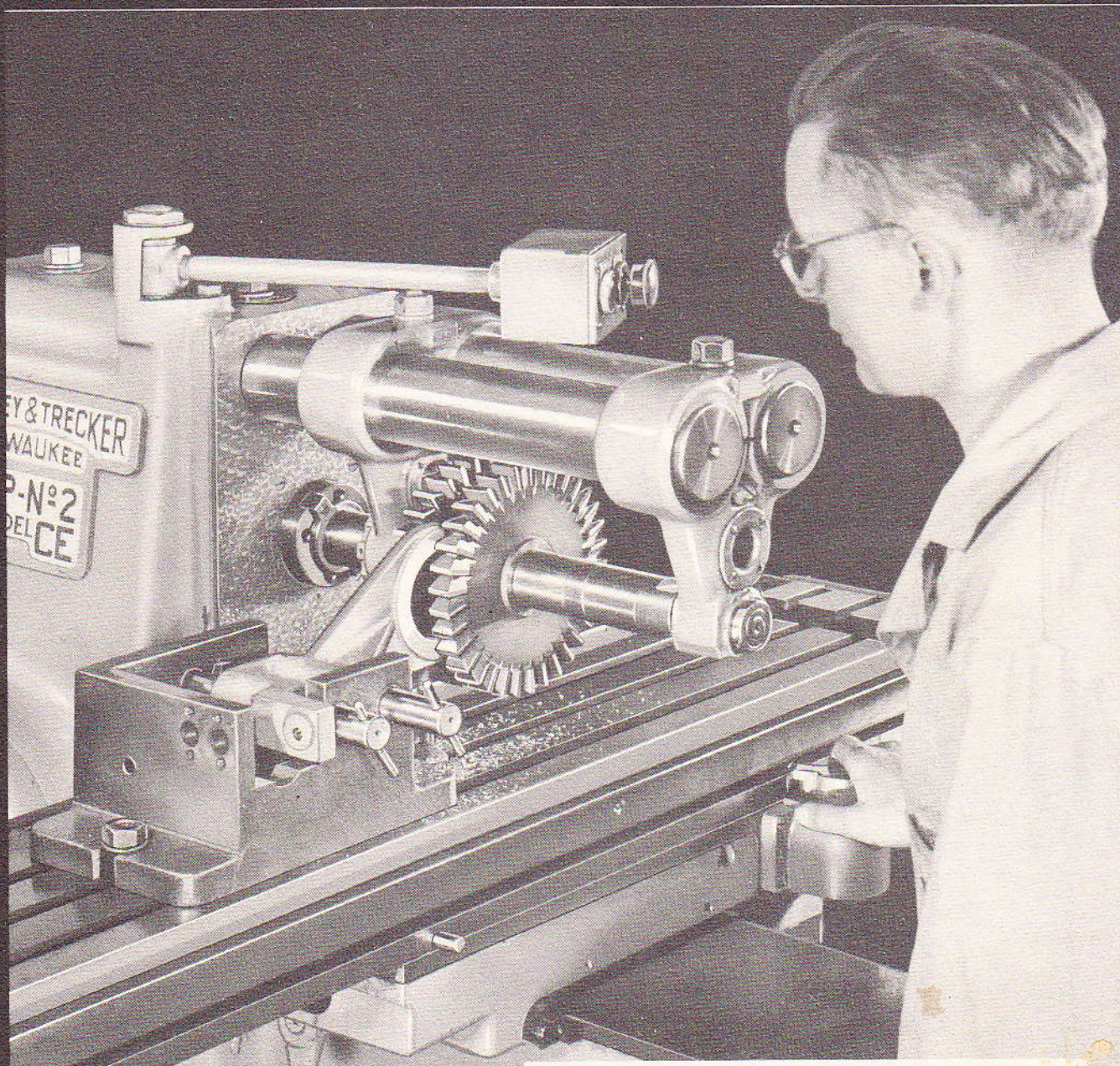
KEARNEY & TRECKER MILWAUKEE

3hp No. 2 and 7½hp. No. 3

The New MODEL CE

plain and universal

MILLING MACHINES



THE KEARNEY & TRECKER REPRESENTATIVE IN YOUR AREA IS:

