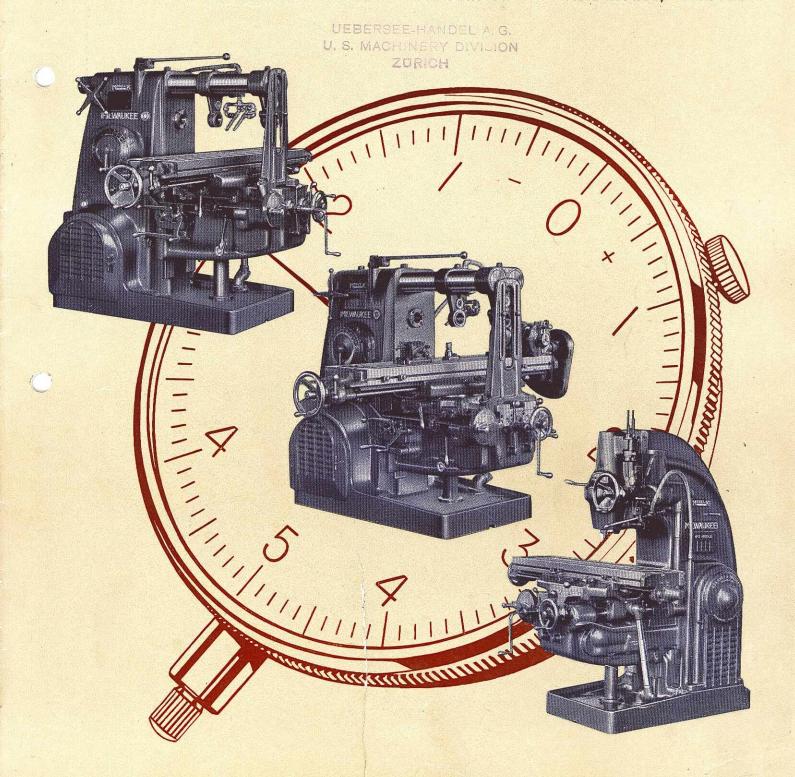
MILWAUKEE MILLING MACHINES

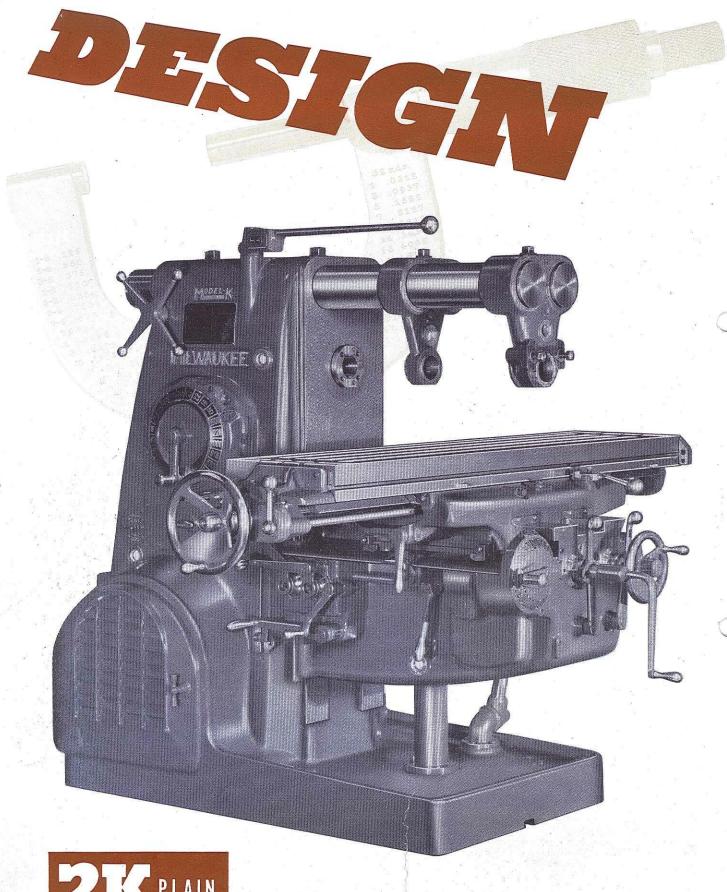
2K3K

PLAIN . UNIVERSAL . VERTICAL

KEARNEY & TRECKER CORPORATION

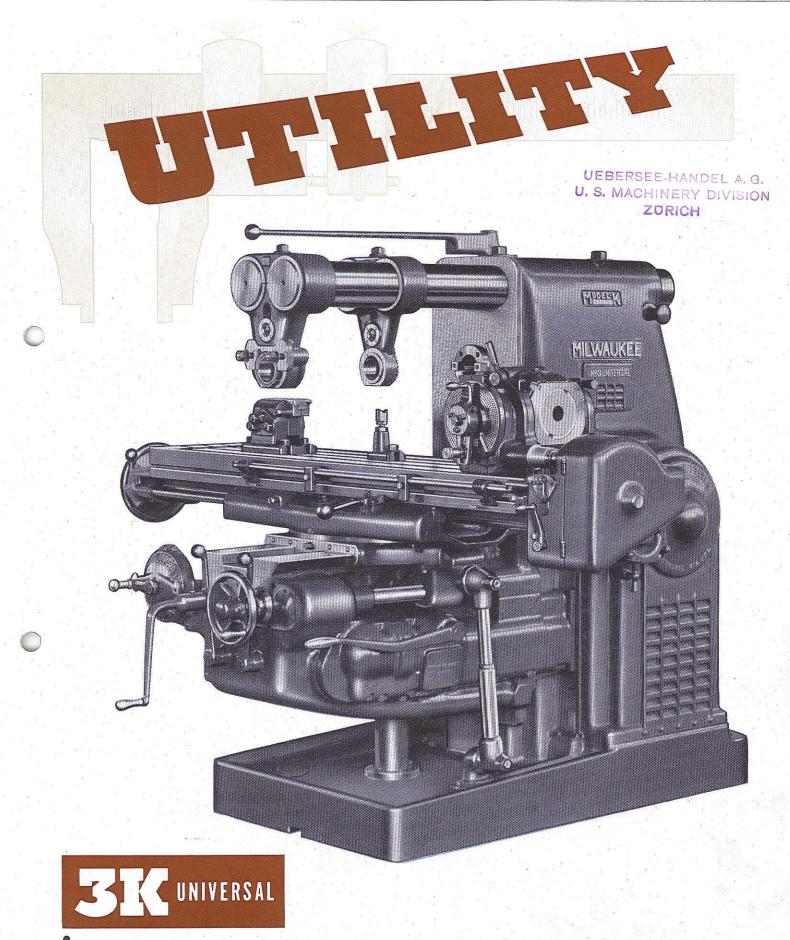
MILWAUKEE, WISCONSIN



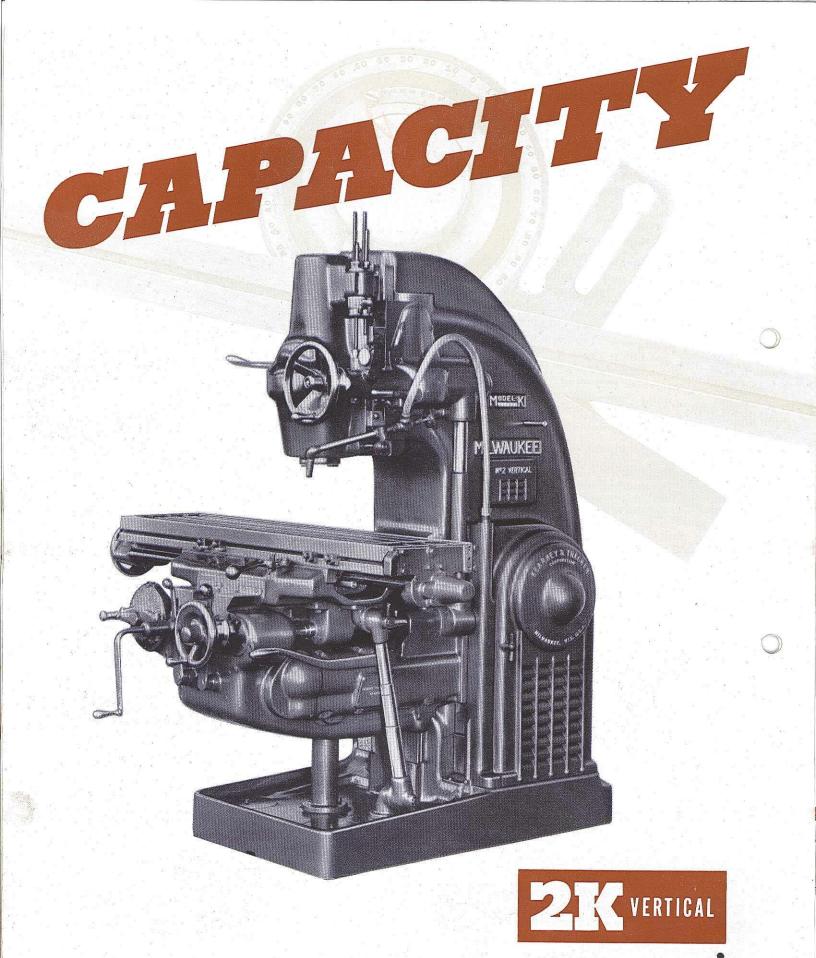


2K PLAIN

Over 47 years' experience in building fine milling machines is incorporated in the design and construction of Model K Milling Machines.



Proper Working Height—Simple, Convenient Controls—Strict Safety Standards—and the other qualities you demand and expect in your milling machine.

