

2K and 3K Vertical *Milwaukee* MILLING MACHINES

Unless ordered for a specific purpose, we recommend that every Model K Vertical be furnished with power feed and rapid traverse to the sliding head. The ability to traverse the spindle by power adds materially to the all-around usefulness and flexibility of this machine.

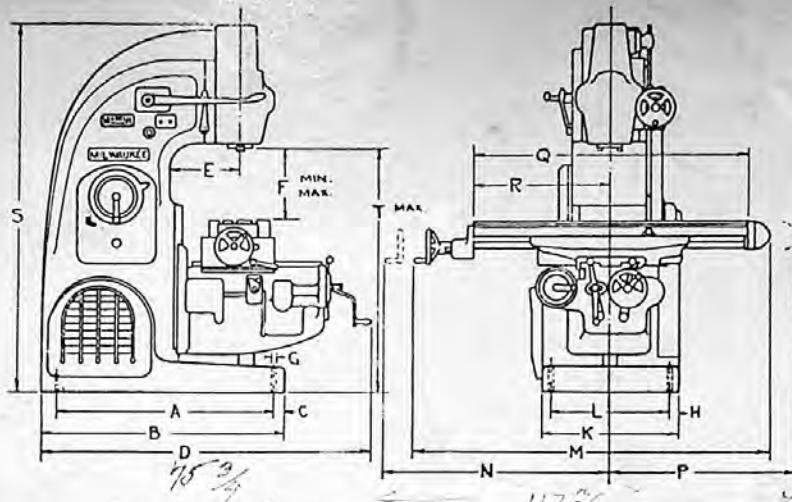
The spindle of the new MILWAUKEE Vertical has the same powerful drive as the Horizontal models. These new Verticals have 24 speeds from 15 to 1500 r.p.m., or a 100 to 1 range. This wide range permits surface speeds up to 100 feet per minute, for $\frac{1}{4}$ inch end mills, and as low as 50 feet per minute for 12 inch diameter face mills.

There is also provided a wide range of feeds, 32 in number, from $\frac{1}{4}$ inch to 60 inches per minute. Changes of feed are made from the front of the machine with a single control handle and large direct reading dial. Cutters of carbon steel, high speed steel, stellite, or tungsten carbide can be run with the proper combination of speed and feed for every kind of material. The speeds and feeds you have always wanted and could not get are now at your disposal.

The new Model K Vertical has such astonishing power that, coupled with its ease of operation, it makes the heaviest and toughest cuts seem simple.

KEARNEY & TRECKER CORPORATION

MILWAUKEE WISCONSIN U.S.A.



Plan Dimensions and General Specifications

	A	B	C	D	E	F Min.	F Max.	G	H	K	L	M	N	P	Q	R	S	T	T Min-Vert
2K Vertical (Inches)	43L 45R	49	2	69 1/4	14	0	19 1/4	11	2	28	24F 24 1/2R	71 1/2	50 3/4	49 1/2	56	41	75 1/2	50	44
3K Vertical (Inches)	48 1/2L 51R	55	2	75 1/4	18	0	21	11	2	32	28F 28 1/2R	83 1/4	60 3/8	56 3/8	64	48	81 1/4	52 1/4	45 1/4
2K Vertical (M/M)	1092L 1143R	1245	51	1759	356	0	484	21	51	711	610F 623R	1806	1286	1248	1422	1041	1927	1270	1117
3K Vertical (M/M)	1232L 1295R	1397	51	1924	457	0	533	21	51	813	711F 733R	2115	1546	1445	1626	1219	2076	1340	1162