KEARNEY & TRECKER CORPORATION

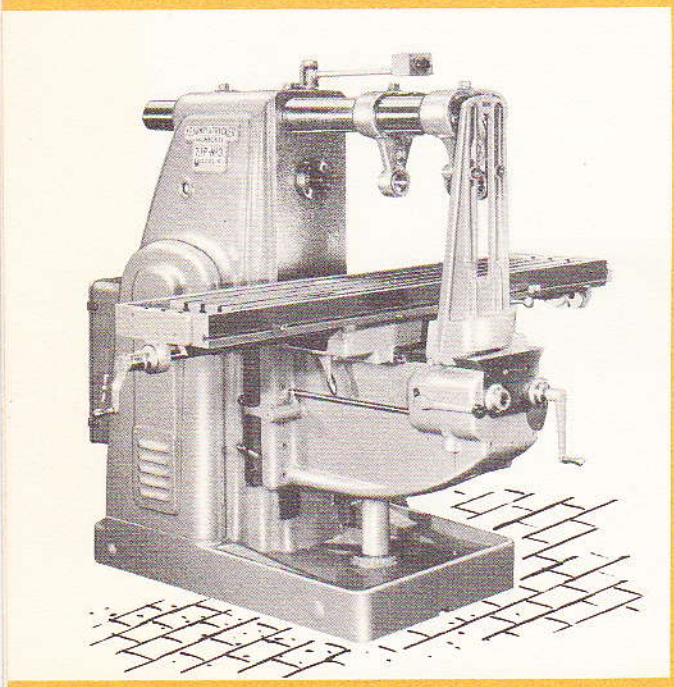
CATALOG NO. CE-10

Efficiency
Ease of operation
Economy

Kearney & Trecker again has taken the initiative by producing the new Model CE, a milling machine that fulfills the three prime shop considerations . . . Efficiency of Operation, Ease of Operation and Economy of Operation. Available in either the Nos. 2 or 3 size in both Plain and Universal styles these new machines are ideally suited for those who face budget restrictions.

The Model CE is a direct result of an exhaustive survey of production facilities, tooling requirements and vocational education needs. This study pointed to a definite need for a simplified, *low cost*, precision built milling machine. Work range and horsepower were also prime factors to be considered in addition to matching the accuracy and quality of similar size higher priced machines.

All of these necessary requirements are combined in the new Model CE machines to form the basic fundamentals of sound milling design . . . ACCURACY, RIGIDITY and CAPACITY. Naturally they are built with the high standards of workmanship, material and quality so closely identified with Kearney & Trecker — Milwaukee Machine Tools since 1898.