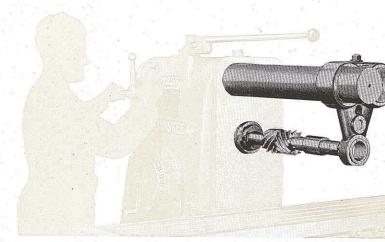


These milling machines, power engineered to do the job, will operate efficiently at any feed or speed.

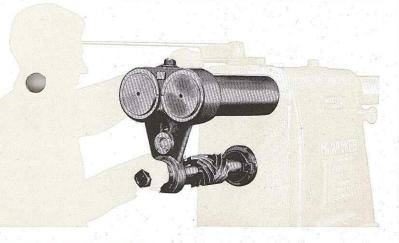


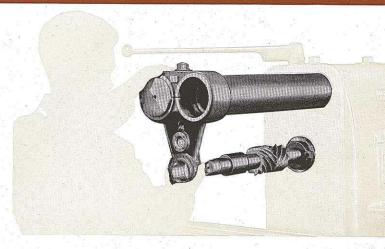
convenient, rigid and simple means of arbor support ever devised. The double overarm construction allows easy access to the cutter and enables the operator to change arbors and cutters without removing the arbor support. An overarm pilot wheel facilitates moving one or both overarms in or out.