TABLE—	NO. 2K VERTICAL		NO. 3K VERTICAL	
	Inches	Millimeters	Inches	Millimeters
Working Surface	56" x 12"	1422 x 305	64" x 15 1/2"	1625 x 394
Size Over-all	56" x 12"	1422 x 305	64" x 15 1/2"	1625 x 394
T-Slots—Number and Width	Three—1 1/2"	Three 17.5	Three—1 1/2"	Three 17.5
—Center Distance	2 3/4"	70	2 3/4"	70
Back Edge of Table to Center of First T-Slot	3 1/4"	82.5	5"	127
RANGE—				
Longitudinal Power Feed	28"	711	34"	864
Cross Power Feed	12"	305	14"	356
Vertical Power Feed	14"	356	16"	406
Sliding Head Travel	6"	152	7"	178
Distance Spindle Nose to Top of Table—Maximum	19 1/4"	484	21"	533
Throat Distance, Center-line of Spindle to Column	14"	356	18"	457
Duplicate Rear Power and Hand Controls available if desired, at additional cost.				
SPINDLE— Chrome Nickel Steel, Heat Treated, Hardened and Ground—				
Center Bearing (increases stiffness 8 to 1)	Yes	Yes	Yes	Yes
No. 50 National Standard, Taper Hole 3 1/2" per Foot	Yes	Yes	Yes	Yes
Diameter of Nose	5 1/8"	128.6	5 1/8"	128.6
Size of Hole Through for 1" Diameter Draw-In Rod	1 1/8"	27	1 1/8"	27
SPEEDS— 100 to 1 Ratio—One Complete Series—				
Number	24	24	24	24
Range—In Geometrical Progression	15 to 1500 r.p.m.	15 to 1500 r.p.m.	15 to 1500 r.p.m.	15 to 1500 r.p.m.
Reverse	Yes	Yes	Yes	Yes
Air Breather for Column Prevents Condensation	Included	Included	Included	Included
FEEDS— 240 to 1 Ratio—One Complete Series—				
Number—In Geometrical Progression	32	32	32	32
Range—Longitudinal and Cross (rate per minute)	1/4" to 60"	6 to 1440	1/4" to 60"	6 to 1440
—Vertical (rate per minute)	1/8" to 30"	3 to 720	1/8" to 30"	3 to 720
Front and Rear Feed Controls—Hand and Power	Extra	Extra	Extra	Extra
POWER FEED TO HEAD				
Number of Feeds	32	32	32	32
Range of Feeds—In Geometrical Progression	1/8" to 30"	3 to 720	1/8" to 30"	3 to 720
RAPID TRAVERSE— With Spindle Stopped or Running—				
Longitudinal—Rate per Minute (front and rear control)	150"	3600	150"	3600
Cross—Rate per Minute (front and rear control)	150"	3600	150"	3600
Vertical—Rate per Minute (front and rear control)	75"	1800	75"	1800
Vertical Head (when Power Feed is included)	75"	1800	75"	1800
DRIVE— Silent Multiple V-belt from Motor—				
Pulley Speed	600 r.p.m.	600 r.p.m.	600 r.p.m.	600 r.p.m.
Motor Speed	1800 r.p.m.	1800 r.p.m.	1800 r.p.m.	1800 r.p.m.
Horsepower Recommended	7 1/2	7 1/2	10	10
CODE WORD— (For Belt Driven Machines, Add the Word "BELT")				
(*) Indicates Metric Lead Screws and Dials are required.	KIDIJ	KIFIL*	KIDZA	KIFUX*
SHIPPING DATA—				
Net Weight	6700 lbs.	3042 kg.	8800 lbs.	3995 kg.
Shipping Weight (Domestic)	7200 lbs.		9400 lbs.	
Shipping Weight (Foreign)	7700 lbs.	3496 kg.	10,135 lbs.	4601 kg.
Size of Case (Foreign)	42"x82"x83"	1067x2083x2108	48"x85"x89"	1219x2210x2261
Cubic Measurements (Foreign)	165 cu. ft.	4.67 cu. meters	210 cu. ft.	5.94 cu. meters

STANDARD EQUIPMENT INCLUDES: Spindle reverse, oil filter, cutter coolant system, 6-way Power Rapid Traverse, arbor draw-in rod, and necessary wrenches. **NOTE:** Standard Equipment includes Power Feed and Rapid Traverse to the sliding head, and 4 position stop and dial indicator.

EXTRA EQUIPMENT (Available at additional cost): Plain or swivel vise; rotary tables, etc.

All Model K machines are equipped for motor-in-base drive. Price of machine includes push button, multiple V-belts, sheaves, adjustable motor bracket, and mounting of motor at factory when desired. Price does NOT include motor, starter, or wiring. Any Model K machine can be arranged for belt drive at additional cost.

The manufacturer reserves the right to improve, change, or modify the construction of these milling machines or attachments or any part thereof as he may see fit, without incurring any obligation to make like changes on K & T MILWAUKEE Milling Machines or attachments previously sold.