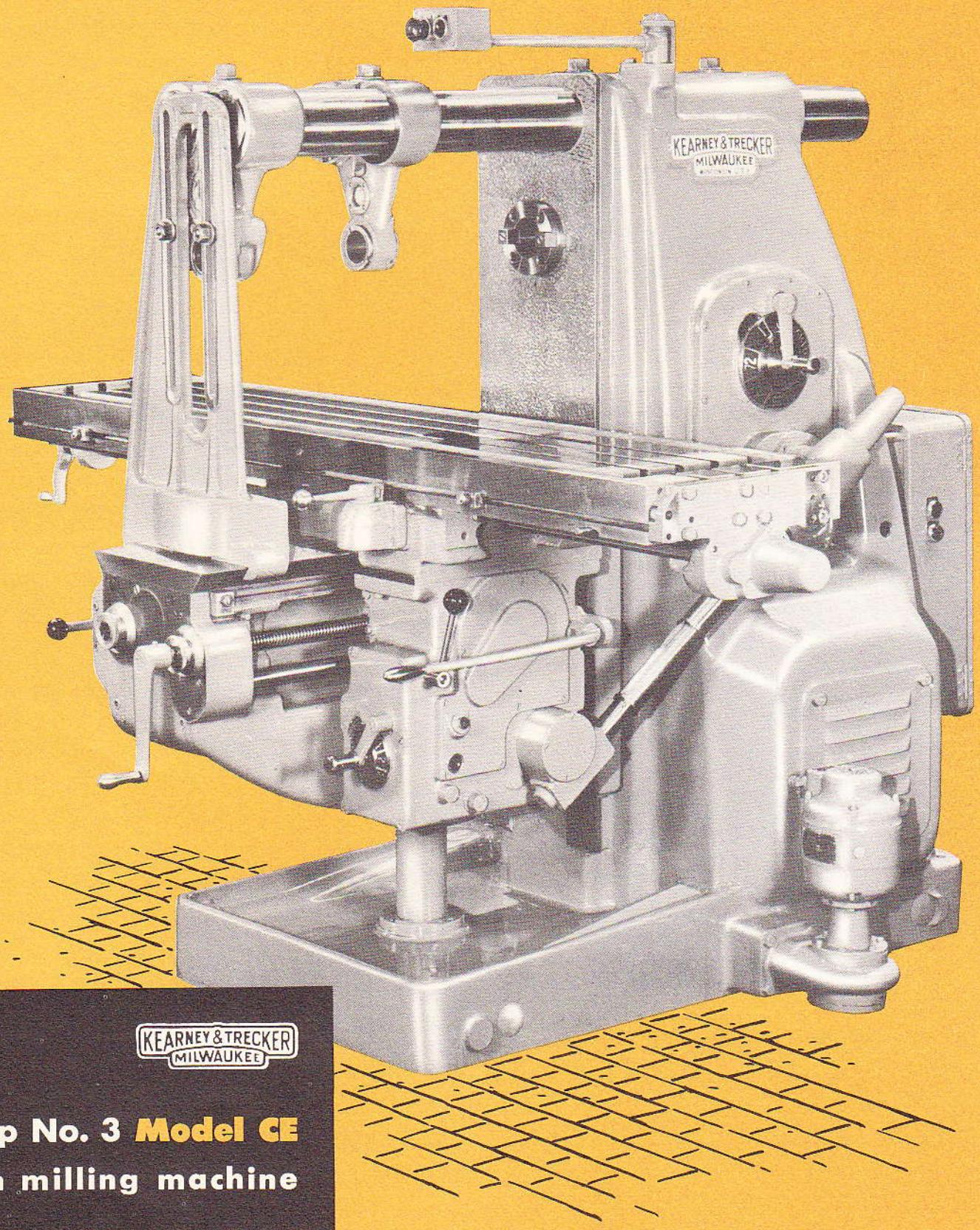
KEARNEY & TRECKER MILWAUKEE

7½hp No. 3, MODEL CE Plain Milling Machine

NOTE: Standard equipment includes choice of only one arbor support.

OUR COVER . . .

Held in a special fixture, this shifter fork is straddle-milled in record time on the new No. 2 Model CE Plain milling machine.



KEARNEY & TRECKER
MILWAUKEE

7½hp No. 3 Model CE plain milling machine

NOTE: Standard equipment includes choice of only one arbor support.

BUILT for a purpose..

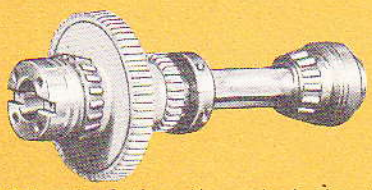
Low Initial Cost makes the model CE ideally suited for small tool shops • maintenance shops • repair shops • schools. Amazingly economical . . . yet possesses every milling requirement of No. 2 and No. 3 milling machines.

CONSTRUCTED substantially . . . fundamentally . . . sensibly

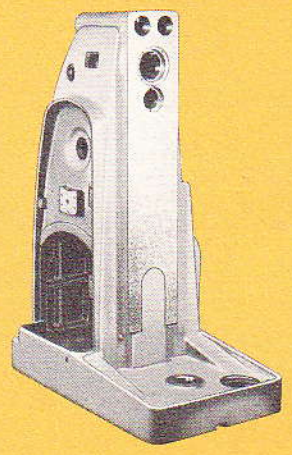
Built-in Rigidity
• carefully matched sliding members
• quality material and workmanship in every part.

16 Quick Change Speeds . . . *easily selected . . . range from 25 to 1300 rpm in approximate geometric progression. Non-clash shifting during speed changes.*

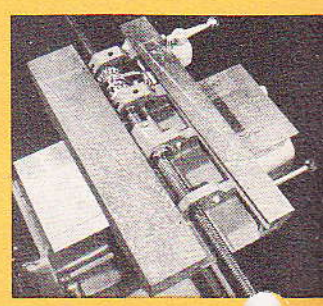
16 Quick Change Feeds . . . *½ to 25 ipm —in approximate geometric progression. Feed control easily accessible for rapid change selection.*



Full Capacity Cutting *with over-size bearing spindle support, National Standard Taper, No. 40 on 2CE and No. 50 on 3CE, chrome nickel steel, hardened and ground —for standard milling machine arbors.*



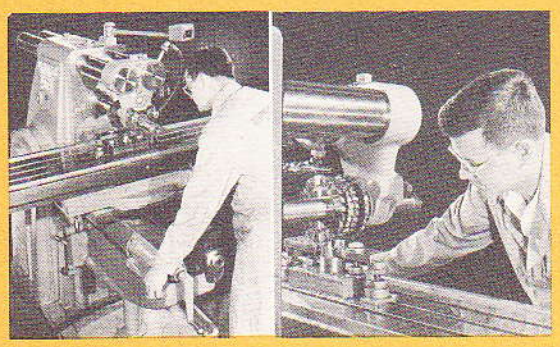
Greater Strength, *through a one piece box-section constructed column featuring a solid back. All metal properly distributed, with ribbed reinforcements at critical stress points to absorb cutting pressures.*