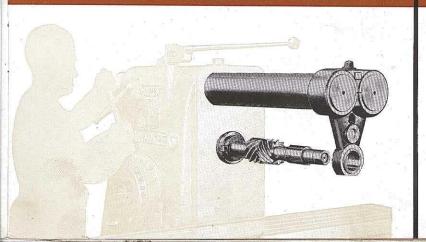


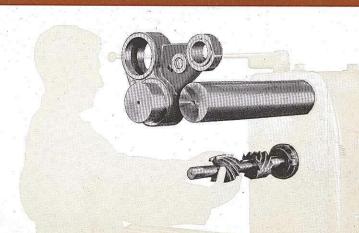


Double Overarms — the most



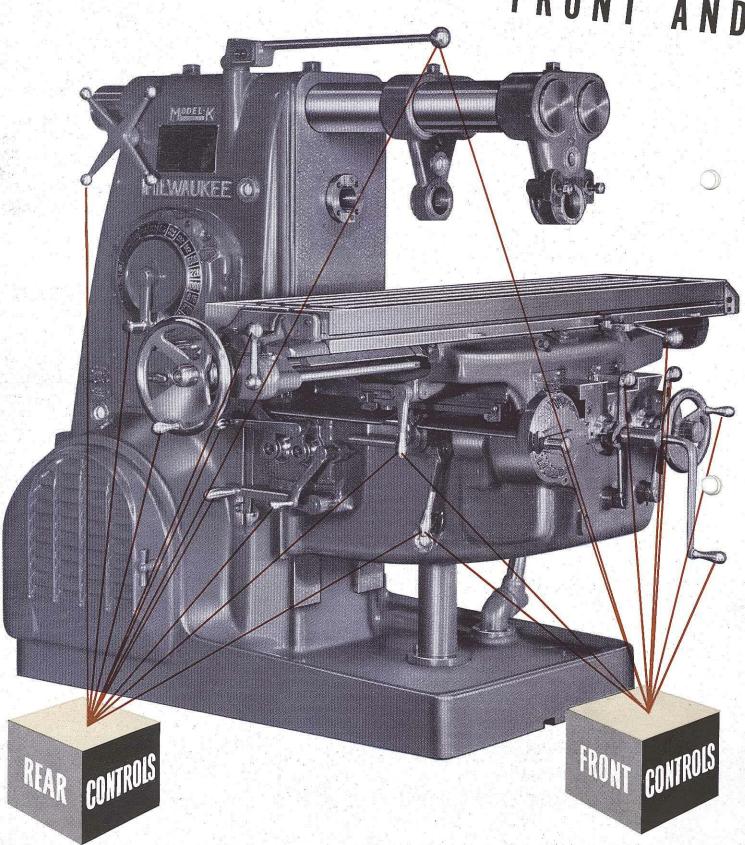






CHATRAIL

FRONT AND



DIRECTIONAL

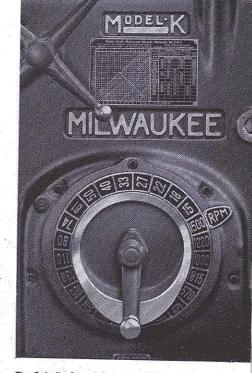
REAR CONTROLS

An operating feature of the

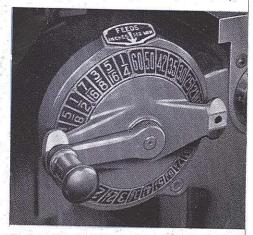
MODEL K

nachines is

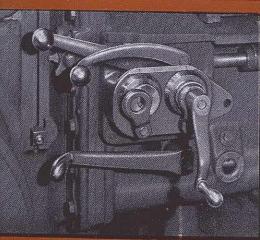
the duplicate front and rear directional controls. Equipped with positive safety interlocks that prevent spinning handwheels and handcranks, these controls are arranged for convenient, efficient machine operation. ★ Single lever, direct reading feed and speed dials are provided. 24 speed selections are available ranging from 15 to 1500 revolutions per minute and 32 feed selections ranging from ½ to 60 inches per minute. Both the speed and the feed selections are in one continuous series in approximate geometric progression. Any speed or feed is easily obtained by rotating the lever in either direction to the desired selection. ★ A speed chart giving correct cutter speed for various sizes and types of cutters, valuable when machining a variety of metals, is mounted directly above the speed dial.



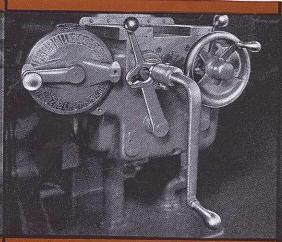
The Spindle Speed Selection Dial provides a choice of 24 speeds ranging from 15 to 1500 rpm. One complete turn of the speed dial lever, either forward or reverse, will increase or reduce the speed one step.



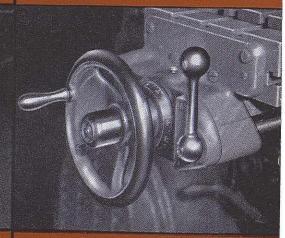
The Feed Selection Dial permits a choice of 32 feeds ranging from 1/4 to 60 inches per minute. Feeds range in approximate geometric progression with only one-half revolution of the lever required to increase or decrease the feed one step.



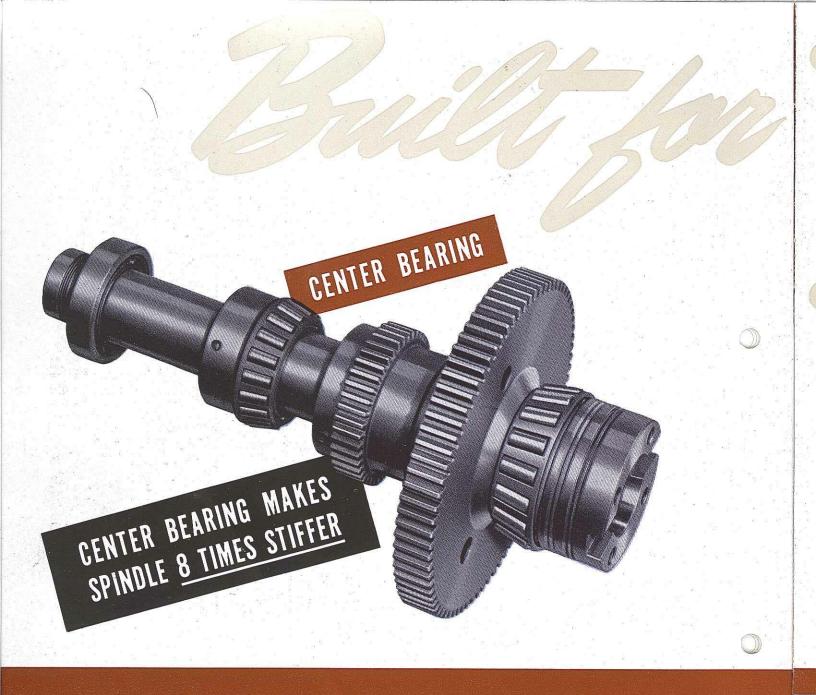
These conveniently located rear controls are equipped with micrometer dials and provide for hand feed, power feed, and rapid traverse movement of the knee and saddle.

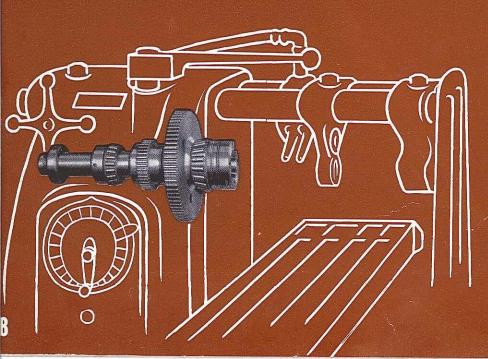


 Convenient, directional front controls, equipped with micrometer dials, provide for movement of the table, saddle, and knee by hand feed, power feed, and power rapid traverse.



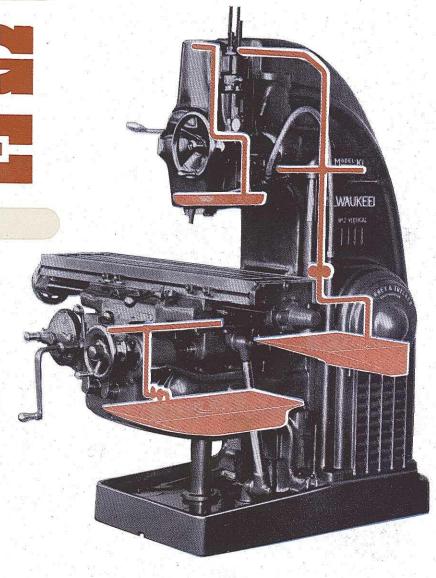
 The table handwheel and feed control lever are convenient and simple to operate. Large, easy to read micrometer dials, graduated in thousandths, facilitate adjustments.



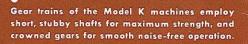


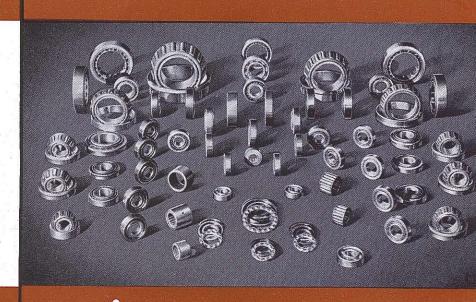
• Spindle deflection, destroyer of precision, varies directly as the cube of the unsupported length between bearings. With the addition of the center bearing, spindle rigidity is increased eight times. This feature, on all horizontal and vertical knee type machines, adds much to the built-in precision of Milwaukee Machine Tools.

