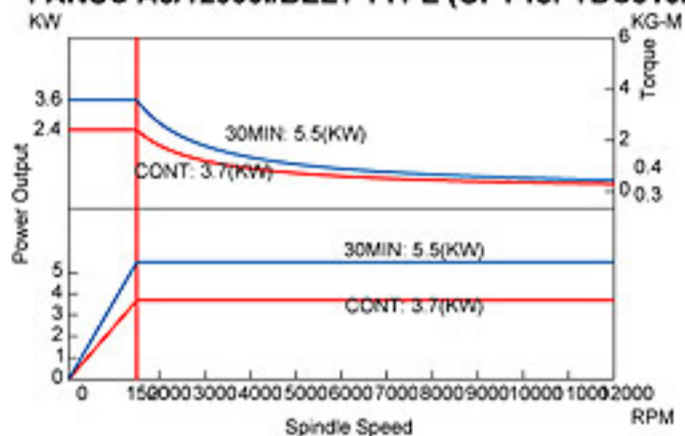
- Note book Case
- CDR Drive parts
- Mobilephone Case
- Bicycle Parts
- Pneumatic Tool Parts
- Timepiece Case
- Air Valve parts
- Metal Parts
- Sewing Machine Parts
- Office Machine Parts
- Aerospace Equipment Parts



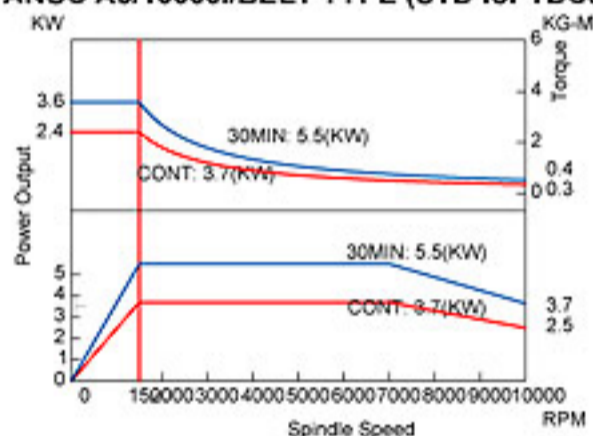
MITSUBISHI / FANUC



FANUC A3/12000i/BELT TYPE (OPT for TDC510i)



FANUC A3/10000i/BELT TYPE (STD for TDC510i)



Rear flushing devices on both sides

- The chip flushing devices provided at right and left side of the machine, and combined with skew surface on base top, for added efficiency in chip wash-down.

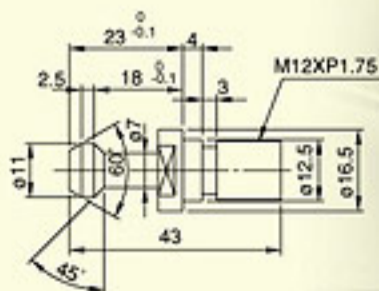
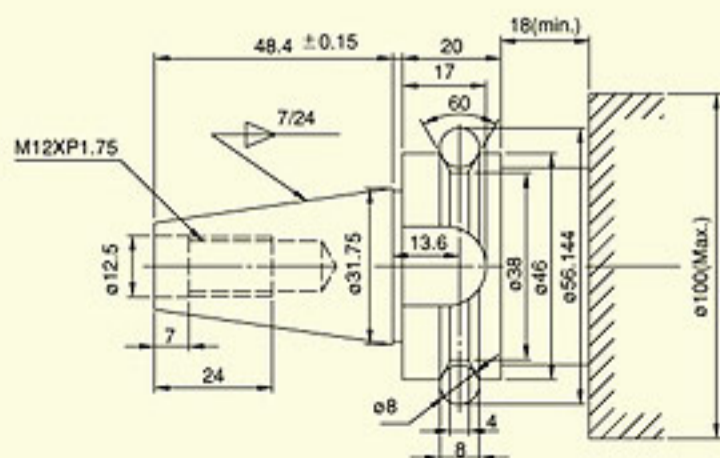


ARM-type ATC

- The ARM-type magazine provides a loading capacity of 20 tools. fast tool changing time is only 1 second with tool clamping mechanism.
- The tool magazine accommodates 7/24 taper tool shank and features random bi-directional tool selectin.