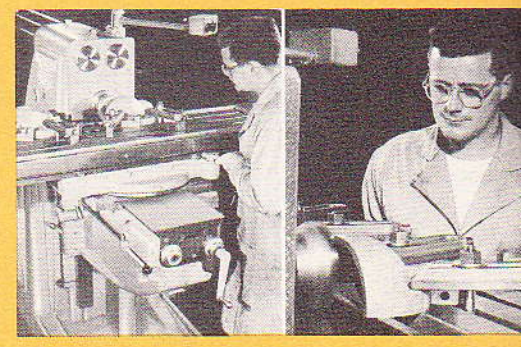
Ample Table Bearing Su *for longitudinal travel provided by long, wide saddle ways. On universal style machines, large circular bearing surfaces on saddle and swivel block assure complete accuracy when table is swiveled to any position within machine limits.*

TOP PERFORMANCE . . . throughout

Capacity
Feeds and Speeds.
• large working surface
• ample table-saddle-knee-travel.

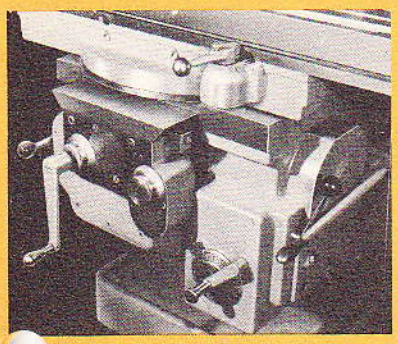


Straddle Milling *is "taken-in-stride" by model CE milling machines. Here four surfaces are being milled simultaneously on a forged steel yoke. Overall dimensions between the four milled surfaces were held to .001". Rigid arbor-cutter setup permitted continuous milling accuracy on large quantity workpiece lot . . . first and last pieces exactly the same.*

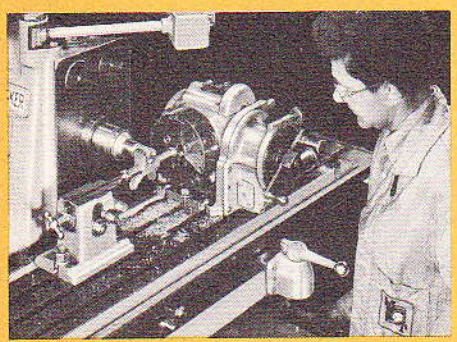


Heavy Duty Table *and full capacity spindle power per[illegible] deep cuts of maximum speeds and feeds . . . this combinatio[illegible]ides for production milling setups. Shown above is face milling [illegible]ation on a flat surface on one of two cast iron housing covers. Note the substantial cut being made (right above).*