Automatic pressure lubrication is a prime factor in the long life and the precision results obtained with these machines. Pressure pumps in the column, knee, and in the sliding head of vertical machines, are fully automatic and provide a constant flood of lubricant over the entire driving mechanism.





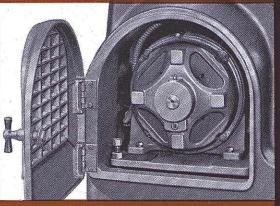




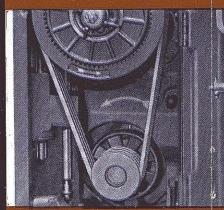
Anti-friction bearings are used wherever they will increase the over-all efficiency and long life of the machines—and they have been used generously.



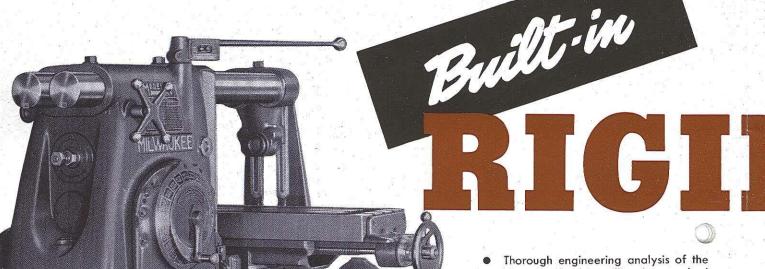
Triangular arbor supports form a broad base triangle, the most rigid geometrical structure possible. This triangular construction provides a firm arbor support and effectively resists distortion induced by cutting forces. Arm braces tie the overarms, arbor supports, and knee together to provide additional support for heavy milling cuts.



Solid back column construction permits crossmounting the motor in the base, making the motor readily accessible. The inverted V-shaped arch of the motor chamber is heavily ribbed providing additional reinforcement to the column face and back. Cross ventilation for the motor is provided through the louvred motor chamber



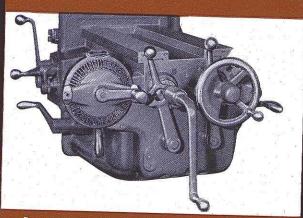
Silent multiple V-belts transmit power f pulley to the main drive clutch. These unit through small openings in a way transve wall which extends from the A louvred safety door encloses the drive in



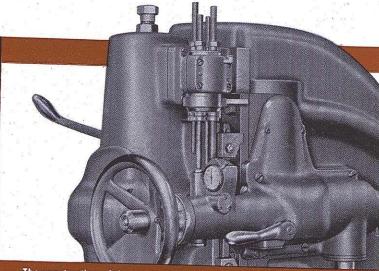
- Thorough engineering analysis of the problems involved in milling has resulted in a machine design recognized the world over for rigidity in construction and precision in performance.
- The following structural features illustrate the "built-in rigidity" of Milwaukee Milling Machines:
- A solid back column. This rugged, one piece, box section, semi-steel casting is the foundation for the machine's strength and rigidity.
- A sturdy reinforced knee. The heavy box section construction is reinforced with cross members, built to withstand heavy cutting forces. Additional strength is provided by an exceptionally long bearing contact on the column face (22¼" on the Model 2K, 22¾" on the Model 3K).
- A wide heavy saddle. This heavy semi-steel casting affords maximum bearing surface and support for the table. Its drop-center construction keeps knee-table



r from the drive units are mounted sverse proforcing ack of olumn. mechanism.



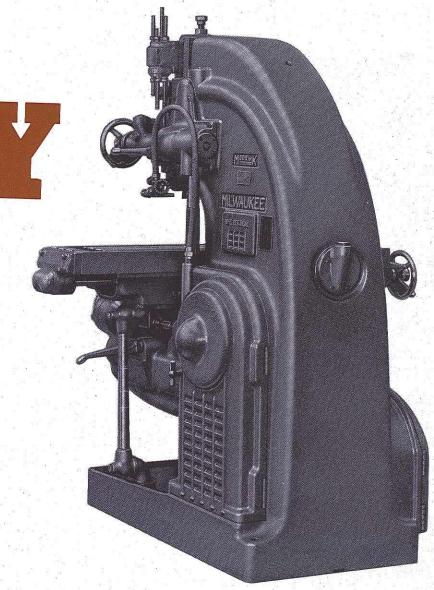
Drop-center knee construction brings the table close to the top of the knee. The heavily reinforced thick box section walls form a solid supporting structure. Over 22" of knee bearing surface, with the apron extending above the top of the knee, provides rigid support for the knee, saddle, and table.



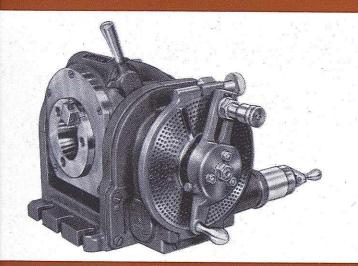
The construction of the vertical sliding head permits vertical adjustment of the entire unit while the hand and power controls remain at a fixed convenient height. Power is transmitted to the three bearing vertical spindle by means of high speed, low torque, multiple splined shafts.

top distance to a minimum (71/8" on Model 2K Plain, 75/8" on Model 3K Plain).

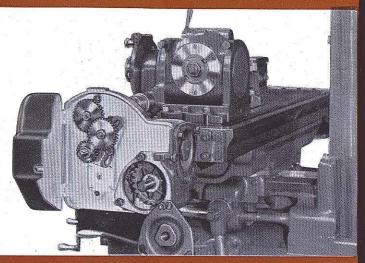
- A heavy duty table. A massive block of semi-steel, cast solid and machined all over; it provides rigid support and accurate alignment for the workpiece under all milling conditions.
- A three bearing spindle. The deflection in a shaft varies directly as the cube of its unsupported length. The addition of a center bearing on the spindle makes it eight times more resistant to deflection.
- Double Overarms. The double overarm and triangular arbor support form the most rigid possible geometric structure. This structure affords maximum support to both arbors and cutters.
- The experienced shop man recognizes the dependable rigidity and accuracy of Milwaukee Milling Machines when he says, "If it's a tough job, better put it on a Milwaukee"



STANDARD Attachments and FOR MILWAUKEE 2K-3K MILLING MACHINES



The Model K Universal Spiral Dividing Head with the exclusive 5 to 1 indexing ratio and the positive distortion free clamping mechanism, assures quick accurate indexing. Write for Bulletin WA12.



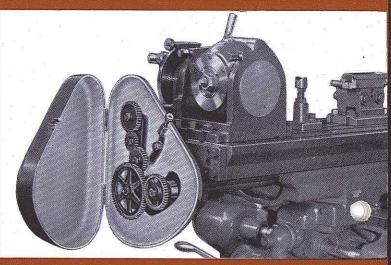
The Low Lead Attachment used with the Model K dividing head is capable of cutting over 40,000 leads by power. It may be used in conjunction with the rotary table for circular milling operations. Write for Bulletin WA12.



