



New and Used Machine Tools

MACHINE TOOLS INCORPORATED

e-mail: machinetools@mindspring.com
P.O. Box 16196 • Greenville, S.C. 29606 • SC (864) 288-4255 • FAX (864) 752-1650

Proposal No 071813.2

KENT MODEL 3VSF VERTICAL MILLING MACHINE



- 3 HP spindle motor, variable speed head, 3VSF model with AC-Frequency drive, digital RPM display, and load meter
• 9" x 49" hardened and ground table Table, saddle, and knee with hardened and ground dovetail ways
• Precision ground leadscrews with backlash compensating double nut
• Precision bored and ground milling head, with super precision ABEC-7 bearings
• Meehanite® casting, with built in coolant reservoir in machine base
• Centralized one-shot lubrication, with metered check-valves

PRICE KENT MODEL 3VS VERTICAL MILLING MACHINE.....\$8,850.00
PRICE KENT MODEL 3VSF VERTICAL MILLING MACHINE.....\$9,850.00

OPTIONAL ACCESSORIES:

Table listing optional accessories and their prices: Acu-Rite 200S DRO System (\$1,850.00), DRO installation charge (\$150.00), Table (x-axis) power feed (\$450.00), Saddle (y-axis) power feed (\$600.00), Knee (z-axis) power feed (\$600.00), Air power drawbar (Maxi-Torque, made in USA) (\$800.00), Flood coolant system (built-in base) (\$550.00), Chip tray (\$450.00), Riser block (4") (\$550.00), Riser block (6") (\$550.00), Riser block (8") (\$650.00), Angle-lock vise (6") (\$400.00), Clamping kit (52 pc) (\$100.00), R-8 collet set (11 pc/set, 1/8" to 3/4") (\$120.00), Upgrade to 440V power on 3VSF AC-Freq drive model (\$200.00)

## MACHINE SPECIFICATIONS:

Table size	9" x 49"
Table travel (X-axis)	35"
Saddle travel (Y-axis)	12"
Knee travel (Z-axis)	15"
Quill travel	5"
Ram travel	14.5"
Spindle motor	3 HP (1750 rpm @ 60 Hz)
Spindle speed	60-500-4200 (2 range, Hi/Low) 60-550-4500 (3VSF AC-Freq drive)
Spindle taper	R-8 (NMTB-30 optional)
Quill diameter	3.375"
Quill feed rate	0.0015/0.003/0.006" per rev
Drilling capacity (manual)	0.75" diameter
Drilling capacity (power)	0.37" diameter
Boring capacity	6.0" diameter
Milling capacity	2.0 in <sup>3</sup> /min
Maximum work load (center)	750 lbs
Machine Net weight	2500 lbs (2600 for 3VSF) (+ 50 lbs for 9" x 49" table)
Shipping Weight/Dimension:	2600 lbs (2700 for 3VSF) (+ 50 lbs for 9" x 49" table) 72" x 72" (skid)

Power requirement: 220/440 volts, 3 Phase, 60 Hz, 10/5 Amp.

3VSF models require 220v, 3 phase, 60 Hz, 10 Amp (optional 440v power requires 5 Amp) but can also accept 220v, 1-phase power (15A) without a phase converter, ideal for customers with only 1-phase power.

**Delivery: Stock FOB CA.**



**AC-Freq drive head - a better way:**

AC-Freq drive models vary spindle rpm by changing the frequency (Hz) of the power to the motor by electronic means via a frequency inverter. No more sliding vari-disc with plastic inserts means a more reliable milling head with less maintenance issues. Runs quieter and smoother than standard conventional mechanical sliding pulley drive systems. Three phase power or single phase power. No need for a phase converter - great for the shop or at home.

**Did you know?**

In IMTS-1992, Kent show case the first AC-Freq drive head on a knee mill to the general machine tool public. This caught our competitors by surprise and generated a lot of interest - well actually more from our competitors than shop users at the time. We are the first to put in a digital rpm display for easy and precise spindle speed adjustment. We are the first to put in an analog spindle load meter. Today, we lead this field with the highest performance AC-Freq drive head on the market with 0-4500 rpm in under 3 seconds. We use the latest generation of flux-vector inverter drives made in the USA - for performance that is second to none. An optional high-speed head with 6000 rpm spindle is also available - again, a first its class. Some lead, others follow.

**We don't use 3<sup>rd</sup> party installer:**

It is surprising to us that most of our competitors in this field actually do not install the cnc package themselves - they usually hire a 3<sup>rd</sup> party person to do the installation. While this saves overall cost, we believe it does not provide the best overall quality and reliability for our customers. A 3<sup>rd</sup> party installer gets paid per job, whether it takes 1 day or 1 week to finish the job. His main goal is to get it done as quickly as possible, not necessary do the best job possible. In contrast, Kent cnc mills are installed by full-time Kent employees - his job is to do it right. Not the fastest way every time, always the right way every time.

## KENT MODEL 3VS VERTICAL MILLING MACHINE