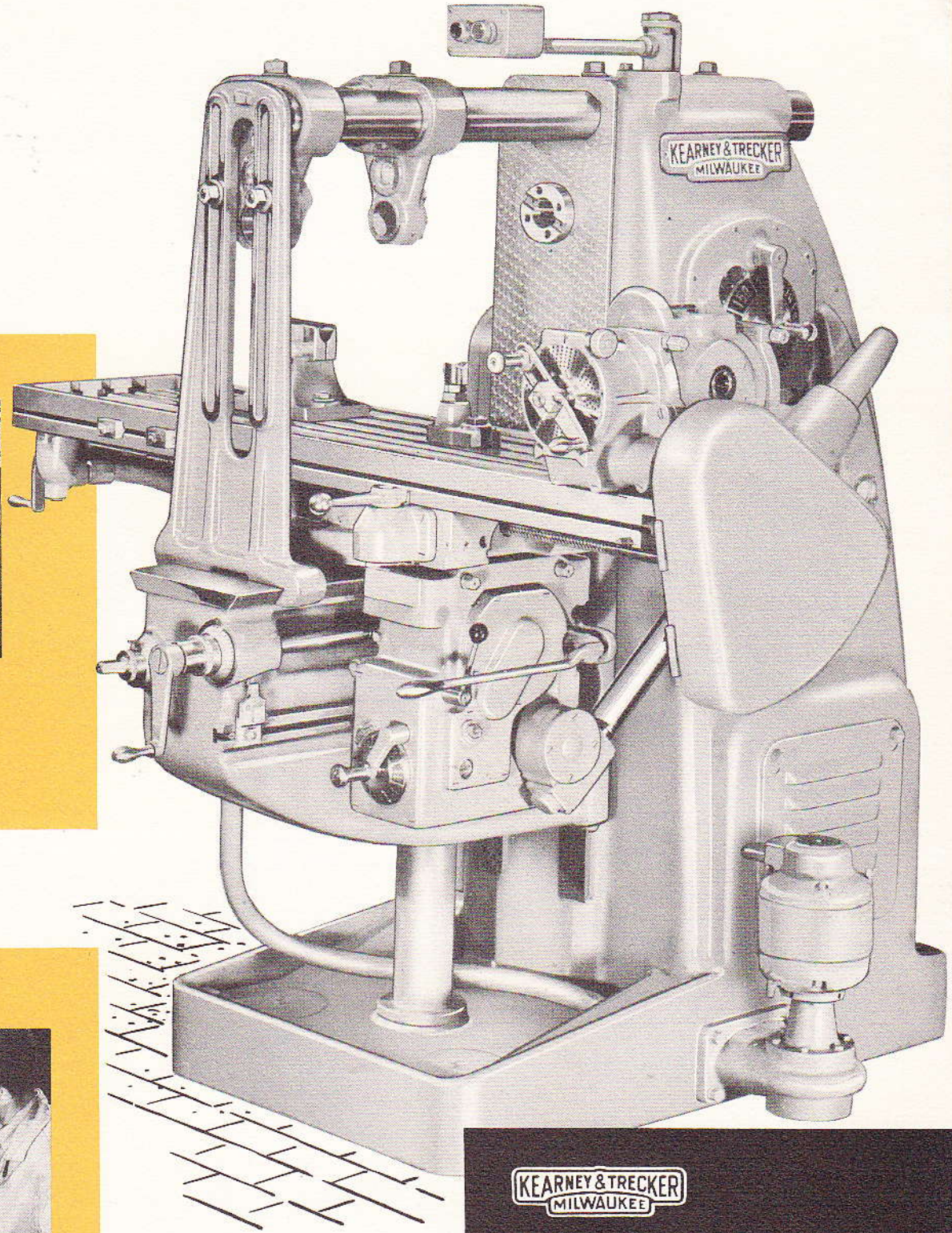
. DESIGNED with reasoning



ntrols Centrally Grouped . . . *sensitive . . . safety type . . . spring actuated. Functionally designed and located for positive and rapid selection of travel, feeds and speeds . . . provides for extreme ease of operation.*



eadily Adaptable *for all standard attachments. In instance, a dividing head is used to position a shifter twice for milling two clearance radii which are at distinct angles to each other.*



KEARNEY & TRECKER
MILWAUKEE

3hp No. 2 Model CE
universal milling machine

NOTE: Standard equipment includes choice of only one arbor support. Only Conventional Lead Attachment (shown above) is available in Model CE Universal machines.

GENERAL SPECIFICATIONS

MODEL CE
MILLING MACHINES

NOTE: Figures printed in color are in metric system (mm)

	DESCRIPTION	MODEL CE			
		3hp No. 2		7½hp No. 3	
		Plain	Universal	Plain	Universal
TABLE	Working Surface	52″ x 12″ 1321 x 305	52″ x 12″ 1321 x 305	67″ x 15″ 1702 x 381	67″ x 15″ 1702 x 381
	Swivels—Right or Left		47°		47°
	Feed Range Longitudinal	28″ 711	28″ 711	34″ 864	34″ 864
	—Cross	10″ 254	10″ 254	12″ 305	12″ 305
	—Vertical	17″ 432	17″ 432	18″ 457	18″ 457
	Feeds—Number of Changes†	16	16	16	16
	—Rate Range—Per Minute—Longitudinal and Cross	½″ to 25″ 12 to 600	½″ to 25″ 12 to 600	½″ to 25″ 12 to 600	½″ to 25″ 12 to 600
	—Vertical	Vertical Feed Rate Range one-third that of longitudinal and cross			
	Power Rapid Traverse—Rate per Minute—Longitudinal and Cross	100″ 2500	100″ 2500	100″ 2500	100″ 2500
	—Vertical	33″ 833	33″ 833	33″ 833	33″ 833
SPINDLE	Size—National Standard Taper Hole (3½″ per foot)	No. 40	No. 40	No. 50	No. 50
	Speeds—Number of Changes‡	16	16	16	16
	—Range—Revolutions per Minute	25 to 1300	25 to 1300	25 to 1300	25 to 1300
ARBOR SUPPORTS	Style A—$2\frac{3}{32}$″ Hole for Style A Pilot End Arbors OR Style B—Intermediate—1⅞″ Hole for No. 3 Bearing	ONE ONLY	ONE ONLY	ONE ONLY	ONE ONLY
DIVIDING HEAD	Spindle Size—National Standard Taper Hole (3½″ per foot)		No. 40		No. 50
	Swing		10″ 254		12″ 305
	Distance Between Centers		28″ 711		43″ 1092
	Indexing Ratio (Turns of Handcrank per Revolution of Spindle)		40 to 1		40 to 1
MOTORS	Spindle Drive	3hp	3hp	7½hp	7½hp
	Coolant Pump Drive	¼hp	¼hp	¼hp	¼hp
SHIPPING DATA (Approximate)	Net Weight	3300 lb 1497 kg	3500 lb 1588 kg	6000 lb 2722 kg	6400 lb 2903 kg
	Shipping Weight—Domestic	3650 lb 1656 kg	3850 lb 1747 kg	6350 lb 2880 kg	6750 lb 3062 kg
	Shipping Weight—Boxed for Ocean Shipment	4000 lb 1815 kg	4200 lb 1906 kg	6700 lb 3040 kg	7100 lb 3221 kg
	Case Dimensions—Boxed for Ocean Shipment	42″ x 75″ x 69″ 1067 x 1905 x 1753	42″ x 75″ x 69″ 1067 x 1905 x 1753	46″ x 84″ x 73″ 1168 x 2134 x 1854	47″ x 84″ x 73″ 1168 x 2134 x 1854
	Cubical Contents of Case—Boxed for Ocean Shipment	126 cu ft 3.6 m^3	126 cu ft 3.6 m^3	164 cu ft 4.7 m^3	164 cu ft 4.7 m^3