The Heavy Duty Universal Milling Attachment spindle swivels on two circular graduated faces at right angles to each other, permitting the setting of the spindle at compound angles. Write for Bulletin CA15.



The Swivel Head Vertical Milling Attachment is used to temporarily adapt a horizontal milling machine for vertical milling operations. Write for Bulletin CA12.



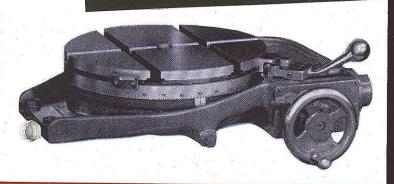
The Conventional Lead Attachment is used to mill leads from .670 $^{\prime\prime}$ to 149 $^{\prime\prime}$. It is used with the Model K dividing head. Write for Bulletin WA12.



Milwaukee Arbors, style A, B, and C, collet holders, centering plugs, etc. Equipped with National Standard spindle taper, they fit all standard milling machines. Write for Catalog C10.

Accessories

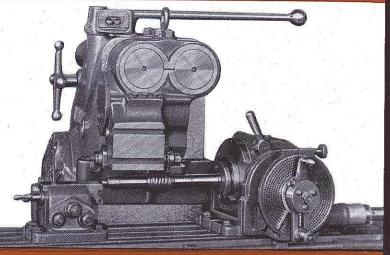
A well engineered milling machine must be adaptable to a wide range and type of operations. It is well to remember that adaptability can be as necessary in the milling department as it is in the toolroom. *\(\pi\) On this page is illustrated a complete line of standard attachments and accessories, designed to fulfill almost any milling need that may arise. These attachments are standardized to fit every 2K, 3K Milwaukee Milling Machine, whether purchased with the machine or at a later date.



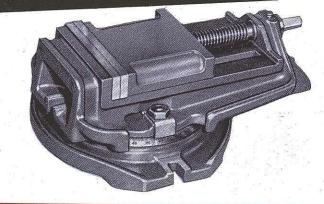
Rotary Tables of rigid and accurate construction are available in four sizes, 12", 16", 20", and 24" diameter and in two types—one for hand feed only and the other for power feed. Write for Bulletin WA14.



The Standard High Speed Adjustable Universal Milling Attachment because of its versatility is adapted to a wide variety of uses. It has 10" of cross adjustment with spindle speeds up to 2500 rpm. Write for Bulletin CA11.



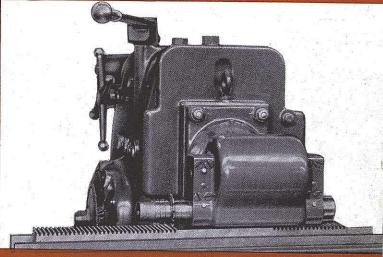
The Thread Milling Attachment, in conjunction with the low lead attachment, will quickly convert a 2K or 3K Universal Milling Machine into a practical and efficient thread miller. Write for Bulletin CA17.



Plain and Swivel Vises, sturdily built of the finest material and workmanship, are available in 5'', 6'', 7'', 8'', and 9'' sizes and can be used on any standard milling machine. Write for Catalog C10.



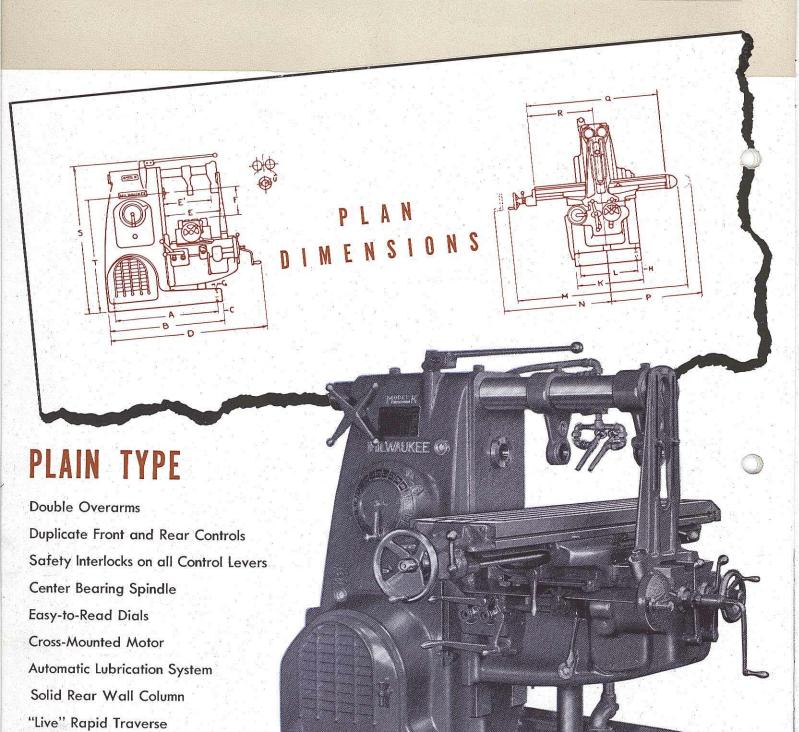
The Slotting Attachment is sturdy and rigid in construction and can be swiveled through 360° . It is especially versatile when used with a rotary table or dividing head. Write for Bulletin CA16.



The Rack Milling Attachment adapts the Milwaukee 2K & 3K Milling Machine for rack milling and cross slot milling on long workpieces. Write for Bulletin CA18.

PLAN DIMENSION DATA

	А	В	С	D	E	Eı	F Min	F Max	G	н	K	L	м	N	Р	0	R	S	т	11
2K Plain (inches)	43L 45R	49	2	691/4	26 1/8	23¾	0	17 1	13 16	2	28	24F 24½R	711/8	50 5/8	491/8	56	41	621/2	48	63
3K Plain (inches)	48½L 51R	55	2	753/4	31 <u>1</u>	273/4	0	181/8	13 16	.2	32	28F 28 1/8R	831/4			64	48	661/4	50	71,
2K Plain (mm)	1092L 1143R	1245	51	1759	682	604	0	434	21	51	711	610F 622R	100			- 1	1041	100	1219	16
3K Plain (mm)	1232L 1295R	1397	51	1924	789	706	0	461	21	51	813	711F 733R			1432	1	-	10 1	1270	



