

# KENT USA

## DESCRIPTION:

KENT USA TW-40QI CNC BED MILL



7.5 HP AC Frequency Drive Spindle Motor  
Meehanite GB300 casting for superior rigidity  
Hardened and Ground Square Y and Z-axis ways  
Hardened and Ground table top and dovetail ways  
Precision Ground ballscrews on X, Y and Z-axis  
Ultra precision ground spindle, ABEC-7 bearings  
Hardened and Ground spindle spline and taper  
Large Cabinet with shelves for Tools storage  
Auto Lube system with metered Check valves  
Metal telescoping way cover on Y-axis  
Built in Coolant system and Chip pan  
Halogen work light  
Handwheels on x & Y axis for manual operation

Picture with Anilam 3000 control and optional X, Y axis handwheels

## MACHINE SPECIFICATIONS:

Table size:	18" x 59"
Longitudinal travel:	40"
Cross travel:	20"
Vertical travel:	22"
Spindle center to column	18.9"
Spindle nose to table:	3.54" to 26.16"
Quill travel:	5.5"
Quill diameter:	4.173"
Spindle feed rate:	0.0017/0.0032/0.0054 in/rev
Drilling capacity:	1.25" dia (manual), 0.625" dia (power)
Boring capacity:	8.0" dia
Milling capacity:	2.5 in <sup>3</sup> /min
Spindle motor:	7.5 HP
Spindle taper:	NMTB-40
Spindle speed:	60-6000 rpm
Coolant pump:	0.25 HP
T-slots:	5/8"
Maximum table load:	1,320 lbs
Net weight:	6050 lbs
Packing dimension:	79" x 76" x 98"

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## **MACHINE BASE PRICING:**

TW-40QI CNC BED MILL with AC Frequency Drive Option  
With Anilam 3000 CNC (3-axis, LCD Display) pre-installed  
With AC Frequency drive milling head  
With Auto-lubrication unit  
With flood coolant system

## **OPTIONS AND ACCESSORIES:**

HBE handheld jog box  
Air powered drawbar installed  
6" angle-lock vise  
8" angle-lock vise  
12" Rotary Table (vertical & horizontal)  
Clamping kit (52 pcs)  
NMTB-40 end mill adapters (3/16" to 3/4", 5 pcs/set)  
Titanium Nitride coated end mill set (1/8"-3/4", 18 pc/set)  
Rust-lick G25 coolant (1 gallon, mixes 1:30)

## **AC Frequency Drive Specifications:**

An AC Frequency Inverter Drive is used to vary the frequency (Hz) of the power source in order to vary the spindle motor rpm. This allows the machine to change spindle rpm without the use of traditional pulley sets. The benefits are precise spindle speed control without the wearing inserts associated with traditional variable speed heads. The Anilam CNC controller is used to control the spindle RPM.

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## GENERAL SPECIFICATIONS: TW-40QI

Machine Capacity	Table size	18" x 59"
	Table travel	40" (38" w/ control)
	Saddle travel	21" (20" w/ control)
	Vertical travel	22" (20" w/ control)
	Spindle center to column	18.9"
	Spindle nose to table	3.54" to 27.16"
	Quill travel	5.5"
	Quill diameter	4.173"
	T-slots	5/8"
	Coolant pump	0.25 HP
Milling Head	Spindle motor	7.5 HP
	Spindle taper	NMTB-40
	Speed range	60-6000
	Quill power feed (per rev)	0.0017/0.0032/0.0054"
	Drilling capacity (manual)	1.25" DIA
	Drilling capacity (power)	0.625" DIA
	Boring capacity	8.0" DIA
	Milling capacity	2.5 IN <sup>3</sup> /MIN
Weight	Maximum workload	1320 LBS
	Net weight	6050 LBS
	Gross weight	6200 LBS
	Packing dimension	79" x 76" 98"

POWER REQUIREMENTS: 220 volts, 60 Hz, 3-phase 45Amps (Machine)  
 110 volts, 60 Hz, 1-phase, 15 Amps (Anilam CNC)