BT-30



MACHINE SPECIFICATIONS

ITEM	MODEL	TDC-510I
CAPACITY		
X-axis travel	mm (in)	510 (20.1)
Y-axis travel	mm (in)	400 (15.7)
Z-axis travel	mm (in)	300 (11.8)/400(15.7)ARM
Distance from table top to spindle end	mm (in)	170-470 (6.7-18.5)/170-570 (6.7-22.4)ARM
Distance from column front to spindle center	mm (in)	430 (16.9)
TABLE(PALLET)		
Working surface (high x width)	mm (in)	650x400 (25.6x15.7)
Permissible mass of workpiece	kg (lb)	250 (550)
SPINDLE		
Spindle speeds	rpm	10000/12000(opt.)
Spindle nose (nominal size, NO.)		7/24 Taper. No30
Spindle bearing inner diameter	mm (in)	45
FEEDRATE		
Rapid traverse	m/min(ft/min)	36 (1417)/48(1890)(opt.)
Feedrate	m/min(ft/min)	-
A.T.C		
Tool storage capacity	pcs	14/20 (opt.)ARM
Max. tool diameter(with adjacent tools)	mm (in)	90 (3.5)
Max. tool length	mm (in)	200 (7.9)
Tool change time(T-T/C-C)	sec	1.5/3.0
MOTORS		
Spindle motor	kw/HP	3.7 (5.5)
X/Y/Z axis feed motors	kw	1.6/1.6/3.0
MACHINE SIZE		
Height of machine	mm (in)	2225(87.6)
Floor space	mm (in)	1655x2360 (65.2x92.9)
Total machine weight	kg (lb)	2200 (4840)
Power requiremnt	KVA	15

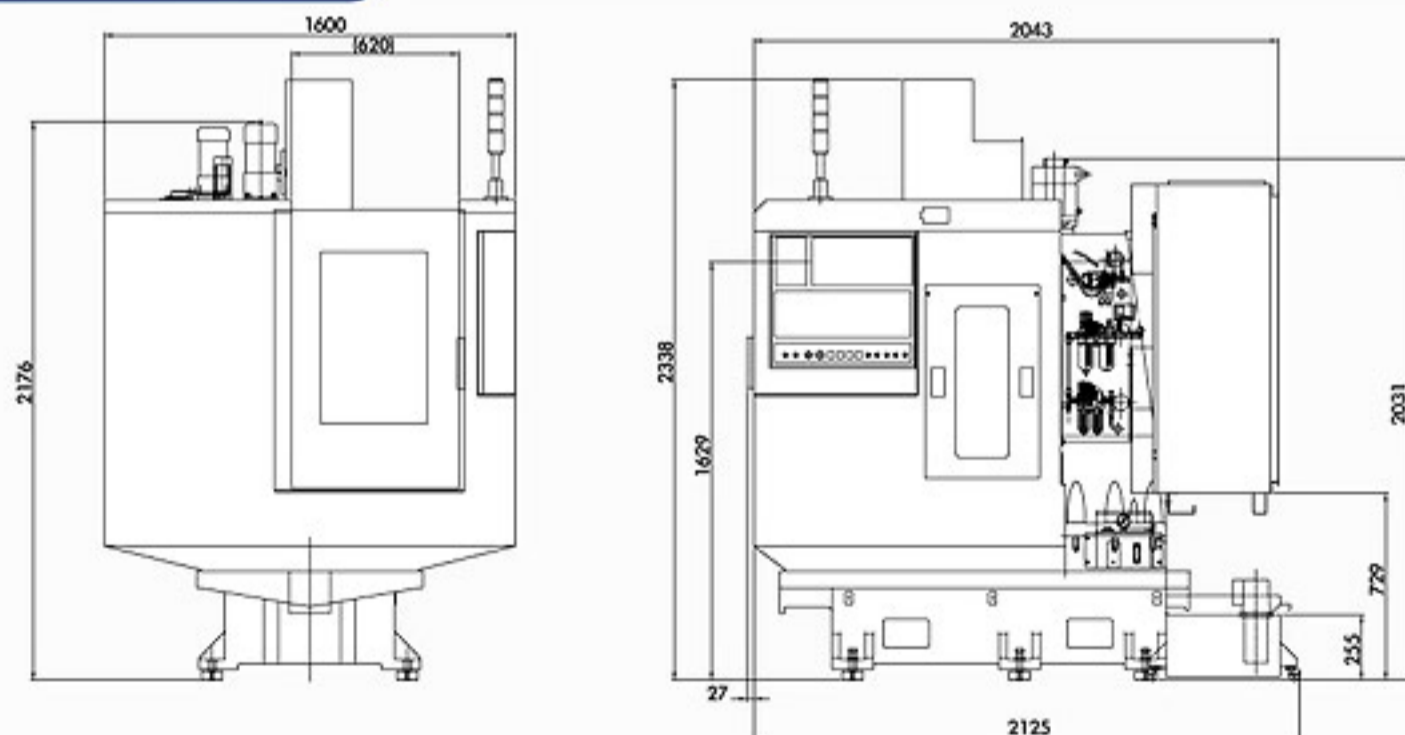
STANDARD ACCESSORIES

- Coolant system with tank
- Central lubrication system
- High speed ATC unit
- Leveling bolts pads
- Alarm light
- Work light
- Flush system
- Screw chip conveyor
- Heat exchanger
- Fully enclosed splash guard
- Rigid tapping
- RS232 interface
- Fanuc 0i-MC
- Serperate MPG
- Auto counter for work piece

OPTIONAL ACCESSORIES

- Chips conveyor and bucket
- Extension column 100mm
- 12000/15000 rpm spindle with oil cooler
- 5.5 kw spindle motor
- Arm type ATC
- Automatic Tool length measuremnt
- Automatic Tool breakage detection
- Auto door
- M30 auto power off
- Meldas 64M
- CE Mark
- 48m/min rapid

DIMENSIONAL DRAWING



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