Correct Working Height

24 Speed changes

32 Feed changes

GENERAL SPECIFICATIONS

	No.	2K PLAIN	No. 3K PLAIN			
	Inches	Millimeters	Inches	Millimeters		
TABLE— Working Surface. Size Over-all. T-Slots—Number and Width. —Center Distance. Back Edge of Table to Center of First T-Slot.	. Three—11/16	1422x305 1422x305 Three 17.5 70 82.5	64"x15½" 64"x15½" Three—116" 23¼"	1625x394 1625x394 Three 17.5 70 127		
FEED RANGE— Longitudinal Power Feed (front and rear control). Cross Power Feed (front and rear control). Vertical Power Feed (front and rear control).	28"	711	34"	864		
	10"	254	12"	305		
	17"	432	18"	457		
HEIGHT—Low Spindle Height Eliminates Hazardous Platforms— Center-line of Spindle to Floor Center-line of Spindle to Top of Table, Maximum (Minimum 0")	48″	1220	50″	1270		
	17 <u>1</u> 6″	434	18½″	461		
WIDTH— Column to Adjustable Overarm Brace—Maximum Column to Inside of Arbor Support—With Brace in Place (Maximum) Column to Inside of Arbor Support—Without the Brace (Maximum)	26 ½"	682	31 ½"	789		
	23¾"	603	27¾"	706		
	24¾"	628.7	29¾"	757		
DOUBLE OVERARMS—Two Round Solid Steel Bars— Diameter of each Overarm. Width Across Both Arms (provides broad base triangular arbor support). Center-line of Spindle to Underside of Overarms—Radial Distance.	4 ½"	107.95	5"	127		
	9 ½"	245	1114"	286		
	6 ½"	162	714"	184		
ARBOR SUPPORTS—Self-oiling with Adjustable Bronze Bushing— See Standard Equipment listed below for details.		383		1 1 1 1 1		
SPINDLE—Chrome Nickel Steel, Heat Treated, Hardened and Ground— Center Bearing (increases stiffness 8 to 1). No. 50 National Standard, Taper Hole 3½" per Foot Diameter of Nose Size of Hole Through for 1" Diameter Draw-In Rod.	Yes	Yes	Yes	Yes		
	Yes	Yes	Yes	Yes		
	5 16"	128.6	5 1.6"	128.6		
	1 16"	27	1 1.6"	27		
SPEEDS—100 to 1 Ratio—One Complete Single Series (single lever)— Number. Range—In Geometrical Progression Reverse.	24	24	24	24		
	15 to 1500 rpm	15 to 1500 rpm	15 to 1500 rpm	15 to 1500 rpm		
	Yes	Yes	Yes	Yes		
FEEDS—240 to 1 Ratio—One Complete Single Series (single lever)— Number—In Geometrical Progression. Range—Longitudinal and Cross (rate per minute). —Vertical (rate per minute). Front and Rear Feed Controls—Hand and Power—	32	32	32	32		
	¼" to 60"	6 to 1440	14" to 60"	6 to 1440		
	½" to 30"	3 to 720	1⁄8" to 30"	3 to 720		
	Included	Included	Included	Included		
RAPID TRAVERSE—With Spindle Stopped or Running— Longitudinal—Rate per Minute (front and rear control) Cross—Rate per Minute (front and rear control) Vertical—Rate per Minute (front and rear control)	150″	3600	150″	3600		
	150″	3600	150″	3600		
	75″	1800	75″	1800		
DRIVE—Silent Multiple V-belt from Motor— Pulley Speed Motor Speed Horsepower Recommended	600 rpm 1800 rpm 7½	600 rpm 1800 rpm 7½	600 rpm 1800 rpm 10	600 rpm 1800 rpm		
CODE WORD—(For Belt Driven Machines, Add the Word "BELT.") (*) Indicates Metric Lead Screws and Dials are required.	KIDAB	KIFAD*	KIDNO	KIFLO*		
SHIPPING DATA— Net Weight. Shipping Weight (Domestic). Shipping Weight (Foreign). Size of Case (Foreign). Cubic Measurements (Foreign). STANDARD EQUIPMENT INCLUDES: Duplicate front and rear power and han rapid traverse in both directions for	6100 lb 6600 lb 6950 lb 42"x75"x69" 126 cu ft	2769 kg 3155 kg 1067x1905x1753 3.56 cu meters	7800 lb 8300 lb 9000 lb 48"x85"x73" 172 cu ft	3541 kg 4086 kg 1219x2159x1854 4.86 cu meters		

STANDARD EQUIPMENT INCLUDES: Duplicate front and rear power and hand feed controls; spindle reverse; oil filter; cutter coolant system; power rapid traverse in both directions for longitudinal, cross and vertical movements of table; arbor draw-in rod; adjustable arm brace; two style B arbor supports—one outer support with studs for bolting to arm brace and one intermediate arbor support without studs—(style B arbor supports have adjustable bushings with 21/8", No. 3 diameter hole on No. 2K Plain Machines and with 23/4", No. 4 diameter hole on No. 3K Plain Machines); built-in push button station for starter, and necessary wrenches.

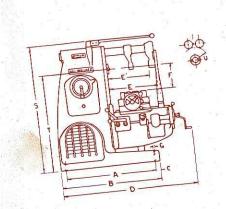
EXTRA EQUIPMENT (Available at additional cost); Plain and swivel vises, universal and vertical milling attachments, slotting attachment, rack milling attachment, rack indexing attachment, rock milling attachments, slotting attachment, rock milling attachment, r

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.

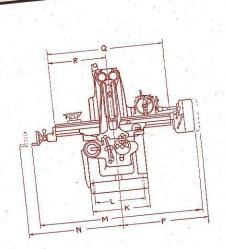
PLAN DIMENSION DATA

128	5
27	3 1

E =	A	В	С	D	E	E1	F Min	F Max	G	K	L	М	N	P	Q	R	s	т	U
2K Universal (inches)	43L 45R	49	2	691/4	26 7	23 3/8	0	15 끊	13 16	28	24F 24½R	781/2	50 1/8	561/2	56	41	621/2	48	63/8
3K Universal (inches)	48½L 51R	55	2	75¾	30 16	27 16	0	161/2	12	32	28F 28 1/8R	90	60 1/8	63 1/8	64	48	661/4	50	71/4
2K Universal (mm)	1092.9L 1143R	1245	51	1759	671	594	0	398	21	711	610F 622R	1995	1286	1445	1422	1041	1588	1219	162
3K Universal (mm)	1232L 1295R	1397	51	1924	776	696	0	419	21	813	711F 733R	2286	1546	1615	1626	1219	1682	1270	184



