



Productivity Proposal

MB-46VAE w/ THINC

THE INTELLIGENT NC

Standard from Feb. 01, 2005

Vertical Machining Center



Appearance may vary according to final specification
(European stackpole lamp shown, optional auto tool length offset shown)

Applicable model and versions:

●: Base offering, ○: Available specification

MB-46VAE w/OSP THINC control system	Available spindles			
Available spindle tapers	NT40	NT40, HSK	HSK	
Available spindle rpm (min ⁻¹)	8,000	15,000	25,000	35,000
	●	○	○	○

- > MB-46VA is a separate proposal.
- > MB-VBE with NT50 taper spindles is a separate proposal.
- > Optional spindles are covered in the technical supplement including V-flange configurations.

MB-46VAE

Introduction

The OKUMA MB-46VAE CNC is the vanguard of the next generation of Okuma vertical machining centers. The MB-46VAE adopts a powerful new double column structure to offer the most machining in the least floor space. The latest innovations in thermal countermeasures have been incorporated to offer the best performance available today.

The OKUMA MB-46VAE is equipped with a high speed; high power 40 Taper 8,000 rpm spindle with a 15hp VAC liquid cooled integral motor. This model incorporates a high-speed 20-position automatic tool changer and 1574ipm rapid traverse, resulting in a powerful production capability. Control is by Okuma's own patented OSP THINC with **Hi-Content** control system which includes the patented OSP absolute position encoders which do not require a zero return.

A thumbnail of the MB-46VAE base offering:

<ul style="list-style-type: none">◆ Travels: X: 30.0" Y: 18.11" Z: 18.11◆ Inch T-slot table: 39.37" x 18.11"◆ 15,000 rpm, 15/10hp integral motor spindle◆ BIG PLUS 40 V-flange specification◆ Spindle jacket cooling system◆ Oil air mist spindle bearing lubrication◆ 1,574 IPM, 0.7G rapid feed X, Y,◆ Z-axis rapid & max. feed-rate: 1,259 IPM◆ 32 tool ATC magazine [opt. 32]◆ 1.2 sec. T-T; 3.2 sec. C-C*◆ 46 gal roll-away twin 0.5 hp coolant syst.◆ Twin chip channel flushing (insulated)◆ Thermo-friendly technologies◆ Built-in 3.5" Floppy Disk Drive	<ul style="list-style-type: none">◆ OSP THINC Control system◆ 12.1" TFT LCD color "Touch Screen"◆ Real time 3D animation◆ 20GB Hard Disk Storage◆ Ethernet, 4 USB Ports, 256MB DDR◆ 100 work coordinates, 200 tool offsets◆ Simple load monitor◆ Tool life management◆ IMAP – programming assistant◆ Synchronized Tapping II◆ On screen pocket manual◆ User Task I+ II w200 com. variables◆ Helical Interpolation◆ RS-232C Port & 3.5 inch FDD
<ul style="list-style-type: none">◆ Okuma Care, 24-7 support + 1 year warranty	

* Cycle times are incremental and under nominal conditions.

The MB-46VAE continues Okuma's fundamental commitment to [total system engineering](#) of its machine tools. This means [ALL Okuma](#) design and manufacture of machine, motors, drives and controls and including the industry leading [Okuma Care \(24-7\)](#) support program.

This level of integration and support is an Okuma Trademark. [Your single source.](#)

Thank you for considering Okuma products.