†**LONGITUDINAL AND CROSS FEED RATE INCREMENTS—ipm:** ½, ⅝, $\frac{13}{16}$, 1, 1⅜, $1\frac{13}{16}$, 2⅜, 3⅛, 4, 5¼, 6¾, 9, 12, 15, 20, 25.

VERTICAL FEED RATE INCREMENTS: One-third of those shown.

‡**SPEED RATE INCREMENTS—rpm:** 25, 32, 42, 55, 72, 94, 122, 159, 205, 267, 348, 453, 591, 768, 1000, 1300.

STANDARD EQUIPMENT INCLUDES:

(A) **ON PLAIN AND UNIVERSAL STYLE MACHINES**—Cutter coolant system; six adjustable trip dogs for table, saddle and knee; arbor draw-in rod; one arbor support; set of wrenches. Complete electrical equipment includes motor and controls for operation on 220, 380, 440 or 550 volt, 2 or 3 phase, 50 or 60 cycle alternating current, wired in accordance with Machine Tool Electrical Standards. Orders must specify electrical current characteristics.

(B) **ON UNIVERSAL STYLE MACHINES ONLY**—All equipment listed in (A) above plus the following: Model H universal spiral dividing head—40 to 1 index ratio; complete with three single index plates, adjustable tailstock, center rest, and dividing head center with work driver; Conventional Lead Attachment (approximately 1300 leads obtainable by power from 2½″ to 149″), and standard book of leads and indexing divisions.

EXTRA EQUIPMENT (available at additional cost): Plain, Swivel and Rack Vises; Chucks; Standard High Speed Adjustable Universal Milling Attachment; Heavy Duty Universal Milling Attachment; Standard Swivel Head Vertical Milling Attachment; Heavy Duty Swivel Head Vertical Milling Attachment; Slotting Attachment; Rack Milling Attachment, Rack Indexing Attachment; Rotary Tables; Dividing Heads; Arbors, Collets, etc.

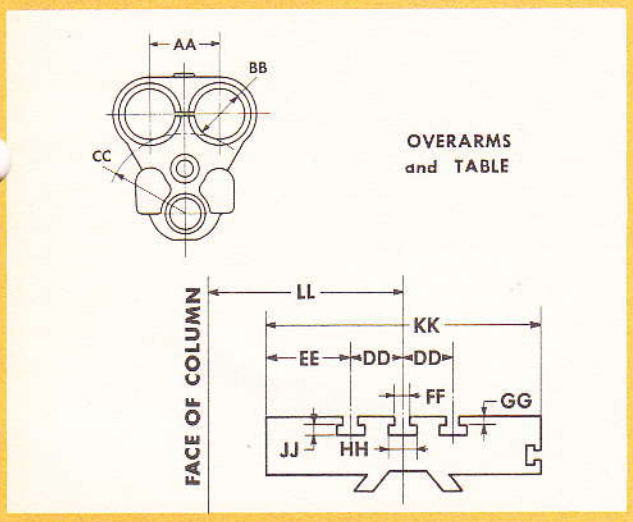
PATENT NOTICE: The novel features of the Kearney & Trecker—Milwaukee Milling Machines and Attachments illustrated and described in this catalog are protected by issued and pending United States and Foreign Patents. The manufacturer reserves the right to improve, change or modify the construction of these milling machines or attachments or any part thereof as he may see fit, without incurring any obligations to make like changes on KEARNEY & TRECKER CORPORATION—MILWAUKEE Milling Machines or attachments previously sold.