PLAN DIMENSIONS



UNIVERSAL TYPE

Double Overarms

Duplicate Front and Rear Controls

Solid Rear Wall Column

Center Bearing Spindle

Safety Interlocks on all Control Levers

Cross-Mounted Motor

Automatic Lubrication System

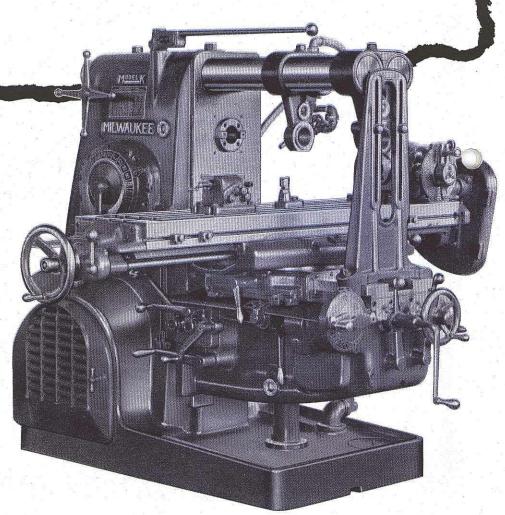
Easy-to-Read Dials

"Live" Rapid Traverse

Correct Working Height

24 Speed Changes

32 Feed Changes



GENERAL SPECIFICATIONS

	No. 2K	UNIVERSAL	No. 3K L	INIVERSAL
MADA	Inches	Millimeters	Inches	Millimeters
TABLE— Working Surface. Size Over-all. T-Slots—Number and Width. —Center Distance. Back Edge of Table to Center of First T-Slot. Swivels—Right or Left.	56"x12"	1422x305 1422x305 Three 17.5 70 82.5 47°	64"x15½" 64"x15½" Three 11" 23½" 5" 47°	1625x394 1625x394 Three 17.5 70 127 47°
FEED RANGE—Longitudinal Power Feed (front and rear control). Cross Power Feed (front and rear control). Vertical Power Feed (front and rear control).	28" 10" 17"	711 254 432	34" 12" 18"	864 305 457
HEIGHT— Low Spindle Height Eliminates Hazardous Platforms— Center-line of Spindle to Floor Center-line of Spindle to Top of Table, Maximum (Minimum 0")	48″ 15 ¦¦⁄′	1220 398	50" 16½"	1270 419
WIDTH— Column to Adjustable Overarm Brace (Maximum). Column to Inside of Arbor Support—With Brace in Place (Maximum). Column to Inside of Arbor Support—Without the Brace (Maximum).	26 ½" 23 ¾" 24 ¾"	671 594 628	30 ½ " 27 ½ " 29 ¾ "	776 696 756
DOUBLE OVERARMS—Two Round Solid Steel Bars—Diameter Each	4 1/4" 9 5/8" 6 3/8"	107.95 245 162	5" 111/4" 71/4"	127 286 184
ARBOR SUPPORTS— See Standard Equipment listed below for details.	2	200		
DIVIDING HEAD—MODEL K TYPE— Preloaded Ball Bearings— S to 1 Ratio— Spindle Nose—No. 50 National Standard (Same as Machine Spindle) Swings Takes in Length (between centers)	Yes 10" 353%"	Yes 254 899	Yes 12" 43"	Yes 304 1092
SPINDLE—Chrome Nickel Steel, Heat Treated, Hardened and Ground— Center Bearing (increases stiffness 8 to 1). No. 50 National Standard, Taper Hole 3½" per Foot. Diameter of Nose. Size of Hole Through for 1" Diameter Draw-In Rod.	Yes Yes 5 1 16 "	Yes Yes 128.6 27	Yes Yes 5 ½ " 1 ½ "	Yes Yes 128,6 27
SPEEDS— 100 to 1 Ratio—One Complete Series (single lever)—Number Range—In Geometrical Progression	24 15 to 1500 rpm Yes	24 15 to 1500 rpm Yes	24 15 to 1500 rpm Yes	24 15 to 1500 rpm Yes
FEEDS— 240 to 1 Ratio—One Complete Series (single lever)—Number	32 14" to 60" ½" to 30% Included	32 6 to 1440 3 to 720 Included	32 14" to 60" 18" to 30" Included	32 6 to 1440 3 to 720 Included
RAPID TRAVERSE— With Spindle Stopped or Running— Longitudinal—Rate per Minute (front and rear control). Cross—Rate per Minute (front and rear control) Vertical—Rate per Minute (front and rear control)	150" 150" 75"	3600 3600 1800	150″ 150″ 75″	3600 3600 1800
DRIVE— Silent Multiple V-belt from Motor—Pulley Speed	600 rpm 1800 rpm 7½	600 rpm 1800 rpm 7½	600 rpm 1800 rpm 10	600 rpm 1800 rpm
CODE WORD— Machine with Model K Dividing Head	KIDEF	KIFBE*	KIDOP	KIFOS*
SHIPPING DATA—Net Weight. Shipping Weight (Domestic) Shipping Weight (Foreign). Size of Case (Foreign). Cubic Measurements (Foreign).	6400 lb 6750 lb 7250 lb 42"x75"x69" 126 cu ft	2905 kg 3291 kg 1067x1905x1753 3.56 cu meters	8250 lb 8700 lb 9560 lb 48"x85"x73" 172 cu ft	3745 kg 4340 kg 1219x2159x1854 4.86 cu meters

STANDARD EQUIPMENT INCLUDES: Duplicate front and rear power and hand feed controls; Model K Universal Spiral Dividing Head with preloaded precision ball bearings, 5 to 1 index ratio, with one double index plate, combination side and top center adjustable tailstock, center rest, dividing directions for longitudinal, cross and vertical movements of table; arbor draw-in rod; adjustable arm brace; built-in push button station for starter; arbor NORTH A. NORTH A.

NOTE: Machines can be furnished with CONVENTIONAL LEAD ATTACHMENT with lead change gears for obtaining leads by power from 2½" to 149", or with LOW LEAD ATTACHMENT with built-in reverse, lead change gears and interchangeable worm and wormwheel sets for obtaining 40,000 leads by power from .022" to 2918" as desired at a differential in price.

ARBOR SUPPORTS: Two furnished with each machine—one style B outer support with studs for bolting to arm brace and one intermediate arbor support without studs (except No. 2K—See note). Style B outer arbor supports have adjustable bushings with 2½", No. 3 diameter hole on No. 2K Universal Machines and with 2¾", No. 4 diameter hole on No. 3K Universal Machines.

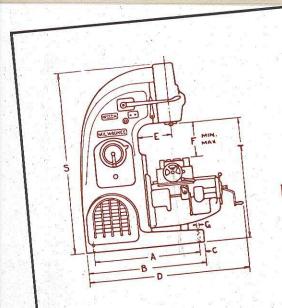
(NOTE: No. 2K Universal Machine is furnished with style A arbor support with adjustable bushing with 23/32" diameter hole for style A (pilot end) arbors, in place of style B intermediate arbor support.

EXTRA EQUIPMENT (Available at additional cost): Plain and swivel vises, three-jaw universal chucks, right angle drive attachment for dividing head, astronomical divider for dividing head, universal and vertical milling attachments, slotting attachment, thread milling attachment, rack wise, rotary tables, hinged arbor support, and arbors and collets. (See pages 12 and 13).

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.

PLAN DIMENSION DATA

1.0	A	В	C	D	E	F Min	F Max	G	Н	K	L	М	N	P	Q	R	s	T Max	T Min
2K Vertical (inches)	43L 45R	49	2	691/4	14	0	19 ½	13 16	2	28	24F 24½R	711/8	50 5/8	491/8	56	41	75 1/8	50	44
3K Vertical (inches)	48½L 51R	55	2	753/4	18	0	21	13	2	32	28F 28 1/8R	83 1/4	60 1/8	56 1/8	64	48	813/4	523/4	453
2K Vertical (mm)	1092L 1143R	1245	51	1759	356	0	484	21	51	711	610F 623R	1806	1286	1248	1422	1041		1270	-
3K Vertical (mm)	1232L 1295R	1397	51	1924	457	0	533	21	51	813	711F 733R	2115	1546	1445	1626	1219	2076	1340	116



PLAN DIMENSIONS

VERTICAL TYPE

Solid Rear Wall Column

Center Bearing Spindle

Easy-to-Read Dials

Cross-Mounted Motor

Automatic Lubrication System

Safety Interlocks on all Control Levers

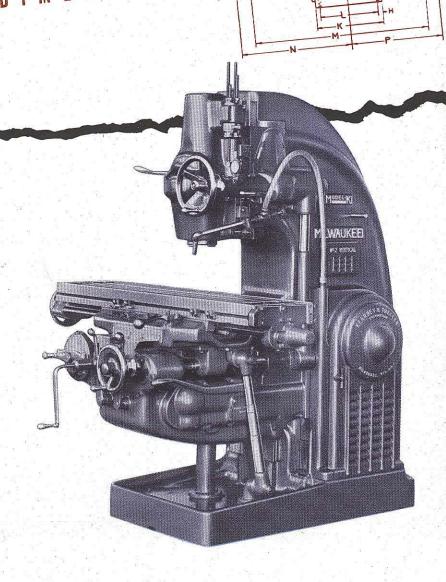
"Live" Rapid Traverse

Four-Position Micrometer Stop

Correct Working Height

24 Speed Changes

32 Feed Changes



GENERAL SPECIFICATIONS

	No. 2K V	ERTICAL	No. 3K VE	RTICAL
le le	Inches	Millimeters	Inches	Millimeters
TABLE— Working Surface Size Over-all. T-Slots—Number and Width. —Center Distance. Back Edge of Table to Center of First T-Slot.	56"x12"	1422x305	64"x15½"	1625x394
	56"x12"	1422x305	64"x15½"	1625x394
	Three—14"	Three 17.5	Three—11"	Three 17.5
	234"	70	2¾	70
	314"	82.5	5"	127
RANGE— Longitudinal Power Feed Cross Power Feed Vertical Power Feed Sliding Vertical Head Power Feed. Distance Spindle Nose to Top of Table—Maximum. Throat Distance, Center-line of Spindle to Column. Duplicate Rear Power and Hand Controls available if desired, at additional cost.	28"	711	34"	864
	12"	305	14"	356
	14"	356	16"	406
	6"	152	7"	178
	19 ½"	484	21"	533
	14"	356	18"	457
SPINDLE—Chrome Nickel Steel, Heat Treated, Hardened and Ground— Center Bearing (increases stiffness 8 to 1). No. 50 National Standard, Taper Hole 3½" per Foot. Diameter of Nose. Size of Hole Through for 1" Diameter Draw-In Rod.	Yes	Yes	Yes	Yes
	Yes	Yes	Yes	Yes
	5 15 "	128.6	5 18 "	128.6
	1 <u>15</u> "	27	1 18 "	27
SPEEDS—100 to 1 Ratio—One Complete Series (single lever)— Number. Range—In Geometrical Progression. Reverse	24	24	24	24
	15 to 1500 rpm	15 to 1500 rpm	15 to 1500 rpm	15 to 1500 rpm
	Yes	Yes	Yes	Yes
FEEDS—240 to 1 Ratio—One Complete Series (single lever)— Number—In Geometrical Progression. Range—Longitudinal and Cross (rate per minute). —Vertical (rate per minute). Rear Feed Controls—Hand and Power	32	32	32	32
	1¼" to 60"	6 to 1440	1/4" to 60"	6 to 1440
	½%" to 30"	3 to 720	1/6" to 30"	3 to 720
	Extra	Extra	Extra	Extra
POWER FEED TO SLIDING HEAD— Number of Feeds Range of Feeds—In Geometrical Progression	32	32	32	32
	½″ to 30″	3 to 720	½″ to 30″	3 to 720
RAPID TRAVERSE— With Spindle Stopped or Running— Longitudinal—Rate per Minute (front and rear control). Cross—Rate per Minute (front and rear control). Vertical—Rate per Minute Vertical Head	150"	3600	150"	3600
	150"	3600	150"	3600
	75"	1800	75"	1800
	75"	1800	75"	1800
DRIVE—Silent Multiple V-belt from Motor— Pulley Speed. Motor Speed. Horsepower Recommended.	600 rpm	600 rpm	600 rpm	600 rpm
	1800 rpm	1800 rpm	1800 rpm	1800 rpm
	7½	7½	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 Shipping Weight (Domestic) Shipping Weight (Foreign) Size of Case (Foreign) Cubic Measurements (Foreign)	6700 lb 7200 lb 7700 lb 42"x82"x83" 165 cu ft	3042 kg 3496 kg 1067x2083x2108 4.67 cu meters	8800 lb 9400 lb 10,135 lb 48"x85"x89" 210 cu ft	7 3995 kg 4601 kg 1219x2210x2261 5.94 cu meters

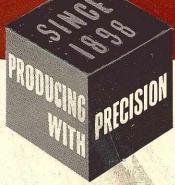
STANDARD EQUIPMENT INCLUDES: Spindle reverse; oil filter; cutter coolant system; power rapid traverse in both directions for longitudinal, cross and vertical movements of table; hand feed, power feed and power rapid traverse in both directions for vertical movement of sliding vertical spindle head; arbor draw-in rod; built-in push button station for starter; and necessary wrenches.

NOTE: No. 2K and No. 3K Vertical Machines can be furnished with a single or a four-position micrometer stop and dial indicator for sliding vertical spindle head as desired at a differential in price.

EXTRA EQUIPMENT (Available at additional cost): Plain and swivel vises, rotary tables, arbors and collets.

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Before the turn of the century, two men with but a single thought entered the machine tool field—
to build machines "at a profit if we can, at a loss if we must—but always good machines."

This singleness of purpose is found confirmed and reflected in the quality and precision of all
Milwaukee Machine Tools that have been designed and developed through the years. Ours is a
reassuring story of initiative and invention, guided solely by a steadfast insistence on sound
engineering principles and superior standards of workmanship. It is this policy of building only what is
precisely manufactured that is your guarantee of a profitable return on Milwaukee Machine Tools.

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