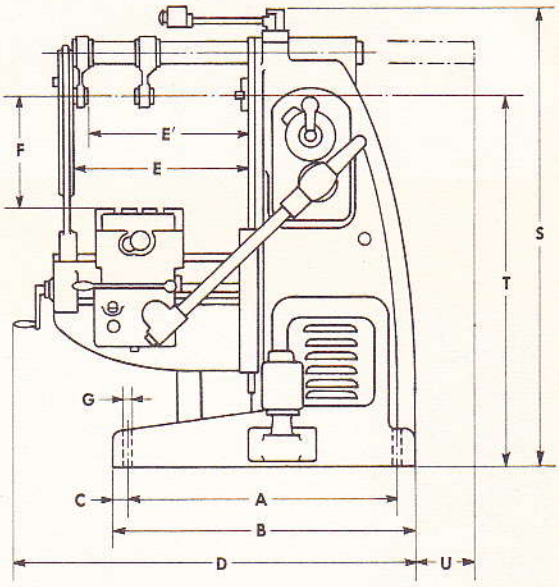
KEARNEY & TRECKER MILWAUKEE

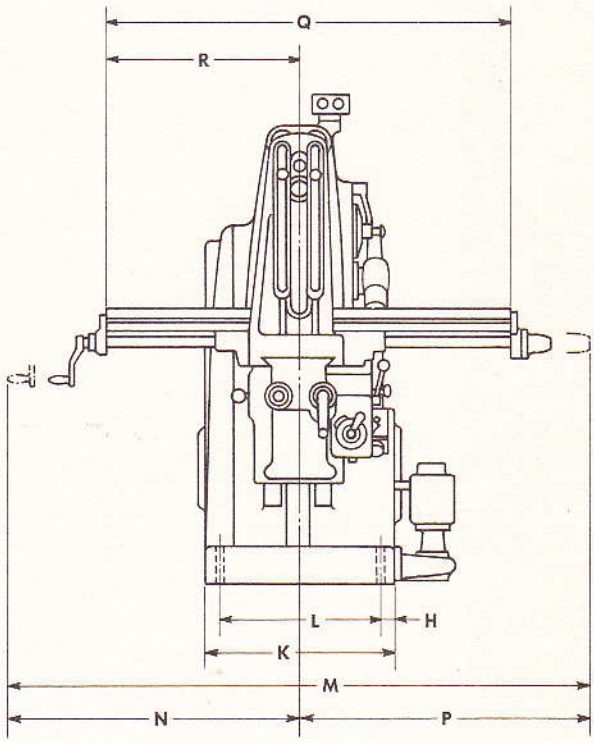
PLAN DIMENSIONS

KEARNEY & TRECKER MILWAUKEE

3hp No. 2
7½hp No. 3
MODEL CE
milling machines







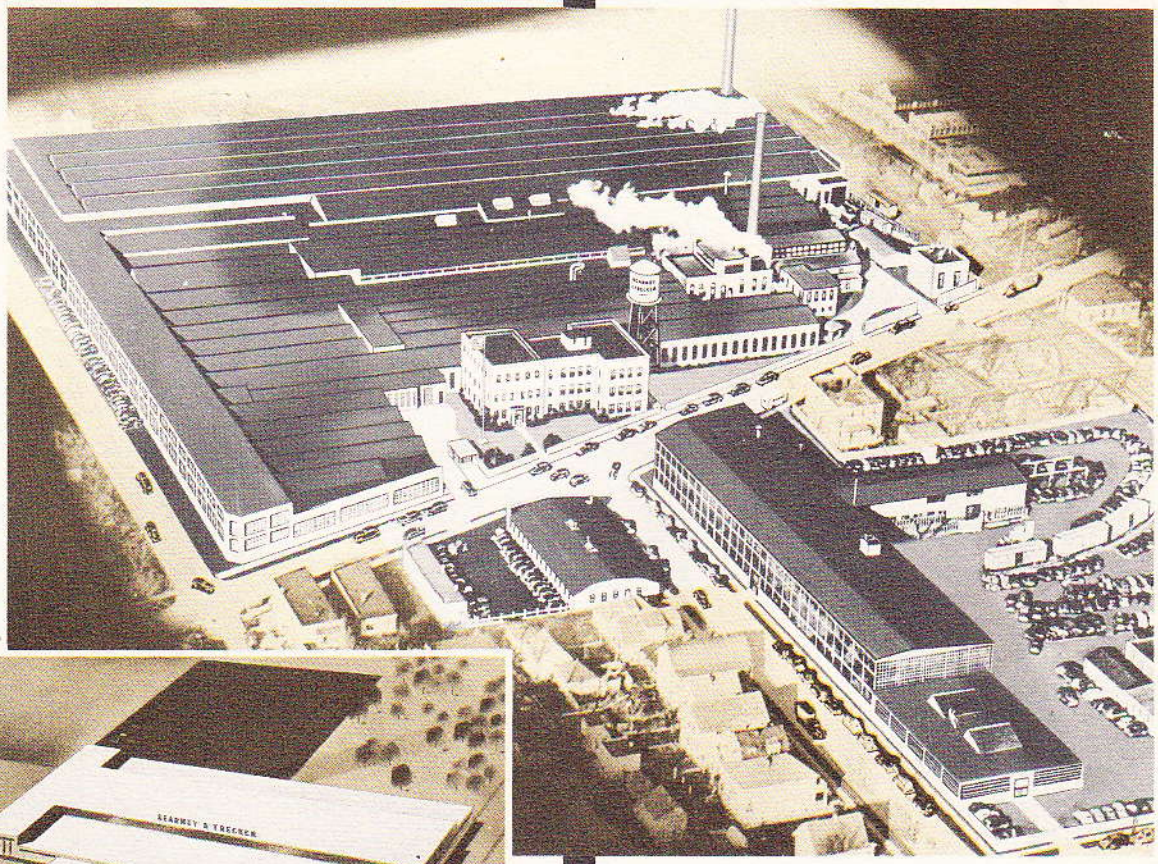
Note: Figures printed in white are in metric system (mm)

	A	B	C	D	E	E'	F Min	F Max Plain	F Max Univ.	G	H Front	H Rear	K	L Front	L Rear	M
3hp No. 2 Model CE Plain and Universal	37¾	41	1¾	56	24½	22¼	0	17	16	13/16	1¾	1½	22	20½	21	65⅜
	959	1041	44	1422	622	565	0	432	406	21	44	38	559	521	533	1661
7½hp No. 3 Model CE Plain and Universal	45¾	49	1¾	65	29¾	26½	0	18	17	13/16	1¾	1½	28	24½	25	81
	1162	1245	44	1651	756	673	0	457	432	21	44	38	711	622	635	2057

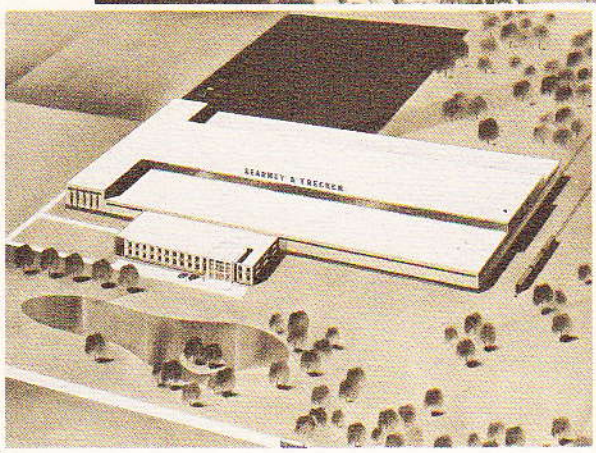
N	P	Q	R Max	S	T	U	AA	BB	CC	DD	EE	FF	GG	HH	JJ	KK	LL Min	LL Max
50¼	43⅛	52	42	61¾	50	15½	4	2⅞	4 5/16	2¼	3¾	1 1/16	5/16	1¼	31/64	12	7⅜	17⅜
1276	1095	1321	1067	1568	1270	394	102	73	116	57	95	17	14	32	12	305	187	441
61	54	67	52¼	65¼	50	26	5⅜	4¼	6⅜	2¾	5¼	1 1/16	¾	1¼	31/64	15	9⅜	21¾
1549	1372	1702	1327	1654	1270	660	137	108	162	70	133	17	19	32	12	381	238	552

PRODUCING WITH PRECISION

since 1898



General Offices and Plant
STANDARD MACHINE DIVISION



Office and Plant
SPECIAL MACHINERY DIVISION

KEARNEY & TRECKER CORPORATION

MILWAUKEE 14, WISCONSIN, U.S.A.

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 in the quality and precision of all Kearney & Trecker — 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. This policy constitutes your guarantee of a profitable return on Kearney & Trecker — Milwaukee Machine Tools.

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ATLANTA, GA.
Scott Machine Tool Co.
BIRMINGHAM, ALA.
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Stedfast & Roulston, Inc.
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